Package ‘civis’

February 24, 2020

Title R Client for the 'Civis Platform API'
Version 2.1.2
Description A convenient interface for making
requests directly to the 'Civis Platform API' <https://www.civisanalytics.com/platform/>.
Full documentation available 'here' <https://civisanalytics.github.io/civis-r/>.
Depends R (>= 3.2.0)
License BSD_3_clause + file LICENSE
LazyData true
URL https://github.com/civisanalytics/civis-r
BugReports https://github.com/civisanalytics/civis-r/issues
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utils
Suggests feather, ggplot2, knitr, rmarkdown, roxygen2, mockery,
R.utils, rstudioapi, testthat, yaml
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'civis_ml_utils.R' 'civis_ml_workflows.R' 'client_base.R'
'generate_client.R' 'generated_client.R' 'io.R' 'logs.R'
pagination_helpers.R' 'reports.R' 'rstudio.R' 'scripts.R'
tables.R' 'utils.R' 'zzz.R'
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admin_delete_announcements

**Delete an announcement**

**Description**
Delete an announcement

**Usage**

```python
admin_delete_announcements(id)
```

**Arguments**

- **id**
  - integer required. The ID of this announcement

**Value**

An empty HTTP response

---

admin_get_announcements

**Get a particular announcement**

**Description**
Get a particular announcement

**Usage**

```python
admin_get_announcements(id)
```

**Arguments**

- **id**
  - integer required. The ID of this announcement

**Value**

A list containing the following elements:

- **id**
  - integer, The ID of this announcement
- **subject**
  - string, The subject of this announcement
- **body**
  - string, The body of this announcement
- **releasedAt**
  - string, The date and time this announcement was released
- **createdAt**
  - string
- **updatedAt**
  - string
admin_list_announcements

List announcements

Description

List announcements

Usage

admin_list_announcements(
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

limit integer optional. Number of results to return. Defaults to 10. Maximum allowed is 50.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to released_at. Must be one of: released_at.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id integer, The ID of this announcement

subject string, The subject of this announcement.

body string, The body of this announcement.

releasedAt string, The date and time this announcement was released.

createdAt string,

updatedAt string,
admin_list_organizations

List organizations

Description
List organizations

Usage
admin_list_organizations(status = NULL, org_type = NULL)

Arguments
status array optional. The status of the organization (active/trial/inactive).
org_type array optional. The organization type (platform/ads/survey_vendor/other).

Value
An array containing the following fields:
id integer, The ID of this organization.
name string, The name of this organization.
slug string, The slug of this organization.
accountManagerId integer, The user ID of the Account Manager.
CSpecialistId integer, The user ID of the Client Success Specialist.
status string, The status of the organization (active/trial/inactive).
orgType string, The organization type (platform/ads/survey_vendor/other).
customBranding string, The custom branding settings.
contractSize integer, The monthly contract size.
maxAnalystUsers integer, The max number of full platform users for the org.
maxReportUsers integer, The max number of report-only platform users for the org.
vertical string, The business vertical that the organization belongs to.
csMetadata string, Additional metadata about the organization in JSON format.
removeFooterInEmails boolean, If true, emails sent by platform will not include Civis text.
salesforceAccountId string, The SalesForce Account ID for this organization.
tableauRefreshHistory array, The number of tableau refreshes used this month.
admin_patch_announcements

*Edit an announcement*

**Description**

Edit an announcement

**Usage**

```r
admin_patch_announcements(id, subject = NULL, body = NULL, released_at = NULL)
```

**Arguments**

- `id`: integer required. The ID of this announcement
- `subject`: string optional. The subject of this announcement.
- `body`: string optional. The body of this announcement.
- `released_at`: string optional. The date and time this announcement was released.

**Value**

A list containing the following elements:

- `id`: integer, The ID of this announcement
- `subject`: string, The subject of this announcement.
- `body`: string, The body of this announcement.
- `releasedAt`: string, The date and time this announcement was released.
- `createdAt`: string,
- `updatedAt`: string,

admin_patch_themes

*Edit a theme*

**Description**

Edit a theme

**Usage**

```r
admin_patch_themes(
  id,
  name = NULL,
  organization_ids = NULL,
  settings_json = NULL,
  logo_file_id = NULL
)
```
Arguments

id integer required. The ID of this theme.
name string optional. The name of this theme.
organization_ids array optional. List of organization ID’s allowed to see this theme.
settings_json string optional. The JSON-encoded theme configuration.
logo_file_id string optional. The ID of the logo image file.

Value

A list containing the following elements:

id integer, The ID of this theme.
name string, The name of this theme.
organizationIds array, List of organization ID’s allowed to use this theme.
settings string, The theme configuration object.
logoFile list, A list containing the following elements:
  • id integer, The ID of the logo image file.
  • downloadUrl string, The URL of the logo image file.
createdAt string,
updatedAt string,

Description

Post an announcement

Usage

admin_post_announcements(subject, body, released_at = NULL)

Arguments

subject string required. The subject of this announcement.
body string required. The body of this announcement.
released_at string optional. The date and time this announcement was released.
Value

A list containing the following elements:

- **id**: integer, The ID of this announcement.
- **subject**: string, The subject of this announcement.
- **body**: string, The body of this announcement.
- **releasedAt**: string, The date and time this announcement was released.
- **createdAt**: string,
- **updatedAt**: string,

admin_post_themes

Create a theme

Description

Create a theme

Usage

```python
admin_post_themes(
    name,
    settings_json,
    organization_ids = NULL,
    logo_file_id = NULL
)
```

Arguments

- **name**: string required. The name of this theme.
- **settings_json**: string required. The JSON-encoded theme configuration.
- **organization_ids**: array optional. List of organization ID's allowed to see this theme.
- **logo_file_id**: string optional. The ID of the logo image file.

Value

A list containing the following elements:

- **id**: integer, The ID of this theme.
- **name**: string, The name of this theme.
- **organizationIds**: array, List of organization ID’s allowed to use this theme.
- **settings**: string, The theme configuration object.
- **logoFile**: list, A list containing the following elements:
**aliases_delete**

- id integer, The ID of the logo image file.
- downloadUrl string, The URL of the logo image file.

<table>
<thead>
<tr>
<th>createdAt</th>
<th>string</th>
</tr>
</thead>
<tbody>
<tr>
<td>updatedAt</td>
<td>string</td>
</tr>
</tbody>
</table>

**aliases_delete**

_Del* Delete an alias

**Description**
Delete an alias

**Usage**

aliases_delete(id)

**Arguments**

- id integer required. The id of the Alias object.

**Value**
An empty HTTP response

---

**aliases_delete_shares_groups**

_Revoke the permissions a group has on this object_

**Description**
Revoke the permissions a group has on this object

**Usage**

aliases_delete_shares_groups(id, group_id)

**Arguments**

- id integer required. The ID of the resource that is shared.
- group_id integer required. The ID of the group.

**Value**
An empty HTTP response
### aliases_delete_shares_users

Revoke the permissions a user has on this object

**Description**

Revoke the permissions a user has on this object

**Usage**

`aliases_delete_shares_users(id, user_id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>user_id</td>
<td>integer required. The ID of the user.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response

---

### aliases_get

Get an Alias

**Description**

Get an Alias

**Usage**

`aliases_get(id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The id of the Alias object.</td>
</tr>
<tr>
<td>objectId</td>
<td>integer, The id of the object</td>
</tr>
</tbody>
</table>
aliases_get_object_type

Get details about an alias within an FCO type

Description

Get details about an alias within an FCO type

Usage

aliases_get_object_type(object_type, alias)

Arguments

object_type string required. The type of the object. Valid types include: bsd_cons_export, model, cass_ncoa, container_script, gdoc_export, geocode, match, media_optimizer, python_script, ratecard_import, r_script, salesforce_export, javascript_script, sql_script, van_list_import, van_list_export, van_person_export, van_score_export, van_sync, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.

alias string required. The alias of the object

userId integer, The id of the user who created the alias

displayName string, The display name of the Alias object. Defaults to object name if not provided.

Value

A list containing the following elements:

- id integer, The id of the Alias object.
- objectId integer, The id of the object
- objectType string, The type of the object. Valid types include: bsd_cons_export, model, cass_ncoa, container_script, gdoc_export, geocode, match, media_optimizer, python_script, ratecard_import, r_script, salesforce_export, javascript_script, sql_script, van_list_import, van_list_export, van_person_export, van_score_export, van_sync, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
aliases_list

Description

List Aliases

Usage

aliases_list(
on_object_type = NULL,
limit = NULL,
page_num = NULL,
order = NULL,
order_dir = NULL
)

Arguments


limit  integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.

page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.

order  string optional. The field on which to order the result set. Defaults to id. Must be one of: id, object_type.

order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

id  integer, The id of the Alias object.

objectId  integer, The id of the object
**ObjectType**

string, The type of the object. Valid types include: bsd_cons_export, model, cass_ncoa, container_script, gdoc_export, geocode, match, media_optimizer, python_script, ratecard_import, r_script, salesforce_export, javascript_script, sql_script, van_list_import, van_list_export, van_person_export, van_score_export, van_sync, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.

**alias**

string, The alias of the object

**userId**

integer, The id of the user who created the alias

**displayName**

string, The display name of the Alias object. Defaults to object name if not provided.

---

**aliases_list_shares**

List users and groups permissioned on this object

**Description**

List users and groups permissioned on this object

**Usage**

`aliases_list_shares(id)`

**Arguments**

- **id**
  
  integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers**
  
  list, A list containing the following elements:
  
  - users array,
  
  - groups array,

- **writers**
  
  list, A list containing the following elements:
  
  - users array,
  
  - groups array,

- **owners**
  
  list, A list containing the following elements:
  
  - users array,
  
  - groups array,

- **totalUserShares**
  
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**
  
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
aliases_patch

Update some attributes of this Alias

Description

Update some attributes of this Alias

Usage

aliases_patch(
  id,
  object_id = NULL,
  object_type = NULL,
  alias = NULL,
  display_name = NULL
)

Arguments

- **id**: integer required. The id of the Alias object.
- **object_id**: integer optional. The id of the object
- **object_type**: string optional. The type of the object. Valid types include: bsd_cons_export, model, cass_ncoa, container_script, gdoc_export, geocode, match, media_optimizer, python_script, ratecard_import, r_script, salesforce_export, javascript_script, sql_script, van_list_import, van_list_export, van_person_export, van_score_export, van_sync, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
- **alias**: string optional. The alias of the object
- **display_name**: string optional. The display name of the Alias object. Defaults to object name if not provided.

Value

A list containing the following elements:

- **id**: integer, The id of the Alias object.
- **objectId**: integer, The id of the object
- **objectType**: string, The type of the object. Valid types include: bsd_cons_export, model, cass_ncoa, container_script, gdoc_export, geocode, match, media_optimizer, python_script, ratecard_import, r_script, salesforce_export, javascript_script, sql_script, van_list_import, van_list_export, van_person_export, van_score_export, van_sync, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
- **alias**: string, The alias of the object
- **userId**: integer, The id of the user who created the alias
aliases_post

displayName

string, The display name of the Alias object. Defaults to object name if not provided.

Create an Alias

Usage

aliases_post(object_id, object_type, alias, display_name = NULL)

Arguments

object_id

integer required. The id of the object

object_type

string required. The type of the object. Valid types include: bsd_cons_export, model, cass_ncoa, container_script, gdoc_export, geocode, match, media_optimizer, python_script, ratecard_import, r_script, salesforce_export, javascript_script, sql_script, van_list_import, van_list_export, van_person_export, van_score_export, van_sync, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.

alias

string required. The alias of the object

display_name

string optional. The display name of the Alias object. Defaults to object name if not provided.

Value

A list containing the following elements:

id

integer, The id of the Alias object.

objectId

integer, The id of the object

objectType

string, The type of the object. Valid types include: bsd_cons_export, model, cass_ncoa, container_script, gdoc_export, geocode, match, media_optimizer, python_script, ratecard_import, r_script, salesforce_export, javascript_script, sql_script, van_list_import, van_list_export, van_person_export, van_score_export, van_sync, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.

alias

string, The alias of the object

userId

integer, The id of the user who created the alias

displayName

string, The display name of the Alias object. Defaults to object name if not provided.
aliases_put

Replace all attributes of this Alias

Usage

aliases_put(id, object_id, object_type, alias, display_name = NULL)

Arguments

id integer required. The id of the Alias object.
object_id integer required. The id of the object
object_type string required. The type of the object. Valid types include: bsd_cons_export, model, cass_ncoa, container_script, gdoc_export, geocode, match, media_optimizer, python_script, ratecard_import, r_script, salesforce_export, javascript_script, sql_script, van_list_import, van_list_export, van_person_export, van_score_export, van_sync, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias string required. The alias of the object
display_name string optional. The display name of the Alias object. Defaults to object name if not provided.

Value

A list containing the following elements:

id integer, The id of the Alias object.
objectId integer, The id of the object
objectType string, The type of the object. Valid types include: bsd_cons_export, model, cass_ncoa, container_script, gdoc_export, geocode, match, media_optimizer, python_script, ratecard_import, r_script, salesforce_export, javascript_script, sql_script, van_list_import, van_list_export, van_person_export, van_score_export, van_sync, project, notebook, workflow, template_script, template_report, service, report, tableau and service_report.
alias string, The alias of the object
userId integer, The id of the user who created the alias
displayName string, The display name of the Alias object. Defaults to object name if not provided.
Set the permissions groups has on this object

Usage

aliases_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalCount integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
aliases_put_shares_users

Set the permissions users have on this object

Description
Set the permissions users have on this object

Usage
aliases_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments
id  integer required. The ID of the resource that is shared.
user_ids  array required. An array of one or more user IDs.
permission_level  string required. Options are: "read", "write", or "manage".
share_email_body  string optional. Custom body text for e-mail sent on a share.
send_shared_email  boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:
readers  list, A list containing the following elements:
  • users array,
  • groups array,
writers  list, A list containing the following elements:
  • users array,
  • groups array,
owners  list, A list containing the following elements:
  • users array,
• groups array,

**totalUserShares**
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

**totalGroupShares**
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**announcements_list**

*List announcements*

---

**Description**

List announcements

**Usage**

```python
announcements_list(
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **limit**
  integer optional. Number of results to return. Defaults to 10. Maximum allowed is 50.
- **page_num**
  integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**
  string optional. The field on which to order the result set. Defaults to released_at. Must be one of: released_at.
- **order_dir**
  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **id**
  integer, The ID of this announcement
- **subject**
  string, The subject of this announcement.
- **body**
  string, The body of this announcement.
- **releasedAt**
  string, The date and time this announcement was released.
- **createdAt**
  string,
- **updatedAt**
  string,
Remove an App Instance from a project

Description
Remove an App Instance from a project

Usage
apps_delete_instances_projects(id, project_id, slug)

Arguments
- id: integer required. The ID of the App Instance.
- project_id: integer required. The ID of the project.
- slug: string required. The slug for the application.

Value
An empty HTTP response

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
apps_delete_instances_shares_groups(slug, id, group_id)

Arguments
- slug: string required. The slug for the application.
- id: integer required. The ID of the resource that is shared.
- group_id: integer required. The ID of the group.

Value
An empty HTTP response
apps_delete_instances_shares_users

Revoke the permissions a user has on this object

**Description**
Revoke the permissions a user has on this object

**Usage**
```
apps_delete_instances_shares_users(slug, id, user_id)
```

**Arguments**
- slug: string required. The slug for the application.
- id: integer required. The ID of the resource that is shared.
- user_id: integer required. The ID of the user.

**Value**
An empty HTTP response

apps_delete_releases_shares_groups

Revoke the permissions a group has on this object

**Description**
Revoke the permissions a group has on this object

**Usage**
```
apps_delete_releases_shares_groups(slug, id, group_id)
```

**Arguments**
- slug: string required. The slug for the application.
- id: integer required. The ID of the resource that is shared.
- group_id: integer required. The ID of the group.

**Value**
An empty HTTP response
apps_delete_releases_shares_users

Revoke the permissions a user has on this object

Description

Revoke the permissions a user has on this object

Usage

apps_delete_releases_shares_users(slug, id, user_id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>slug</td>
<td>string</td>
<td>required. The slug for the application.</td>
</tr>
<tr>
<td>id</td>
<td>integer</td>
<td>required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>user_id</td>
<td>integer</td>
<td>required. The ID of the user.</td>
</tr>
</tbody>
</table>

Value

An empty HTTP response

apps_get

List details of a Decision Application

Description

List details of a Decision Application

Usage

apps_get(slug)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>slug</td>
<td>string</td>
<td>required. The slug for the application.</td>
</tr>
</tbody>
</table>
**Value**

A list containing the following elements:

- **slug** string, The slug for the application.
- **id** integer, The unique id of the application.
- **instanceName** string, A word that describes an instance of this app.
- **name** string, The name of the application.
- **currentRelease** list, A list containing the following elements:
  - **id** integer, The unique id of the release.
  - **appId** integer, The id of the app the release belongs to.
  - **reportTemplateId** integer, ID of the report template for this release.
  - **resources** object, A hash of resources associated with this release.
  - **archived** string, The archival status of the requested item(s).
- **features** list, App features.

---

**Description**

Return a given app instance

**Usage**

`apps_get_instances(id, slug)`

**Arguments**

- **id** integer required. The unique id of the instance.
- **slug** string required. The slug for the application.

**Value**

A list containing the following elements:

- **id** integer, The unique id of the instance.
- **name** string, The name of the instance.
- **appReleaseId** integer, The id of the app release the instance belongs to.
- **reportId** integer, The id of the report the instance belongs to.
- **createdAt** string, The time the instance was created at.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

projectId integer, The id of the project collecting all the items that belong to this app instance.
authCodeUrl string,
apiKey string, A Civis API key that can be used by this app instance.
archived string, The archival status of the requested item(s).

---

**apps_get_releases**  
*Return a given app release*

**Description**

Return a given app release

**Usage**

`apps_get_releases(id, slug)`

**Arguments**

- **id**
  - integer required. The unique id of the release.
- **slug**
  - string required. The slug for the application.

**Value**

A list containing the following elements:

- **id**
  - integer, The unique id of the release.
- **appId**
  - integer, The id of the app the release belongs to.
- **reportTemplateId**
  - integer, ID of the report template for this release.
- **resources**
  - list, A hash of resources associated with this release.
- **archived**
  - string, The archival status of the requested item(s).
### apps_list

**List apps**

**Description**

List apps

**Usage**

```python
apps_list()
```

**Value**

An array containing the following fields:

- `slug` : string, The slug for the application.
- `id` : integer, The unique id of the application.
- `instanceName` : string, A word that describes an instance of this app.
- `name` : string, The name of the application.

---

### apps_list_instances

**List the instances of a Decision Application**

**Description**

List the instances of a Decision Application

**Usage**

```python
apps_list_instances(
    slug,
    archived = NULL,
    app_release_id = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```
**Argument**

- **slug** string required. The slug for the application.
- **archived** string optional. The archival status of the requested item(s).
- **app_release_id** integer optional. If supplied, return only instances matching this release.
- **limit** integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to id. Must be one of: id, created_at.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

**Value**

An array containing the following fields:

- **id** integer, The unique id of the instance.
- **name** string, The name of the instance.
- **appReleaseId** integer, The id of the app release the instance belongs to.
- **reportId** integer, The id of the report the instance belongs to.
- **createdAt** string, The time the instance was created at.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **projectId** integer, The id of the project collecting all the items that belong to this app instance.
- **archived** string, The archival status of the requested item(s).

---

**apps_list_instances_projects**

List the projects an App Instance belongs to

**Description**

List the projects an App Instance belongs to

**Usage**

apps_list_instances_projects(id, slug, hidden = NULL)
apps_list_instances_shares

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID of the App Instance.</td>
</tr>
<tr>
<td>slug</td>
<td>string</td>
<td>The slug for the application.</td>
</tr>
<tr>
<td>hidden</td>
<td>boolean</td>
<td>If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.</td>
</tr>
</tbody>
</table>

Value

An array containing the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID for this project.</td>
</tr>
<tr>
<td>author</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id</td>
<td>The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name</td>
<td>This user's name.</td>
</tr>
<tr>
<td></td>
<td>• username</td>
<td>This user's username.</td>
</tr>
<tr>
<td></td>
<td>• initials</td>
<td>This user's initials.</td>
</tr>
<tr>
<td></td>
<td>• online</td>
<td>Whether this user is online.</td>
</tr>
<tr>
<td>name</td>
<td>string</td>
<td>The name of this project.</td>
</tr>
<tr>
<td>description</td>
<td>string</td>
<td>A description of the project.</td>
</tr>
<tr>
<td>users</td>
<td>array</td>
<td>An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• id</td>
<td>The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name</td>
<td>This user's name.</td>
</tr>
<tr>
<td></td>
<td>• username</td>
<td>This user's username.</td>
</tr>
<tr>
<td></td>
<td>• initials</td>
<td>This user's initials.</td>
</tr>
<tr>
<td></td>
<td>• online</td>
<td>Whether this user is online.</td>
</tr>
<tr>
<td>autoShare</td>
<td>boolean</td>
<td></td>
</tr>
<tr>
<td>createdAt</td>
<td>string</td>
<td></td>
</tr>
<tr>
<td>updatedAt</td>
<td>string</td>
<td></td>
</tr>
<tr>
<td>archived</td>
<td>string</td>
<td>The archival status of the requested item(s).</td>
</tr>
</tbody>
</table>

apps_list_instances_shares

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

apps_list_instances_shares(slug, id)
**Arguments**

slug  
string required. The slug for the application.

id  
integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers**  
  list, A list containing the following elements:
  - users array,
  - groups array,

- **writers**  
  list, A list containing the following elements:
  - users array,
  - groups array,

- **owners**  
  list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares**  
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**  
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**apps_list_releases**  
List the releases of a particular Decision Application

**Description**

List the releases of a particular Decision Application

**Usage**

```python
apps_list_releases(
    slug,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)```
Arguments

- **slug**: string required. The slug for the application.
- **archived**: string optional. The archival status of the requested item(s).
- **limit**: integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

- **id**: integer, The unique id of the release.
- **appId**: integer, The id of the app the release belongs to.
- **reportTemplateId**: integer, ID of the report template for this release.
- **resources**: list, A hash of resources associated with this release.
- **archived**: string, The archival status of the requested item(s).

Description

List users and groups permissioned on this object

Usage

```python
apps_list_releases_shares(slug, id)
```

Arguments

- **slug**: string required. The slug for the application.
- **id**: integer required. The ID of the resource that is shared.
Value
An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**apps_patch_instances**  *Update a given app instance*

Description
Update a given app instance

Usage

```php
apps_patch_instances(id, slug, name = NULL)
```

Arguments

- **id** integer required. The unique id of the instance.
- **slug** string required. The slug for the application.
- **name** string optional. The name of the instance.

Value
A list containing the following elements:

- **id** integer, The unique id of the instance.
- **name** string, The name of the instance.
- **appReleaseId** integer, The id of the app release the instance belongs to.
- **reportId** integer, The id of the report the instance belongs to.
**apps_patch_releases**

Update an existing Decision Application release

**Description**

Update an existing Decision Application release

**Usage**

```
apps_patch_releases(slug, id, report_template_id = NULL, resources = NULL)
```

**Arguments**

- **slug** string required. The slug for the application.
- **id** integer required. The unique id of the release.
- **report_template_id** integer optional. ID of the report template for this release.
- **resources** list optional. A hash of resources associated with this release.

**Value**

A list containing the following elements:

- **id** integer, The unique id of the release.
- **appId** integer, The id of the app the release belongs to.
- **reportTemplateId** integer, ID of the report template for this release.
- **resources** list, A hash of resources associated with this release.
- **archived** string, The archival status of the requested item(s).
Create a new instance of an application of the given slug

Usage

apps_post_instances(slug, name = NULL)

Arguments

- **slug**: string, required. The slug for the application.
- **name**: string, optional. The name of the instance.

Value

A list containing the following elements:

- **id**: integer, The unique id of the instance.
- **name**: string, The name of the instance.
- **appReleaseId**: integer, The id of the app release the instance belongs to.
- **reportId**: integer, The id of the report the instance belongs to.
- **createdAt**: string, The time the instance was created at.
- **user**: list, A list containing the following elements:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
  - **initials**: string, This user’s initials.
  - **online**: boolean, Whether this user is online.
- **projectId**: integer, The id of the project collecting all the items that belong to this app instance.
- **authCodeUrl**: string,
- **apiKey**: string, A Civis API key that can be used by this app instance.
- **archived**: string, The archival status of the requested item(s).
Create a new Decision Application release

**Description**
Create a new Decision Application release

**Usage**
```
apps_post_releases(slug, report_template_id, resources)
```

**Arguments**
- **slug** string required. The slug for the application.
- **report_template_id** integer required. ID of the report template for this release.
- **resources** list required. A hash of resources associated with this release.

**Value**
A list containing the following elements:
- **id** integer, The unique id of the release.
- **appId** integer, The id of the app the release belongs to.
- **reportTemplateId** integer, ID of the report template for this release.
- **resources** list, A hash of resources associated with this release.
- **archived** string, The archival status of the requested item(s).

Update the Decision Application features for a given organization

**Description**
Update the Decision Application features for a given organization

**Usage**
```
apps_put_features(slug, org, features)
```

**Arguments**
- **slug** string required. The slug for the application.
- **org** string required. Organization.
- **features** list required. App features.
Value

A list containing the following elements:

- **slug** string, The slug for the application.
- **id** integer, The unique id of the application.
- **instanceName** string, A word that describes an instance of this app.
- **name** string, The name of the application.
- **currentRelease** list, A list containing the following elements:
  - **id** integer, The unique id of the release.
  - **appId** integer, The id of the app the release belongs to.
  - **reportTemplateId** integer, ID of the report template for this release.
  - **resources** object, A hash of resources associated with this release.
  - **archived** string, The archival status of the requested item(s).
- **features** list, App features.

---

**apps_put_instances_archive**

*Update the archive status of this object*

---

**Description**

Update the archive status of this object

**Usage**

```
apps_put_instances_archive(id, slug, status)
```

**Arguments**

- **id** integer required. The ID of the object.
- **slug** string required. The slug for the application.
- **status** boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id** integer, The unique id of the instance.
- **name** string, The name of the instance.
- **appReleaseId** integer, The id of the app release the instance belongs to.
- **reportId** integer, The id of the report the instance belongs to.
- **createdAt** string, The time the instance was created at.
- **user** list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

projectId integer, The id of the project collecting all the items that belong to this app instance.

authCodeUrl string,
apiKey string, A Civis API key that can be used by this app instance.
archived string, The archival status of the requested item(s).

---

**apps_put_instances_projects**

*Add an App Instance to a project*

**Description**

Add an App Instance to a project

**Usage**

```python
apps_put_instances_projects(id, project_id, slug)
```

**Arguments**

- **id** integer required. The ID of the App Instance.
- **project_id** integer required. The ID of the project.
- **slug** string required. The slug for the application.

**Value**

An empty HTTP response
apps_put_instances_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

apps_put_instances_shares_groups(
    slug,
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

slug    string required. The slug for the application.
id      integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level    string required. Options are: "read", "write", or "manage".
share_email_body    string optional. Custom body text for e-mail sent on a share.
send_shared_email    boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers    list, A list containing the following elements:
* users array,
* groups array,

writers    list, A list containing the following elements:
* users array,
* groups array,

owners    list, A list containing the following elements:
* users array,
* groups array,
totalUserShares
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**apps_put_instances_shares_users**

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```python
apps_put_instances_shares_users(
    slug,
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **slug** string required. The slug for the application.
- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - **users** array,
  - **groups** array,

- **writers** list, A list containing the following elements:
apps_put_releases_archive

Update the archive status of this object

**Description**
Update the archive status of this object

**Usage**

`apps_put_releases_archive(id, slug, status)`

**Arguments**

- **id** integer required. The ID of the object.
- **slug** string required. The slug for the application.
- **status** boolean required. The desired archived status of the object.

**Value**
A list containing the following elements:

- **id** integer, The unique id of the release.
- **appId** integer, The id of the app the release belongs to.
- **reportTemplateId** integer, ID of the report template for this release.
- **resources** list, A hash of resources associated with this release.
- **archived** string, The archival status of the requested item(s).
Set the permissions groups has on this object

**Usage**

`apps_put_releases_shares_groups(
    slug,
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **slug**  
  string required. The slug for the application.
- **id**  
  integer required. The ID of the resource that is shared.
- **group_ids**  
  array required. An array of one or more group IDs.
- **permission_level**  
  string required. Options are: "read", "write", or "manage".
- **share_email_body**  
  string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**  
  boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers**  
  list, A list containing the following elements:
  - users array,
  - groups array,

- **writers**  
  list, A list containing the following elements:
  - users array,
  - groups array,

- **owners**  
  list, A list containing the following elements:
  - users array,
  - groups array,
totalUserShares
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

description
Set the permissions users have on this object

Usage
apps_put_releases Shares users
Set the permissions users have on this object

Usage
apps_put_releases Shares users(
slug,
id,
user_ids,
permission_level,
share_email_body = NULL,
send_shared_email = NULL
)

Arguments
slug string required. The slug for the application.
id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
**Description**

`await` repeatedly calls a Civis API endpoint such as `scripts_get_sql_runs` that monitors the status of a script, job, import, or model. It blocks until the function returns a result with a successful or error status. If the script, job, import or model results in an error state, `await` throws an error with useful debugging information.

`await_all` is a vectorized version of `await`. It repeatedly calls a Civis API endpoint for all values of a vector, e.g. a vector of script, job, import, run, or model ids. It blocks until all calls have returned a result with a given status, and silently captures jobs that return errors.

**Usage**

```r
await(
  f,
  ...,
  .status_key = "state",
  .success_states = c("succeeded", "success"),
  .error_states = c("failed", "cancelled"),
  .timeout = NULL,
  .interval = getOption("civis.default.polling.interval"),
  .verbose = FALSE
)

await_all(
  f,
  .x,
  .y = NULL,
  ...,
  .status_key = "state",
  .success_states = c("succeeded", "success"),
.error_states = c("failed", "cancelled"),
.timeout = NULL,
.interval = NULL,
.verbose = FALSE)
)

Arguments

f function to be called repeatedly until a status is reached.
...
arguments to f
.status_key The name of the element of the list returned by f containing the status. For most Civis API endpoints, this is the default, "state".

.success_states list of states indicating remote work has completed successfully. For most Civis API endpoints, this set of states is the default, c("succeeded", "success").

.error_states list of states indicating remote work is in an error state. For most Civis API endpoints, this set of states is the default, c("failed", "cancelled").

.timeout Number of seconds after which to timeout.
.interval The interval for retries (in seconds). If NULL (default), use exponentially increasing intervals with jitter (see 'Details')
.verbose Print the status of f at a given retry with the retry time (default FALSE)
.x a vector of values to be passed to f
.y a vector of values to be passed to f (default NULL)

Details

await and await_all can wrap Civis API endpoints in generated_client.R. The default values for .status_key, .success_states, and .error_states are suitable for most endpoints. The final status of f can be obtained using get_status.

If an error state is reached, await throws a civisAwaitError. await_all silently captures and returns a civisAwaitError for any job reaching an error state as an element in the list of results.

If .timeout is specified and the job fails to reach a success state within the time limit, await throws a civisTimeoutError. Likewise, await_all throws a civisTimeoutError if all jobs fail to reach a success state within the time limit.

These errors can be caught using try or tryCatch. Useful debugging information can be returned using get_error and fetch_logs.

The set of possible states for jobs on Civis platform are: "succeeded", "success", "failed", "queued", "running", and "cancelled".

Unless .interval is specified, retries are attempted with exponentially increasing intervals using \.25 * (1.2^i) + runif(1, 0, .2), where i is the index of the current retry. Approximate intervals for a given number of retries are as follows:

- 1-5: .5s
- 6-10: 1-5s
- 11-19: 5-10s
The polling interval can be set to a fixed value globally with `options("civis.default_polling_interval" = INTERVAL_IN_SECONDS)

Functions

- **await_all**: Call a function repeatedly for all values of a vector until all have reached a completed status

### Examples

```r
## Not run:

# Executing a query
q_id <- queries_post(db_id, query, n_rows, cred_id)["id"]
r <- await(queries_get, id = q_id)
get_status(r)

r <- tryCatch(await(queries_get, id = q_id), error = function(e) e)
get_error(r)

r <- try(await(queries_get, id = q_id))
get_error(r)

jobs <- c(1234, 5678)
runs <- c(1234, 5678)
rs <- await_all(scripts_get_r_runs, .x = jobs, .y = runs)

## End(Not run)
```

### cancel

**cancel**

*Cancel the evaluation of a CivisFuture.*

**Description**

Cancel the evaluation of a CivisFuture.

**Usage**

```r
cancel(future, ...)
```

**Arguments**

- `future` CivisFuture object.
- `...` unused for CivisFuture.
CivisFuture  
*Evaluate an expression in Civis Platform*

**Description**
Evaluate an expression in Civis Platform

**Usage**

```r
CivisFuture(
  expr = NULL,
  envir = parent.frame(),
  substitute = FALSE,
  globals = TRUE,
  packages = NULL,
  lazy = FALSE,
  local = TRUE,
  gc = FALSE,
  earlySignal = FALSE,
  label = NULL,
  required_resources = list(cpu = 1024, memory = 2048, diskSpace = 4),
  docker_image_name = "civisanalytics/datascience-r",
  docker_image_tag = "3",
  ...
)
```

## S3 method for class 'CivisFuture'
run(future, ...)

## S3 method for class 'CivisFuture'
result(future, ...)

## S3 method for class 'CivisFuture'
cancel(future, ...)

## S3 method for class 'CivisFuture'
resolved(future, ...)

## S3 method for class 'CivisFuture'
fetch_logs(object, ...)

**Arguments**

- **expr**: An *R* expression.
- **envir**: The *environment* from where global objects should be identified.
- **substitute**: If TRUE, argument `expr` is `substitute()`ed, otherwise not.
globals (optional) a logical, a character vector, or a named list to control how globals are handled. For details, see section 'Globals used by future expressions' in the help for `future()`.

packages (optional) a character vector specifying packages to be attached in the R environment evaluating the future.

lazy If FALSE (default), the future is resolved eagerly (starting immediately), otherwise not.

local If TRUE, the expression is evaluated such that all assignments are done to local temporary environment, otherwise the assignments are done to the global environment of the R process evaluating the future.

gc If TRUE, the garbage collector run (in the process that evaluated the future) only after the value of the future is collected. Exactly when the values are collected may depend on various factors such as number of free workers and whether `earlySignal` is TRUE (more frequently) or FALSE (less frequently). Some types of futures ignore this argument.

earlySignal Specified whether conditions should be signaled as soon as possible or not.

label An optional character string label attached to the future.

required_resources resources, see `scripts_post_containers`

docker_image_name the image for the container script.

docker_image_tag the tag for the Docker image.

... arguments to `scripts_post_containers`

future CivisFuture object.

object CivisFuture

Value

A CivisFuture inheriting from `Future` that evaluates `expr` on the given container.

Methods (by generic)

- `run`: Run a CivisFuture
- `result`: Return the value of a CivisFuture
- `cancel`: Cancel a CivisFuture
- `resolved`: Check if a CivisFuture has resolved
- `fetch_logs`: Fetch logs from a CivisFuture
**civis_file**  
*A file in the Civis Platform*

**Description**

Use `civis_file` to use a file in the Civis Platform with `civis_ml`.

**Usage**

`civis_file(file_id)`

**Arguments**

- `file_id` The id of a Civis file.

**Value**

A `civis_file`.

---

**civis_file_manifest**  
*A manifest file in the Civis Platform*

**Description**

Use `civis_file_manifest` to use a manifest file in the Civis Platform with `civis_ml`.

**Usage**

`civis_file_manifest(file_id)`

**Arguments**

- `file_id` The id of a Civis file.

**Value**

A `civis_file_manifest`
civis_ml

Interface for modeling in the Civis Platform

Description

An interface for training and scoring data on Civis Platform using a set of Scikit-Learn estimators.

Usage

civis_ml(
  x,
  dependent_variable,
  model_type,
  primary_key = NULL,
  excluded_columns = NULL,
  parameters = NULL,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  calibration = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  validation_data = c("train", "skip"),
  n_jobs = NULL,
  verbose = FALSE,
  civisml_version = "prod"
)

civis_ml_fetch_existing(model_id, run_id = NULL)

# S3 method for class 'civis_ml'
predict(
  object,
  newdata,
  primary_key = NA,
  output_table = NULL,
  output_db = NULL,
  if_output_exists = c("fail", "append", "drop", "truncate"),
  n_jobs = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  }
Arguments

x, newdata

See the Data Sources section below.

dependent_variable

The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.

model_type

The name of the CivisML workflow. See the Workflows section below.

primary_key

Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In predict.civis_ml, the primary_key of the training task is used by default primary_key = NA. Use primary_key = NULL to explicitly indicate the data have no primary_key.

excluded_columns

Optional, a vector of columns which will be considered ineligible to be independent variables.

parameters

Optional, parameters for the final stage estimator in a predefined model, e.g. list(C = 2) for a "sparse_logistic" model.

fit_params

Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

cross_validation_parameters

Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100,200,500),learning_rate = c(0.01,0.1),max_depth = c(2,3)) or "hyperband" for supported models.

calibration

Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.

oos_scores_table

Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

oos_scores_db

Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

oos_scores_if_exists

Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

model_name

Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

cpu_requested

Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.
memory_requested
Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.
disk_requested
Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.
notifications
Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.
polling_interval
Check for job completion every this number of seconds.
validation_data
Optional, source for validation data. There are currently two options: train (the default), which uses training data for validation, and skip, which skips the validation step.
n_jobs
Number of concurrent Platform jobs to use for training and validation, or multi-file / large table prediction. Defaults to NULL, which allows CivisML to dynamically calculate an appropriate number of workers to use (in general, as many as possible without using all resources in the cluster).
verbose
Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.
civisml_version
Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production
model_id
The id of CivisML model built previously.
run_id
Optional, the id of a CivisML model run. If NULL, defaults to fetching the latest run.
object
A civis_ml object.
output_table
The table in which to put predictions.
output_db
The database containing output_table. If not provided, this will default to the database_name specified when the model was built.
if_output_exists
Action to take if the prediction table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".
dvs_to_predict
Optional, For scoring, this should be a vector of column names of dependent variables to include in the output table. It must be a subset of the dependent_variable vector provided for training. The scores for the returned subset will be identical to the scores which those outputs would have had if all outputs were written, but ignoring some of the model's outputs will let predictions complete faster and use less disk space. If not provided, the entire model output will be written to the output table.

Value
A civis_ml object, a list containing the following elements:
CivisML Workflows

You can use the following pre-defined models with `civis_ml`. All models start by imputing missing values with the mean of non-null values in a column. The "sparse_*" models include a LASSO regression step (using `glmnet`) to do feature selection before passing data to the final model. In some models, CivisML uses default parameters from those in Scikit-Learn, as indicated in the "Altered Defaults" column. All models also have `random_state=42`.

Specific workflows can also be called directly using the R workflow functions.

<table>
<thead>
<tr>
<th>Name</th>
<th>R Workflow</th>
<th>Model Type</th>
<th>Algorithm</th>
<th>Altered Defaults</th>
</tr>
</thead>
<tbody>
<tr>
<td>sparse_logistic</td>
<td><code>civis_ml_sparse_logistic</code></td>
<td>classification</td>
<td>LogisticRegression</td>
<td></td>
</tr>
<tr>
<td>gradient_boosting_classifier</td>
<td><code>civis_ml_gradient_boosting_classifier</code></td>
<td>classification</td>
<td>GradientBoosting</td>
<td>C=499999950, tol=1e-08</td>
</tr>
<tr>
<td>random_forest_classifier</td>
<td><code>civis_ml_random_forest_classifier</code></td>
<td>classification</td>
<td>RandomForest</td>
<td></td>
</tr>
<tr>
<td>extra_trees_classifier</td>
<td><code>civis_ml_extra_trees_classifier</code></td>
<td>classification</td>
<td>ExtraTrees</td>
<td></td>
</tr>
<tr>
<td>multilayer_perceptron_classifier</td>
<td><code>muffnn.MLPClassifier</code></td>
<td>classification</td>
<td>muffnn.MLP</td>
<td></td>
</tr>
<tr>
<td>stacking_classifier</td>
<td><code>StackedClassifier</code></td>
<td>classification</td>
<td>StackedRegressor</td>
<td></td>
</tr>
<tr>
<td>sparse_linear_regressor</td>
<td><code>civis_ml_sparse_linear_regressor</code></td>
<td>regression</td>
<td>LinearRegression</td>
<td></td>
</tr>
<tr>
<td>sparse_ridge_regressor</td>
<td><code>civis_ml_sparse_ridge_regressor</code></td>
<td>regression</td>
<td>Ridge</td>
<td></td>
</tr>
<tr>
<td>gradient_boosting_regressor</td>
<td><code>civis_ml_gradient_boosting_regressor</code></td>
<td>regression</td>
<td>GradientBoosting</td>
<td>n_estimators=500, max_depth=2</td>
</tr>
<tr>
<td>random_forest_regressor</td>
<td><code>civis_ml_random_forest_regressor</code></td>
<td>regression</td>
<td>RandomForest</td>
<td></td>
</tr>
<tr>
<td>extra_trees_regressor</td>
<td><code>civis_ml_extra_trees_regressor</code></td>
<td>regression</td>
<td>ExtraTrees</td>
<td></td>
</tr>
<tr>
<td>multilayer_perceptron_regressor</td>
<td><code>muffnn.MLPRegressor</code></td>
<td>regression</td>
<td>muffnn.MLP</td>
<td></td>
</tr>
<tr>
<td>stacking_regressor</td>
<td><code>StackedRegressor</code></td>
<td>regression</td>
<td>StackedRegressor</td>
<td></td>
</tr>
</tbody>
</table>
Model names can be easily accessed using the global variables CIVIS_ML_REGRESSORS and CIVIS_ML_CLASSIFIERS.

Stacking

The "stacking_classifier" model stacks together the "gradient_boosting_classifier" and "random_forest_classifier" predefined models together with a glmnet.LogitNet(alpha=0,n_splits=4,max_iter=10000,tol=1e-5,scoring=Varlog_loss/Var). Defaults for the predefined models are documented in ?civis_ml. Each column is first standardized, and then the model predictions are combined using LogisticRegressionCV with penalty='l2' and tol=1e-08. The "stacking_regressor" works similarly, stacking together the "gradient_boosting_regressor" and "random_forest_regressor" models and a glmnet.ElasticNet(alpha=0,n_splits=4,max_iter=10000,tol=1e-5,scoring=Varr2/Var), combining them using NonNegativeLinearRegression. The estimators that are being stacked have the same names as the associated pre-defined models, and the meta-estimator steps are named "meta-estimator". Note that although default parameters are provided for multilayer perceptron models, it is highly recommended that multilayer perceptrons be run using hyperband.

Hyperparameter Tuning

You can tune hyperparameters using one of two methods: grid search or hyperband. CivisML will perform grid search if you pass a list of hyperparameters to the cross_validation_parameters parameter, where list elements are hyperparameter names, and the values are vectors of hyperparameter values to grid search over. You can run hyperparameter optimization in parallel by setting the n_jobs parameter to however many jobs you would like to run in parallel. By default, n_jobs is dynamically calculated based on the resources available on your cluster, such that a modeling job will never take up more than 90 Hyperband is an efficient approach to hyperparameter optimization, and recommended over grid search where possible. CivisML will perform hyperband optimization if you pass the string "hyperband" to cross_validation_parameters. Hyperband is currently only supported for the following models: "gradient_boosting_classifier","random_forest_classifier","extra_trees_classifier"."multilayer_perceptron_classifier","stacking_classifier"."gradient_boosting_trees_classifier"."random_forest_regressor"."extra_trees_regressor"."multilayer_perceptron_regressor" and "stacking_regressor". Hyperband cannot be used to tune GLMs. For this reason, preset GLMs do not have a hyperband option. Similarly, when cross_validation_parameters='hyperband' and the model is stacking_classifier or stacking_regressor, only the GBT and random forest steps of the stacker are tuned using hyperband. For the specific distributions used in the predefined hyperband models, see the detailed table in the Python client documentation.

Data Sources

For building models with civis_ml, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a data.frame resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling civis_ml:

data.frame civis_ml(x = df,...)
local csv file civis_ml(x = "path/to/data.csv",...)
file in Civis Platform civis_ml(x = civis_file(1234))
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table",database_name = "database"))
Out of sample scores

Model outputs will always contain out-of-sample (or out of fold) scores, which are accessible through `fetch_oos_scores`. These may be stored in a Civis table on Redshift using the `oos_scores`, `oos_scores_db`, and `oos_scores_if_exists` parameters.

Predictions

A fitted model can be used to make predictions for data residing in any of the sources above and a `civis_file_manifest`. Similar to `civis_ml`, use the data source helpers as the `newdata` argument to `predict.civis_ml`.

A manifest file is a JSON file which specifies the location of many shards of the data to be used for prediction. A manifest file is the output of a Civis export job with `force_multifile = TRUE` set, e.g. from `civis_to_multifile_csv`. Large civis tables (provided using `table_name`) will automatically be exported to manifest files.

Prediction outputs will always be stored as gzipped CSVs in one or more civis files. Provide an `output_table` (and optionally an `output_db`, if it’s different from `database_name`) to copy these predictions into a table on Redshift.

See Also

`civis_file`, `civis_table`, and `civis_file_manifest` for specifying data sources. `get_metric` to access model validation metrics. `fetch_logs` for retrieving logs for a (failed) model build, `fetch_oos_scores` for retrieving the out of sample (fold) scores for each training observation, and `fetch_predictions` for retrieving the predictions from a prediction job.

Examples

```r
## Not run:
# From a data frame:
m <- civis_ml(df, model_type = "sparse_logistic",
             dependent_variable = "Species")

# From a table:
m <- civis_ml(civis_table("schema.table", "database_name"),
             model_type = "sparse_logistic", dependent_variable = "Species",
             oos_scores_table = "schema.scores_table",
             oos_scores_if_exists = "drop")

# From a local file:
m <- civis_ml("path/to/file.csv", model_type = "sparse_logistic",
              dependent_variable = "Species")

# From a Civis file:
file_id <- write_civis_file("path/to/file.csv", name = "file.csv")
m <- civis_ml(civis_file(file_id), model_type = "sparse_logistic",
              dependent_variable = "Species")
pred_job <- predict(m, newdata = df)
```
pred_job <- predict(m, civis_table("schema.table", "database_name"), output_table = "schema.scores_table")

pred_job <- predict(m, civis_file(file_id), output_table = "schema.scores_table")

m <- civis_ml_fetch_existing(model_id = m$job$id, m$run$id)
logs <- fetch_logs(m)
yhat <- fetch_oos_scores(m)
yhat <- fetch_predictions(pred_job)

## End(Not run)

CIVIS_ML_CLASSIFIERS

List of classification models.

Description

List of classification models.

Usage

CIVIS_ML_CLASSIFIERS

Format

An object of class character of length 6.


civis_ml_extra_trees_classifier

CivisML Extra Trees Classifier

Description

CivisML Extra Trees Classifier

Usage

civis_ml_extra_trees_classifier(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  n_estimators = 500,
  criterion = c("gini", "entropy"),
  max_depth = NULL,
  min_samples_split = 2,
min_samples_leaf = 1,
min_weight_fraction_leaf = 0,
max_features = "sqrt",
max_leaf_nodes = NULL,
min_impurity_split = 1e-07,
bootstrap = FALSE,
random_state = 42,
class_weight = NULL,
fit_params = NULL,
cross_validation_parameters = NULL,
calibration = NULL,
oos_scores_table = NULL,
oos_scores_db = NULL,
oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
model_name = NULL,
cpu_requested = NULL,
memory_requested = NULL,
disk_requested = NULL,
notifications = NULL,
polling_interval = NULL,
verbose = FALSE,
civisml_version = "prod"
)

Arguments
x

dependent_variable
The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.

primary_key
Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In predict.civis_ml, the primary_key of the training task is used by default primary_key = NA. Use primary_key = NULL to explicitly indicate the data have no primary_key.

excluded_columns
Optional, a vector of columns which will be considered ineligible to be independent variables.

n_estimators
The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.

criterion
The function to measure the quality of a split. Supported criteria are gini for the Gini impurity and entropy for the information gain.

max_depth
Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.

min_samples_split
The minimum number of samples required to split an internal node. If an integer, then consider min_samples_split as the minimum number. If a float,
then min_samples_split is a percentage and ceiling(min_samples_split * n_samples) are the minimum number of samples for each split.

**min_samples_leaf**
The minimum number of samples required to be in a leaf node. If an integer, then consider min_samples_leaf as the minimum number. If a float, the min_samples_leaf is a percentage and ceiling(min_samples_leaf * n_samples) are the minimum number of samples for each leaf node.

**min_weight_fraction_leaf**
The minimum weighted fraction of the sum total of weights required to be at a leaf node.

**max_features**
The number of features to consider when looking for the best split.
- integer consider max_features at each split.
- float then max_features is a percentage and max_features * n_features are considered at each split.
- auto then max_features = sqrt(n_features)
- sqrt then max_features = sqrt(n_features)
- log2 then max_features = log2(n_features)
- NULL then max_features = n_features

**max_leaf_nodes**
Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.

**min_impurity_split**
Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.

**bootstrap**
Whether bootstrap samples are used when building trees.

**random_state**
The seed of the random number generator.

**class_weight**
A list with class_label = value pairs, or balanced. When class_weight = "balanced", the class weights will be inversely proportional to the class frequencies in the input data as:

\[
\frac{n_{samples}}{n_{classes} \cdot \text{table}(y)}
\]

Note, the class weights are multiplied with sample_weight (passed via fit_params) if sample_weight is specified.

**fit_params**
Optional, a mapping from parameter names in the model's fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

**cross_validation_parameters**
Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3)) or "hyperband" for supported models.

**calibration**
Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.

**oos_scores_table**
Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".
A `civis_ml` object, a list containing the following elements:

- **job**
  - job metadata from `scripts_get_custom`.

- **run**
  - run metadata from `scripts_get_custom_runs`.

- **outputs**
  - CivisML metadata from `scripts_list_custom_runs_outputs` containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.

- **metrics**
  - Parsed CivisML output from `metrics.json` containing metadata from validation. A list containing the following elements:
    - run list, metadata about the run.
    - data list, metadata about the training data.
    - model list, the fitted scikit-learn model with CV results.
    - metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
    - warnings list.
    - data_platform list, training data location.

- **model_info**
  - Parsed CivisML output from `model_info.json` containing metadata from training. A list containing the following elements:
    - run list, metadata about the run.
**civis_ml_extra_trees_classifier**

- data list, metadata about the training data.
- model list, the fitted scikit-learn model.
- metrics empty list.
- warnings list.
- data_platform list, training data location.

**Data Sources**

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

- `data.frame` `civis_ml(x = df,...)`
- `local csv file` `civis_ml(x = "path/to/data.csv",...)`
- `file in Civis Platform` `civis_ml(x = civis_file(1234))`
- `table in Civis Platform` `civis_ml(x = civis_table(table_name = "schema.table",database_name = "database"))`

**Examples**

```r
## Not run:
df <- iris	names(df) <- gsub("\", ",", names(df))

m <- civis_ml_extra_trees_classifier(df,
  dependent_variable = "Species",
  n_estimators = 100,
  max_depth = 5,
  max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  max_depth = c(2, 3))

m <- civis_ml_extra_trees_classifier(df,
  dependent_variable = "Species",
  max_features = NULL,
  cross_validation_parameters = cv_params)
pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```
**CivisML Extra Trees Regressor**

**Description**

CivisML Extra Trees Regressor

**Usage**

```r
civis_ml_extra_trees_regressor(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  n_estimators = 500,
  criterion = c("mse", "mae"),
  max_depth = NULL,
  min_samples_split = 2,
  min_samples_leaf = 1,
  min_weight_fraction_leaf = 0,
  max_features = "sqrt",
  max_leaf_nodes = NULL,
  min_impurity_split = 1e-07,
  bootstrap = FALSE,
  random_state = 42,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  verbose = FALSE,
  civisml_version = "prod"
)
```

**Arguments**

- `x` See the Data Sources section below.
- `dependent_variable` The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
primary_key  Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In predict.civis_ml, the primary_key of the training task is used by default primary_key = NA. Use primary_key = NULL to explicitly indicate the data have no primary_key.

excluded_columns  Optional, a vector of columns which will be considered ineligible to be independent variables.

n_estimators  The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.

criterion  The function used to measure the quality of a split. Supported criteria are mse for the mean squared error, and mae for the mean absolute error.

max_depth  Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.

min_samples_split  The minimum number of samples required to split an internal node. If an integer, then consider min_samples_split as the minimum number. If a float, then min_samples_split is a percentage and ceiling(min_samples_split * n_samples) are the minimum number of samples for each split.

min_samples_leaf  The minimum number of samples required to be in a leaf node. If an integer, then consider min_samples_leaf as the minimum number. If a float, the min_samples_leaf is a percentage and ceiling(min_samples_leaf * n_samples) are the minimum number of samples for each leaf node.

min_weight_fraction_leaf  The minimum weighted fraction of the sum total of weights required to be at a leaf node.

max_features  The number of features to consider when looking for the best split.

integer  consider max_features at each split.

float  then max_features is a percentage and max_features * n_features are considered at each split.

auto  then max_features = sqrt(n_features)

sqrt  then max_features = sqrt(n_features)

log2  then max_features = log2(n_features)

NULL  then max_features = n_features

max_leaf_nodes  Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.

min_impurity_split  Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.

bootstrap  Whether bootstrap samples are used when building trees.

random_state  The seed of the random number generator.

fit_params  Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').
cross_validation_parameters
  Optional, parameter grid for learner parameters, e.g. list(n_estimators =
c(100,200,500),learning_rate = c(0.01,0.1),max_depth = c(2,3)) or "hyperband"
for supported models.

oos_scores_table
  Optional, if provided, store out-of-sample predictions on training set data to this
Redshift "schema.tablename".

oos_scores_db
  Optional, the name of the database where the oos_scores_table will be cre-
ated. If not provided, this will default to database_name.

oos_scores_if_exists
  Optional, action to take if oos_scores_table already exists. One of "fail",
"append", "drop", or "truncate". The default is "fail".

model_name
  Optional, the prefix of the Platform modeling jobs. It will have "Train" or "
Predict" added to become the Script title.

cpu_requested
  Optional, the number of CPU shares requested in the Civis Platform for training
jobs or prediction child jobs. 1024 shares = 1 CPU.

memory_requested
  Optional, the memory requested from Civis Platform for training jobs or predic-
tion child jobs, in MiB.

disk_requested
  Optional, the disk space requested on Civis Platform for training jobs or predic-
tion child jobs, in GB.

notifications
  Optional, model status notifications. See scripts_post_custom for further
documentation about email and URL notification.

polling_interval
  Check for job completion every this number of seconds.

verbose
  Optional, If TRUE, supply debug outputs in Platform logs and make prediction
child jobs visible.

civisml_version
  Optional, a one-length character vector of the CivisML version. The default is
"prod", the latest version in production

Value
  A civis_ml object, a list containing the following elements:

job
  job metadata from scripts_get_custom.

run
  run metadata from scripts_get_custom_runs.

outputs
  CivisML metadata from scripts_list_custom_runs_outputs containing the
locations of files produced by CivisML e.g. files, projects, metrics, model_info,
logs, predictions, and estimators.

metrics
  Parsed CivisML output from metrics.json containing metadata from valida-
tion. A list containing the following elements:
  • run list, metadata about the run.
  • data list, metadata about the training data.
  • model list, the fitted scikit-learn model with CV results.
• metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
• warnings list.
• data_platform list, training data location.

**model_info**

Parsed CivisML output from model_info.json containing metadata from training. A list containing the following elements:
• run list, metadata about the run.
• data list, metadata about the training data.
• model list, the fitted scikit-learn model.
• metrics empty list.
• warnings list.
• data_platform list, training data location.

**Data Sources**

For building models with civis_ml, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a data.frame resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling civis_ml:

- `data.frame` civis_ml(x = df,...)
- `local csv file` civis_ml(x = "path/to/data.csv",...)
- `file in Civis Platform` civis_ml(x = civis_file(1234))
- `table in Civis Platform` civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))

**Examples**

```r
## Not run:
data(ChickWeight)
m <- civis_ml_extra_trees_regressor(ChickWeight,
dependent_variable = "weight",
n_estimators = 100,
max_depth = 5,
max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
n_estimators = c(100, 200, 500),
max_depth = c(2, 3))
m <- civis_ml_extra_trees_regressor(ChickWeight,
dependent_variable = "weight",
max_features = NULL,
cross_validation_parameters = cv_params)
pred_info <- predict(m, civis_table("schema.table", "my_database"),
```

```r
data.frame civis_ml(x = df,...)
local csv file civis_ml(x = "path/to/data.csv",...)
file in Civis Platform civis_ml(x = civis_file(1234))
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table", database_name = "database"))
```

```r
## Not run:
data(ChickWeight)
m <- civis_ml_extra_trees_regressor(ChickWeight,
dependent_variable = "weight",
n_estimators = 100,
max_depth = 5,
max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
n_estimators = c(100, 200, 500),
max_depth = c(2, 3))
m <- civis_ml_extra_trees_regressor(ChickWeight,
dependent_variable = "weight",
max_features = NULL,
cross_validation_parameters = cv_params)
pred_info <- predict(m, civis_table("schema.table", "my_database"),
```
civis_ml_gradient_boosting_classifier

CivisML Gradient Boosting Classifier

Description

CivisML Gradient Boosting Classifier

Usage

civis_ml_gradient_boosting_classifier(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  loss = c("deviance", "exponential"),
  learning_rate = 0.1,
  n_estimators = 500,
  subsample = 1,
  criterion = c("friedman_mse", "mse", "mae"),
  min_samples_split = 2,
  min_samples_leaf = 1,
  min_weight_fraction_leaf = 0,
  max_depth = 2,
  min_impurity_split = 1e-07,
  random_state = 42,
  max_features = "sqrt",
  max_leaf_nodes = NULL,
  presort = c("auto", TRUE, FALSE),
  fit_params = NULL,
  cross_validation_parameters = NULL,
  calibration = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  diskRequested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  verbose = FALSE,
  civisml_version = "prod"
)
Arguments

- **x**: See the Data Sources section below.
- **dependent_variable**: The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
- **primary_key**: Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In predict.civis_ml, the primary_key of the training task is used by default primary_key = NA. Use primary_key = NULL to explicitly indicate the data have no primary_key.
- **excluded_columns**: Optional, a vector of columns which will be considered ineligible to be independent variables.
- **loss**: The loss function to be optimized. deviance refers to deviance (logistic regression) for classification with probabilistic outputs. For exponential, gradient boosting recovers the AdaBoost algorithm.
- **learning_rate**: The learning rate shrinks the contribution of each tree by learning_rate. There is a trade-off between learning_rate and n_estimators.
- **n_estimators**: The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.
- **subsample**: The fraction of samples to be used for fitting individual base learners. If smaller than 1.0, this results in Stochastic Gradient Boosting. subsample interacts with the parameter n_estimators. Choosing subsample < 1.0 leads to a reduction of variance and an increase in bias.
- **criterion**: The function to measure the quality of a split. The default value criterion = "friedman_mse" is generally the best as it can provide a better approximation in some cases.
- **min_samples_split**: The minimum number of samples required to split an internal node. If an integer, then consider min_samples_split as the minimum number. If a float, then min_samples_split is a percentage and ceiling(min_samples_split * n_samples) are the minimum number of samples for each split.
- **min_samples_leaf**: The minimum number of samples required to be in a leaf node. If an integer, then consider min_samples_leaf as the minimum number. If a float, the min_samples_leaf is a percentage and ceiling(min_samples_leaf * n_samples) are the minimum number of samples for each leaf node.
- **min_weight_fraction_leaf**: The minimum weighted fraction of the sum total of weights required to be at a leaf node.
- **max_depth**: Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.
- **min_impurity_split**: Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.
random_state
The seed of the random number generator.

max_features
The number of features to consider when looking for the best split.

- **integer** consider max_features at each split.
- **float** then max_features is a percentage and max_features \* n_features are considered at each split.
- **auto** then max_features = \sqrt{n\_features}
- **sqrt** then max_features = \sqrt{n\_features}
- **log2** then max_features = \log_2(n\_features)
- **NULL** then max_features = n_features

max_leaf_nodes
Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.

presort
Whether to presort the data to speed up the finding of best splits in fitting.

fit_params
Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

cross_validation_parameters
Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100,200,500),learning_rate = c(0.01,0.1),max_depth = c(2,3)) or "hyperband" for supported models.

calibration
Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.

oos_scores_table
Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

oos_scores_db
Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

oos_scores_if_exists
Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

model_name
Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

cpu_requested
Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

memory_requested
Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

disk_requested
Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

notifications
Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.

polling_interval
Check for job completion every this number of seconds.

verbose
Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.
Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

Value

A **civis_ml** object, a list containing the following elements:

- **job**
  - job metadata from `scripts_get_custom`.
- **run**
  - run metadata from `scripts_get_custom_runs`.
- **outputs**
  - CivisML metadata from `scripts_list_custom_runs_outputs` containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
- **metrics**
  - Parsed CivisML output from `metrics.json` containing metadata from validation. A list containing the following elements:
    - run list, metadata about the run.
    - data list, metadata about the training data.
    - model list, the fitted scikit-learn model with CV results.
    - metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
    - warnings list.
    - data_platform list, training data location.
- **model_info**
  - Parsed CivisML output from `model_info.json` containing metadata from training. A list containing the following elements:
    - run list, metadata about the run.
    - data list, metadata about the training data.
    - model list, the fitted scikit-learn model.
    - metrics empty list.
    - warnings list.
    - data_platform list, training data location.

Data Sources

For building models with **civis_ml**, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a data.frame resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling **civis_ml**:

- **data.frame** `civis_ml(x = df,...)`
- **local csv file** `civis_ml(x = "path/to/data.csv",...)`
- **file in Civis Platform** `civis_ml(x = civis_file(1234))`
- **table in Civis Platform** `civis_ml(x = civis_table(table_name = "schema.table",database_name = "database"))`
Examples

```r
## Not run:
df <- iris
names(df) <- gsub("\", ",", names(df))

m <- civis_ml_gradient_boosting_regressor(df,
    dependent_variable = "Species",
    learning_rate = .01,
    n_estimators = 100,
    subsample = .5,
    max_depth = 5,
    max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
    n_estimators = c(100, 200, 500),
    learning_rate = c(.01, .1),
    max_depth = c(2, 3))

m <- civis_ml_gradient_boosting_regressor(df,
    dependent_variable = "Species",
    subsample = .5,
    max_features = NULL,
    cross_validation_parameters = cv_params)
pred_info <- predict(m, civis_table("schema.table", "my_database"),
    output_table = "schema.scores_table")
## End(Not run)
```

civis_ml_gradient_boosting_regressor

*CivisML Gradient Boosting Regressor*

Description

CivisML Gradient Boosting Regressor

Usage

civis_ml_gradient_boosting_regressor(
    x,
    dependent_variable,
    primary_key = NULL,
    excluded_columns = NULL,
    loss = c("ls", "lad", "huber", "quantile"),
    learning_rate = 0.1,
    n_estimators = 500,
civis_ml_gradient_boosting_regressor

```r
subsample = 1,
criterion = c("friedman_mse", "mse", "mae"),
min_samples_split = 2,
min_samples_leaf = 1,
min_weight_fraction_leaf = 0,
max_depth = 2,
min_impurity_split = 1e-07,
random_state = 42,
max_features = "sqrt",
alpha = 0.9,
max_leaf_nodes = NULL,
presort = c("auto", TRUE, FALSE),
fit_params = NULL,
cross_validation_parameters = NULL,
oos_scores_table = NULL,
oos_scores_db = NULL,
oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
model_name = NULL,
cpu_requested = NULL,
memory_requested = NULL,
disk_requested = NULL,
notifications = NULL,
polling_interval = NULL,
verbose = FALSE,
civisml_version = "prod"
)
```

**Arguments**

**x**

See the Data Sources section below.

**dependent_variable**

The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.

**primary_key**

Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In predict.civis_ml, the primary_key of the training task is used by default primary_key = NA. Use primary_key = NULL to explicitly indicate the data have no primary_key.

**excluded_columns**

Optional, a vector of columns which will be considered ineligible to be independent variables.

**loss**

The loss function to be optimized. ls refers to least squares regression. lad (least absolute deviation) is a highly robust loss function solely based on order information of the input variables. huber is a combination of the two. quantile allows quantile regression (use alpha to specify the quantile).

**learning_rate**

The learning rate shrinks the contribution of each tree by learning_rate. There is a trade-off between learning_rate and n_estimators.
n_estimators  The number of boosting stages to perform. Gradient boosting is fairly robust to
over-fitting, so a large number usually results in better predictive performance.

subsample  The fraction of samples to be used for fitting individual base learners. If smaller
than 1.0, this results in Stochastic Gradient Boosting. subsample interacts with
the parameter n_estimators. Choosing subsample < 1.0 leads to a reduction
of variance and an increase in bias.

criterion  The function to measure the quality of a split. The default value criterion =
"friedman_mse" is generally the best as it can provide a better approximation in
some cases.

min_samples_split  The minimum number of samples required to split an internal node. If an in-
teger, then consider min_samples_split as the minimum number. If a float,
then min_samples_split is a percentage and ceiling(min_samples_split *
n_samples) are the minimum number of samples for each split.

min_samples_leaf  The minimum number of samples required to be in a leaf node. If an inte-
ger, then consider min_samples_leaf as the minimum number. If a float, the
min_samples_leaf is a percentage and ceiling(min_samples_leaf * n_samples) are the minimum number of samples for each leaf node.

min_weight_fraction_leaf  The minimum weighted fraction of the sum total of weights required to be at a
leaf node.

max_depth  Maximum depth of the individual regression estimators. The maximum depth
limits the number of nodes in the tree. Tune this parameter for best performance.
The best value depends on the interaction of the input variables.

min_impurity_split  Threshold for early stopping in tree growth. A node will split if its impurity is
above the threshold, otherwise it is a leaf.

random_state  The seed of the random number generator.

max_features  The number of features to consider when looking for the best split.

integer  consider max_features at each split.

float  then max_features is a percentage and max_features * n_features are
considered at each split.

auto  then max_features = sqrt(n_features)

sqrt  then max_features = sqrt(n_features)

log2  then max_features = log2(n_features)

NULL  then max_features = n_features

alpha  The alpha-quantile of the huber loss function and the quantile loss function.
Ignored unless loss = "huber" or loss = "quantile"

max_leaf_nodes  Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as
relative reduction to impurity. If max_leaf_nodes = NULL then unlimited num-
er of leaf nodes.

presort  Whether to presort the data to speed up the finding of best splits in fitting.

fit_params  Optional, a mapping from parameter names in the model’s fit method to the
column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').
**cross_validation_parameters**

Optional, parameter grid for learner parameters, e.g. `list(n_estimators = c(100,200,500), learning_rate = c(0.01,0.1), max_depth = c(2,3))` or "hyperband" for supported models.

**oos_scores_table**

Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

**oos_scores_db**

Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

**oos_scores_if_exists**

Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

**model_name**

Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

**cpu_requested**

Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

**memory_requested**

Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

**disk_requested**

Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GiB.

**notifications**

Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.

**polling_interval**

Check for job completion every this number of seconds.

**verbose**

Optional, if TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

**civisml_version**

Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

---

**Value**

A civis_ml object, a list containing the following elements:

- **job**
  
  job metadata from scripts_get_custom.

- **run**
  
  run metadata from scripts_get_custom_runs.

- **outputs**
  
  CivisML metadata from scripts_list_custom_runs_outputs containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.

- **metrics**
  
  Parsed CivisML output from metrics.json containing metadata from validation. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model with CV results.
civis_ml_gradient_boostingRegressor

- metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
- warnings list.
- data_platform list, training data location.

**model_info**

Parsed CivisML output from model_info.json containing metadata from training. A list containing the following elements:

- run list, metadata about the run.
- data list, metadata about the training data.
- model list, the fitted scikit-learn model.
- metrics empty list.
- warnings list.
- data_platform list, training data location.

**Data Sources**

For building models with civis_ml, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a data.frame resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling civis_ml:

- `data.frame` civis_ml(x = df,...)
- `local csv file` civis_ml(x = "path/to/data.csv",...)
- `file in Civis Platform` civis_ml(x = civis_file(1234))
- `table in Civis Platform` civis_ml(x = civis_table(table_name = "schema.table",database_name = "database"))

**Examples**

```r
## Not run:
data(ChickWeight)

m <- civis_ml_gradient_boostingRegressor(ChickWeight, 
dependent_variable = "weight", 
learning_rate = .01, 
n_estimators = 100, 
subsample = .5, 
max_depth = 5, 
max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list( 
  n_estimators = c(100, 200, 500), 
  learning_rate = c(.01, .1), 
  max_depth = c(2, 3))

m <- civis_ml_gradient_boostingRegressor(ChickWeight, 
dependent_variable = "weight", 
subsample = .5,
```
civis_ml_random_forest_classifier

CivisML Random Forest Classifier

Description

CivisML Random Forest Classifier

Usage

civis_ml_random_forest_classifier(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  n_estimators = 500,
  criterion = c("gini", "entropy"),
  max_depth = NULL,
  min_samples_split = 2,
  min_samples_leaf = 1,
  min_weight_fraction_leaf = 0,
  max_features = "sqrt",
  max_leaf_nodes = NULL,
  min_impurity_split = 1e-07,
  bootstrap = TRUE,
  random_state = 42,
  class_weight = NULL,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  calibration = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
civis_ml_random_forest_classifier

verbose = FALSE,
civisml_version = "prod"
)

Arguments

x
    See the Data Sources section below.
dependent_variable
    The dependent variable of the training dataset. For a multi-target problem, this
    should be a vector of column names of dependent variables. Nulls in a single
    dependent variable will automatically be dropped.
primary_key
    Optional, the unique ID (primary key) of the training dataset. This will be used
    to index the out-of-sample scores. In predict.civis_ml, the primary_key of
    the training task is used by default primary_key = NA. Use primary_key = NULL
    to explicitly indicate the data have no primary_key.
excluded_columns
    Optional, a vector of columns which will be considered ineligible to be indepen-
    dent variables.
n_estimators
    The number of boosting stages to perform. Gradient boosting is fairly robust to
    over-fitting, so a large number usually results in better predictive performance.
criterion
    The function to measure the quality of a split. Supported criteria are gini for
    the Gini impurity and entropy for the information gain.
max_depth
    Maximum depth of the individual regression estimators. The maximum depth
    limits the number of nodes in the tree. Tune this parameter for best performance.
    The best value depends on the interaction of the input variables.
min_samples_split
    The minimum number of samples required to split an internal node. If an in-
    teger, then consider min_samples_split as the minimum number. If a float, then
    min_samples_split is a percentage and ceiling(min_samples_split * 
n_samples) are the minimum number of samples for each split.
min_samples_leaf
    The minimum number of samples required to be in a leaf node. If an inte-
    ger, then consider min_samples_leaf as the minimum number. If a float, the
    min_samples_leaf is a percentage and ceiling(min_samples_leaf * 
n_samples) are the minimum number of samples for each leaf node.
min_weight_fraction_leaf
    The minimum weighted fraction of the sum total of weights required to be at a
    leaf node.
max_features
    The number of features to consider when looking for the best split.
    integer consider max_features at each split.
    float then max_features is a percentage and max_features * n_features are
    considered at each split.
    auto then max_features = sqrt(n_features)
    sqrt then max_features = sqrt(n_features)
    log2 then max_features = log2(n_features)
civis_ml_random_forest_classifier

**NULL** then max_features = n_features

**max_leaf_nodes** Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.

**min_impurity_split** Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.

**bootstrap** Whether bootstrap samples are used when building trees.

**random_state** The seed of the random number generator.

**class_weight** A list with class_label = value pairs, or balanced. When class_weight = "balanced", the class weights will be inversely proportional to the class frequencies in the input data as:

\[
\frac{n_{\text{samples}}}{n_{\text{classes}} \cdot \text{table}(y)}
\]

Note, the class weights are multiplied with sample_weight (passed via fit_params) if sample_weight is specified.

**fit_params** Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

**cross_validation_parameters** Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100,200,500),learning_rate = c(0.01,0.1),max_depth = c(2,3)) or "hyperband" for supported models.

**calibration** Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.

**oos_scores_table** Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

**oos_scores_db** Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

**oos_scores_if_exists** Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

**model_name** Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

**cpu_requested** Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

**memory_requested** Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

**disk_requested** Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

**notifications** Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.
polling_interval
Check for job completion every this number of seconds.

verbose
Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

civisml_version
Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

Value
A civis_ml object, a list containing the following elements:

job
job metadata from scripts_get_custom.

run
run metadata from scripts_get_custom_runs.

outputs
CivisML metadata from scripts_list_custom_runs_outputs containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.

metrics
Parsed CivisML output from metrics.json containing metadata from validation. A list containing the following elements:
• run list, metadata about the run.
• data list, metadata about the training data.
• model list, the fitted scikit-learn model with CV results.
• metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
• warnings list.
• data_platform list, training data location.

model_info
Parsed CivisML output from model_info.json containing metadata from training. A list containing the following elements:
• run list, metadata about the run.
• data list, metadata about the training data.
• model list, the fitted scikit-learn model.
• metrics empty list.
• warnings list.
• data_platform list, training data location.

Data Sources
For building models with civis_ml, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a data.frame resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling civis_ml:

data.frame civis_ml(x = df,...)
local csv file civis_ml(x = "path/to/data.csv",...)
file in Civis Platform civis_ml(x = civis_file(1234))
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table",database_name = "database"))
### Examples

```r
## Not run:
df <- iris
names(df) <- gsub("\\.", ", names(df))

m <- civis_ml_random_forest_classifier(df, 
  dependent_variable = "Species",
  n_estimators = 100,
  max_depth = 5,
  max_features = NULL)
what <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  max_depth = c(2, 3))

m <- civis_ml_random_forest_classifier(df, 
  dependent_variable = "Species",
  max_features = NULL,
  cross_validation_parameters = cv_params)
pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```

---

civis_ml_random_forest_regressor

**CivisML Random Forest Regressor**

### Description

CivisML Random Forest Regressor

### Usage

```r
civis_ml_random_forest_regressor(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  n_estimators = 500,
  criterion = c("mse", "mae"),
  max_depth = NULL,
  min_samples_split = 2,
  min_samples_leaf = 1,
  min_weight_fraction_leaf = 0,
```
max_features = "sqrt",
max_leaf_nodes = NULL,
min_impurity_split = 1e-07,
bootstrap = TRUE,
random_state = 42,
fit_params = NULL,
cross_validation_parameters = NULL,
oos_scores_table = NULL,
oos_scores_db = NULL,
oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
model_name = NULL,
cpu_requested = NULL,
memory_requested = NULL,
disk_requested = NULL,
notifications = NULL,
polling_interval = NULL,
verbose = FALSE,
civisml_version = "prod"
)

Arguments

x

See the Data Sources section below.

dependent_variable

The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.

primary_key

Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In predict.civis_ml, the primary_key of the training task is used by default primary_key = NA. Use primary_key = NULL to explicitly indicate the data have no primary_key.

excluded_columns

Optional, a vector of columns which will be considered ineligible to be independent variables.

n_estimators

The number of boosting stages to perform. Gradient boosting is fairly robust to over-fitting, so a large number usually results in better predictive performance.

criterion

The function used to measure the quality of a split. Supported criteria are mse for the mean squared error, and mae for the mean absolute error.

max_depth

Maximum depth of the individual regression estimators. The maximum depth limits the number of nodes in the tree. Tune this parameter for best performance. The best value depends on the interaction of the input variables.

min_samples_split

The minimum number of samples required to split an internal node. If an integer, then consider min_samples_split as the minimum number. If a float, then min_samples_split is a percentage and ceiling(min_samples_split * n_samples) are the minimum number of samples for each split.
min_samples_leaf
The minimum number of samples required to be in a leaf node. If an integer, then consider min_samples_leaf as the minimum number. If a float, the min_samples_leaf is a percentage and ceiling(min_samples_leaf * n_samples) are the minimum number of samples for each leaf node.

min_weight_fraction_leaf
The minimum weighted fraction of the sum total of weights required to be at a leaf node.

max_features
The number of features to consider when looking for the best split.

- **integer** consider max_features at each split.
- **float** then max_features is a percentage and max_features * n_features are considered at each split.
- **auto** then max_features = sqrt(n_features)
- **sqrt** then max_features = sqrt(n_features)
- **log2** then max_features = log2(n_features)
- **NULL** then max_features = n_features

max_leaf_nodes
Grow trees with max_leaf_nodes in best-first fashion. Best nodes are defined as relative reduction to impurity. If max_leaf_nodes = NULL then unlimited number of leaf nodes.

min_impurity_split
Threshold for early stopping in tree growth. A node will split if its impurity is above the threshold, otherwise it is a leaf.

bootstrap
Whether bootstrap samples are used when building trees.

random_state
The seed of the random number generator.

fit_params
Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

cross_validation_parameters
Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100, 200, 500), learning_rate = c(0.01, 0.1), max_depth = c(2, 3)) or "hyperband" for supported models.

oos_scores_table
Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

oos_scores_db
Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

oos_scores_if_exists
Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

model_name
Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

cpu_requested
Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

memory_requested
Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.
disk_requested  Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

notifications  Optional, model status notifications. See `scripts_post_custom` for further documentation about email and URL notification.

polling_interval  Check for job completion every this number of seconds.

verbose  Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

civisml_version  Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

Value

A `civis_ml` object, a list containing the following elements:

- **job**  job metadata from `scripts_get_custom`.
- **run**  run metadata from `scripts_get_custom_runs`.
- **outputs**  CivisML metadata from `scripts_list_custom_runs_outputs` containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
- **metrics**  Parsed CivisML output from `metrics.json` containing metadata from validation. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model with CV results.
  - metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
  - warnings list.
  - data_platform list, training data location.
- **model_info**  Parsed CivisML output from `model_info.json` containing metadata from training. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model.
  - metrics empty list.
  - warnings list.
  - data_platform list, training data location.

Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`: 
Examples

```r
## Not run:
data(ChickWeight)

m <- civis_ml_random_forest_regressor(ChickWeight,
  dependent_variable = "weight",
  n_estimators = 100,
  max_depth = 5,
  max_features = NULL)
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(
  n_estimators = c(100, 200, 500),
  max_depth = c(2, 3))

m <- civis_ml_random_forest_regressor(ChickWeight,
  dependent_variable = "weight",
  max_features = NULL,
  cross_validation_parameters = cv_params)

pred_info <- predict(m, civis_table("schema.table", "my_database"),
  output_table = "schema.scores_table")

## End(Not run)
```
civis_ml_sparse_linear_regressor

CivisML Sparse Linear Regression

Description

CivisML Sparse Linear Regression

Usage

civis_ml_sparse_linear_regressor(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  fit_intercept = TRUE,
  normalize = FALSE,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  verbose = FALSE,
  civisml_version = "prod"
)

Arguments

x See the Data Sources section below.
dependent_variable
  The dependent variable of the training dataset. For a multi-target problem, this
  should be a vector of column names of dependent variables. Nulls in a single
  dependent variable will automatically be dropped.

primary_key Optional, the unique ID (primary key) of the training dataset. This will be used
  to index the out-of-sample scores. In predict.civis_ml, the primary_key of
  the training task is used by default primary_key = NA. Use primary_key = NULL
  to explicitly indicate the data have no primary_key.

excluded_columns Optional, a vector of columns which will be considered ineligible to be independent
  variables.
fit_intercept  Should an intercept term be included in the model. If FALSE, no intercept will be included, in this case the data are expected to already be centered.

normalize  If TRUE, the regressors will be normalized before fitting the model. normalize is ignored when fit_intercept = FALSE.

fit_params  Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

cross_validation_parameters  Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100,200,500),learning_rate = c(0.01,0.1),max_depth = c(2,3)) or "hyperband" for supported models.

oos_scores_table  Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

oos_scores_db  Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

oos_scores_if_exists  Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

model_name  Optional, the prefix of the Platform modeling jobs. It will have “Train” or “Predict” added to become the Script title.

cpu_requested  Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

memory_requested  Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

disk_requested  Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

notifications  Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.

polling_interval  Check for job completion every this number of seconds.

verbose  Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

civisml_version  Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

Value

A civis_ml object, a list containing the following elements:

job  job metadata from scripts_get_custom.

run  run metadata from scripts_get_custom_runs.

outputs  CivisML metadata from scripts_list_custom_runs_outputs containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.
metrics

Parsed CivisML output from metrics.json containing metadata from validation. A list containing the following elements:
- run list, metadata about the run.
- data list, metadata about the training data.
- model list, the fitted scikit-learn model with CV results.
- metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
- warnings list.
- data_platform list, training data location.

model_info

Parsed CivisML output from model_info.json containing metadata from training. A list containing the following elements:
- run list, metadata about the run.
- data list, metadata about the training data.
- model list, the fitted scikit-learn model.
- metrics empty list.
- warnings list.
- data_platform list, training data location.

Data Sources

For building models with civis_ml, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a data.frame resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling civis_ml:

data.frame civis_ml(x = df,...)
local csv file  civis_ml(x = "path/to/data.csv",...)
file in Civis Platform  civis_ml(x = civis_file(1234))
table in Civis Platform  civis_ml(x = civis_table(table_name = "schema.table",database_name = "database"))

Examples

```r
## Not run:
data(ChickWeight)
m <- civis_ml_sparse_linear_regressor(ChickWeight, dependent_variable = "weight")
yhat <- fetch_oos_scores(m)

# make a prediction job, storing in a redshift table
pred_info <- predict(m, newdata = civis_table("schema.table", "my_database"),
output_table = "schema.scores_table")
```

## End(Not run)
civis_ml_sparse_logistic

CivisML Sparse Logistic

Description

CivisML Sparse Logistic

Usage

civis_ml_sparse_logistic(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  penalty = c("l2", "l1"),
  dual = FALSE,
  tol = 1e-08,
  C = 499999950,
  fit_intercept = TRUE,
  intercept_scaling = 1,
  class_weight = NULL,
  random_state = 42,
  solver = c("liblinear", "newton-cg", "lbfgs", "sag"),
  max_iter = 100,
  multi_class = c("ovr", "multinomial"),
  fit_params = NULL,
  cross_validation_parameters = NULL,
  calibration = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  diskRequested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  verbose = FALSE,
  civisml_version = "prod"
)

Arguments

x                     See the Data Sources section below.
dependent_variable
The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.

primary_key
Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In predict.civis_ml, the primary_key of the training task is used by default primary_key = NA. Use primary_key = NULL to explicitly indicate the data have no primary_key.

excluded_columns
Optional, a vector of columns which will be considered ineligible to be independent variables.

penalty
Used to specify the norm used in the penalization. The newton-cg, sag, and lbfgs solvers support only l2 penalties.

dual
Dual or primal formulation. Dual formulation is only implemented for l2 penalty with the liblinear solver. dual = FALSE should be preferred when n_samples > n_features.

tol
Tolerance for stopping criteria.

C
Inverse of regularization strength, must be a positive float. Smaller values specify stronger regularization.

fit_intercept
Should a constant or intercept term be included in the model.

intercept_scaling
Useful only when the solver = "liblinear" and fit_intercept = TRUE. In this case, a constant term with the value intercept_scaling is added to the design matrix.

class_weight
A list with class_label = value pairs, or balanced. When class_weight = "balanced", the class weights will be inversely proportional to the class frequencies in the input data as:

\[ \frac{n_{samples}}{n_{classes} \times \text{table}(y)} \]

Note, the class weights are multiplied with sample_weight (passed via fit_params) if sample_weight is specified.

random_state
The seed of the random number generator to use when shuffling the data. Used only in solver = "sag" and solver = "liblinear".

solver
Algorithm to use in the optimization problem. For small data liblinear is a good choice. sag is faster for larger problems. For multiclass problems, only newton-cg, sag, and lbfgs handle multinomial loss. liblinear is limited to one-versus-rest schemes. newton-cg, lbfgs, and sag only handle the l2 penalty.

Note that sag fast convergence is only guaranteed on features with approximately the same scale.

max_iter
The maximum number of iterations taken for the solvers to converge. Useful for the newton-cg, sag, and lbfgs solvers.
The scheme for multi-class problems. When ovr, then a binary problem is fit for each label. When multinomial, a single model is fit minimizing the multinomial loss. Note, multinomial only works with the newton-cg, sag, and lbfgs solvers.

**fit_params**
Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. list(sample_weight = 'survey_weight_column').

**cross_validation_parameters**
Optional, parameter grid for learner parameters, e.g. list(n_estimators = c(100,200,500),learning_rate = c(0.01,0.1),max_depth = c(2,3)) or "hyperband" for supported models.

**calibration**
Optional, if not NULL, calibrate output probabilities with the selected method, sigmoid, or isotonic. Valid only with classification models.

**oos_scores_table**
Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schema.tablename".

**oos_scores_db**
Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

**oos_scores_if_exists**
Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

**model_name**
Optional, the prefix of the Platform modeling jobs. It will have " Train" or " Predict" added to become the Script title.

**cpu_requested**
Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

**memory_requested**
Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

**disk_requested**
Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

**notifications**
Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.

**polling_interval**
Check for job completion every this number of seconds.

**verbose**
Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

**civisml_version**
Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

**Value**
A civis_ml object, a list containing the following elements:

- **job**
  job metadata from scripts_get_custom.

- **run**
  run metadata from scripts_get_custom_runs.
outputs CivisML metadata from `scripts_list_custom_runs_outputs` containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.

metrics Parsed CivisML output from `metrics.json` containing metadata from validation. A list containing the following elements:

- run list, metadata about the run.
- data list, metadata about the training data.
- model list, the fitted scikit-learn model with CV results.
- metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
- warnings list.
- data_platform list, training data location.

model_info Parsed CivisML output from `model_info.json` containing metadata from training. A list containing the following elements:

- run list, metadata about the run.
- data list, metadata about the training data.
- model list, the fitted scikit-learn model.
- metrics empty list.
- warnings list.
- data_platform list, training data location.

Data Sources

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

```r
# data.frame
data.frame civis_ml(x = df,...)

# local csv file
local csv file civis_ml(x = "path/to/data.csv",...)

# file in Civis Platform
file in Civis Platform civis_ml(x = civis_file(1234))

# table in Civis Platform
table in Civis Platform civis_ml(x = civis_table(table_name = "schema.table",database_name = "database"))
```

Examples

```r
## Not run:
df <- iris
names(df) <- gsub("\."", ",", names(df))

m <- civis_ml_sparse_logistic(df, "Species")
yhat <- fetch_oos_scores(m)

# Grid Search
cv_params <- list(C = c(.01, 1, 10, 100, 1000))
```
m <- civis_ml_sparse_logistic(df, "Species",
cross_validation_parameters = cv_params)

# make a prediction job, storing in a redshift table
pred_info <- predict(m, newdata = civis_table("schema.table", "my_database"),
                      output_table = "schema.scores_table")

## End(Not run)

---

**civis_ml_sparse_ridge_regressor**

*CivisML Sparse Ridge Regression*

### Description

CivisML Sparse Ridge Regression

### Usage

```r
civis_ml_sparse_ridge_regressor(
  x,
  dependent_variable,
  primary_key = NULL,
  excluded_columns = NULL,
  alpha = 1,
  fit_intercept = TRUE,
  normalize = FALSE,
  max_iter = NULL,
  tol = 0.001,
  solver = c("auto", "svd", "cholesky", "lsqr", "sparse_cg", "sag"),
  random_state = 42,
  fit_params = NULL,
  cross_validation_parameters = NULL,
  oos_scores_table = NULL,
  oos_scores_db = NULL,
  oos_scores_if_exists = c("fail", "append", "drop", "truncate"),
  model_name = NULL,
  cpu_requested = NULL,
  memory_requested = NULL,
  disk_requested = NULL,
  notifications = NULL,
  polling_interval = NULL,
  verbose = FALSE,
  civisml_version = "prod"
)
```
Arguments

- **x**: See the Data Sources section below.
- **dependent_variable**: The dependent variable of the training dataset. For a multi-target problem, this should be a vector of column names of dependent variables. Nulls in a single dependent variable will automatically be dropped.
- **primary_key**: Optional, the unique ID (primary key) of the training dataset. This will be used to index the out-of-sample scores. In `predict.civis_ml`, the `primary_key` of the training task is used by default `primary_key = NA`. Use `primary_key = NULL` to explicitly indicate the data have no `primary_key`.
- **excluded_columns**: Optional, a vector of columns which will be considered ineligible to be independent variables.
- **alpha**: The regularization strength, must be a vector of floats of length n_targets or a single float. Larger values specify stronger regularization.
- **fit_intercept**: Should an intercept term be included in the model. If `FALSE`, no intercept will be included, in this case the data are expected to already be centered.
- **normalize**: If `TRUE`, the regressors will be normalized before fitting the model. `normalize` is ignored when `fit_intercept = FALSE`.
- **max_iter**: Maximum number of iterations for conjugate gradient solver. For `sparse_cg` and `lsqr` solvers, the default value is predetermined. For the `sag` solver, the default value is 1000.
- **tol**: Precision of the solution.
- **solver**: Solver to use for the optimization problem.
  - `auto` chooses the solver automatically based on the type of data.
  - `cholesky` uses the standard decomposition to obtain a closed-form solution.
  - `sparse_cg` uses the conjugate gradient solver. As an iterative algorithm, this solver is more appropriate than `cholesky` for large-scale data.
  - `lsqr` uses the dedicated regularized least-squares routine.
  - `sag` uses Stochastic Average Gradient descent. It also uses an iterative procedure, and is often faster than other solvers when both n_samples and n_features are large. Note that `sag` fast convergence is only guaranteed on features with approximately the same scale.
- **random_state**: The seed of the pseudo random number generator to use when shuffling the data. Used only when solver = “sag”.
- **fit_params**: Optional, a mapping from parameter names in the model’s fit method to the column names which hold the data, e.g. `list(sample_weight = 'survey_weight_column')`.
- **cross_validation_parameters**: Optional, parameter grid for learner parameters, e.g. `list(n_estimators = c(100,200,500),learning_rate = c(0.01,0.1),max_depth = c(2,3))` or "hyperband" for supported models.
civis_ml_sparse_ridge_regressor

- **oos_scores_table**: Optional, if provided, store out-of-sample predictions on training set data to this Redshift "schematablename".

- **oos_scores_db**: Optional, the name of the database where the oos_scores_table will be created. If not provided, this will default to database_name.

- **oos_scores_if_exists**: Optional, action to take if oos_scores_table already exists. One of "fail", "append", "drop", or "truncate". The default is "fail".

- **model_name**: Optional, the prefix of the Platform modeling jobs. It will have "Train" or "Predict" added to become the Script title.

- **cpu_requested**: Optional, the number of CPU shares requested in the Civis Platform for training jobs or prediction child jobs. 1024 shares = 1 CPU.

- **memory_requested**: Optional, the memory requested from Civis Platform for training jobs or prediction child jobs, in MiB.

- **disk_requested**: Optional, the disk space requested on Civis Platform for training jobs or prediction child jobs, in GB.

- **notifications**: Optional, model status notifications. See scripts_post_custom for further documentation about email and URL notification.

- **polling_interval**: Check for job completion every this number of seconds.

- **verbose**: Optional, If TRUE, supply debug outputs in Platform logs and make prediction child jobs visible.

- **civisml_version**: Optional, a one-length character vector of the CivisML version. The default is "prod", the latest version in production

**Value**

A civis_ml object, a list containing the following elements:

- **job**: job metadata from scripts_get_custom.

- **run**: run metadata from scripts_get_custom_runs.

- **outputs**: CivisML metadata from scripts_list_custom_runs_outputs containing the locations of files produced by CivisML e.g. files, projects, metrics, model_info, logs, predictions, and estimators.

- **metrics**: Parsed CivisML output from metrics.json containing metadata from validation. A list containing the following elements:
  - run list, metadata about the run.
  - data list, metadata about the training data.
  - model list, the fitted scikit-learn model with CV results.
  - metrics list, validation metrics (accuracy, confusion, ROC, AUC, etc).
  - warnings list.
  - data_platform list, training data location.
model_info

Parsed CivisML output from `model_info.json` containing metadata from training. A list containing the following elements:

- run list, metadata about the run.
- data list, metadata about the training data.
- model list, the fitted scikit-learn model.
- metrics empty list.
- warnings list.
- data_platform list, training data location.

**Data Sources**

For building models with `civis_ml`, the training data can reside in four different places, a file in the Civis Platform, a CSV or feather-format file on the local disk, a `data.frame` resident in local the R environment, and finally, a table in the Civis Platform. Use the following helpers to specify the data source when calling `civis_ml`:

- `data.frame`  `civis_ml(x = df,...)`
- `local csv file`  `civis_ml(x = "path/to/data.csv",...)`
- `file in Civis Platform`  `civis_ml(x = civis_file(1234))`
- `table in Civis Platform`  `civis_ml(x = civis_table(table_name = "schema.table",database_name = "database"))`

**Examples**

```r
## Not run:
data(ChickWeight)
m <- civis_ml_sparse_ridge_regressor(ChickWeight, dependent_variable = "weight", alpha = 999)
yhat <- fetch_oos_scores(m)

# Grid search
cv_params <- list(alpha = c(.001, .01, .1, 1))
m <- civis_ml_sparse_ridge_regressor(ChickWeight, dependent_variable = "weight",
cross_validation_parameters = cv_params, calibration = NULL)

# make a prediction job, storing in a redshift table
pred_info <- predict(m, newdata = civis_table("schema.table", "my_database"), output_table = "schema.scores_table")
```

## End(Not run)
**civis_platform**  
*Evaluate an expression in Civis Platform*

**Description**

This is used as with the `future` API as an argument to `plan`.

**Usage**

```r
civis_platform(...)```

**Arguments**

...  
Arguments to `CivisFuture` and then `scripts_post_containers`  

**Value**

The result of evaluating expr.

**Examples**

```r
## Not run:  
plan(civis_platform)

# Specify required resources, image, and tag.
fut <- future({2 + 2},
  required_resources = list(cpu = 1024, memory = 2048),
  docker_image_name = "civisanalytics/datascience-r",
  docker_image_tag = "3")

# Evaluate the future later  
fut <- future({2 + 2}, lazy = TRUE)
run(fut)

# check if a future has resolved
resolved(fut)

# block until the future resolves, and return the value or throw error
value(fut)

# cancel the job
cancel(fut)

# grab the run logs
fetch_logs(fut)

# handle errors
fut <- future({stop("Error!")})
e <- tryCatch(value(fut), error = function(e) e)
```
get_error(e)

## End(Not run)

civis_script

### Description

Create a `civis_script` object from a job and run id.

### Usage

```r
civis_script(id, run_id = NULL)
```

### Arguments

- `id` integer, job id of the script.
- `run_id` integer, id of the run. If NULL (default), the most recent run will be used.

### Details

A `civis_script` can be any custom, container, R, Python, SQL, or Javascript platform script.

### Value

A `civis_script` object.

### See Also

- `read_civis`

Other script util:s: `fetch_output_file_ids()`, `run_civis()`, `run_template()`
**civis_table**  
*A table in the Civis Platform*

**Description**

Use `civis_table` to use a table in the Civis Platform with `civis_ml`.

**Usage**

```r
civis_table(  
  table_name,  
  database_name = NULL,  
  sql_where = NULL,  
  sql_limit = NULL  
)
```

**Arguments**

- `table_name`  
The table name, as "schema.table".
- `database_name`  
The name of the database holding `table_name`.
- `sql_where`  
A SQL WHERE clause used to scope the rows of the training or prediction table. Note, the WHERE keyword is added at runtime.
- `sql_limit`  
A SQL LIMIT clause for querying the training or prediction set. Note, the LIMIT keyword is added at runtime.

**Value**

A `civis_table`.

---

**civis_to_multifile_csv**  
*Split a Redshift table into multiple CSV parts on S3*

**Description**

Split a Redshift table into multiple CSV parts on S3 and return their locations as file IDs and presigned S3 urls.
Usage

civis_to_multifile_csv(
  sql,
  database,
  job_name = NULL,
  hidden = TRUE,
  include_header = TRUE,
  compression = "gzip",
  delimiter = ",",
  unquoted = FALSE,
  prefix = NULL
)

Arguments

sql string, The SQL select string to be executed.
database string, Name of database where query is run.
job_name string, optional. Name to identify scripted sql job.
hidden logical, Whether to hide the query in platform.
include_header logical, optional. Whether to include headers as an element in the returned list.
compression string, optional, Type of compression to use, if any. One of 'none', 'zip', or 'gzip'.
delimiter string, optional. Which delimiter to use. One of ',', '\t' or '|'.
unquoted logical, optional. Whether or not to quote fields.
prefix string, optional. A user specified filename prefix for the output files to have.

Details

When tables are large, unloading by splitting them first is faster. When we split a table, each Redshift compute node can dump its data into S3 in parallel with the others. By doing so, we avoid having all compute nodes sending the data through the leader node, which is slow.

This function returns a list that contains the location of the CSV parts as file IDs and presigned S3 urls. The user can use either the file IDs or the presigned S3 urls to download the CSV parts. The content of the list returned by this function is similar to that of the manifest file returned by Amazon S3 UNLOAD statements.

Value

A list with the items:

- header: column headers if 'include_header' is TRUE
- query: the executed query
- entries: a list containing presigned urls for each csv part
- compression: the type of compression on each csv part
- delimiter: the delimiter used to separate fields
- unquoted: whether fields are quoted
## Not run:
#
# Download a table into multiple csv parts
sql <- "SELECT * FROM schema.table"
database <- "important_database"
manifest <- civis_to_multifile_csv(sql=sql, database=database)
files <- lapply(manifest["entries"], function(x) {
  download_civis(x$id, x$name)
  x$name
})

## End(Not run)

---

### clusters_delete_kubernetes_partitions

**Delete a Cluster Partition**

#### Description
Delete a Cluster Partition

#### Usage
```r
clusters_delete_kubernetes_partitions(id, cluster_partition_id)
```

#### Arguments
- **id**: integer required. The ID of the cluster which this partition belongs to.
- **cluster_partition_id**: integer required. The ID of this cluster partition.

#### Value
An empty HTTP response

---

### clusters_get_kubernetes

**Describe a Kubernetes Cluster**

#### Description
Describe a Kubernetes Cluster

#### Usage
```r
clusters_get_kubernetes(id)
```
clusters_get_kubernetes_partitions

### Arguments

**id**  
integer required. The ID of this cluster.

### Value

A list containing the following elements:

- **id**  
  integer, The ID of this cluster.

- **organizationId**  
  string, The id of this cluster’s organization.

- **organizationName**  
  string, The name of this cluster’s organization.

- **organizationSlug**  
  string, The slug of this cluster’s organization.

- **clusterPartitions**  
  array, An array containing the following fields:
    - **clusterPartitionId**  
      integer, The ID of this cluster partition.
    - **name**  
      string, The name of the cluster partition.
    - **labels**  
      array, Labels associated with this partition.
    - **instanceConfigs**  
      array, The instances configured for this cluster partition.
    - **defaultInstanceConfigId**  
      integer, The id of the InstanceConfig that is the default for this partition.

- **isNatEnabled**  
  boolean, Whether this cluster needs a NAT gateway or not.

---

**clusters_get_kubernetes_partitions**

*Describe a Cluster Partition*

---

### Description

Describe a Cluster Partition

### Usage

```
clusters_get_kubernetes_partitions(id, cluster_partition_id)
```

### Arguments

- **id**  
  integer required. The ID of the cluster which this partition belongs to.

- **cluster_partition_id**  
  integer required. The ID of this cluster partition.
clusters_list_kubernetes

**Value**

A list containing the following elements:

- **clusterPartitionId**
  - integer, The ID of this cluster partition.
- **name**
  - string, The name of the cluster partition.
- **labels**
  - array, Labels associated with this partition.
- **instanceConfigs**
  - array, An array containing the following fields:
    - **instanceConfigId**
      - integer, The ID of this InstanceConfig.
    - **instanceType**
      - string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
    - **minInstances**
      - integer, The minimum number of instances of that type in this cluster.
    - **maxInstances**
      - integer, The maximum number of instances of that type in this cluster.
    - **instanceMaxMemory**
      - integer, The amount of memory (RAM) available to a single instance of that type in megabytes.
    - **instanceMaxCpu**
      - integer, The number of processor shares available to a single instance of that type in millicores.
    - **instanceMaxDisk**
      - integer, The amount of disk available to a single instance of that type in gigabytes.
- **defaultInstanceConfigId**
  - integer, The id of the InstanceConfig that is the default for this partition.

---

**clusters_list_kubernetes**

*List Kubernetes Clusters*

**Description**

List Kubernetes Clusters

**Usage**

```python
clusters_list_kubernetes(
    organization_slug = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```
Arguments

organization_slug
  string optional. The slug of this cluster’s organization.

limit
  integer optional. Number of results to return. Defaults to its maximum of 50.

page_num
  integer optional. Page number of the results to return. Defaults to the first page, 1.

order
  string optional. The field on which to order the result set. Defaults to organization_id. Must be one of: organization_id, created_at.

order_dir
  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

  id
    integer, The ID of this cluster.

  organizationId
    string, The id of this cluster’s organization.

  organizationName
    string, The name of this cluster’s organization.

  organizationSlug
    string, The slug of this cluster’s organization.

  clusterPartitions
    array, An array containing the following fields:
      • clusterPartitionId integer, The ID of this cluster partition.
      • name string, The name of the cluster partition.
      • labels array, Labels associated with this partition.
      • instanceConfigs array, The instances configured for this cluster partition.
      • defaultInstanceConfigId integer, The id of the InstanceConfig that is the default for this partition.

  isNatEnabled
    boolean, Whether this cluster needs a NAT gateway or not.

clusters_list_kubernetes_deployments

List the deployments associated with a Kubernetes Cluster

Description

List the deployments associated with a Kubernetes Cluster
clusters_list_kubernetes_deployments

Usage

clusters_list_kubernetes_deployments(
    id,
    base_type = NULL,
    state = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

id integer required. The id of the cluster.
base_type string optional. If specified, return deployments of these base types. It accepts a comma-separated list, possible values are 'Notebook', 'Service', 'Run'.
state string optional. If specified, return deployments in these states. It accepts a comma-separated list, possible values are pending, running, terminated, sleeping
limit integer optional. Number of results to return. Defaults to its maximum of 50.
page_num integer optional. Page number of the results to return. Defaults to the first page, 1.
order string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at.
order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

id integer, The id of this deployment.
name string, The name of the deployment.
baseId integer, The id of the base object associated with the deployment.
baseType string, The base type of this deployment.
state string, The state of the deployment.
cpu integer, The CPU in millicores required by the deployment.
memory integer, The memory in MB required by the deployment.
diskSpace integer, The disk space in GB required by the deployment.
instanceType string, The EC2 instance type requested for the deployment.
author list, A list containing the following elements:
    • id integer, The ID of this user.
    • name string, This user’s name.
clusters_list_kubernetes_deployment_stats

Get stats about deployments associated with a Kubernetes Cluster

Description

Get stats about deployments associated with a Kubernetes Cluster

Usage

clusters_list_kubernetes_deployment_stats(id)

Arguments

id integer required. The ID of this cluster.

Value

An array containing the following fields:

- baseType string, The base type of this deployment
- state string, State of the deployment
- count integer, Number of deployments of base type and state
- totalCpu integer, Total amount of CPU in millicores for deployments of base type and state
- totalMemory integer, Total amount of Memory in megabytes for deployments of base type and state
**clusters_list_kubernetes_partitions**

*List Cluster Partitions for given cluster*

**Description**

List Cluster Partitions for given cluster

**Usage**

`clusters_list_kubernetes_partitions(id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of this cluster.</td>
</tr>
</tbody>
</table>

**Value**

An array containing the following fields:

- **clusterPartitionId** integer, The ID of this cluster partition.
- **name** string, The name of the cluster partition.
- **labels** array, Labels associated with this partition.
- **instanceConfigs** array, An array containing the following fields:
  - **instanceConfigId** integer, The ID of this InstanceConfig.
  - **instanceType** string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
  - **minInstances** integer, The minimum number of instances of that type in this cluster.
  - **maxInstances** integer, The maximum number of instances of that type in this cluster.
  - **instanceMaxMemory** integer, The amount of memory (RAM) available to a single instance of that type in megabytes.
  - **instanceMaxCpu** integer, The number of processor shares available to a single instance of that type in millicores.
  - **instanceMaxDisk** integer, The amount of disk available to a single instance of that type in gigabytes.
- **defaultInstanceConfigId** integer, The id of the InstanceConfig that is the default for this partition.
clusters_patch_kubernetes

Update a Kubernetes Cluster

Description

Update a Kubernetes Cluster

Usage

clusters_patch_kubernetes(id, is_nat_enabled = NULL)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>integer required. The ID of this cluster.</td>
</tr>
<tr>
<td>is_nat_enabled</td>
<td>boolean</td>
<td>boolean optional. Whether this cluster needs a NAT gateway or not.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

- id, integer, The ID of this cluster.
- organizationId, string, The id of this cluster’s organization.
- organizationName, string, The name of this cluster’s organization.
- organizationSlug, string, The slug of this cluster’s organization.
- clusterPartitions, array, An array containing the following fields:
  - clusterPartitionId, integer, The ID of this cluster partition.
  - name, string, The name of the cluster partition.
  - labels, array, Labels associated with this partition.
  - instanceConfigs, array, The instances configured for this cluster partition.
  - defaultInstanceConfigId, integer, The id of the InstanceConfig that is the default for this partition.
- isNatEnabled, boolean, Whether this cluster needs a NAT gateway or not.
**clusters_patch_kubernetes_partitions**

*Update a Cluster Partition*

**Description**

Update a Cluster Partition

**Usage**

```python
clusters_patch_kubernetes_partitions(
    id,
    cluster_partition_id,
    instance_configs = NULL,
    name = NULL,
    labels = NULL
)
```

**Arguments**

- **id**
  integer required. The ID of the cluster which this partition belongs to.
- **cluster_partition_id**
  integer required. The ID of this cluster partition.
- **instance_configs**
  array optional. An array containing the following fields:
  - **instanceType** string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
  - **minInstances** integer, The minimum number of instances of that type in this cluster.
  - **maxInstances** integer, The maximum number of instances of that type in this cluster.
- **name**
  string optional. The name of the cluster partition.
- **labels**
  array optional. Labels associated with this partition.

**Value**

A list containing the following elements:

- **clusterPartitionId**
  integer, The ID of this cluster partition.
- **name**
  string, The name of the cluster partition.
- **labels**
  array, Labels associated with this partition.
- **instanceConfigs**
  array, An array containing the following fields:
  - **instanceConfigId**
    integer, The ID of this InstanceConfig.
• instanceType string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
• minInstances integer, The minimum number of instances of that type in this cluster.
• maxInstances integer, The maximum number of instances of that type in this cluster.
• instanceMaxMemory integer, The amount of memory (RAM) available to a single instance of that type in megabytes.
• instanceMaxCpu integer, The number of processor shares available to a single instance of that type in millicores.
• instanceMaxDisk integer, The amount of disk available to a single instance of that type in gigabytes.

defaultInstanceConfigId
    integer, The id of the InstanceConfig that is the default for this partition.

clusters_post_kubernetes

Create a Kubernetes Cluster

Description

Create a Kubernetes Cluster

Usage

clusters_post_kubernetes(
    organization_id = NULL,
    organization_slug = NULL,
    is_nat_enabled = NULL
)

Arguments

organization_id
    string optional. The id of this cluster’s organization.
organization_slug
    string optional. The slug of this cluster’s organization.
is_nat_enabled
    boolean optional. Whether this cluster needs a NAT gateway or not.

Value

A list containing the following elements:

id
    integer, The ID of this cluster.
organizationId
    string, The id of this cluster’s organization.
Clusters' Kubernetes Partitions

**organizationName**
- string, The name of this cluster's organization.

**organizationSlug**
- string, The slug of this cluster's organization.

**clusterPartitions**
- array, An array containing the following fields:
  - clusterPartitionId integer, The ID of this cluster partition.
  - name string, The name of the cluster partition.
  - labels array, Labels associated with this partition.
  - instanceConfigs array, The instances configured for this cluster partition.
  - defaultInstanceConfigId integer, The id of the InstanceConfig that is the default for this partition.

**isNatEnabled**
- boolean, Whether this cluster needs a NAT gateway or not.

---

**clusters_post_kubernetes_partitions**

*Create a Cluster Partition for given cluster*

**Description**

Create a Cluster Partition for given cluster

**Usage**

`clusters_post_kubernetes_partitions(id, instance_configs, name, labels)`

**Arguments**

- **id**
  - integer required. The ID of the cluster which this partition belongs to.
- **instance_configs**
  - array required. An array containing the following fields:
    - instanceType string, An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
    - minInstances integer, The minimum number of instances of that type in this cluster.
    - maxInstances integer, The maximum number of instances of that type in this cluster.
- **name**
  - string required. The name of the cluster partition.
- **labels**
  - array required. Labels associated with this partition.
Value

A list containing the following elements:

- `clusterPartitionId` (integer): The ID of this cluster partition.
- `name` (string): The name of the cluster partition.
- `labels` (array): Labels associated with this partition.
- `instanceConfigs` (array): An array containing the following fields:
  - `instanceConfigId` (integer): The ID of this InstanceConfig.
  - `instanceType` (string): An EC2 instance type. Possible values include t2.large, m4.xlarge, m4.2xlarge, m4.4xlarge, m5.12xlarge, and p2.xlarge.
  - `minInstances` (integer): The minimum number of instances of that type in this cluster.
  - `maxInstances` (integer): The maximum number of instances of that type in this cluster.
  - `instanceMaxMemory` (integer): The amount of memory (RAM) available to a single instance of that type in megabytes.
  - `instanceMaxCpu` (integer): The number of processor shares available to a single instance of that type in millicores.
  - `instanceMaxDisk` (integer): The amount of disk available to a single instance of that type in gigabytes.
- `defaultInstanceConfigId` (integer): The id of the InstanceConfig that is the default for this partition.

---

**coef.civis_ml**

*Get civis_ml model coefficients*

**Description**

Get civis_ml model coefficients

**Usage**

```r
## S3 method for class 'civis_ml'
coef(object, complete = TRUE, ...)
```

**Arguments**

- `object`: `civis_ml_model`
- `complete`: see documentation for generic `coef()`
- `...`: other arguments
credentials_delete_shares_groups

Details
Outputs coefficients with names in the style of ‘stats::coef’

Value
a matrix of coefficients, or ‘NULL’ if none available from CivisML

credentials_delete_shares_groups
Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
credentials_delete_shares_groups(id, group_id)

Arguments
id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value
An empty HTTP response

credentials_delete_shares_users
Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
credentials_delete_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response
credentials_get  Get a credential

Description
Get a credential

Usage
credentials_get(id)

Arguments
id  integer required. The ID of the credential.

Value
A list containing the following elements:

- id  integer, The ID of the credential.
- name  string, The name identifying the credential
- type  string, The credential’s type.
- username  string, The username for the credential.
- description  string, A long description of the credential.
- owner  string, The name of the user who this credential belongs to.
- remoteHostId  integer, The ID of the remote host associated with this credential.
- remoteHostName  string, The name of the remote host associated with this credential.
- createdAt  string, The creation time for this credential.
- updatedAt  string, The last modification time for this credential.

credentials_list  List credentials

Description
List credentials
credentials_list

Usage

credentials_list(
    type = NULL,
    remote_host_id = NULL,
    default = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

type string optional. The type (or types) of credentials to return. One or more of: Amazon Web Services S3, Bitbucket, BSD::API, CASS/NCOA PAF, Catalist::API, Catalist::SFTP, Certificate, Civis Platform, Custom, Database, Google, Github, JobTraits::Ftp, Salesforce User, Salesforce Client, Silverpop Application, Silverpop Refresh Token, Silverpop User, TableauUser, VAN::MyVoterFile, VAN::MyCampaign, and VAN::BothModes. Specify multiple values as a comma-separated list (e.g., "A,B").

remote_host_id integer optional. The ID of the remote host associated with the credentials to return.

default boolean optional. If true, will return a list with a single credential which is the current user's default credential.

limit integer optional. Number of results to return. Defaults to its maximum of 1000.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, created_at, name.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id integer, The ID of the credential.

name string, The name identifying the credential

type string, The credential’s type.

username string, The username for the credential.

description string, A long description of the credential.

owner string, The name of the user who this credential belongs to.

remoteHostId integer, The ID of the remote host associated with this credential.

remoteHostName string, The name of the remote host associated with this credential.

state string, The U.S. state for the credential. Only for VAN credentials.
credentials_list_shares

List users and groups permissioned on this object

**Description**

List users and groups permissioned on this object

**Usage**

`credentials_list_shares(id)`

**Arguments**

- **id**
  
  integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers**
  
  list, A list containing the following elements:
  - users array,
  - groups array,

- **writers**
  
  list, A list containing the following elements:
  - users array,
  - groups array,

- **owners**
  
  list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares**
  
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**
  
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
Create a credential

Usage

credentials_post(
    type,
    username,
    password,
    name = NULL,
    description = NULL,
    remote_host_id = NULL,
    state = NULL,
    system_credential = NULL
)

Arguments

- type: string required.
- username: string required. The username for the credential.
- password: string required. The password for the credential.
- name: string optional. The name identifying the credential.
- remote_host_id: integer optional. The ID of the remote host associated with the credential.
- system_credential: boolean optional.

Value

A list containing the following elements:

- id: integer, The ID of the credential.
- name: string, The name identifying the credential
- type: string, The credential’s type.
- username: string, The username for the credential.
- description: string, A long description of the credential.
- owner: string, The name of the user who this credential belongs to.
- remoteHostId: integer, The ID of the remote host associated with this credential.
remoteHostName: string, The name of the remote host associated with this credential.
createdAt: string, The creation time for this credential.
updatedAt: string, The last modification time for this credential.

credentials_post_authenticate

Authenticate against a remote host

Description
Authenticate against a remote host

Usage
credentials_post_authenticate(url, remote_host_type, username, password)

Arguments
url: string required. The URL to your host.
remote_host_type: string required. The type of remote host. One of: RemoteHostTypes::BSD, RemoteHostTypes::Bitbucket, RemoteHostTypes::Ftp, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, RemoteHostTypes::Salesforce, RemoteHostTypes::Snowflake, and RemoteHostTypes::Van
username: string required. The username for the credential.
password: string required. The password for the credential.

Value
A list containing the following elements:
id: integer, The ID of the credential.
name: string, The name identifying the credential
type: string, The credential’s type.
username: string, The username for the credential.
description: string, A long description of the credential.
owner: string, The name of the user who this credential belongs to.
remoteHostId: integer, The ID of the remote host associated with this credential.
remoteHostName: string, The name of the remote host associated with this credential.
createdAt: string, The creation time for this credential.
updatedAt: string, The last modification time for this credential.
credentials_post_temporary

Generate a temporary credential for accessing S3

Description

Generate a temporary credential for accessing S3

Usage

credentials_post_temporary(id, duration = NULL)

Arguments

id
integer required. The ID of the credential.
duration
integer optional. The number of seconds the temporary credential should be valid. Defaults to 15 minutes. Must not be less than 15 minutes or greater than 36 hours.

Value

A list containing the following elements:

accessKey
string, The identifier of the credential.
secretAccessKey
string, The secret part of the credential.
sessionToken
string, The session token identifier.

credentials_put

Update an existing credential

Description

Update an existing credential

Usage

credentials_put(
  id,
  type,
  username,
  password,
  name = NULL,
  description = NULL,
  remote_host_id = NULL,
  state = NULL,
  system_credential = NULL
)
credentials_put_shares_groups

**Arguments**

- **id**: integer required. The ID of the credential.
- **type**: string required.
- **username**: string required. The username for the credential.
- **password**: string required. The password for the credential.
- **name**: string optional. The name identifying the credential.
- **description**: string optional. A long description of the credential.
- **remote_host_id**: integer optional. The ID of the remote host associated with the credential.
- **state**: string optional. The U.S. state for the credential. Only for VAN credentials.
- **system_credential**: boolean optional.

**Value**

A list containing the following elements:

- **id**: integer, The ID of the credential.
- **name**: string, The name identifying the credential.
- **type**: string, The credential’s type.
- **username**: string, The username for the credential.
- **description**: string, A long description of the credential.
- **owner**: string, The name of the user who this credential belongs to.
- **remoteHostId**: integer, The ID of the remote host associated with this credential.
- **remoteHostName**: string, The name of the remote host associated with this credential.
- **state**: string, The U.S. state for the credential. Only for VAN credentials.
- **createdAt**: string, The creation time for this credential.
- **updatedAt**: string, The last modification time for this credential.

---

credentials_put_shares_groups

*Set the permissions groups has on this object*

**Description**

Set the permissions groups has on this object

**Usage**

credentials_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
credentials_put_shares_users

Arguments

- id: integer required. The ID of the resource that is shared.
- group_ids: array required. An array of one or more group IDs.
- permission_level: string required. Options are: "read", "write", or "manage".
- share_email_body: string optional. Custom body text for e-mail sent on a share.
- send_shared_email: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- readers: list, A list containing the following elements:
  - users array,
  - groups array,
- writers: list, A list containing the following elements:
  - users array,
  - groups array,
- owners: list, A list containing the following elements:
  - users array,
  - groups array,
- totalUserShares: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

credentials_put_shares_users

*Set the permissions users have on this object*

Description

Set the permissions users have on this object

Usage

```python
credentials_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>user_ids</td>
<td>array required. An array of one or more user IDs.</td>
</tr>
<tr>
<td>permission_level</td>
<td>string required. Options are: &quot;read&quot;, &quot;write&quot;, or &quot;manage&quot;.</td>
</tr>
<tr>
<td>share_email_body</td>
<td>string optional. Custom body text for e-mail sent on a share.</td>
</tr>
<tr>
<td>send_shared_email</td>
<td>boolean optional. Send email to the recipients of a share.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

`databases_delete_whitelist_ips`

*Remove a whitelisted IP address*

**Description**

Remove a whitelisted IP address

**Usage**

`databases_delete_whitelist_ips(id, whitelisted_ip_id)`
**databases_get**

*Show database information*

**Arguments**

- id: integer required. The ID of the database this rule is applied to.
- whitelisted_ip_id: integer required. The ID of this whitelisted IP address.

**Value**

An empty HTTP response

---

**databases_get_whitelist_ips**

*View details about a whitelisted IP*

**Description**

View details about a whitelisted IP

**Usage**

```python
databases_get_whitelist_ips(id, whitelisted_ip_id)
```

**Arguments**

- id: integer required. The ID for the database.

**Value**

A list containing the following elements:

- id: integer, The ID for the database.
- name: string, The name of the database.
- adapter: string, The type of the database.
Arguments

id integer required. The ID of the database this rule is applied to.
whitelisted_ip_id integer required. The ID of this whitelisted IP address.

Value

A list containing the following elements:

id integer, The ID of this whitelisted IP address.
remoteHostId integer, The ID of the database this rule is applied to.
securityGroupId string, The ID of the security group this rule is applied to.
subnetMask string, The subnet mask that is allowed by this rule.
authorizedBy string, The user who authorized this rule.
isActive boolean, True if the rule is applied, false if it has been revoked.
createdAt string, The time this rule was created.
updatedAt string, The time this rule was last updated.

---

### databases_list

*List databases*

**Description**

List databases

**Usage**

`databases_list()`

**Value**

An array containing the following fields:

id integer, The ID for the database.
name string, The name of the database.
adapter string, The type of the database.
databases_list_schemas

List schemas in this database

Description

List schemas in this database

Usage

databases_list_schemas(id)

Arguments

id    integer required. The ID of the database.

Value

An array containing the following fields:

schema    string, The name of a schema.

---

databases_list_tables

List tables in the specified database, deprecated use "GET /tables" instead

Description

List tables in the specified database, deprecated use "GET /tables" instead

Usage

databases_list_tables(
    id,
    name = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
Arguments

id integer required. The ID of the database.

name string optional. If specified, will be used to filter the tables returned. Substring matching is supported (e.g., "name=table" will return both "table1" and "my table").

limit integer optional. Number of results to return. Defaults to 200. Maximum allowed is 1000.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to name. Must be one of: name.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

id integer, The ID of the table.

databaseId integer, The ID of the database.

schema string, The name of the schema containing the table.

name string, Name of the table.

description string, The description of the table, as specified by the table owner

isView boolean, True if this table represents a view. False if it represents a regular table.

rowCount integer, The number of rows in the table.

columnCount integer, The number of columns in the table.

sizeMb number, The size of the table in megabytes.

owner string, The database username of the table's owner.

distkey string, The column used as the Amazon Redshift distkey.

sortkeys string, The column used as the Amazon Redshift sortkey.

refreshStatus string, How up-to-date the table's statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.

lastRefresh string, The time of the last statistics refresh.

refreshId string, The ID of the most recent statistics refresh.

lastRun list, A list containing the following elements:

- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.
databases_list_tables_search

List tables in the specified database, deprecated use "GET /tables" instead

Description
List tables in the specified database, deprecated use "GET /tables" instead

Usage

databases_list_tables_search(id, name = NULL, column_name = NULL)

Arguments

id
taginteger required. The ID of the database.

name
string optional. If specified, will be used to filter the tables returned. Substring matching is supported (e.g., "name=table" will return both "table1" and "my table").

column_name
string optional. Search for tables containing a column with the given name.

Value

An array containing the following fields:

id
integer, The ID of the table.
databaseId
integer, The ID of the database.
schema
string, The name of the schema containing the table.
nname
string, Name of the table.
description
string, The description of the table, as specified by the table owner

isView
boolean, True if this table represents a view. False if it represents a regular table.

rowCount
integer, The number of rows in the table.
columnCount
integer, The number of columns in the table.

sizeMb
number, The size of the table in megabytes.

owner
string, The database username of the table’s owner.
distkey
string, The column used as the Amazon Redshift distkey.
sortkeys
string, The column used as the Amazon Redshift sortkey.

refreshStatus
string, How up-to-date the table’s statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.

lastRefresh
string, The time of the last statistics refresh.

refreshId
string, The ID of the most recent statistics refresh.

lastRun
list, A list containing the following elements:
databases_list_whitelist_ips

List whitelisted IPs for the specified database

Description
List whitelisted IPs for the specified database

Usage
databases_list_whitelist_ips(id)

Arguments
id integer required. The ID for the database.

Value
An array containing the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of this whitelisted IP address.</td>
</tr>
<tr>
<td>remoteHostId</td>
<td>integer, The ID of the database this rule is applied to.</td>
</tr>
<tr>
<td>securityGroupId</td>
<td>string, The ID of the security group this rule is applied to.</td>
</tr>
<tr>
<td>subnetMask</td>
<td>string, The subnet mask that is allowed by this rule.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string, The time this rule was created.</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string, The time this rule was last updated.</td>
</tr>
</tbody>
</table>
databases_post_schemas_scan

*Creates and enqueues a schema scanner job*

**Description**

Creates and enqueues a schema scanner job

**Usage**

databases_post_schemas_scan(id, schema, stats_priority = NULL)

**Arguments**

- **id** integer required. The ID of the database.
- **schema** string required. The name of the schema.
- **stats_priority** string optional. When to sync table statistics for every table in the schema. Valid options are the following. Option: 'flag' means to flag stats for the next scheduled run of a full table scan on the database. Option: 'block' means to block this job on stats syncing. Option: 'queue' means to queue a separate job for syncing stats and do not block this job on the queued job. Defaults to 'flag'.

**Value**

A list containing the following elements:

- **jobId** integer. The ID of the job created.
- **runId** integer. The ID of the run created.

---

databases_post_whitelist_ips

*Whitelist an IP address*

**Description**

Whitelist an IP address

**Usage**

databases_post_whitelist_ips(id, subnet_mask)

**Arguments**

- **id** integer required. The ID of the database this rule is applied to.
- **subnet_mask** string required. The subnet mask that is allowed by this rule.
Value

A list containing the following elements:

- **id** integer, The ID of this whitelisted IP address.
- **remoteHostId** integer, The ID of the database this rule is applied to.
- **securityGroupId** string, The ID of the security group this rule is applied to.
- **subnetMask** string, The subnet mask that is allowed by this rule.
- **authorizedBy** string, The user who authorized this rule.
- **isActive** boolean, True if the rule is applied, false if it has been revoked.
- **createdAt** string, The time this rule was created.
- **updatedAt** string, The time this rule was last updated.

---

**default_credential**  
*The current user's default credential.*

---

Description

The current user's default credential.

Usage

default_credential()

Value

credential_id, id of the default credential for the current user.

---

**download_civis**  
*Download a table or a file from the Civis Platform to local disk*

---

Description

download_civis downloads a file based on the type of its first argument, which can be a string "schema.table", a SQL query `sql(...)`, or a numeric file ID.

A table or a query from Redshift will be downloaded onto disk as a CSV. A file from Platform files endpoint will be downloaded as is.

A default database can be set using `options(civis.default_db = "my_database")`. If there is only one database available, this database will automatically be used as the default.
Usage

download_civis(x, ...)

## S3 method for class 'character'
download_civis(
  x,
  database = NULL,
  file,
  overwrite = FALSE,
  progress = FALSE,
  split = FALSE,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  ...
)

## S3 method for class 'sql'
download_civis(
  x,
  database = NULL,
  file,
  overwrite = FALSE,
  progress = FALSE,
  split = FALSE,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  ...
)

## S3 method for class 'numeric'
download_civis(x, file, overwrite = FALSE, progress = FALSE, ...)

Arguments

x "schema.table", sql("query"), or a file id.
... Currently ignored.
database string, The database. If NULL, tries to use the default database.
file string, The file to write to.
overwrite logical, Whether to overwrite the existing file.
progress logical, Whether to display a progress bar.
split logical, Whether to download a big table by splitting it into multiple CSV parts first. See civis_to_multifile_csv for details.
job_name string, Name of the job (default: "Civis Download Via R Client").
hidden logical, Whether the job is hidden on Platform.
verbose logical, Whether to print detailed updates of job status.
Value

The file where the downloaded files or tables are written to. It is returned invisibly.

Methods (by class)

- character: Download a table from Redshift to disk as CSV.
- sql: Download the result of a SQL query from Redshift to disk as CSV.
- numeric: Download a file from Platform files endpoint to disk.

See Also

Other io: `query_civis_file()`, `query_civis()`, `read_civis()`, `write_civis_file()`, `write_civis()`

Examples

```r
## Not run:
# Download all columns in a single table into a CSV
download_civis("schema.table", database = "my_database",
               file = "~/Downloads/my_table.csv")

# Download data from a SQL select statement into a CSV
query <- sql("SELECT * FROM table JOIN other_table USING id WHERE var1 < 23")
download_civis(query, database = "my_database",
               file = "~/Downloads/my_table.csv")

# Set a default database
options(civis.default_db = "my_database")

# Download any file from the files endpoint.
file_id <- write_civis_file(df)
download_civis(file_id, file = "df.rds", progress = TRUE)
df2 <- readRDS("df.rds")
identical(df, df2)
## End(Not run)
```

endpoints_list

List API endpoints

Description

List API endpoints

Usage

endpoints_list()

Value

An empty HTTP response
**enhancements_delete_cass_ncoa_projects**

*Remove a CASS/NCOA Enhancement from a project*

**Description**
Remove a CASS/NCOA Enhancement from a project

**Usage**

```
enhancements_delete_cass_ncoa_projects(id, project_id)
```

**Arguments**

- **id**: integer required. The ID of the CASS/NCOA Enhancement.
- **project_id**: integer required. The ID of the project.

**Value**
An empty HTTP response

---

**enhancements_delete_cass_ncoa_runs**

*Cancel a run*

**Description**
Cancel a run

**Usage**

```
enhancements_delete_cass_ncoa_runs(id, run_id)
```

**Arguments**

- **id**: integer required. The ID of the cass_ncoa.
- **run_id**: integer required. The ID of the run.

**Value**
An empty HTTP response
### enhancements_delete_cass_ncoa_shares_groups

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

```python
enhancements_delete_cass_ncoa_shares_groups(id, group_id)
```

**Arguments**

- `id` (integer required): The ID of the resource that is shared.
- `group_id` (integer required): The ID of the group.

**Value**

An empty HTTP response

---

### enhancements_delete_cass_ncoa_shares_users

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

```python
enhancements_delete_cass_ncoa_shares_users(id, user_id)
```

**Arguments**

- `id` (integer required): The ID of the resource that is shared.
- `user_id` (integer required): The ID of the user.

**Value**

An empty HTTP response
**enhancements_delete_civis_data_match_projects**

Remove a Civis Data Match Enhancement from a project

**Description**

Remove a Civis Data Match Enhancement from a project

**Usage**

```python
enhancements_delete_civis_data_match_projects(id, project_id)
```

**Arguments**

- `id` integer required. The ID of the Civis Data Match Enhancement.
- `project_id` integer required. The ID of the project.

**Value**

An empty HTTP response

**enhancements_delete_civis_data_match_runs**

Cancel a run

**Description**

Cancel a run

**Usage**

```python
enhancements_delete_civis_data_match_runs(id, run_id)
```

**Arguments**

- `id` integer required. The ID of the civis_data_match.
- `run_id` integer required. The ID of the run.

**Value**

An empty HTTP response
enhancements_delete_civis_data_match_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
enhancements_delete_civis_data_match_shares_groups(id, group_id)

Arguments
- id: integer required. The ID of the resource that is shared.
- group_id: integer required. The ID of the group.

Value
An empty HTTP response

enhancements_delete_civis_data_match_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
enhancements_delete_civis_data_match_shares_users(id, user_id)

Arguments
- id: integer required. The ID of the resource that is shared.
- user_id: integer required. The ID of the user.

Value
An empty HTTP response
enoughancements_delete_data_unification_runs

Cancel a run

Description
Cancel a run

Usage
enhancements_delete_data_unification_runs(id, run_id)

Arguments
- **id**: integer required. The ID of the data_unification.
- **run_id**: integer required. The ID of the run.

Value
An empty HTTP response

---

enhancements_delete_geocode_projects

Remove a Geocode Enhancement from a project

Description
Remove a Geocode Enhancement from a project

Usage
enhancements_delete_geocode_projects(id, project_id)

Arguments
- **id**: integer required. The ID of the Geocode Enhancement.
- **project_id**: integer required. The ID of the project.

Value
An empty HTTP response
**enhancements_delete_geocode_runs**  
*Cancel a run*

**Description**

Cancel a run

**Usage**

`enhancements_delete_geocode_runs(id, run_id)`

**Arguments**

- **id**  
  integer required. The ID of the geocode.
- **run_id**  
  integer required. The ID of the run.

**Value**

An empty HTTP response

---

**enhancements_delete_geocode_shares_groups**  
*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

`enhancements_delete_geocode_shares_groups(id, group_id)`

**Arguments**

- **id**  
  integer required. The ID of the resource that is shared.
- **group_id**  
  integer required. The ID of the group.

**Value**

An empty HTTP response
**enhancements_delete_geocode_shares_users**

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

`enhancements_delete_geocode_shares_users(id, user_id)`

**Arguments**

- `id` : integer required. The ID of the resource that is shared.
- `user_id` : integer required. The ID of the user.

**Value**

An empty HTTP response

---

**enhancements_delete_table_deduplication_runs**

*Cancel a run*

**Description**

Cancel a run

**Usage**

`enhancements_delete_table_deduplication_runs(id, run_id)`

**Arguments**

- `id` : integer required. The ID of the table_deduplication.
- `run_id` : integer required. The ID of the run.

**Value**

An empty HTTP response
enhancements_get_cass_ncoa

*Get a CASS/NCOA Enhancement*

**Description**

Get a CASS/NCOA Enhancement

**Usage**

`enhancements_get_cass_ncoa(id)`

**Arguments**

- `id` integer required.

**Value**

A list containing the following elements:

- `id` integer, The ID for the enhancement.
- `name` string, The name of the enhancement job.
- `type` string, The type of the enhancement (e.g. CASS-NCOA)
- `createdAt` string, The time this enhancement was created.
- `updatedAt` string, The time the enhancement was last updated.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.
- `state` string, The status of the enhancement’s last run
- `schedule` list, A list containing the following elements:
  - `scheduled` boolean, If the item is scheduled.
  - `scheduledDays` array, Day based on numeric value starting at 0 for Sunday.
  - `scheduledHours` array, Hours of the day it is scheduled on.
  - `scheduledMinutes` array, Minutes of the day it is scheduled on.
  - `scheduledRunsPerHour` integer, Alternative to scheduled minutes, number of times to run per hour.
- `parentId` integer, Parent ID that triggers this enhancement.
- `notifications` list, A list containing the following elements:
  - `urls` array, URLs to receive a POST request at job completion.
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user's initials.
• online boolean, Whether this user is online.

source list, A list containing the following elements:
• databaseTable object,

destination list, A list containing the following elements:
• databaseTable object,

columnMapping list, A list containing the following elements:
• address1 string, The first address line.
• address2 string, The second address line.
• city string, The city of an address.
• state string, The state of an address.
• zip string, The zip code of an address.
• name string, The full name of the resident at this address. If needed, separate multiple columns with ‘+’, e.g. 'first_name+last_name'
• company string, The name of the company located at this address.

useDefaultColumnMapping boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

performNcoa boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoaCredentialId integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.
outputLevel  

string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

limitingSQL  

string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

archived  

string, The archival status of the requested item(s).

---

**enhancements_get_cass_ncoa_runs**

*Check status of a run*

**Description**

Check status of a run

**Usage**

```
enhancements_get_cass_ncoa_runs(id, run_id)
```

**Arguments**

```
id  

integer required. The ID of the cass_ncoa.

run_id  

integer required. The ID of the run.
```

**Value**

A list containing the following elements:

```
id  

integer, The ID of the run.

cassNcoaId  

integer, The ID of the cass_ncoa.

state  

string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

isCancelRequested  

boolean, True if run cancel requested, else false.

startedAt  

string, The time the last run started at.

finishedAt  

string, The time the last run completed.

error  

string, The error, if any, returned by the run.
**Description**

Get a Civis Data Match Enhancement

**Usage**

```python
enhancements_get_civis_data_match(id)
```

**Arguments**

- `id` integer required.

**Value**

A list containing the following elements:

- `id` integer, The ID for the enhancement.
- `name` string, The name of the enhancement job.
- `type` string, The type of the enhancement (e.g. CASS-NCOA).
- `createdAt` string, The time this enhancement was created.
- `updatedAt` string, The time the enhancement was last updated.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.
- `state` string, The status of the enhancement’s last run.
- `schedule` list, A list containing the following elements:
  - `scheduled` boolean, If the item is scheduled.
  - `scheduledDays` array, Day based on numeric value starting at 0 for Sunday.
  - `scheduledHours` array, Hours of the day it is scheduled on.
  - `scheduledMinutes` array, Minutes of the day it is scheduled on.
  - `scheduledRunsPerHour` integer, Alternative to scheduled minutes, number of times to run per hour.
- `parentId` integer, Parent ID that triggers this enhancement.
- `notifications` list, A list containing the following elements:
  - `urls` array, URLs to receive a POST request at job completion.
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

inputFieldMapping list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

inputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

matchTargetId integer, The ID of the Civis Data match target. See /match_targets for IDs.

outputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

maxMatches integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

archived boolean, Whether the Civis Data Match Job has been archived.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

Description
Check status of a run

Usage
enhancements_get_civis_data_match_runs(id, run_id)

Arguments
id integer required. The ID of the civis_data_match.
run_id integer required. The ID of the run.

Value
A list containing the following elements:

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID of the run.</td>
</tr>
<tr>
<td>civisDataMatchId</td>
<td>integer</td>
<td>The ID of the civis_data_match.</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.</td>
</tr>
<tr>
<td>isCancelRequested</td>
<td>boolean</td>
<td>True if run cancel requested, else false.</td>
</tr>
<tr>
<td>startedAt</td>
<td>string</td>
<td>The time the last run started at.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string</td>
<td>The time the last run completed.</td>
</tr>
<tr>
<td>error</td>
<td>string</td>
<td>The error, if any, returned by the run.</td>
</tr>
</tbody>
</table>
**enhancements_get_data_unification**

*Get a Data Unification Enhancement*

**Description**

Get a Data Unification Enhancement

**Usage**

```
enhancements_get_data_unification(id)
```

**Arguments**

id  integer required.

**Value**

A list containing the following elements:

- **id**  integer, The ID for the enhancement.
- **name**  string, The name of the enhancement job.
- **type**  string, The type of the enhancement (e.g CASS-NCOA)
- **createdAt**  string, The time this enhancement was created.
- **updatedAt**  string, The time the enhancement was last updated.
- **author**  list, A list containing the following elements:
  - **id**  integer, The ID of this user.
  - **name**  string, This user’s name.
  - **username**  string, This user’s username.
  - **initials**  string, This user’s initials.
  - **online**  boolean, Whether this user is online.
- **state**  string, The status of the enhancement’s last run
- **schedule**  list, A list containing the following elements:
  - **scheduled**  boolean, If the item is scheduled.
  - **scheduledDays**  array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours**  array, Hours of the day it is scheduled on.
  - **scheduledMinutes**  array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour**  integer, Alternative to scheduled minutes, number of times to run per hour.
- **parentId**  integer, Parent ID that triggers this enhancement.
- **notifications**  list, A list containing the following elements:
  - **urls**  array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

fieldMapping1 list, The column mapping for Table 1. See /enhancements/field_mapping for list of valid fields.

table1 list, A list containing the following elements:
- databaseName string, The Redshift database name for the table.
- schema string, The schema name for the table.
- table string, The table name.

fieldMapping2 list, The column mapping for Table 2. See /enhancements/field_mapping for list of valid fields.

table2 list, A list containing the following elements:
- databaseName string, The Redshift database name for the table.
- schema string, The schema name for the table.
- table string, The table name.

outputTable list, A list containing the following elements:
- databaseName string, The Redshift database name for the table.
- schema string, The schema name for the table.
- table string, The table name.

maxMatches integer, The maximum number of matches per record in Table 1 to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.
enhancements_get_data_unification_runs

Check status of a run

Description
Check status of a run

Usage
enhancements_get_data_unification_runs(id, run_id)

Arguments
- **id**: integer required. The ID of the data_unification.
- **run_id**: integer required. The ID of the run.

Value
A list containing the following elements:
- **id**: integer, The ID of the run.
- **dataUnificationId**: integer, The ID of the data_unification.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.

enhancements_get_geocode

Get a Geocode Enhancement

Description
Get a Geocode Enhancement

Usage
enhancements_get_geocode(id)
Arguments

id integer required.

Value

A list containing the following elements:

id integer, The ID for the enhancement.
name string, The name of the enhancement job.
type string, The type of the enhancement (e.g. CASS-NCOA)
createdAt string, The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the enhancement’s last run
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number
    of times to run per hour.
parentId integer, Parent ID that triggers this enhancement.
notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successSubject string, Custom subject line for success e-mail.
  • successBody string, Custom body text for success e-mail, written in
    Markdown.
  • successAddresses array, Addresses to notify by e-mail when the job
    completes successfully.
  • successFromName string, Name from which success emails are sent;
    defaults to "Civis."
  • successReplyTo string, Address for replies to success emails; defaults to
    the author of the job.
  • failureAddresses array, Addresses to notify by e-mail when the job
    fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this
    amount of minutes.
enhancements_get_geocode_runs

Check status of a run

Description
Check status of a run

Usage
enhancements_get_geocode_runs(id, run_id)

Arguments

  id   integer required. The ID of the geocode.
  run_id   integer required. The ID of the run.
Value
A list containing the following elements:

- id: integer, The ID of the run.
- geocodeId: integer, The ID of the geocode.
- state: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- isCancelRequested: boolean, True if run cancel requested, else false.
- startedAt: string, The time the last run started at.
- finishedAt: string, The time the last run completed.
- error: string, The error, if any, returned by the run.

Description
Get a Table Deduplication Enhancement

Usage

enhancements_get_table_deduplication(id)

Arguments

id: integer required.

Value
A list containing the following elements:

- id: integer, The ID for the enhancement.
- name: string, The name of the enhancement job.
- type: string, The type of the enhancement (e.g CASS-NCOA)
- createdAt: string, The time this enhancement was created.
- updatedAt: string, The time the enhancement was last updated.
- author: list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
- online boolean, Whether this user is online.

**state** string, The status of the enhancement’s last run

**schedule** list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

**parentId** integer, Parent ID that triggers this enhancement.

**notifications** list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

**runningAs** list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

**inputFieldMapping** list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

**inputTable** list, A list containing the following elements:
- databaseName string, The Redshift database name for the table.
- schema string, The schema name for the table.
- table string, The table name.

**outputTable** list, A list containing the following elements:
- databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

maxMatches integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

---

**enhancements_get_table_deduplication_runs**

*Check status of a run*

**Description**

Check status of a run

**Usage**

```
enhancements_get_table_deduplication_runs(id, run_id)
```

**Arguments**

- **id** integer required. The ID of the table_deduplication.
- **run_id** integer required. The ID of the run.

**Value**

A list containing the following elements:

- **id** integer, The ID of the run.
- **tableDeduplicationId** integer, The ID of the table_deduplication.
- **state** string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.
enhancements_list  List Enhancements

Description

List Enhancements

Usage

    enhancements_list(
        type = NULL,
        author = NULL,
        status = NULL,
        archived = NULL,
        limit = NULL,
        page_num = NULL,
        order = NULL,
        order_dir = NULL
    )

Arguments

type  string optional. If specified, return items of these types.

author  string optional. If specified, return items from this author. Must use user IDs. A comma separated list of IDs is also accepted to return items from multiple authors.

status  string optional. If specified, returns items with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.

archived  string optional. The archival status of the requested item(s).

limit  integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.

page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.

order  string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.

order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id  integer, The ID for the enhancement.

name  string, The name of the enhancement job.
enhancements_list_cass_ncoa_projects

List the projects a CASS/NCOA Enhancement belongs to

Description

List the projects a CASS/NCOA Enhancement belongs to

Usage

enhancements_list_cass_ncoa_projects(id, hidden = NULL)

Arguments

id integer required. The ID of the CASS/NCOA Enhancement.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

id integer, The ID for this project.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).

---

**enhancements_list_cass_ncoa_runs**

*List runs for the given cass_ncoa*

**Description**

List runs for the given cass_ncoa

**Usage**

```
enhancements_list_cass_ncoa_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **id** integer required. The ID of the cass_ncoa.
- **limit** integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

- `id` (integer): The ID of the run.
- `cassNcoaId` (integer): The ID of the cass_ncoa.
- `state` (string): The state of the run, one of 'queued', 'running', 'succeeded', 'failed', or 'cancelled'.
- `isCancelRequested` (boolean): True if run cancel requested, else false.
- `startedAt` (string): The time the last run started at.
- `finishedAt` (string): The time the last run completed.
- `error` (string): The error, if any, returned by the run.

Usage

`enhancements_list_cass_ncoa_runs_logs(id, run_id, last_id = NULL, limit = NULL)`

Arguments

- `id` (integer): Required. The ID of the cass_ncoa.
- `run_id` (integer): Required. The ID of the run.
- `last_id` (integer): Optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- `limit` (integer): Optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

- `id` (integer): The ID of the log.
- `createdAt` (string): The time the log was created.
- `message` (string): The log message.
- `level` (string): The level of the log. One of unknown, fatal, error, warn, info, debug.
enhancements_list_cass_ncoa_runs_outputs

List the outputs for a run

Description

List the outputs for a run

Usage

enhancements_list_cass_ncoa_runs_outputs(
   id,
   run_id,
   limit = NULL,
   page_num = NULL,
   order = NULL,
   order_dir = NULL
)

Arguments

id  integer required. The ID of the job.
run_id  integer required. The ID of the run.
limit  integer optional. Number of results to return. Defaults to its maximum of 50.
page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.
order  string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

objectType  string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId  integer, The ID of the output.
name  string, The name of the output.
link  string, The hypermedia link to the output.
value  string,
**enhancements_list_cass_ncoa_shares**

*List users and groups permissioned on this object*

**Description**

List users and groups permissioned on this object

**Usage**

```python
enhancements_list_cass_ncoa_shares(id)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
enhancements_list_civis_data_match_projects

List the projects a Civis Data Match Enhancement belongs to

Description

List the projects a Civis Data Match Enhancement belongs to

Usage

enhancements_list_civis_data_match_projects(id, hidden = NULL)

Arguments

id integer required. The ID of the Civis Data Match Enhancement.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

id integer, The ID for this project.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).
enhancements_list_civis_data_match_runs

List runs for the given civis_data_match

Description
List runs for the given civis_data_match

Usage
enhancements_list_civis_data_match_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments
id
integer required. The ID of the civis_data_match.

limit
integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.

page_num
integer optional. Page number of the results to return. Defaults to the first page, 1.

order
string optional. The field on which to order the result set. Defaults to id. Must be one of: id.

order_dir
string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value
An array containing the following fields:

id
integer, The ID of the run.

civisDataMatchId
integer, The ID of the civis_data_match.

state
string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

isCancelRequested
boolean, True if run cancel requested, else false.

startedAt
string, The time the last run started at.

finishedAt
string, The time the last run completed.

time
string, The error, if any, returned by the run.
enhancements_list_civis_data_match_runs_logs

Get the logs for a run

Description

Get the logs for a run

Usage

enhancements_list_civis_data_match_runs_logs(
    id,
    run_id,
    last_id = NULL,
    limit = NULL
)

Arguments

id  integer required. The ID of the civis_data_match.
run_id  integer required. The ID of the run.
last_id  integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit  integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

id  integer, The ID of the log.
createdAt  string, The time the log was created.
message  string, The log message.
level  string, The level of the log. One of unknown, fatal, error, warn, info, debug.
List the outputs for a run

Usage

```r
enhancements_list_civis_data_match_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- **id** integer required. The ID of the job.
- **run_id** integer required. The ID of the run.
- **limit** integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **objectType** string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId** integer, The ID of the output.
- **name** string, The name of the output.
- **link** string, The hypermedia link to the output.
- **value** string,
enhancements_list_civis_data_match_shares

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

enhancements_list_civis_data_match_shares(id)

Arguments

id integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
enhancements_list_data_unification_runs

List runs for the given data_unification

Description

List runs for the given data_unification

Usage

```
 enhancements_list_data_unification_runs(
   id,
   limit = NULL,
   page_num = NULL,
   order = NULL,
   order_dir = NULL
)
```

Arguments

- **id**: integer required. The ID of the data_unification.
- **limit**: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id**: integer, The ID of the run.
- **dataUnificationId**: integer, The ID of the data_unification.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.
**enhancements_list_data_unification_runs_logs**

*Get the logs for a run*

**Description**

Get the logs for a run

**Usage**

```python
enhancements_list_data_unification_runs_logs(
    id,
    run_id,
    last_id = NULL,
    limit = NULL
)
```

**Arguments**

- **id**: integer required. The ID of the data_unification.
- **run_id**: integer required. The ID of the run.
- **last_id**: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

- **id**: integer, The ID of the log.
- **createdAt**: string, The time the log was created.
- **message**: string, The log message.
- **level**: string, The level of the log. One of unknown,fatal,error,warn,info,debug.
List the outputs for a run

**Usage**

```
enhancements_list_data_unification_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **id**
  - integer required. The ID of the job.
- **run_id**
  - integer required. The ID of the run.
- **limit**
  - integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**
  - integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**
  - string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- **order_dir**
  - string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **objectType**
  - string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId**
  - integer, The ID of the output.
- **name**
  - string, The name of the output.
- **link**
  - string, The hypermedia link to the output.
- **value**
  - string,
**enhancements_list_field_mapping**

*List the fields in a field mapping for Civis Data Match, Data Unification, and Table Deduplication jobs*

**Description**

List the fields in a field mapping for Civis Data Match, Data Unification, and Table Deduplication jobs

**Usage**

`enhancements_list_field_mapping()`

**Value**

An array containing the following fields:

- **field**: string, The name of the field.
- **description**: string, The description of the field.

**enhancements_list_geocode_projects**

*List the projects a Geocode Enhancement belongs to*

**Description**

List the projects a Geocode Enhancement belongs to

**Usage**

`enhancements_list_geocode_projects(id, hidden = NULL)`

**Arguments**

- **id**: integer required. The ID of the Geocode Enhancement.
- **hidden**: boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
**Value**

An array containing the following fields:

- **id** (integer): The ID for this project.
- **author** (list): A list containing the following elements:
  - **id** (integer): The ID of this user.
  - **name** (string): This user’s name.
  - **username** (string): This user’s username.
  - **initials** (string): This user’s initials.
  - **online** (boolean): Whether this user is online.
- **name** (string): The name of this project.
- **description** (string): A description of the project.
- **users** (array): An array containing the following fields:
  - **id** (integer): The ID of this user.
  - **name** (string): This user’s name.
  - **username** (string): This user’s username.
  - **initials** (string): This user’s initials.
  - **online** (boolean): Whether this user is online.
- **autoShare** (boolean)
- **createdAt** (string)
- **updatedAt** (string)
- **archived** (string): The archival status of the requested item(s).

---

**enhancements_list_geocode_runs**

*List runs for the given geocode*

---

**Description**

List runs for the given geocode

**Usage**

```swift
enhancements_list_geocode_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```
Arguments

- **id**
  - integer required. The ID of the geocode.

- **limit**
  - integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.

- **page_num**
  - integer optional. Page number of the results to return. Defaults to the first page, 1.

- **order**
  - string optional. The field on which to order the result set. Defaults to id. Must be one of: id.

- **order_dir**
  - string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id**
  - integer, The ID of the run.

- **geocodeId**
  - integer, The ID of the geocode.

- **state**
  - string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

- **isCancelRequested**
  - boolean, True if run cancel requested, else false.

- **startedAt**
  - string, The time the last run started at.

- **finishedAt**
  - string, The time the last run completed.

- **error**
  - string, The error, if any, returned by the run.

Description

Get the logs for a run

Usage

```python
enhancements_list_geocode_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

Arguments

- **id**
  - integer required. The ID of the geocode.

- **run_id**
  - integer required. The ID of the run.

- **last_id**
  - integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.

- **limit**
  - integer optional. The maximum number of log messages to return. Default of 10000.
Value

An array containing the following fields:

- **id** (integer): The ID of the log.
- **createdAt** (string): The time the log was created.
- **message** (string): The log message.
- **level** (string): The level of the log. One of unknown, fatal, error, warn, info, debug.

---

**enhancements_list_geocode_runs_outputs**

*List the outputs for a run*

---

Description

List the outputs for a run

Usage

```ruby
enhancements_list_geocode_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- **id** (integer): required. The ID of the job.
- **run_id** (integer): required. The ID of the run.
- **limit** (integer): optional. Number of results to return. Defaults to its maximum of 50.
- **page_num** (integer): optional. Page number of the results to return. Defaults to the first page, 1.
- **order** (string): optional. The field on which to order the result set. Defaults to `created_at`. Must be one of: `created_at`, `id`.
- **order_dir** (string): optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

- **objectType**: string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue.
- **objectId**: integer, The ID of the output.
- **name**: string, The name of the output.
- **link**: string, The hypermedia link to the output.
- **value**: string,

```
enhancements_list_geocode_shares

List users and groups permissioned on this object
```

Description

List users and groups permissioned on this object

Usage

```
enhancements_list_geocode_shares(id)
```

Arguments

- **id**: integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

- **readers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **writers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **owners**: list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
enhancements_list_table_deduplication_runs

List runs for the given table_deduplication

Description
List runs for the given table_deduplication

Usage
enhancements_list_table_deduplication_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments
id       integer required. The ID of the table_deduplication.
limit    integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num integer optional. Page number of the results to return. Defaults to the first page, 1.
order    string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value
An array containing the following fields:

id       integer, The ID of the run.
tableDeduplicationId integer, The ID of the table_deduplication.
state    string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error    string, The error, if any, returned by the run.
enhancements_list_table_deduplication_runs_logs

Get the logs for a run

Description

Get the logs for a run

Usage

```
enhancements_list_table_deduplication_runs_logs(
    id,
    run_id,
    last_id = NULL,
    limit = NULL
)
```

Arguments

- **id**: integer required. The ID of the table_deduplication.
- **run_id**: integer required. The ID of the run.
- **last_id**: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

- **id**: integer, The ID of the log.
- **createdAt**: string, The time the log was created.
- **message**: string, The log message.
- **level**: string, The level of the log. One of unknown, fatal, error, warn, info, debug.
Description

List the outputs for a run

Usage

```
enhancements_list_table_deduplication_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **id**: integer required. The ID of the job.
- **run_id**: integer required. The ID of the run.
- **limit**: integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page.
- **order**: string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **objectType**: string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId**: integer, The ID of the output.
- **name**: string, The name of the output.
- **link**: string, The hypermedia link to the output.
- **value**: string,
enhancements_list_types

List available enhancement types

Description
List available enhancement types

Usage
enhancements_list_types()

Value
An array containing the following fields:

- name (string): The name of the type.

enhancements_patch_cass_ncoa

Update some attributes of this CASS/NCOA Enhancement

Description
Update some attributes of this CASS/NCOA Enhancement

Usage
enhancements_patch_cass_ncoa(
    id,
    name = NULL,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    source = NULL,
    destination = NULL,
    column_mapping = NULL,
    use_default_column_mapping = NULL,
    perform_ncoa = NULL,
    ncoa_credential_id = NULL,
    output_level = NULL,
    limiting_sql = NULL
)
Arguments

id integer required. The ID for the enhancement.

name string optional. The name of the enhancement job.

schedule list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parent_id integer optional. Parent ID that triggers this enhancement.

notifications list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

source list optional. A list containing the following elements:
  • databaseTable object,

destination list optional. A list containing the following elements:
  • databaseTable object,

column_mapping list optional. A list containing the following elements:
  • address1 string, The first address line.
  • address2 string, The second address line.
  • city string, The city of an address.
  • state string, The state of an address.
  • zip string, The zip code of an address.
  • name string, The full name of the resident at this address. If needed, separate multiple columns with ‘+’, e.g. ‘first_name+last_name’
  • company string, The name of the company located at this address.
use_default_column_mapping
boolean optional. Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

perform_ncoa
boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoa_credential_id
integer optional. Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

output_level
string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

limiting_sql
string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

Value
A list containing the following elements:

id
integer, The ID for the enhancement.

name
string, The name of the enhancement job.

type
string, The type of the enhancement (e.g CASS-NCOA)

createdAt
string, The time this enhancement was created.

updatedAt
string, The time the enhancement was last updated.

author
list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state
string, The status of the enhancement’s last run

schedule
list, A list containing the following elements:

• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId
integer, Parent ID that triggers this enhancement.

notifications
list, A list containing the following elements:

• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user's username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

source list, A list containing the following elements:
• databaseTable object,

destination list, A list containing the following elements:
• databaseTable object,

columnMapping list, A list containing the following elements:
• address1 string, The first address line.
• address2 string, The second address line.
• city string, The city of an address.
• state string, The state of an address.
• zip string, The zip code of an address.
• name string, The full name of the resident at this address. If needed, separate multiple columns with ‘+’, e.g. 'first_name+last_name'
• company string, The name of the company located at this address.

useDefaultColumnMapping
boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

performNcoa boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoaCredentialId
integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

outputLevel string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.
limitingSQL string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
archived string, The archival status of the requested item(s).

---

**enhancements_patch_civis_data_match**

*Update some attributes of this Civis Data Match Enhancement*

---

**Description**

Update some attributes of this Civis Data Match Enhancement

**Usage**

```python
enhancements_patch_civis_data_match(
    id,
    name = NULL,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    input_field_mapping = NULL,
    input_table = NULL,
    match_target_id = NULL,
    output_table = NULL,
    max_matches = NULL,
    threshold = NULL,
    archived = NULL
)
```

**Arguments**

- **id** integer required. The ID for the enhancement.
- **name** string optional. The name of the enhancement job.
- **schedule** list optional. A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.
- **parent_id** integer optional. Parent ID that triggers this enhancement.
- **notifications** list optional. A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion
  - **successEmailSubject** string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

input_field_mapping
list optional. The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

input_table
list optional. A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

match_target_id
integer optional. The ID of the Civis Data match target. See /match_targets for IDs.

output_table
list optional. A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

max_matches
integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold
number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

archived
boolean optional. Whether the Civis Data Match Job has been archived.

Value
A list containing the following elements:

id
integer, The ID for the enhancement.

name
string, The name of the enhancement job.

type
string, The type of the enhancement (e.g CASS-NCOA)

createdAt
string, The time this enhancement was created.

updatedAt
string, The time the enhancement was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

state string, The status of the enhancement’s last run

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId integer, Parent ID that triggers this enhancement.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

inputFieldMapping list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

inputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

matchTargetId integer, The ID of the Civis Data match target. See /match_targets for IDs.
outputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

maxMatches integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.
threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.
archived boolean, Whether the Civis Data Match Job has been archived.
lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

---

**enhancements_patch_data_unification**

*Update some attributes of this Data Unification Enhancement*

**Description**

Update some attributes of this Data Unification Enhancement

**Usage**

```python
enhancements_patch_data_unification(
    id,
    name = NULL,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    field_mapping1 = NULL,
    table1 = NULL,
    field_mapping2 = NULL,
    table2 = NULL,
    output_table = NULL,
    max_matches = NULL,
    threshold = NULL
)
```
Arguments

id
integer required. The ID for the enhancement.

name
string optional. The name of the enhancement job.

schedule
list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parent_id
integer optional. Parent ID that triggers this enhancement.

notifications
list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

field_mapping1
list optional. The column mapping for Table 1. See /enhancements/field_mapping for list of valid fields.

table1
list optional. A list containing the following elements:
  • databaseName string, The Redshift database name for the table.
  • schema string, The schema name for the table.
  • table string, The table name.

field_mapping2
list optional. The column mapping for Table 2. See /enhancements/field_mapping for list of valid fields.

table2
list optional. A list containing the following elements:
  • databaseName string, The Redshift database name for the table.
  • schema string, The schema name for the table.
  • table string, The table name.

output_table
list optional. A list containing the following elements:
databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

max_matches integer optional. The maximum number of matches per record in Table 1 to return. Must be between 0 and 10. 0 returns all matches.

threshold number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

Value
A list containing the following elements:

• id integer, The ID for the enhancement.
• name string, The name of the enhancement job.
• type string, The type of the enhancement (e.g. CASS-NCOA).
• createdAt string, The time this enhancement was created.
• updatedAt string, The time the enhancement was last updated.
• author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
• state string, The status of the enhancement’s last run.
• schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
• parentId integer, Parent ID that triggers this enhancement.
• notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion.
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

fieldMapping1 list, The column mapping for Table 1. See /enhancements/field_mapping for list of valid fields.

table1 list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

fieldMapping2 list, The column mapping for Table 2. See /enhancements/field_mapping for list of valid fields.

table2 list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

outputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

maxMatches integer, The maximum number of matches per record in Table 1 to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

---

**enhancements_patch_geocode**

*Update some attributes of this Geocode Enhancement*

**Description**

Update some attributes of this Geocode Enhancement
Usage

```python
enhancements_patch_geocode(
    id,
    name = NULL,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    remote_host_id = NULL,
    credential_id = NULL,
    source_schema_and_table = NULL,
    multipart_key = NULL,
    limiting_sql = NULL,
    target_schema = NULL,
    target_table = NULL,
    country = NULL,
    provider = NULL,
    output_address = NULL
)
```

Arguments

- **id**  
  integer required. The ID for the enhancement.

- **name**  
  string optional. The name of the enhancement job.

- **schedule**  
  list optional. A list containing the following elements:
  ```
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
  ```

- **parent_id**  
  integer optional. Parent ID that triggers this enhancement.

- **notifications**  
  list optional. A list containing the following elements:
  ```
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  ```
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

remote_host_id integer optional. The ID of the remote host.

credential_id integer optional. The ID of the remote host credential.

source_schema_and_table string optional. The source database schema and table.

multipart_key string optional. The source table primary key.

limiting_sql string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

target_schema string optional. The output table schema.

target_table string optional. The output table name.

country string optional. The country of the addresses to be geocoded; either 'us' or 'ca'.

provider string optional. The geocoding provider; one of postgis, nominatim, and geocoder_ca.

output_address boolean optional. Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

Value

A list containing the following elements:

id integer, The ID for the enhancement.

name string, The name of the enhancement job.

type string, The type of the enhancement (e.g CASS-NCOA)

createdAt string, The time this enhancement was created.

updatedAt string, The time the enhancement was last updated.

author list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

state string, The status of the enhancement’s last run

schedule list, A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parentId  integer, Parent ID that triggers this enhancement.

notifications  list, A list containing the following elements:
   - urls array, URLs to receive a POST request at job completion
   - successEmailSubject string, Custom subject line for success e-mail.
   - successEmailBody string, Custom body text for success e-mail, written in Markdown.
   - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
   - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
   - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
   - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
   - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
   - successOn boolean, If success email notifications are on.
   - failureOn boolean, If failure email notifications are on.

runningAs  list, A list containing the following elements:
   - id integer, The ID of this user.
   - name string, This user’s name.
   - username string, This user’s username.
   - initials string, This user’s initials.
   - online boolean, Whether this user is online.

remoteHostId  integer, The ID of the remote host.
credentialId  integer, The ID of the remote host credential.
sourceSchemaAndTable  string, The source database schema and table.
multipartKey  array, The source table primary key.
limitingSQL  string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
targetSchema  string, The output table schema.
targetTable  string, The output table name.
country  string, The country of the addresses to be geocoded; either ‘us’ or ‘ca’.
provider  string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.
outputAddress  boolean, Whether to output the parsed address. Only guaranteed for the ‘postgis’ provider.
archived  string, The archival status of the requested item(s).
enhancements_patch_table_deduplication

*Update some attributes of this Table Deduplication Enhancement*

**Description**

Update some attributes of this Table Deduplication Enhancement

**Usage**

```r
enhancements_patch_table_deduplication(
  id,
  name = NULL,
  schedule = NULL,
  parent_id = NULL,
  notifications = NULL,
  input_field_mapping = NULL,
  input_table = NULL,
  output_table = NULL,
  max_matches = NULL,
  threshold = NULL
)
```

**Arguments**

- `id` integer required. The ID for the enhancement.
- `name` string optional. The name of the enhancement job.
- `schedule` list optional. A list containing the following elements:
  - `scheduled` boolean. If the item is scheduled.
  - `scheduledDays` array. Day based on numeric value starting at 0 for Sunday.
  - `scheduledHours` array. Hours of the day it is scheduled on.
  - `scheduledMinutes` array. Minutes of the day it is scheduled on.
  - `scheduledRunsPerHour` integer. Alternative to scheduled minutes, number of times to run per hour.
- `parent_id` integer optional. Parent ID that triggers this enhancement.
- `notifications` list optional. A list containing the following elements:
  - `urls` array. URLs to receive a POST request at job completion.
  - `successEmailSubject` string. Custom subject line for success e-mail.
  - `successEmailBody` string. Custom body text for success e-mail, written in Markdown.
  - `successEmailAddresses` array. Addresses to notify by e-mail when the job completes successfully.
  - `successEmailFromName` string. Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

input_field_mapping
  list optional. The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

input_table
  list optional. A list containing the following elements:
    • databaseName string, The Redshift database name for the table.
    • schema string, The schema name for the table.
    • table string, The table name.

output_table
  list optional. A list containing the following elements:
    • databaseName string, The Redshift database name for the table.
    • schema string, The schema name for the table.
    • table string, The table name.

max_matches
  integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold
  number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

Value

A list containing the following elements:

id
  integer, The ID for the enhancement.

name
  string, The name of the enhancement job.

type
  string, The type of the enhancement (e.g CASS-NCOA)

createdAt
  string, The time this enhancement was created.

updatedAt
  string, The time the enhancement was last updated.

author
  list, A list containing the following elements:
    • id integer, The ID of this user.
    • name string, This user’s name.
    • username string, This user’s username.
    • initials string, This user’s initials.
    • online boolean, Whether this user is online.

state
  string, The status of the enhancement’s last run

schedule
  list, A list containing the following elements:
    • scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId integer, Parent ID that triggers this enhancement.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

inputFieldMapping list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

inputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

outputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

maxMatches integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.
Create a CASS/NCOA Enhancement

**Description**

Create a CASS/NCOA Enhancement

**Usage**

```python
enhancements_post_cass_ncoa(
    name,
    source,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    destination = NULL,
    column_mapping = NULL,
    use_default_column_mapping = NULL,
    perform_ncoa = NULL,
    ncoa_credential_id = NULL,
    output_level = NULL,
    limiting_sql = NULL
)
```

**Arguments**

- **name** string required. The name of the enhancement job.
- **source** list required. A list containing the following elements:
  - databaseTable object,
- **schedule** list optional. A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- **parent_id** integer optional. Parent ID that triggers this enhancement.
- **notifications** list optional. A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.

• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."

• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.

• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.

• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.

• successOn boolean, If success email notifications are on.

• failureOn boolean, If failure email notifications are on.

destination list optional. A list containing the following elements:

• databaseTable object,

column_mapping list optional. A list containing the following elements:

• address1 string, The first address line.

• address2 string, The second address line.

• city string, The city of an address.

• state string, The state of an address.

• zip string, The zip code of an address.

• name string, The full name of the resident at this address. If needed, separate multiple columns with '+', e.g. 'first_name+last_name'

• company string, The name of the company located at this address.

use_default_column_mapping boolean optional. Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

perform_ncoa boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoa_credential_id integer optional. Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

output_level string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all.' For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

limiting_sql string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

Value

A list containing the following elements:

• id integer, The ID for the enhancement.

• name string, The name of the enhancement job.

• type string, The type of the enhancement (e.g CASS-NCOA)
createdAt string, The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the enhancement’s last run
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parentId integer, Parent ID that triggers this enhancement.
notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.
runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
source list, A list containing the following elements:
• databaseTable object,

destination list, A list containing the following elements:
• databaseTable object,

columnMapping list, A list containing the following elements:
• address1 string, The first address line.
• address2 string, The second address line.
• city string, The city of an address.
• state string, The state of an address.
• zip string, The zip code of an address.
• name string, The full name of the resident at this address. If needed, separate multiple columns with ‘+’, e.g. ‘first_name+last_name’
• company string, The name of the company located at this address.

useDefaultColumnMapping boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

performNcoa boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoaCredentialId integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

outputLevel string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

limitingSQL string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state=’IL’).

archived string, The archival status of the requested item(s).

---

**enhancements_post_cass_ncoa_cancel**

*Cancel a run*

**Description**

Cancel a run

**Usage**

`enhancements_post_cass_ncoa_cancel(id)`

**Arguments**

`id` integer required. The ID of the job.
Value

A list containing the following elements:

- **id**: integer, The ID of the run.
- **state**: string, The state of the run, one of 'queued', 'running' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.

---

**enhancements_post_cass_ncoa_runs**

*Start a run*

---

Description

Start a run

Usage

`enhancements_post_cass_ncoa_runs(id)`

Arguments

- **id**: integer required. The ID of the cass_ncoa.

Value

A list containing the following elements:

- **id**: integer, The ID of the run.
- **cassNcoaId**: integer, The ID of the cass_ncoa.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.
Create a Civis Data Match Enhancement

Usage

```
enhancements_post_civis_data_match(
    name,
    input_field_mapping,
    input_table,
    match_target_id,
    output_table,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    max_matches = NULL,
    threshold = NULL,
    archived = NULL
)
```

Arguments

- **name**: string required. The name of the enhancement job.
- **input_field_mapping**: list required. The column mapping for the input table. See `/enhancements/field_mapping` for list of valid fields.
- **input_table**: list required. A list containing the following elements:
  - `databaseName` string, The Redshift database name for the table.
  - `schema` string, The schema name for the table.
  - `table` string, The table name.
- **match_target_id**: integer required. The ID of the Civis Data match target. See `/match_targets` for IDs.
- **output_table**: list required. A list containing the following elements:
  - `databaseName` string, The Redshift database name for the table.
  - `schema` string, The schema name for the table.
  - `table` string, The table name.
- **schedule**: list optional. A list containing the following elements:
  - `scheduled` boolean, If the item is scheduled.
  - `scheduledDays` array, Day based on numeric value starting at 0 for Sunday.
- `scheduledHours` array, Hours of the day it is scheduled on.
- `scheduledMinutes` array, Minutes of the day it is scheduled on.
- `scheduledRunsPerHour` integer, Alternative to scheduled minutes, number of times to run per hour.

`parent_id` integer optional. Parent ID that triggers this enhancement.

`notifications` list optional. A list containing the following elements:
- `urls` array, URLs to receive a POST request at job completion
- `successEmailSubject` string, Custom subject line for success e-mail.
- `successEmailBody` string, Custom body text for success e-mail, written in Markdown.
- `successEmailAddresses` array, Addresses to notify by e-mail when the job completes successfully.
- `successEmailFromName` string, Name from which success emails are sent; defaults to "Civis."
- `successEmailReplyTo` string, Address for replies to success emails; defaults to the author of the job.
- `failureEmailAddresses` array, Addresses to notify by e-mail when the job fails.
- `stallWarningMinutes` integer, Stall warning emails will be sent after this amount of minutes.
- `successOn` boolean, If success email notifications are on.
- `failureOn` boolean, If failure email notifications are on.

`max_matches` integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

`threshold` number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

`archived` boolean optional. Whether the Civis Data Match Job has been archived.

**Value**

A list containing the following elements:

- `id` integer, The ID for the enhancement.
- `name` string, The name of the enhancement job.
- `type` string, The type of the enhancement (e.g.CASS-NCOA)
- `createdAt` string, The time this enhancement was created.
- `updatedAt` string, The time the enhancement was last updated.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.
state string, The status of the enhancement’s last run
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parentId integer, Parent ID that triggers this enhancement.
notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.
runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
inputFieldMapping list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.
inputTable list, A list containing the following elements:
  • databaseName string, The Redshift database name for the table.
  • schema string, The schema name for the table.
  • table string, The table name.
matchTargetId integer, The ID of the Civis Data match target. See /match_targets for IDs.
outputTable list, A list containing the following elements:
  • databaseName string, The Redshift database name for the table.
 enhancements_post_civis_data_match_cancel

  Cancel a run

Description
Cancel a run

Usage
enhancements_post_civis_data_match_cancel(id)

Arguments
id integer required. The ID of the job.

Value
A list containing the following elements:

  id integer, The ID of the run.
  state string, The state of the run, one of 'queued', 'running' or 'cancelled'.
  isCancelRequested boolean, True if run cancel requested, else false.

maxMatches integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

archived boolean, Whether the Civis Data Match Job has been archived.

lastRun list, A list containing the following elements:

  id integer,
  state string,
  createdAt string, The time that the run was queued.
  startedAt string, The time that the run started.
  finishedAt string, The time that the run completed.
  error string, The error message for this run, if present.
Description

Clone this Civis Data Match Enhancement

Usage

```r
enhancements_post_civis_data_match_clone(
  id,
  clone_schedule = NULL,
  clone_triggers = NULL,
  clone_notifications = NULL
)
```

Arguments

- `id` integer required. The ID for the enhancement.
- `clone_schedule` boolean optional. If true, also copy the schedule to the new enhancement.
- `clone_triggers` boolean optional. If true, also copy the triggers to the new enhancement.
- `clone_notifications` boolean optional. If true, also copy the notifications to the new enhancement.

Value

A list containing the following elements:

- `id` integer, The ID for the enhancement.
- `name` string, The name of the enhancement job.
- `type` string, The type of the enhancement (e.g CASS-NCOA)
- `createdAt` string, The time this enhancement was created.
- `updatedAt` string, The time the enhancement was last updated.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.
- `state` string, The status of the enhancement’s last run
- `schedule` list, A list containing the following elements:
  - `scheduled` boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId integer, Parent ID that triggers this enhancement.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

inputFieldMapping list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

inputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

matchTargetId integer, The ID of the Civis Data match target. See /match_targets for IDs.

outputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.
maxMatches  integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.
threshold  number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.
archived  boolean, Whether the Civis Data Match Job has been archived.
lastRun  list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

---

enhancements_post_civis_data_match_runs

Start a run

Description
Start a run

Usage
enhancements_post_civis_data_match_runs(id)

Arguments
id  integer required. The ID of the civis_data_match.

Value
A list containing the following elements:

id  integer, The ID of the run.
civisDataMatchId  integer, The ID of the civis_data_match.
state  string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested  boolean, True if run cancel requested, else false.
startedAt  string, The time the last run started at.
finishedAt  string, The time the last run completed.
error  string, The error, if any, returned by the run.
Create a Data Unification Enhancement

Description

Create a Data Unification Enhancement

Usage

```
 enhancements_post_data_unification(
    name,
    field_mapping1,
    field_mapping2,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    table1 = NULL,
    table2 = NULL,
    output_table = NULL,
    max_matches = NULL,
    threshold = NULL
)
```

Arguments

- **name**: string required. The name of the enhancement job.
- **field_mapping1**: list required. The column mapping for Table 1. See /enhancements/field_mapping for list of valid fields.
- **field_mapping2**: list required. The column mapping for Table 2. See /enhancements/field_mapping for list of valid fields.
- **schedule**: list optional. A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- **parent_id**: integer optional. Parent ID that triggers this enhancement.
- **notifications**: list optional. A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

**table1** list optional. A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

**table2** list optional. A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

**output_table** list optional. A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

**max_matches** integer optional. The maximum number of matches per record in Table 1 to return. Must be between 0 and 10. 0 returns all matches.

**threshold** number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

**Value**

A list containing the following elements:

• **id** integer, The ID for the enhancement.
• **name** string, The name of the enhancement job.
• **type** string, The type of the enhancement (e.g CASS-NCOA)
• **createdAt** string, The time this enhancement was created.
• **updatedAt** string, The time the enhancement was last updated.
• **author** list, A list containing the following elements:
  • **id** integer, The ID of this user.
  • **name** string, This user’s name.
  • **username** string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state string, The status of the enhancement’s last run

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId integer, Parent ID that triggers this enhancement.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

fieldMapping1 list, The column mapping for Table 1. See /enhancements/field_mapping for list of valid fields.

table1 list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

fieldMapping2 list, The column mapping for Table 2. See /enhancements/field_mapping for list of valid fields.
enrichments\_post\_data\_unification\_cancel

<table>
<thead>
<tr>
<th>Table 2</th>
<th>A list containing the following elements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• databaseName string, The Redshift database name for the table.</td>
<td></td>
</tr>
<tr>
<td>• schema string, The schema name for the table.</td>
<td></td>
</tr>
<tr>
<td>• table string, The table name.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>OutputTable</th>
<th>A list containing the following elements:</th>
</tr>
</thead>
<tbody>
<tr>
<td>• databaseName string, The Redshift database name for the table.</td>
<td></td>
</tr>
<tr>
<td>• schema string, The schema name for the table.</td>
<td></td>
</tr>
<tr>
<td>• table string, The table name.</td>
<td></td>
</tr>
</tbody>
</table>

| maxMatches | integer, The maximum number of matches per record in Table 1 to return. Must be between 0 and 10. 0 returns all matches. |
| threshold  | number, The score threshold (between 0 and 1). Matches below this threshold will not be returned. |

---

**enhancements\_post\_data\_unification\_cancel**

*Cancel a run*

**Description**

Cancel a run

**Usage**

enhancements\_post\_data\_unification\_cancel(id)

**Arguments**

id  
integer required. The ID of the job.

**Value**

A list containing the following elements:

id  
integer, The ID of the run.

state  
string, The state of the run, one of `queued`, `running` or `cancelled`.

isCancelRequested  
boolean, True if run cancel requested, else false.
enhancements_post_data_unification_runs

Start a run

Description

Start a run

Usage

enhancements_post_data_unification_runs(id)

Arguments

id
type: integer required. The ID of the data_unification.

Value

A list containing the following elements:

- **id**: integer, The ID of the run.
- **dataUnificationId**: integer, The ID of the data_unification.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.

enhancements_post_geocode

Create a Geocode Enhancement

Description

Create a Geocode Enhancement
Usage

```bash
enhancements_post_geocode(
    name,
    remote_host_id,
    credential_id,
    source_schema_and_table,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    multipart_key = NULL,
    limiting_sql = NULL,
    target_schema = NULL,
    target_table = NULL,
    country = NULL,
    provider = NULL,
    output_address = NULL
)
```

Arguments

- **name**: string required. The name of the enhancement job.
- **remote_host_id**: integer required. The ID of the remote host.
- **credential_id**: integer required. The ID of the remote host credential.
- **source_schema_and_table**: string required. The source database schema and table.
- **schedule**: list optional. A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.
- **parent_id**: integer optional. Parent ID that triggers this enhancement.
- **notifications**: list optional. A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion
  - **successEmailSubject** string, Custom subject line for success e-mail.
  - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
  - **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis."
  - **successEmailReplyTo** string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

multipart_key array optional. The source table primary key.
limiting_sql string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
target_schema string optional. The output table schema.
target_table string optional. The output table name.
country string optional. The country of the addresses to be geocoded; either 'us' or 'ca'.
provider string optional. The geocoding provider; one of postgis, nominatim, and geocoder_ca.
output_address boolean optional. Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

Value

A list containing the following elements:

- id integer, The ID for the enhancement.
- name string, The name of the enhancement job.
- type string, The type of the enhancement (e.g CASS-NCOA)
- createdAt string, The time this enhancement was created.
- updatedAt string, The time the enhancement was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user's name.
  - username string, This user's username.
  - initials string, This user's initials.
  - online boolean, Whether this user is online.
- state string, The status of the enhancement’s last run
- schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- parentId integer, Parent ID that triggers this enhancement.
- notifications list, A list containing the following elements:
Enhancements Post Geocode

- `urls` array, URLs to receive a POST request at job completion
- `successEmailSubject` string, Custom subject line for success e-mail.
- `successEmailBody` string, Custom body text for success e-mail, written in markdown.
- `successEmailAddresses` array, Addresses to notify by e-mail when the job completes successfully.
- `successEmailFromName` string, Name from which success emails are sent; defaults to "Civis."
- `successEmailReplyTo` string, Address for replies to success emails; defaults to the author of the job.
- `failureEmailAddresses` array, Addresses to notify by e-mail when the job fails.
- `stallWarningMinutes` integer, Stall warning emails will be sent after this amount of minutes.
- `successOn` boolean, If success email notifications are on.
- `failureOn` boolean, If failure email notifications are on.

`runningAs` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user's name.
  - `username` string, This user's username.
  - `initials` string, This user's initials.
  - `online` boolean, Whether this user is online.

`remoteHostId` integer, The ID of the remote host.

`credentialId` integer, The ID of the remote host credential.

`sourceSchemaAndTable` string, The source database schema and table.

`multipartKey` array, The source table primary key.

`limitingSQL` string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

`targetSchema` string, The output table schema.

`targetTable` string, The output table name.

`country` string, The country of the addresses to be geocoded; either 'us' or 'ca'.

`provider` string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.

`outputAddress` boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

`archived` string, The archival status of the requested item(s).
**enhancements_post_geocode_cancel**

*Cancel a run*

**Description**

Cancel a run

**Usage**

`enhancements_post_geocode_cancel(id)`

**Arguments**

- **id** integer required. The ID of the job.

**Value**

A list containing the following elements:

- **id** integer, The ID of the run.
- **state** string, The state of the run, one of 'queued', 'running' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.

---

**enhancements_post_geocode_runs**

*Start a run*

**Description**

Start a run

**Usage**

`enhancements_post_geocode_runs(id)`

**Arguments**

- **id** integer required. The ID of the geocode.
Value

A list containing the following elements:

- **id** integer, The ID of the run.
- **geocodeId** integer, The ID of the geocode.
- **state** string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.

---

Create a Table Deduplication Enhancement

Usage

```javascript
enhancements_post_table_deduplication(
    name,
    input_field_mapping,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    input_table = NULL,
    output_table = NULL,
    max_matches = NULL,
    threshold = NULL
)
```

Arguments

- **name** string required. The name of the enhancement job.
- **input_field_mapping** list required. The column mapping for the input table. See `/enhancements/field_mapping` for list of valid fields.
- **schedule** list optional. A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parent_id integer optional. Parent ID that triggers this enhancement.

notifications list optional. A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis,"
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

input_table list optional. A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

output_table list optional. A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

max_matches integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

Value
A list containing the following elements:

id integer, The ID for the enhancement.
name string, The name of the enhancement job.
type string, The type of the enhancement (e.g CASS-NCOA)
createdAt string, The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.

author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

state string, The status of the enhancement’s last run

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId integer, Parent ID that triggers this enhancement.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion.
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

inputFieldMapping list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.
**inputTable** list, A list containing the following elements:
- `databaseName` string, The Redshift database name for the table.
- `schema` string, The schema name for the table.
- `table` string, The table name.

**outputTable** list, A list containing the following elements:
- `databaseName` string, The Redshift database name for the table.
- `schema` string, The schema name for the table.
- `table` string, The table name.

**maxMatches** integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

**threshold** number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

---

**enhancements_post_table_deduplication_cancel**

*Cancel a run*

**Description**

Cancel a run

**Usage**

`enhancements_post_table_deduplication_cancel(id)`

**Arguments**

`id` integer required. The ID of the job.

**Value**

A list containing the following elements:

`id` integer, The ID of the run.

`state` string, The state of the run, one of 'queued', 'running' or 'cancelled'.

`isCancelRequested` boolean, True if run cancel requested, else false.
Description
Start a run

Usage
enhancements_post_table_deduplication_runs(id)

Arguments
id integer required. The ID of the table_deduplication.

Value
A list containing the following elements:
  id integer, The ID of the run.
  tableDeduplicationId integer, The ID of the table_deduplication.
  state string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
  isCancelRequested boolean, True if run cancel requested, else false.
  startedAt string, The time the last run started at.
  finishedAt string, The time the last run completed.
  error string, The error, if any, returned by the run.

Description
Replace all attributes of this CASS/NCOA Enhancement
Usage

enhancements_put_cass_ncoa(
    id,
    name,
    source,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    destination = NULL,
    column_mapping = NULL,
    use_default_column_mapping = NULL,
    perform_ncoa = NULL,
    ncoa_credential_id = NULL,
    output_level = NULL,
    limiting_sql = NULL
)

Arguments

id          integer required. The ID for the enhancement.
name        string required. The name of the enhancement job.
source      list required. A list containing the following elements:
            • databaseTable object,
schedule    list optional. A list containing the following elements:
            • scheduled boolean, If the item is scheduled.
            • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
            • scheduledHours array, Hours of the day it is scheduled on.
            • scheduledMinutes array, Minutes of the day it is scheduled on.
            • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parent_id   integer optional. Parent ID that triggers this enhancement.
notifications list optional. A list containing the following elements:
            • urls array, URLs to receive a POST request at job completion
            • successEmailSubject string, Custom subject line for success e-mail.
            • successEmailBody string, Custom body text for success e-mail, written in Markdown.
            • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
            • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
            • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
            • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

**destination** list optional. A list containing the following elements:
  - databaseTable object,

**column_mapping** list optional. A list containing the following elements:
  - address1 string, The first address line.
  - address2 string, The second address line.
  - city string, The city of an address.
  - state string, The state of an address.
  - zip string, The zip code of an address.
  - name string, The full name of the resident at this address. If needed, separate multiple columns with ‘+’, e.g. ‘first_name+last_name’
  - company string, The name of the company located at this address.

**use_default_column_mapping** boolean optional. Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.

**perform_ncoa** boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.

**ncoa_credential_id** integer optional. Credential to use when performing NCOA updates. Required if ‘performNcoa’ is true.

**output_level** string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of ‘cass’ or ‘all’. For NCOA enhancements, one of ‘cass’, ‘ncoa’, ‘coalesced’ or ‘all’. By default, all fields will be returned.

**limiting_sql** string optional. The limiting SQL for the source table. “WHERE” should be omitted (e.g. state=’IL’).

**Value**

A list containing the following elements:

- **id** integer, The ID for the enhancement.
- **name** string, The name of the enhancement job.
- **type** string, The type of the enhancement (e.g CASS-NCOA)
- **createdAt** string, The time this enhancement was created.
- **updatedAt** string, The time the enhancement was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
• online boolean, Whether this user is online.

**state** string, The status of the enhancement’s last run

**schedule** list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

**parentId** integer, Parent ID that triggers this enhancement.

**notifications** list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

**runningAs** list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

**source** list, A list containing the following elements:
• databaseTable object,

**destination** list, A list containing the following elements:
• databaseTable object,

**columnMapping** list, A list containing the following elements:
• address1 string, The first address line.
• address2 string, The second address line.
• city string, The city of an address.
• state string, The state of an address.
• zip string, The zip code of an address.
• name string, The full name of the resident at this address. If needed, separate multiple columns with ‘+’, e.g. ‘first_name+last_name’
• company string, The name of the company located at this address.
useDefaultColumnMapping
boolean, Defaults to true, where the existing column mapping on the input table will be used. If false, a custom column mapping must be provided.
performNcoa
boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.
ncoaCredentialId
integer, Credential to use when performing NCOA updates. Required if ’performNcoa’ is true.
outputLevel
string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of ‘cass’ or ‘all’. For NCOA enhancements, one of ‘cass’, ‘ncoa’, ‘coalesced’ or ‘all’. By default, all fields will be returned.
limitingSQL
string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
archived
string, The archival status of the requested item(s).

 enhancements_put_cass_ncoa_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
enhancements_put_cass_ncoa_archive(id, status)

Arguments
id
integer required. The ID of the object.
status
boolean required. The desired archived status of the object.

Value
A list containing the following elements:

id
integer, The ID for the enhancement.
name
string, The name of the enhancement job.
type
string, The type of the enhancement (e.g CASS-NCOA)
createdAt string, The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the enhancement’s last run
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number
    of times to run per hour.
parentId integer, Parent ID that triggers this enhancement.
notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in
    Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job
    completes successfully.
  • successEmailFromName string, Name from which success emails are sent;
    defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults
    to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job
    fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this
    amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.
runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
source list, A list containing the following elements:
**enhancements_put_cass_ncoa_projects**

Add a CASS/NCOA Enhancement to a project

**Description**
Add a CASS/NCOA Enhancement to a project

**Usage**

`enhancements_put_cass_ncoa_projects(id, project_id)`

**Arguments**

- **id** integer required. The ID of the CASS/NCOA Enhancement.
- **project_id** integer required. The ID of the project.
Value

An empty HTTP response

Description

Set the permissions groups has on this object

Usage

```
enhancements_put_cass_ncoaSharesGroups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
• groups array,

**totalUserShares**
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

**totalGroupShares**
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**enhancements_put_cass_ncoa_shares_users**

*Set the permissions users have on this object*

---

**Description**
Set the permissions users have on this object

**Usage**

```python
enhancements_put_cass_ncoa_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

**Value**
A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
enhancements_put_civis_data_match

Replace all attributes of this Civis Data Match Enhancement

Description
Replace all attributes of this Civis Data Match Enhancement

Usage

enhancements_put_civis_data_match(
    id,
    name,
    input_field_mapping,
    input_table,
    match_target_id,
    output_table,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    max_matches = NULL,
    threshold = NULL,
    archived = NULL
)

Arguments

id integer required. The ID for the enhancement.
name string required. The name of the enhancement job.
input_field_mapping list required. The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.
input_table list required. A list containing the following elements:

• users array,
• groups array,
owners list, A list containing the following elements:
• users array,
• groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Replace all attributes of this Civis Data Match Enhancement
**match_target_id**
integer required. The ID of the Civis Data match target. See /match_targets for IDs.

**output_table**
list required. A list containing the following elements:
- databaseName string, The Redshift database name for the table.
- schema string, The schema name for the table.
- table string, The table name.

**schedule**
list optional. A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

**parent_id**
integer optional. Parent ID that triggers this enhancement.

**notifications**
list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

**max_matches**
integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

**threshold**
number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

**archived**
boolean optional. Whether the Civis Data Match Job has been archived.
Value

A list containing the following elements:

- **id**
  - integer, The ID for the enhancement.
- **name**
  - string, The name of the enhancement job.
- **type**
  - string, The type of the enhancement (e.g CASS-NCOA)
- **createdAt**
  - string, The time this enhancement was created.
- **updatedAt**
  - string, The time the enhancement was last updated.
- **author**
  - list, A list containing the following elements:
    - **id**
      - integer, The ID of this user.
    - **name**
      - string, This user’s name.
    - **username**
      - string, This user’s username.
    - **initials**
      - string, This user’s initials.
    - **online**
      - boolean, Whether this user is online.
- **state**
  - string, The status of the enhancement’s last run
- **schedule**
  - list, A list containing the following elements:
    - **scheduled**
      - boolean, If the item is scheduled.
    - **scheduledDays**
      - array, Day based on numeric value starting at 0 for Sunday.
    - **scheduledHours**
      - array, Hours of the day it is scheduled on.
    - **scheduledMinutes**
      - array, Minutes of the day it is scheduled on.
    - **scheduledRunsPerHour**
      - integer, Alternative to scheduled minutes, number of times to run per hour.
- **parentId**
  - integer, Parent ID that triggers this enhancement.
- **notifications**
  - list, A list containing the following elements:
    - **urls**
      - array, URLs to receive a POST request at job completion
    - **successEmailSubject**
      - string, Custom subject line for success e-mail.
    - **successEmailBody**
      - string, Custom body text for success e-mail, written in Markdown.
    - **successEmailAddresses**
      - array, Addresses to notify by e-mail when the job completes successfully.
    - **successEmailFromName**
      - string, Name from which success emails are sent; defaults to "Civis."
    - **successEmailReplyTo**
      - string, Address for replies to success emails; defaults to the author of the job.
    - **failureEmailAddresses**
      - array, Addresses to notify by e-mail when the job fails.
    - **stallWarningMinutes**
      - integer, Stall warning emails will be sent after this amount of minutes.
    - **successOn**
      - boolean, If success email notifications are on.
    - **failureOn**
      - boolean, If failure email notifications are on.
- **runningAs**
  - list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

inputFieldMapping
list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

inputTable
list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

matchTargetId
integer, The ID of the Civis Data match target. See /match_targets for IDs.

outputTable
list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

maxMatches
integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold
number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

archived
boolean, Whether the Civis Data Match Job has been archived.

lastRun
list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

---

**enhancements_put_civis_data_match_archive**

*Update the archive status of this object*

**Description**

Update the archive status of this object

**Usage**

enhancements_put_civis_data_match_archive(id, status)
**Arguments**

- **id** integer required. The ID of the object.
- **status** boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id** integer, The ID for the enhancement.
- **name** string, The name of the enhancement job.
- **type** string, The type of the enhancement (e.g CASS-NCOA)
- **createdAt** string, The time this enhancement was created.
- **updatedAt** string, The time the enhancement was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The status of the enhancement’s last run
- **schedule** list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.
- **parentId** integer, Parent ID that triggers this enhancement.
- **notifications** list, A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion
  - **successEmailSubject** string, Custom subject line for success e-mail.
  - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
  - **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis,"
  - **successEmailReplyTo** string, Address for replies to success emails; defaults to the author of the job.
  - **failureEmailAddresses** array, Addresses to notify by e-mail when the job fails.
  - **stallWarningMinutes** integer, Stall warning emails will be sent after this amount of minutes.
Add a Civis Data Match Enhancement to a project

**Description**

Add a Civis Data Match Enhancement to a project
**enhancements_put_civis_data_match_shares_groups**

**Usage**

```
enhancements_put_civis_data_match_projects(id, project_id)
```

**Arguments**

- **id**: integer required. The ID of the Civis Data Match Enhancement.
- **project_id**: integer required. The ID of the project.

**Value**

An empty HTTP response

---

**enhancements_put_civis_data_match_shares_groups**

*Set the permissions groups has on this object*

**Description**

Set the permissions groups has on this object

**Usage**

```
enhancements_put_civis_data_match_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **id**: integer required. The ID of the resource that is shared.
- **group_ids**: array required. An array of one or more group IDs.
- **permission_level**: string required. Options are: "read", "write", or "manage".
- **share_email_body**: string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**: boolean optional. Send email to the recipients of a share.
Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**enhancements_put_civis_data_match_shares_users**

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```python
enhancements_put_civis_data_match_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.
Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer. For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

**enhancements_put_data_unification**

*Replace all attributes of this Data Unification Enhancement*

Description

Replace all attributes of this Data Unification Enhancement

Usage

```python
enhancements_put_data_unification(
    id,
    name,
    field_mapping1,
    field_mapping2,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    table1 = NULL,
    table2 = NULL,
    output_table = NULL,
    max_matches = NULL,
    threshold = NULL
)
```
Arguments

id        integer required. The ID for the enhancement.
name      string required. The name of the enhancement job.
field_mapping1 list required. The column mapping for Table 1. See /enhancements/field_mapping for list of valid fields.
field_mapping2 list required. The column mapping for Table 2. See /enhancements/field_mapping for list of valid fields.
schedule  list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parent_id  integer optional. Parent ID that triggers this enhancement.
notifications list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.
table1 list optional. A list containing the following elements:
  • databaseName string, The Redshift database name for the table.
  • schema string, The schema name for the table.
  • table string, The table name.
table2 list optional. A list containing the following elements:
  • databaseName string, The Redshift database name for the table.
  • schema string, The schema name for the table.
  • table string, The table name.
output_table list optional. A list containing the following elements:
- databaseName string, The Redshift database name for the table.
- schema string, The schema name for the table.
- table string, The table name.

**max_matches** integer optional. The maximum number of matches per record in Table 1 to return. Must be between 0 and 10. 0 returns all matches.

**threshold** number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

**Value**

A list containing the following elements:

- **id** integer, The ID for the enhancement.
- **name** string, The name of the enhancement job.
- **type** string, The type of the enhancement (e.g. CASS-NCOA)
- **createdAt** string, The time this enhancement was created.
- **updatedAt** string, The time the enhancement was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The status of the enhancement’s last run
- **schedule** list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.
- **parentId** integer, Parent ID that triggers this enhancement.
- **notifications** list, A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion
  - **successEmailSubject** string, Custom subject line for success e-mail.
  - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
  - **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis."
  - **successEmailReplyTo** string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

fieldMapping1 list, The column mapping for Table 1. See /enhancements/field_mapping for list of valid fields.

table1 list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

fieldMapping2 list, The column mapping for Table 2. See /enhancements/field_mapping for list of valid fields.

table2 list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

outputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

maxMatches integer, The maximum number of matches per record in Table 1 to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.

---

**Description**

Replace all attributes of this Geocode Enhancement
Usage

```
enhancements_put_geocode(
    id,
    name,
    remote_host_id,
    credential_id,
    source_schema_and_table,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    multipart_key = NULL,
    limiting_sql = NULL,
    target_schema = NULL,
    target_table = NULL,
    country = NULL,
    provider = NULL,
    output_address = NULL
)
```

Arguments

- **id**: integer required. The ID for the enhancement.
- **name**: string required. The name of the enhancement job.
- **remote_host_id**: integer required. The ID of the remote host.
- **credential_id**: integer required. The ID of the remote host credential.
- **source_schema_and_table**: string required. The source database schema and table.
- **schedule**: list optional. A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- **parent_id**: integer optional. Parent ID that triggers this enhancement.
- **notifications**: list optional. A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string. Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array. Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer. Stall warning emails will be sent after this amount of minutes.
• successOn boolean. If success email notifications are on.
• failureOn boolean. If failure email notifications are on.

multipart_key array optional. The source table primary key.
limiting_sql string optional. The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
target_schema string optional. The output table schema.
target_table string optional. The output table name.
country string optional. The country of the addresses to be geocoded; either 'us' or 'ca'.
provider string optional. The geocoding provider; one of postgis, nominatim, and geocoder_ca.
output_address boolean optional. Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

Value

A list containing the following elements:

id integer, The ID for the enhancement.
name string, The name of the enhancement job.
type string, The type of the enhancement (e.g CASS-NCOA)
createdAt string, The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the enhancement’s last run
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parentId integer, Parent ID that triggers this enhancement.
notifications list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

remoteHostId integer, The ID of the remote host.

credentialId integer, The ID of the remote host credential.

sourceSchemaAndTable string, The source database schema and table.

multipartKey array, The source table primary key.

limitingSQL string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').

targetSchema string, The output table schema.

targetTable string, The output table name.

country string, The country of the addresses to be geocoded; either ‘us’ or ‘ca’.

provider string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.

outputAddress boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.

archived string, The archival status of the requested item(s).
enhancements_put_geocode_archive

Update the archive status of this object

Description

Update the archive status of this object

Usage

enhancements_put_geocode_archive(id, status)

Arguments

id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value

A list containing the following elements:

id integer, The ID for the enhancement.
name string, The name of the enhancement job.
type string, The type of the enhancement (e.g CASS-NCOA)
createdAt string, The time this enhancement was created.
updatedAt string, The time the enhancement was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the enhancement’s last run
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parentId integer, Parent ID that triggers this enhancement.
notifications list, A list containing the following elements:
enhancements_put_geocode_archive

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

remoteHostId integer, The ID of the remote host.
credentialId integer, The ID of the remote host credential.
sourceSchemaAndTable string, The source database schema and table.
multipartKey array, The source table primary key.
limitingSQL string, The limiting SQL for the source table. "WHERE" should be omitted (e.g. state='IL').
targetSchema string, The output table schema.
targetTable string, The output table name.
country string, The country of the addresses to be geocoded; either 'us' or 'ca'.
provider string, The geocoding provider; one of postgis, nominatim, and geocoder_ca.
outputAddress boolean, Whether to output the parsed address. Only guaranteed for the 'postgis' provider.
archived string, The archival status of the requested item(s).
enhancements_put_geocode_projects

Add a Geocode Enhancement to a project

Description
Add a Geocode Enhancement to a project

Usage
enhancements_put_geocode_projects(id, project_id)

Arguments
id    integer required. The ID of the Geocode Enhancement.
project_id    integer required. The ID of the project.

Value
An empty HTTP response

enhancements_put_geocode_shares_groups

Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage
enhancements_put_geocode_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
**enhancements_put_geocode_shares_users**

**Arguments**

- **id**
  integer required. The ID of the resource that is shared.
- **group_ids**
  array required. An array of one or more group IDs.
- **permission_level**
  string required. Options are: "read", "write", or "manage".
- **share_email_body**
  string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**
  boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers**
  list, A list containing the following elements:
    - users array,
    - groups array,
- **writers**
  list, A list containing the following elements:
    - users array,
    - groups array,
- **owners**
  list, A list containing the following elements:
    - users array,
    - groups array,
- **totalUserShares**
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares**
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

**Description**

Set the permissions users have on this object

**Usage**

```python
enhancements_put_geocode_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

- **id**
  integer required. The ID of the resource that is shared.

- **user_ids**
  array required. An array of one or more user IDs.

- **permission_level**
  string required. Options are: "read", "write", or "manage".

- **share_email_body**
  string optional. Custom body text for e-mail sent on a share.

- **send_shared_email**
  boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**
  list, A list containing the following elements:
    - users array,
    - groups array,

- **writers**
  list, A list containing the following elements:
    - users array,
    - groups array,

- **owners**
  list, A list containing the following elements:
    - users array,
    - groups array,

- **totalUserShares**
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Replace all attributes of this Table Deduplication Enhancement
Usage

```python
enhancements_put_table_deduplication(
    id,
    name,
    input_field_mapping,
    schedule = NULL,
    parent_id = NULL,
    notifications = NULL,
    input_table = NULL,
    output_table = NULL,
    max_matches = NULL,
    threshold = NULL
)
```

Arguments

- **id**: integer required. The ID for the enhancement.
- **name**: string required. The name of the enhancement job.
- **input_field_mapping**: list required. The column mapping for the input table. See `/enhancements/field_mapping` for list of valid fields.
- **schedule**: list optional. A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- **parent_id**: integer optional. Parent ID that triggers this enhancement.
- **notifications**: list optional. A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
enhancements_put_table_deduplication

- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

**input_table** list optional. A list containing the following elements:
- databaseName string, The Redshift database name for the table.
- schema string, The schema name for the table.
- table string, The table name.

**output_table** list optional. A list containing the following elements:
- databaseName string, The Redshift database name for the table.
- schema string, The schema name for the table.
- table string, The table name.

**max_matches** integer optional. The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

**threshold** number optional. The score threshold (between 0 and 1). Matches below this threshold will not be returned.

**Value**

A list containing the following elements:

- **id** integer, The ID for the enhancement.
- **name** string, The name of the enhancement job.
- **type** string, The type of the enhancement (e.g. CASS-NCOA)
- **createdAt** string, The time this enhancement was created.
- **updatedAt** string, The time the enhancement was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The status of the enhancement’s last run
- **schedule** list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.
- **parentId** integer, Parent ID that triggers this enhancement.
- **notifications** list, A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.
unningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user's name.
• username string, This user's username.
• initials string, This user's initials.
• online boolean, Whether this user is online.

inputFieldMapping list, The column mapping for the input table. See /enhancements/field_mapping for list of valid fields.

inputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

outputTable list, A list containing the following elements:
• databaseName string, The Redshift database name for the table.
• schema string, The schema name for the table.
• table string, The table name.

maxMatches integer, The maximum number of matches per record in the input table to return. Must be between 0 and 10. 0 returns all matches.

threshold number, The score threshold (between 0 and 1). Matches below this threshold will not be returned.
exports_list List

Description

List

Usage

```python
exports_list(
    type = NULL,
    author = NULL,
    status = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

type string optional. If specified, return exports of these types. It accepts a comma-separated list, possible values are 'database' and 'gdoc'.

author string optional. If specified, return exports from this author. It accepts a comma-separated list of author ids.

status string optional. If specified, returns export with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.

hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

archived string optional. The archival status of the requested item(s).

limit integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

- **id** integer, The ID for this export.
- **name** string, The name of this export.
- **type** string, The type of export.
- **createdAt** string, The creation time for this export.
- **updatedAt** string, The last modification time for this export.
- **state** string,
- **lastRun** list, A list containing the following elements:
  - **id** integer,
  - **state** string,
  - **createdAt** string, The time that the run was queued.
  - **startedAt** string, The time that the run started.
  - **finishedAt** string, The time that the run completed.
  - **error** string, The error message for this run, if present.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.

---

**feature_flags_delete_groups**

*Deactivate a feature for a group*

---

Description

Deactivate a feature for a group

Usage

```python
feature_flags_delete_groups(flag_name, group_id)
```

Arguments

- **flag_name** string required. The feature flag name.
- **group_id** integer required. Group ID.

Value

An empty HTTP response
feature_flags_delete_users

*Deactivate a feature for a user*

**Description**
Deactivate a feature for a user

**Usage**
```python
feature_flags_delete_users(flag_name, user_id)
```

**Arguments**
- `flag_name` string required. The feature flag name.
- `user_id` integer required. The user ID.

**Value**
An empty HTTP response

---

feature_flags_get

*Show a feature flag*

**Description**
Show a feature flag

**Usage**
```python
feature_flags_get(name)
```

**Arguments**
- `name` string required. The name of the feature flag.

**Value**
A list containing the following elements:
- `name` string, The name of the feature flag
- `groups` array, An array containing the following fields:
  - `id` integer, Group ID
  - `name` string, Group name
  - `slug` string, Group slug
**feature_flags_list**

- users array, Users within the group
  
  **users** array, An array containing the following fields:
  
  - id integer, User ID
  - username string, Username

  **percentage** integer, The target percentage of users who should have this feature flag enabled.

---

**feature_flags_list**  
*List feature flags*

### Description

List feature flags

### Usage

`feature_flags_list()`

### Value

An array containing the following fields:

- **name** string, The name of the feature flag.
- **userCount** integer, The number of users with this feature flag enabled.
- **description** string,
- **team** string,
- **jira** string,
- **added** string,
- **groupCount** integer,
- **percentage** integer, The target percentage of users who should have this feature flag enabled.
- **activeForMe** boolean, Whether the feature flag is active for the current user.
feature_flags_put_groups

*Activate a feature for a group*

**Description**

Activate a feature for a group

**Usage**

`feature_flags_put_groups(flag_name, group_id)`

**Arguments**

- `flag_name`  
  string required. The feature flag name.
- `group_id`  
  integer required. Group ID.

**Value**

A list containing the following elements:

- `name`  
  string, The name of the feature flag.
- `userCount`  
  integer, The number of users with this feature flag enabled.
- `description`  
  string,
- `team`  
  string,
- `jira`  
  string,
- `added`  
  string,
- `groupCount`  
  integer,
- `percentage`  
  integer, The target percentage of users who should have this feature flag enabled.
- `activeForMe`  
  boolean, Whether the feature flag is active for the current user.

feature_flags_put_users

*Activate a feature for a user*

**Description**

Activate a feature for a user

**Usage**

`feature_flags_put_users(flag_name, user_id)`
### fetch_all

Retrieved all results from a paginated endpoint

**Description**

Retrieve all results from a paginated endpoint

**Usage**

```
fetch_all(fn, ...)
```

**Arguments**

- `fn`: The API function to be called.
- `...`: Arguments passed to `fn`.

**Value**

A list with the concatenated results of each page of `fn`.

**See Also**

Other pagination: `fetch_until()`

---

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>flag_name</td>
<td>string</td>
<td>string required. The feature flag name.</td>
</tr>
<tr>
<td>user_id</td>
<td>integer</td>
<td>integer required. The user ID.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

- `name`: string, The name of the feature flag.
- `userCount`: integer, The number of users with this feature flag enabled.
- `description`: string,
- `team`: string,
- `jira`: string,
- `added`: string,
- `groupCount`: integer,
- `percentage`: integer, The target percentage of users who should have this feature flag enabled.
- `activeForMe`: boolean, Whether the feature flag is active for the current user.
Examples

```r
## Not run:
columns <- fetch_all(tables_list_columns, id = 123)
column_names <- columns %>% purrr::map_chr("name")

## End(Not run)
```

---

**fetch_and_generate_client**

_Fetches and generates the client in generated_client.R_

---

**Description**

Fetches and generates the client in generated_client.R

**Usage**

```r
fetch_and_generate_client()
```

**Details**

Skips autogeneration on windows with R < 3.4.0 and if R_CLIENT_DEV == "TRUE". A valid CIVIS_API_KEY must be set.

---

**fetch_logs**

_Fetch job logs from the Civis Platform_

---

**Description**

Fetch job logs from the Civis Platform

**Usage**

```r
fetch_logs(object, limit = 100, ...)
```

**Arguments**

- `object` A civis_api, civis_error, or civis_ml object.
- `limit` The number of log lines to fetch, the default is 100.
- `...` Extra parameters passed to methods, currently unused.

**Value**

A list of log messages with class civis_logs.
Examples

```r
## Not run:
m <- civis_ml_fetch_existing(123)
fetch_logs(m)

import <- write_civis(iris, "scratch.mytest")
fetch_logs(import)

query_run <- query_civis(123)
fetch_logs(query_run)

e <- tryCatch(read_civis("asdf;"), error = function(e) e)
fetch_logs(e)

## End(Not run)
```

fetch_oos_scores

Retrieve out of sample/fold predictions

Description

Retrieve out of sample/fold predictions

Usage

```r
fetch_oos_scores(model, ...)
```

Arguments

- `model` A `civis_ml` model.
- `...` Parameters passed to `read.csv`.

Details

Returns the out of sample (or out of fold) predictions for each observation. For a multiclass model, a data frame is returned with one column of predictions for each class.

Value

A `data.frame` with out of sample/fold predictions for each row of the training data, and containing an additional column with a primary key.

See Also

civis_ml
fetch_output_file_ids  Return output from a civis_script.

Description
Return output from a civis_script.

Usage
fetch_output_file_ids(x, regex = NULL)

fetch_output(x, regex = NULL)

Arguments
x  civis_script
regex  string, regex used to match the run output name.

Details
If the script has no outputs, the results are a list of length is 0.

Value
A named list of run output file ids with names matching regex.

Functions
• fetch_output: Return output of scripts_list_*_runs_outputs matching regex.

See Also
Other script Utils: civis_script(), run_civis(), run_template()
Other script Utils: civis_script(), run_civis(), run_template()

Examples
## Not run:
out <- fetch_output(civis_script(1234))

# Filter output with regex, then read into memory:
ids <- fetch_output_file_ids(civis_script(1234), regex = '.csv')
vals <- lapply(ids, read_civis, using = read.csv)

## End(Not run)
**fetch_predictions**

*Retrieve predictions from a CivisML prediction job*

**Description**

Retrieve predictions from a CivisML prediction job

**Usage**

```r
fetch_predictions(x, ...)```

**Arguments**

- `x`  
  civis_ml_prediction object from `predict.civis_ml`

- `...`  
  arguments passed to `read.csv`

**Details**

Predictions can also be downloaded as a csv directly using `download_civis` (see examples).

**Value**

A data.frame of predictions containing an additional column with a primary key. For a multiclass model, a data frame is returned with one column of predictions for each class.

**Examples**

```r
## Not run:
m <- civis_ml("path/to/file.csv", model_type = "sparse_logistic",
              dependent_variable = "Species")
pred_job <- predict(m, newdata = "path/to/newdata.csv")
yhat <- fetch_predictions(pred_job)

# download instead:
download_civis(pred_job$model_info$output_file_ids, path = "my_predictions.csv")
```

## End(Not run)
fetch_until  

Retrieve some results from a paginated endpoint

Description

fetch_until will retrieve paginated results until a condition is met. This is useful when searching for a particular value or record.

Usage

fetch_until(fn, .until, ...)

Arguments

fn
  The API function to be called.

.until
  A function which returns a boolean value. .until will be called with each item from the API response. When .until returns TRUE iteration will stop and fetch_until will return all responses accumulated so far.

...  
  Arguments passed to fn.

Value

A list with the concatenated results of each page of fn.

See Also

Other pagination: fetch_all()

Examples

```r
## Not run:
columns <- fetch_until(tables_list_columns,
  .until = function(x) x == "voterbase_id")
## End(Not run)
```

files_delete_preprocess_csv

Archive a Preprocess CSV (deprecated, use archiving endpoints instead)

Description

Archive a Preprocess CSV (deprecated, use archiving endpoints instead)
files_delete_preprocess_csv

Usage

files_delete_preprocess_csv(id)

Arguments

id integer required.

Value

An empty HTTP response

files_delete_projects

Remove a File from a project

Usage

files_delete_projects(id, project_id)

Arguments

id integer required. The ID of the File.
project_id integer required. The ID of the project.

Value

An empty HTTP response

files_delete_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

files_delete_shares_groups(id, group_id)
files_get

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_id** integer required. The ID of the group.

**Value**

An empty HTTP response

files_delete_shares_users

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

```
files_delete_shares_users(id, user_id)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **user_id** integer required. The ID of the user.

**Value**

An empty HTTP response

files_get

*Get details about a file*

**Description**

Get details about a file

**Usage**

```
files_get(id, linkExpiresAt = NULL, inline = NULL)
```

**Arguments**

- **id** integer required. The ID of the file.
- **linkExpiresAt** string optional. The date and time the download link will expire. Must be a time between now and 36 hours from now. Defaults to 30 minutes from now.
- **inline** boolean optional. If true, will return a url that can be displayed inline in HTML
Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID of the file.</td>
</tr>
<tr>
<td>name</td>
<td>string</td>
<td>The file name.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string</td>
<td>The date and time the file was created.</td>
</tr>
<tr>
<td>fileSize</td>
<td>integer</td>
<td>The file size.</td>
</tr>
<tr>
<td>expiresAt</td>
<td>string</td>
<td>The date and time the file will expire.</td>
</tr>
<tr>
<td>author</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>downloadUrl</td>
<td>string</td>
<td>A JSON string containing information about the URL of the file.</td>
</tr>
<tr>
<td>fileUrl</td>
<td>string</td>
<td>The URL that may be used to download the file.</td>
</tr>
<tr>
<td>detectedInfo</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• includeHeader boolean, A boolean value indicating whether or not the first row of the file is a header row.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• columnDelimiter string, The column delimiter for the file. One of &quot;comma&quot;, &quot;tab&quot;, or &quot;pipe&quot;.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• compression string, The type of compression of the file. One of &quot;gzip&quot;, or &quot;none&quot;.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• tableColumns array, An array of hashes corresponding to the columns in the file. Each hash should have keys for column &quot;name&quot; and &quot;sql_type&quot;</td>
</tr>
</tbody>
</table>

---

files_get_preprocess_csv

*Get a Preprocess CSV*

Description

Get a Preprocess CSV

Usage

files_get_preprocess_csv(id)

Arguments

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>required.</td>
</tr>
</tbody>
</table>
Value

A list containing the following elements:

- **id** integer, The ID of the job created.
- **fileId** integer, The ID of the file.
- **inPlace** boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
- **detectTableColumns** boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
- **forceCharacterSetConversion** boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
- **includeHeader** boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
- **columnDelimiter** string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
- **hidden** boolean, The hidden status of the item.

files_list_projects

List the projects a File belongs to

Description

List the projects a File belongs to

Usage

files_list_projects(id, hidden = NULL)

Arguments

- **id** integer required. The ID of the File.
- **hidden** boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
Value
An array containing the following fields:

- id integer, The ID for this project.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- name string, The name of this project.
- description string, A description of the project.
- users array, An array containing the following fields:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- autoShare boolean,
- createdAt string,
- updatedAt string,
- archived string, The archival status of the requested item(s).

files_list_shares
List users and groups permissioned on this object

Description
List users and groups permissioned on this object

Usage
files_list_shares(id)

Arguments
id integer required. The ID of the resource that is shared.
Value

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**files_patch_preprocess_csv**

*Update some attributes of this Preprocess CSV*

---

**Description**

Update some attributes of this Preprocess CSV

**Usage**

```r
files_patch_preprocess_csv(
  id,
  file_id = NULL,
  in_place = NULL,
  detect_table_columns = NULL,
  force_character_set_conversion = NULL,
  include_header = NULL,
  column_delimiter = NULL
)
```
Arguments

- **id**: integer required. The ID of the job created.
- **file_id**: integer optional. The ID of the file.
- **in_place**: boolean optional. If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
- **detect_table_columns**: boolean optional. If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
- **force_character_set_conversion**: boolean optional. If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
- **include_header**: boolean optional. A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
- **column_delimiter**: string optional. The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.

Value

A list containing the following elements:

- **id**: integer, The ID of the job created.
- **fileId**: integer, The ID of the file.
- **inPlace**: boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
- **detectTableColumns**: boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
- **forceCharacterSetConversion**: boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
- **includeHeader**: boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
- **columnDelimiter**: string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
- **hidden**: boolean, The hidden status of the item.
files_post

Initiate an upload of a file into the platform

Description

Initiate an upload of a file into the platform

Usage

files_post(name, expires_at = NULL)

Arguments

name
string required. The file name.

expires_at
string optional. The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.

Value

A list containing the following elements:

- name: string, The file name.
- createdAt: string, The date and time the file was created.
- expiresAt: string, The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.
- uploadUrl: string, The URL that may be used to upload a file. To use the upload URL, initiate a POST request to the given URL with the file you wish to import as the "file" form field.
- uploadFields: list, A hash containing the form fields to be included with the POST request.

files_post_multipart

Initiate a multipart upload

Description

Initiate a multipart upload

Usage

files_post_multipart(name, num_parts, expires_at = NULL)
files_post_multipart_complete

Arguments

name  
string required. The file name.

num_parts  
integer required. The number of parts in which the file will be uploaded. This parameter determines the number of presigned URLs that are returned.

expires_at  
string optional. The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.

Value

A list containing the following elements:

id  
integer, The ID of the file.

name  
string, The file name.

createdAt  
string, The date and time the file was created.

fileSize  
integer, The file size.

expiresAt  
string, The date and time the file will expire. If not specified, the file will expire in 30 days. To keep a file indefinitely, specify null.

uploadUrls  
array, An array of URLs that may be used to upload file parts. Use separate PUT requests to complete the part uploads. Links expire after 12 hours.

files_post_multipart_complete

Complete a multipart upload

Description

Complete a multipart upload

Usage

files_post_multipart_complete(id)

Arguments

id  
integer required. The ID of the file.

Value

An empty HTTP response
files_post_preprocess_csv

Create a Preprocess CSV

Description

Create a Preprocess CSV

Usage

files_post_preprocess_csv(
  file_id,
  in_place = NULL,
  detect_table_columns = NULL,
  force_character_set_conversion = NULL,
  include_header = NULL,
  column_delimiter = NULL,
  hidden = NULL
)

Arguments

file_id integer required. The ID of the file.
in_place boolean optional. If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
detect_table_columns boolean optional. If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
f force_character_set_conversion boolean optional. If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
include_header boolean optional. A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
column_delimiter string optional. The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
hidden boolean optional. The hidden status of the item.

Value

A list containing the following elements:
id integer, The ID of the job created.
files_put_preprocess_csv

Replace all attributes of this Preprocess CSV

Description

Replace all attributes of this Preprocess CSV

Usage

files_put_preprocess_csv(
    id,  
    file_id,  
    in_place = NULL,  
    detect_table_columns = NULL,  
    force_character_set_conversion = NULL,  
    include_header = NULL,  
    column_delimiter = NULL
)

Arguments

id
    integer required. The ID of the job created.

file_id
    integer required. The ID of the file.

in_place
    boolean optional. If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
detect_table_columns

boolean optional. If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.

force_character_set_conversion

boolean optional. If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).

include_header

boolean optional. A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.

column_delimiter

string optional. The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.

Value

A list containing the following elements:

id
integer, The ID of the job created.

fileId
integer, The ID of the file.

inPlace
boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.

detectTableColumns

boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.

forceCharacterSetConversion

boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).

includeHeader

boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.

columnDelimiter

string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.

hidden

boolean, The hidden status of the item.

files_put_preprocess_csv_archive

Update the archive status of this object

Description

Update the archive status of this object
Usage

files_put_preprocess_csv_archive(id, status)

Arguments

id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value

A list containing the following elements:

id integer, The ID of the job created.
fileId integer, The ID of the file.
inPlace boolean, If true, the file is cleaned in place. If false, a new file ID is created. Defaults to true.
detectTableColumns boolean, If true, detect the table columns in the file including the sql types. If false, skip table column detection. Defaults to false.
forceCharacterSetConversion boolean, If true, the file will always be converted to UTF-8 and any character that cannot be converted will be discarded. If false, the character set conversion will only run if the detected character set is not compatible with UTF-8 (e.g., UTF-8, ASCII).
includeHeader boolean, A boolean value indicating whether or not the first row of the file is a header row. If not provided, will attempt to auto-detect whether a header row is present.
columnDelimiter string, The column delimiter for the file. One of "comma", "tab", or "pipe". If not provided, the column delimiter will be auto-detected.
hidden boolean, The hidden status of the item.

files_put_projects Add a File to a project

Description

Add a File to a project

Usage

files_put_projects(id, project_id)
files_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

files_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.

group_ids array required. An array of one or more group IDs.

permission_level string required. Options are: "read", "write", or "manage".

share_email_body string optional. Custom body text for e-mail sent on a share.

send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
    • users array,
    • groups array,

writers list, A list containing the following elements:
files_put_shares_users

• users array,
• groups array,

owners list, A list containing the following elements:
• users array,
• groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

files_put_shares_users

Set the permissions users have on this object

Description

Set the permissions users have on this object

Usage

files_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.
Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**generate_client**  
*Generate a client*

---

Description

Generate a client

Usage

generate_client(spec)

Arguments

- **spec** usually from get_spec

Value

A string containing one documented function for each verb at each endpoint.
**get_database_id**

*Return the database id for a given database name*

**Description**

Return the database id for a given database name

**Usage**

```r
get_database_id(database_name)
```

**Arguments**

- `database_name` string, Name of database.

**Value**

- `database_id` integer, id of the matching database.

---

**get_error**

*Get error data from civis_errors*

**Description**

Get error data from civis_errors

**Usage**

```r
get_error(x)
```

**Arguments**

- `x` The error, usually from `tryCatch`

**Value**

A list containing

- `f` The function
- `args` A list of named arguments `f` was called with
- `error` The error message from platform (if any)
- `status` The status
### get_job_type_version

Derive the job type and version from the given alias.

#### Description

Derive the job type and version from the given alias.

#### Usage

```r
get_job_type_version(alias)
```

#### Arguments

- **alias**: A one-length character vector of the CivisML alias

### get_feature_importance

Get model feature importance

#### Description

Get model feature importance

#### Usage

```r
get_feature_importance(model)
```

#### Arguments

- **model**: Object from `civis_ml`

#### Value

A matrix of features and their importance, ranked in descending order of importance
**get_metric**

**Value**

A list containing the job_type and version

---

**get_metric**  
*Get model metrics*

---

**Description**

Get model metrics

**Usage**

```r
get_metric(model, name = NULL)
```

**Arguments**

- `model`: Object from `civis_ml`
- `name`: Name of the metric. If `NULL`, all metrics are returned. Possible metrics are listed in details.

**Details**

The list of possible metrics provided by CivisML is:

Classification:

"accuracy", "confusion_matrix", "p_correct", "pop_incidence_true", "pop_incidence_pred",  
"roc_auc", "log_loss", "brier_score", "roc_curve", "calibration_curve", "deciles", "score_histogram",  
"training_histogram", "oos_score_table".

Regression:

"mad", "rmse", "r_squared", "score_histogram", "training_histogram", "y_yhat_plot",  
"y_yhat_outlier_rows", "oos_score_table"

**Value**

The metric given by name, or all metrics.
get_script_fun

Get a script function matching a job type.

Description
Get a script function matching a job type.

Usage
get_script_fun(job, verb = c("list", "post"), fun_type = c("outputs", "logs"))

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>job</td>
<td>output of jobs_get</td>
</tr>
<tr>
<td>verb</td>
<td>one of &quot;list&quot; or &quot;post&quot;</td>
</tr>
<tr>
<td>fun_type</td>
<td>one of &quot;logs&quot; or &quot;outputs&quot;</td>
</tr>
</tbody>
</table>

Details
container and custom scripts both have the same job type, but can be distinguished by a non-null fromTemplateId.

Value
The correct output or log fetching function (e.g. scripts_list_containers_runs_logs) based on the job type.

get_status

Get the status from results of await

Description
Get the status from results of await

Usage
get_status(response)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>response</td>
<td>the results from await</td>
</tr>
</tbody>
</table>

See Also
await await_all
get_table_id

Return the table id for a given table

Description
Return the table id for a given table

Usage
get_table_id(table_name, database = NULL)

Arguments
- **table_name**: string, Name of table and schema "schema.tablename"
- **database**: string, Name of database where data frame is to be uploaded. If no database is specified, uses options(civis.default_db)

Value
table_id integer, id of the matching table.

See Also
Other tables: refresh_table(), transfer_table()

get_template_ids_all_versions

Get template IDs for all accessible CivisML versions.

Description
Get template IDs for all accessible CivisML versions.

Usage
get_template_ids_all_versions()

Value
A data frame containing the template id, CivisML version, and job type.
---

**get_train_template_id**  *Get training template IDs for the specified CivisML version*

**Description**

Get training template IDs for the specified CivisML version

**Usage**

```
get_train_template_id(civisml_version = "prod")
```

**Arguments**

- **civisml_version**
  
  A one-length character vector of the CivisML version

**Value**

The template ID for training

---

**git_repos_delete**  *Remove the bookmark on a git repository*

**Description**

Remove the bookmark on a git repository

**Usage**

```
git_repos_delete(id)
```

**Arguments**

- **id**
  
  integer required. The ID for this git repository.

**Value**

An empty HTTP response
git_repos_get  

**Get a bookmarked git repository**

**Description**

Get a bookmarked git repository

**Usage**

```
git_repos_get(id)
```

**Arguments**

- **id**
  - integer, required. The ID for this git repository.

**Value**

A list containing the following elements:

- **id**
  - integer, The ID for this git repository.
- **repoUrl**
  - string, The URL for this git repository.
- **createdAt**
  - string,
- **updatedAt**
  - string,

----------

**git_repos_list**  

**List bookmarked git repositories**

**Description**

List bookmarked git repositories

**Usage**

```
git_repos_list(limit = NULL, page_num = NULL, order = NULL, order_dir = NULL)
```

**Arguments**

- **limit**
  - integer, optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num**
  - integer, optional. Page number of the results to return. Defaults to the first page, 1.
- **order**
  - string, optional. The field on which to order the result set. Defaults to repo_url. Must be one of: repo_url, created_at.
- **order_dir**
  - string, optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.
Value

An array containing the following fields:

- **id** integer, The ID for this git repository.
- **repoUrl** string, The URL for this git repository.
- **createdAt** string,
- **updatedAt** string,

**Description**

Bookmark a git repository

**Usage**

```
git_repos_post(repo_url)
```

**Arguments**

- **repo_url** string required. The URL for this git repository.

**Value**

A list containing the following elements:

- **id** integer, The ID for this git repository.
- **repoUrl** string, The URL for this git repository.
- **createdAt** string,
- **updatedAt** string,
groups_delete

Delete a Group (deprecated)

Description
Delete a Group (deprecated)

Usage
groups_delete(id)

Arguments
id integer required.

Value
An empty HTTP response

groups_delete_members

Remove a user from a group

Description
Remove a user from a group

Usage
groups_delete_members(id, user_id)

Arguments
id integer required. The ID of the group.
user_id integer required. The ID of the user.

Value
An empty HTTP response
groups_delete_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage

groups_delete_shares_groups(id, group_id)

Arguments

id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value
An empty HTTP response

---

groups_delete_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage

groups_delete_shares_users(id, user_id)

Arguments

id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response
Description

Get a Group

Usage

groups_get(id)

Arguments

id integer required.

Value

A list containing the following elements:

id integer, The ID of this group.
name string, This group’s name.
createdAt string, The date and time when this group was created.
description string, The description of the group.
slug string, The slug for this group.
organizationId integer, The ID of the organization this group belongs to.
organizationName string, The name of the organization this group belongs to.
memberCount integer, The total number of members in this group.
members array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
groups_list

List Groups

Description

List Groups

Usage

```r
groups_list(  
    query = NULL,  
    permission = NULL,  
    include_members = NULL,  
    limit = NULL,  
    page_num = NULL,  
    order = NULL,  
    order_dir = NULL  
)
```

Arguments

- **query** string optional. If specified, it will filter the groups returned. Infix matching is supported (e.g., "query=group" will return "group" and "group of people" and "my group" and "my group of people").
- **permission** string optional. A permissions string, one of "read", "write", or "manage". Lists only groups for which the current user has that permission.
- **include_members** boolean optional. Show members of the group.
- **limit** integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to name. Must be one of: name, created_at.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

- **id** integer, The ID of this group.
- **name** string, This group’s name.
- **createdAt** string, The date and time when this group was created.
- **slug** string, The slug for this group.
organizationId  integer, The ID of the organization this group belongs to.
organizationName
string, The name of the organization this group belongs to.
memberCount  integer, The total number of members in this group.
members
array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

(groups_list_shares)
List users and groups permissioned on this object

Description
List users and groups permissioned on this object

Usage
(groups_list_shares(id))

Arguments
id  integer required. The ID of the resource that is shared.

Value
An array containing the following fields:
readers  list, A list containing the following elements:
  • users array,
  • groups array,
writers  list, A list containing the following elements:
  • users array,
  • groups array,
owners  list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
groups_patch  
Update some attributes of this Group

Description
Update some attributes of this Group

Usage

```r
groups_patch(id, name = NULL, description = NULL)
```

Arguments

- **id**
  - integer required. The ID of this group.
- **name**
  - string optional. This group’s name.
- **description**
  - string optional. The description of the group.

Value

A list containing the following elements:

- **id**
  - integer, The ID of this group.
- **name**
  - string, This group’s name.
- **createdAt**
  - string, The date and time when this group was created.
- **description**
  - string, The description of the group.
- **slug**
  - string, The slug for this group.
- **organizationId**
  - integer, The ID of the organization this group belongs to.
- **organizationName**
  - string, The name of the organization this group belongs to.
- **memberCount**
  - integer, The total number of members in this group.
- **members**
  - array, An array containing the following fields:
    - **id**
      - integer, The ID of this user.
    - **name**
      - string, This user’s name.
    - **username**
      - string, This user’s username.
    - **initials**
      - string, This user’s initials.
    - **online**
      - boolean, Whether this user is online.
Create a Group

Usage

```r
groups_post(name, description = NULL)
```

Arguments

- `name` string required. This group’s name.
- `description` string optional. The description of the group.

Value

A list containing the following elements:

- `id` integer, The ID of this group.
- `name` string, This group’s name.
- `createdAt` string, The date and time when this group was created.
- `description` string, The description of the group.
- `slug` string, The slug for this group.
- `organizationId` integer, The ID of the organization this group belongs to.
- `organizationName` string, The name of the organization this group belongs to.
- `memberCount` integer, The total number of members in this group.
- `members` array, An array containing the following fields:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.
groups_put  
Replace all attributes of this Group

Description

Replace all attributes of this Group

Usage

`groups_put(id, name, description = NULL)`

Arguments

- **id**  
  integer required. The ID of this group.

- **name**  
  string required. This group’s name.

- **description**  
  string optional. The description of the group.

Value

A list containing the following elements:

- **id**  
  integer, The ID of this group.

- **name**  
  string, This group’s name.

- **createdAt**  
  string, The date and time when this group was created.

- **description**  
  string, The description of the group.

- **slug**  
  string, The slug for this group.

- **organizationId**  
  integer, The ID of the organization this group belongs to.

- **organizationName**  
  string, The name of the organization this group belongs to.

- **memberCount**  
  integer, The total number of members in this group.

- **members**  
  array, An array containing the following fields:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
Description

Add a user to a group

Usage

groups_put_members(id, user_id)

Arguments

- id: integer required. The ID of the group.
- user_id: integer required. The ID of the user.

Value

A list containing the following elements:

- id: integer, The ID of this group.
- name: string, This group’s name.
- createdAt: string, The date and time when this group was created.
- description: string, The description of the group.
- slug: string, The slug for this group.
- organizationId: integer, The ID of the organization this group belongs to.
- organizationName: string, The name of the organization this group belongs to.
- memberCount: integer, The total number of members in this group.
- members: array, An array containing the following fields:
  - id: integer, The ID of this user.
  - name: string, This user’s name.
  - username: string, This user’s username.
  - initials: string, This user’s initials.
  - online: boolean, Whether this user is online.
groups_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

groups_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
    • users array,
    • groups array,

writers list, A list containing the following elements:
    • users array,
    • groups array,

owners list, A list containing the following elements:
    • users array,
    • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
   integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

groups_put_shares_users
   Set the permissions users have on this object

Description
   Set the permissions users have on this object

Usage
   groups_put_shares_users(
      id,
      user_ids,
      permission_level,
      share_email_body = NULL,
      send_shared_email = NULL
   )

Arguments
   id                  integer required. The ID of the resource that is shared.
   user_ids            array required. An array of one or more user IDs.
   permission_level    string required. Options are: "read", "write", or "manage".
   share_email_body    string optional. Custom body text for e-mail sent on a share.
   send_shared_email   boolean optional. Send email to the recipients of a share.

Value
   A list containing the following elements:
   readers           list, A list containing the following elements:
      • users array,
      • groups array,
   writers           list, A list containing the following elements:
      • users array,
      • groups array,
   owners            list, A list containing the following elements:
      • users array,
- groups array,
  totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
  totalGroupShares  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**hist.civis_ml**

*Plot a histogram of the predicted scores or probabilities for a CivisML object*

---

**Description**

Plot a histogram of the predicted scores or probabilities for a CivisML object

**Usage**

```r
## S3 method for class 'civis_ml'
hist(x, name = NULL, ...)
```

**Arguments**

- `x`  civis_ml object
- `name`  name of the class (for multiclass output)
- `...`  unused.

**Value**

A ggplot2 plot object is returned invisibly.

---

**imports_delete_files_csv**

*Archive a CSV Import (deprecated, use archiving endpoints instead)*

---

**Description**

Archive a CSV Import (deprecated, use archiving endpoints instead)

**Usage**

```r
imports_delete_files_csv(id)
```

**Arguments**

- `id`  integer required.
Value
An empty HTTP response

imports_delete_files_runs
Cancel a run

Description
Cancel a run

Usage
imports_delete_files_runs(id, run_id)

Arguments
id integer required. The ID of the import.
run_id integer required. The ID of the run.

Value
An empty HTTP response

imports_delete_projects
Remove an Import from a project

Description
Remove an Import from a project

Usage
imports_delete_projects(id, project_id)

Arguments
id integer required. The ID of the Import.
project_id integer required. The ID of the project.

Value
An empty HTTP response
Revoke the permissions a group has on this object

**Description**

Revoke the permissions a group has on this object

**Usage**

imports_delete_shares_groups(id, group_id)

**Arguments**

- **id**: integer required. The ID of the resource that is shared.
- **group_id**: integer required. The ID of the group.

**Value**

An empty HTTP response

---

Revoke the permissions a user has on this object

**Description**

Revoke the permissions a user has on this object

**Usage**

imports_delete_shares_users(id, user_id)

**Arguments**

- **id**: integer required. The ID of the resource that is shared.
- **user_id**: integer required. The ID of the user.

**Value**

An empty HTTP response
**imports_delete_syncs**  
Archive a sync (deprecated, use the /archive endpoint instead)

**Description**  
Archive a sync (deprecated, use the /archive endpoint instead)

**Usage**  
`imports_delete_syncs(id, sync_id)`

**Arguments**

- **id**
  - integer required. The ID of the import to fetch.
- **sync_id**
  - integer required. The ID of the sync to fetch.

**Value**

An empty HTTP response

---

**imports_get**  
Get details about an import

**Description**  
Get details about an import

**Usage**  
`imports_get(id)`

**Arguments**

- **id**
  - integer required. The ID for the import.

**Value**

A list containing the following elements:

- **name**
  - string, The name of the import.
- **syncType**
  - string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
- **source**
  - list, A list containing the following elements:
    - **remoteHostId**
      - integer,
    - **credentialId**
      - integer,
• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.

• name string.

destination list, A list containing the following elements:
• remoteHostId integer,
• credentialId integer,
• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.

• name string.

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

parentId integer, Parent id to trigger this import from
id integer, The ID for the import.
isOutbound boolean,
jobType string, The job type of this import.
Description

Get details about a batch import
Usage

`imports_get_batches(id)`

Arguments

`id` integer required. The ID for the import.

Value

A list containing the following elements:

- `id` integer, The ID for the import.
- `schema` string, The destination schema name. This schema must already exist in Redshift.
- `table` string, The destination table name, without the schema prefix. This table must already exist in Redshift.
- `remoteHostId` integer, The ID of the destination database host.
- `state` string, The state of the run; one of "queued", "running", "succeeded", "failed", or "cancelled".
- `startedAt` string, The time the last run started at.
- `finishedAt` string, The time the last run completed.
- `error` string, The error returned by the run, if any.
- `hidden` boolean, The hidden status of the item.

---

Get a CSV Import

Description

Get a CSV Import

Usage

`imports_get_files_csv(id)`

Arguments

`id` integer required.
**Value**

A list containing the following elements:

- **id** integer, The ID for the import.
- **name** string, The name of the import.
- **source** list, A list containing the following elements:
  - fileIds array, The file ID(s) to import, if importing Civis file(s).
  - storagePaths object,
- **destination** list, A list containing the following elements:
  - schema string, The destination schema name.
  - table string, The destination table name.
  - remoteHostId integer, The ID of the destination database host.
  - credentialId integer, The ID of the credentials for the destination database.
  - primaryKeys array, A list of the primary key column(s) of the destination table. If the destination table does not exist, and the import mode is "upsert", this field is required.
  - lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.
- **firstRowIsHeader** boolean, A boolean value indicating whether or not the first row of the source file is a header row.
- **columnDelimiter** string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
- **escaped** boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.
- **compression** string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".
- **existingTableRows** string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".
- **maxErrors** integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.
- **tableColumns** array, An array containing the following fields:
  - **name** string, The column name.
  - sqlType string, The SQL type of the column.
- **loosenTypes** boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.
- **execution** string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at
which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

```py
redshiftDestinationOptions
list, A list containing the following elements:
    • diststyle string, The diststyle to use for the table. One of "even", "all", or "key".
    • distkey string, Distkey for this table in Redshift
    • sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

hidden
boolean, The hidden status of the item.
```

---

### imports_get_files_runs

**Check status of a run**

**Description**

Check status of a run

**Usage**

```
imports_get_files_runs(id, run_id)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the import.</td>
</tr>
<tr>
<td>run_id</td>
<td>integer required. The ID of the run.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of the run.</td>
</tr>
<tr>
<td>importId</td>
<td>integer, The ID of the import.</td>
</tr>
<tr>
<td>state</td>
<td>string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.</td>
</tr>
<tr>
<td>isCancelRequested</td>
<td>boolean, True if run cancel requested, else false.</td>
</tr>
<tr>
<td>startedAt</td>
<td>string, The time the last run started at.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string, The time the last run completed.</td>
</tr>
<tr>
<td>error</td>
<td>string, The error, if any, returned by the run.</td>
</tr>
</tbody>
</table>
## imports_list

### List Imports

**Description**

List Imports

**Usage**

```
imports_list(
    type = NULL,
    author = NULL,
    destination = NULL,
    source = NULL,
    status = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>type</code></td>
<td>string optional. If specified, return imports of these types. It accepts a comma-separated list, possible values are 'AutoImport', 'DbSync', 'Salesforce', 'GdocImport'.</td>
</tr>
<tr>
<td><code>author</code></td>
<td>string optional. If specified, return imports from this author. It accepts a comma-separated list of author ids.</td>
</tr>
<tr>
<td><code>destination</code></td>
<td>string optional. If specified, returns imports with one of these destinations. It accepts a comma-separated list of remote host ids.</td>
</tr>
<tr>
<td><code>source</code></td>
<td>string optional. If specified, returns imports with one of these sources. It accepts a comma-separated list of remote host ids. 'DbSync' must be specified for 'type'.</td>
</tr>
<tr>
<td><code>status</code></td>
<td>string optional. If specified, returns imports with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.</td>
</tr>
<tr>
<td><code>hidden</code></td>
<td>boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.</td>
</tr>
<tr>
<td><code>archived</code></td>
<td>string optional. The archival status of the requested item(s).</td>
</tr>
<tr>
<td><code>limit</code></td>
<td>integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.</td>
</tr>
<tr>
<td><code>page_num</code></td>
<td>integer optional. Page number of the results to return. Defaults to the first page, 1.</td>
</tr>
</tbody>
</table>
order string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

name string, The name of the import.
syncType string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
source list, A list containing the following elements:
  • remoteHostId integer,
  • credentialId integer,
  • additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  • name string,

destination list, A list containing the following elements:
  • remoteHostId integer,
  • credentialId integer,
  • additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  • name string,

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

id integer, The ID for the import.
isOutbound boolean,
jobType string, The job type of this import.
state string,
createdAt string,
updatedAt string,
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
timeZone string, The time zone of this import.
archived string, The archival status of the requested item(s).

---

**Description**

List batch imports

**Usage**

```r
code
imports_list_batches(
  hidden = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

**Arguments**

- `hidden` boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
- `limit` integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- `page_num` integer optional. Page number of the results to return. Defaults to the first page, 1.
- `order` string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, created_at.
- `order_dir` string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value
An array containing the following fields:

- **id** integer, The ID for the import.
- **schema** string, The destination schema name. This schema must already exist in Redshift.
- **table** string, The destination table name, without the schema prefix. This table must already exist in Redshift.
- **remoteHostId** integer, The ID of the destination database host.
- **state** string, The state of the run; one of "queued", "running", "succeeded", "failed", or "cancelled".
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error returned by the run, if any.

---

**imports_list_files_runs**

*List runs for the given import*

---

Description
List runs for the given import

Usage

```python
imports_list_files_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **id** integer required. The ID of the import.
- **limit** integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

- **id** integer, The ID of the run.
- **importId** integer, The ID of the import.
- **state** string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.

---

**imports_list_files_runs_logs**

*Get the logs for a run*

---

Description

Get the logs for a run

Usage

`imports_list_files_runs_logs(id, run_id, last_id = NULL, limit = NULL)`

Arguments

- **id** integer required. The ID of the import.
- **run_id** integer required. The ID of the run.
- **last_id** integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit** integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

- **id** integer, The ID of the log.
- **createdAt** string, The time the log was created.
- **message** string, The log message.
- **level** string, The level of the log. One of unknown,fatal,error,warn,info,debug.
**imports_list_projects**  *List the projects an Import belongs to*

**Description**

List the projects an Import belongs to

**Usage**

`imports_list_projects(id, hidden = NULL)`

**Arguments**

- **id** integer required. The ID of the Import.
- **hidden** boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

- **id** integer, The ID for this project.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **name** string, The name of this project.
- **description** string, A description of the project.
- **users** array, An array containing the following fields:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **autoShare** boolean,
- **createdAt** string,
- **updatedAt** string,
- **archived** string, The archival status of the requested item(s).
**imports_list_runs**

*Get the run history of this import*

**Description**

Get the run history of this import

**Usage**

`imports_list_runs(id)`

**Arguments**

- **id**: integer required.

**Value**

An array containing the following fields:

- **id**: integer,
- **state**: string,
- **createdAt**: string, The time that the run was queued.
- **startedAt**: string, The time that the run started.
- **finishedAt**: string, The time that the run completed.
- **error**: string, The error message for this run, if present.

---

**imports_list_runs_logs**

*Get the logs for a run*

**Description**

Get the logs for a run

**Usage**

`imports_list_runs_logs(id, run_id, last_id = NULL, limit = NULL)`

**Arguments**

- **id**: integer required. The ID of the import.
- **run_id**: integer required. The ID of the run.
- **last_id**: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.
Value

An array containing the following fields:

- id (integer): The ID of the log.
- createdAt (string): The time the log was created.
- message (string): The log message.
- level (string): The level of the log. One of unknown, fatal, error, warn, info, debug.

---

imports_list_shares  List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

imports_list_shares(id)

Arguments

- id (integer required): The ID of the resource that is shared.

Value

An array containing the following fields:

- readers (list): A list containing the following elements:
  - users array,
  - groups array,
- writers (list): A list containing the following elements:
  - users array,
  - groups array,
- owners (list): A list containing the following elements:
  - users array,
  - groups array,
- totalUserShares (integer): For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- totalGroupShares (integer): For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
Updated some attributes of this CSV Import

Usage

```r
imports_patch_files_csv(
    id,
    name = NULL,
    source = NULL,
    destination = NULL,
    first_row_is_header = NULL,
    column_delimiter = NULL,
    escaped = NULL,
    compression = NULL,
    existing_table_rows = NULL,
    max_errors = NULL,
    table_columns = NULL,
    loosen_types = NULL,
    execution = NULL,
    redshift_destination_options = NULL
)
```

Arguments

- `id` integer required. The ID for the import.
- `name` string optional. The name of the import.
- `source` list optional. A list containing the following elements:
  - `fileIds` array, The file ID(s) to import, if importing Civis file(s).
  - `storagePaths` object,
- `destination` list optional. A list containing the following elements:
  - `schema` string, The destination schema name.
  - `table` string, The destination table name.
  - `remoteHostId` integer, The ID of the destination database host.
  - `credentialId` integer, The ID of the credentials for the destination database.
  - `primaryKeys` array, A list of the primary key column(s) of the destination table. If the destination table does not exist, and the import mode is "upsert", this field is required.
  - `lastModifiedKeys` array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.
first_row_is_header  
boolean optional. A boolean value indicating whether or not the first row of the 
source file is a header row.

column_delimiter  
string optional. The column delimiter for the file. Valid arguments are "comma", 
"tab", and "pipe". Defaults to "comma".

escaped  
boolean optional. A boolean value indicating whether or not the source file has 
quotes escaped with a backslash. Defaults to false.

compression  
string optional. The type of compression of the source file. Valid arguments are 
"gzip" and "none". Defaults to "none".

existing_table_rows  
string optional. The behavior if a destination table with the requested name 
already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults 
to "fail".

max_errors  
integer optional. The maximum number of rows with errors to ignore before 
failing. This option is not supported for Postgres databases.

table_columns  
array optional. An array containing the following fields:
• name string, The column name.
• sqlType string, The SQL type of the column.

loosen_types  
boolean optional. If true, SQL types with precisions/lengths will have these 
values increased to accommodate data growth in future loads. Type loosening 
only occurs on table creation. Defaults to false.

execution  
string optional. In upsert mode, controls the movement of data in upsert mode. 
If set to "delayed", the data will be moved after a brief delay. If set to "im-
mediate", the data will be moved immediately. In non-upsert modes, controls 
the speed at which detailed column stats appear in the data catalogue. Defaults 
to "delayed", to accommodate concurrent upserts to the same table and speedier 
non-upsert imports.

redshift_destination_options  
list optional. A list containing the following elements:
• diststyle string, The diststyle to use for the table. One of "even", "all", or 
"key".
• distkey string, Distkey for this table in Redshift
• sortkeys array, Sortkeys for this table in Redshift. Please provide a maxi-
mum of two.

Value

A list containing the following elements:

id  
integer, The ID for the import.

name  
string, The name of the import.

source  
list, A list containing the following elements:
• fileIds array, The file ID(s) to import, if importing Civis file(s).
• storagePaths object,
destination list, A list containing the following elements:
- schema string, The destination schema name.
- table string, The destination table name.
- remoteHostId integer, The ID of the destination database host.
- credentialId integer, The ID of the credentials for the destination database.
- primaryKeys array, A list of the primary key column(s) of the destination table. If the destination table does not exist, and the import mode is "upsert", this field is required.
- lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

firstRowIsHeader boolean, A boolean value indicating whether or not the first row of the source file is a header row.

columnDelimiter string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

escaped boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

compression string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

existingTableRows string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

maxErrors integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

tableColumns array, An array containing the following fields:
- name string, The column name.
- sqlType string, The SQL type of the column.

loosenTypes boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

redshiftDestinationOptions list, A list containing the following elements:
- diststyle string, The diststyle to use for the table. One of "even", "all", or "key".
- distkey string, Distkey for this table in Redshift
- sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

hidden boolean, The hidden status of the item.
Description

Create a new import configuration

Usage

```python
imports_post(
    name,
    sync_type,
    is_outbound,
    source = NULL,
    destination = NULL,
    schedule = NULL,
    notifications = NULL,
    parent_id = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    hidden = NULL
)
```

Arguments

- **name**: string required. The name of the import.
- **sync_type**: string required. The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
- **is_outbound**: boolean required.
- **source**: list optional. A list containing the following elements:
  - remoteHostId integer,
  - credentialId integer,
  - additionalCredentials array. Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id, and the second element is the corresponding public key credential id.
- **destination**: list optional. A list containing the following elements:
  - remoteHostId integer,
  - credentialId integer,
  - additionalCredentials array. Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id, and the second element is the corresponding public key credential id.
schedule list optional. A list containing the following elements:

• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:

• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

parent_id integer optional. Parent id to trigger this import from

next_run_at string optional. The time of the next scheduled run.

time_zone string optional. The time zone of this import.

hidden boolean optional. The hidden status of the item.

Value

A list containing the following elements:

name string, The name of the import.

syncType string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.

source list, A list containing the following elements:

• remoteHostId integer,
• credentialId integer,
• additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
• name string.

**destination** list, A list containing the following elements:
- remoteHostId integer,
- credentialId integer,
- additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
- name string,

**schedule** list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

**notifications** list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

**parentId** integer, Parent id to trigger this import from

**id** integer, The ID for the import.

**isOutbound** boolean,

**jobType** string, The job type of this import.

**syncs** array, An array containing the following fields:
- id integer,
- source object,
- destination object,
• advancedOptions object,

state string,
createdAt string,
updatedAt string,
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this import.
hidden boolean, The hidden status of the item.
archived string, The archival status of the requested item(s).

---

imports_post_batches **Upload multiple files to Civis**

**Description**

Upload multiple files to Civis
imports_post_batches(
    file_ids,
    schema,
    table,
    remote_host_id,
    credential_id,
    column_delimiter = NULL,
    first_row_is_header = NULL,
    compression = NULL,
    hidden = NULL
)

Arguments

file_ids array required. The file IDs for the import.
schema string required. The destination schema name. This schema must already exist in Redshift.
table string required. The destination table name, without the schema prefix. This table must already exist in Redshift.
remote_host_id integer required. The ID of the destination database host.
credential_id integer required. The ID of the credentials to be used when performing the database import.
column_delimiter string optional. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". If unspecified, defaults to "comma".
first_row_is_header boolean optional. A boolean value indicating whether or not the first row is a header row. If unspecified, defaults to false.
compression string optional. The type of compression. Valid arguments are "gzip", "zip", and "none". If unspecified, defaults to "gzip".
hidden boolean optional. The hidden status of the item.

Value

A list containing the following elements:

id integer, The ID for the import.
schema string, The destination schema name. This schema must already exist in Redshift.
table string, The destination table name, without the schema prefix. This table must already exist in Redshift.
remoteHostId integer, The ID of the destination database host.
state string, The state of the run; one of "queued", "running", "succeeded", "failed", or "cancelled".
### imports_post_cancel

**startedAt**
string, The time the last run started at.

**finishedAt**
string, The time the last run completed.

**error**
string, The error returned by the run, if any.

**hidden**
boolean, The hidden status of the item.

---

**imports_post_cancel**   *Cancel a run*

---

**Description**

Cancel a run

**Usage**

`imports_post_cancel(id)`

**Arguments**

**id**
integer required. The ID of the job.

**Value**

A list containing the following elements:

**id**
integer, The ID of the run.

**state**
string, The state of the run, one of 'queued', 'running' or 'cancelled'.

**isCancelRequested**
boolean, True if run cancel requested, else false.

---

**imports_post_files**   *Initiate an import of a tabular file into the platform*

---

**Description**

Initiate an import of a tabular file into the platform
Usage

`imports_post_files(
    schema,
    name,
    remote_host_id,
    credential_id,
    max_errors = NULL,
    existing_table_rows = NULL,
    diststyle = NULL,
    distkey = NULL,
    sortkey1 = NULL,
    sortkey2 = NULL,
    column_delimiter = NULL,
    first_row_is_header = NULL,
    multipart = NULL,
    escaped = NULL,
    hidden = NULL
)`

Arguments

- **schema**: string required. The schema of the destination table.
- **name**: string required. The name of the destination table.
- **remote_host_id**: integer required. The id of the destination database host.
- **credential_id**: integer required. The id of the credentials to be used when performing the database import.
- **max_errors**: integer optional. The maximum number of rows with errors to remove from the import before failing.
- **existing_table_rows**: string optional. The behaviour if a table with the requested name already exists. One of "fail", "truncate", "append", or "drop". Defaults to "fail".
- **diststyle**: string optional. The diststyle to use for the table. One of "even", "all", or "key".
- **distkey**: string optional. The column to use as the distkey for the table.
- **sortkey1**: string optional. The column to use as the sort key for the table.
- **sortkey2**: string optional. The second column in a compound sortkey for the table.
- **column_delimiter**: string optional. The column delimiter of the file. If column_delimiter is null or omitted, it will be auto-detected. Valid arguments are "comma", "tab", and "pipe".
- **first_row_is_header**: boolean optional. A boolean value indicating whether or not the first row is a header row. If first_row_is_header is null or omitted, it will be auto-detected.
- **multipart**: boolean optional. If true, the upload URI will require a 'multipart/form-data' POST request. Defaults to false.
escaped boolean optional. If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.

hidden boolean optional. The hidden status of the item.

Value
A list containing the following elements:

- id integer, The id of the import.
- uploadUri string, The URI which may be used to upload a tabular file for import. You must use this URI to upload the file you wish imported and then inform the Civis API when your upload is complete using the URI given by the runUri field of this response.
- runUri string, The URI to POST to once the file upload is complete. After uploading the file using the URI given in the uploadUri attribute of the response, POST to this URI to initiate the import of your uploaded file into the platform.
- uploadFields list, If multipart was set to true, these fields should be included in the multipart upload.

---

Create a CSV Import

Description
Create a CSV Import

Usage
imports_post_files_csv(
    source,
    destination,
    first_row_is_header,
    name = NULL,
    column_delimiter = NULL,
    escaped = NULL,
    compression = NULL,
    existing_table_rows = NULL,
    max_errors = NULL,
    table_columns = NULL,
    loosen_types = NULL,
    execution = NULL,
    redshift_destination_options = NULL,
    hidden = NULL
)
Arguments

source
list required. A list containing the following elements:
• fileIds array, The file ID(s) to import, if importing Civis file(s).
• storagePaths object,

destination
list required. A list containing the following elements:
• schema string, The destination schema name.
• table string, The destination table name.
• remoteHostId integer, The ID of the destination database host.
• credentialId integer, The ID of the credentials for the destination database.
• primaryKeys array, A list of the primary key column(s) of the destination table. If the destination table does not exist, and the import mode is "upsert", this field is required.
• lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

first_row_is_header
boolean required. A boolean value indicating whether or not the first row of the source file is a header row.

name
string optional. The name of the import.

column_delimiter
string optional. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

escaped
boolean optional. A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

compression
string optional. The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

existing_table_rows
string optional. The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

max_errors
integer optional. The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

table_columns
array optional. An array containing the following fields:
• name string, The column name.
• sqlType string, The SQL type of the column.

loosen_types
boolean optional. If true, SQL types with precisions/lengths will have these values increased to accomodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution
string optional. In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accomodate concurrent upserts to the same table and speedier non-upsert imports.
**redshift_destination_options**

list optional. A list containing the following elements:

- diststyle string, The diststyle to use for the table. One of "even", "all", or "key".
- distkey string, Distkey for this table in Redshift
- sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

**hidden**

boolean optional. The hidden status of the item.

---

**Value**

A list containing the following elements:

- **id** integer, The ID for the import.
- **name** string, The name of the import.
- **source** list, A list containing the following elements:
  - fileIds array, The file ID(s) to import, if importing Civis file(s).
  - storagePaths object,
- **destination** list, A list containing the following elements:
  - schema string, The destination schema name.
  - table string, The destination table name.
  - remoteHostId integer, The ID of the destination database host.
  - credentialId integer, The ID of the credentials for the destination database.
  - primaryKeys array, A list of the primary key column(s) of the destination table. If the destination table does not exist, and the import mode is "upsert", this field is required.
  - lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.
- **firstRowIsHeader**
  boolean, A boolean value indicating whether or not the first row of the source file is a header row.
- **columnDelimiter**
  string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".
- **escaped**
  boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.
- **compression**
  string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".
- **existingTableRows**
  string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".
- **maxErrors**
  integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.
tableColumns array, An array containing the following fields:
- name string, The column name.
- sqlType string, The SQL type of the column.

loosenTypes boolean, If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

redshiftDestinationOptions list, A list containing the following elements:
- diststyle string, The diststyle to use for the table. One of "even", "all", or "key".
- distkey string, Distkey for this table in Redshift
- sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

hidden boolean, The hidden status of the item.

---

**imports_post_files_runs**

*Start a run*

**Description**

Start a run

**Usage**

`imports_post_files_runs(id)`

**Arguments**

id integer required. The ID of the import.

**Value**

A list containing the following elements:

id integer, The ID of the run.
importId integer, The ID of the import.
state string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested
   boolean, True if run cancel requested, else false.

startedAt
   string, The time the last run started at.

finishedAt
   string, The time the last run completed.

error
   string, The error, if any, returned by the run.

---

**imports_post_runs**

*Run an import*

**Description**

Run an import

**Usage**

`imports_post_runs(id)`

**Arguments**

id
   integer required. The ID of the import to run.

**Value**

A list containing the following elements:

runId
   integer, The ID of the new run triggered.

---

**imports_post_syncs**

*Create a sync*

**Description**

Create a sync

**Usage**

`imports_post_syncs(id, source, destination, advanced_options = NULL)`
Arguments

id integer required.

source list required. A list containing the following elements:
- path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce
  - databaseTable object,
  - file object,
  - googleWorksheet object,
  - salesforce object,

destination list required. A list containing the following elements:
- path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet
  - databaseTable object,
  - googleWorksheet object,

advanced_options list optional. A list containing the following elements:
- maxErrors integer,
- existingTableRows string,
- diststyle string,
- distkey string,
- sortkey1 string,
- sortkey2 string,
- columnDelimiter string,
- columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
- escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
- identityColumn string,
- rowChunkSize integer,
- wipeDestinationTable boolean,
- truncateLongLines boolean,
- invalidCharReplacement string,
- verifyTableRowCounts boolean,
- partitionColumnName string,
- partitionSchemaName string,
- partitionTableName string,
- partitionTablePartitionColumnMinName string,
• partitionTablePartitionColumnMaxName string,
• lastModifiedColumn string,
• mysqlCatalogMatchesSchema boolean,
• chunkingMethod string, The method used to break the data into smaller chunks for transfer. The value can be set to sorted_by_identity_columns or if not set the chunking method will be choosen automatically.
• firstRowIsHeader boolean,
• exportAction string, The kind of export action you want to have the export execute. Set to "newsprsht" if you want a new worksheet inside a new spreadsheet. Set to "newwksht" if you want a new worksheet inside an existing spreadsheet. Set to "updatewksht" if you want to overwrite an existing worksheet inside an existing spreadsheet. Set to "appendwksht" if you want to append to the end of an existing worksheet inside an existing spreadsheet. Default is set to "appendwksht"
• sqlQuery string, If you are doing a Google Sheet export, this is your SQL query.
• contactLists string,
• soqlQuery string,
• includeDeletedRecords boolean,

**Value**

A list containing the following elements:

- **id** integer,
- **source** list, A list containing the following elements:
  - id integer, The ID of the table or file, if available.
  - path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce
  - databaseTable object,
  - file object,
  - googleWorksheet object,
  - salesforce object,
- **destination** list, A list containing the following elements:
  - path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet
  - databaseTable object,
  - googleWorksheet object,
- **advancedOptions** list, A list containing the following elements:
• maxErrors integer,
• existingTableRows string,
• diststyle string,
• distkey string,
• sortkey1 string,
• sortkey2 string,
• columnDelimiter string,
• columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
• escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
• identityColumn string,
• rowChunkSize integer,
• wipeDestinationTable boolean,
• truncateLongLines boolean,
• invalidCharReplacement string,
• verifyTableRowCounts boolean,
• partitionColumnName string,
• partitionSchemaName string,
• partitionTableName string,
• partitionTablePartitionColumnMinName string,
• partitionTablePartitionColumnMaxName string,
• lastModifiedColumn string,
• mysqlCatalogMatchesSchema boolean,
• chunkingMethod string, The method used to break the data into smaller chunks for transfer. The value can be set to sorted_by_identity_columns or if not set the chunking method will be choosen automatically.
• firstRowIsHeader boolean,
• exportAction string, The kind of export action you want to have the export execute. Set to "newsprsht" if you want a new worksheet inside a new spreadsheet. Set to "newwksht" if you want a new worksheet inside an existing spreadsheet. Set to "updatewksht" if you want to overwrite an existing worksheet inside an existing spreadsheet. Set to "appendwksht" if you want to append to the end of an existing worksheet inside an existing spreadsheet. Default is set to "appendwksht".
• sqlQuery string, If you are doing a Google Sheet export, this is your SQL query.
• contactLists string,
• soqlQuery string,
• includeDeletedRecords boolean,
**imports_put**

**Update an import**

**Description**

Update an import

**Usage**

```python
imports_put(
    id,
    name,
    sync_type,
    is_outbound,
    source = NULL,
    destination = NULL,
    schedule = NULL,
    notifications = NULL,
    parent_id = NULL,
    next_run_at = NULL,
    time_zone = NULL
)
```

**Arguments**

- **id**
  - integer required. The ID for the import.

- **name**
  - string required. The name of the import.

- **sync_type**
  - string required. The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.

- **is_outbound**
  - boolean required.

- **source**
  - list optional. A list containing the following elements:
    - remoteHostId integer,
    - credentialId integer,
    - additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.

- **destination**
  - list optional. A list containing the following elements:
    - remoteHostId integer,
    - credentialId integer,
    - additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
schedule list optional. A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

parent_id integer optional. Parent id to trigger this import from

next_run_at string optional. The time of the next scheduled run.

time_zone string optional. The time zone of this import.

Value
A list containing the following elements:

name string, The name of the import.
syncType string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.

source list, A list containing the following elements:
- remoteHostId integer,
- credentialId integer,
- additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
- name string,
destination list, A list containing the following elements:
  • remoteHostId integer,
  • credentialId integer,
  • additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  • name string.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

parentId integer, Parent id to trigger this import from

id integer, The ID for the import.

isOutbound boolean,

jobType string, The job type of this import.

syncs array, An array containing the following fields:
  • id integer,
  • source object,
  • destination object,
  • advancedOptions object,
**state** string,
**createdAt** string,
**updatedAt** string,
**lastRun** list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
**user** list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
**runningAs** list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
**nextRunAt** string, The time of the next scheduled run.
**timeZone** string, The time zone of this import.
**hidden** boolean, The hidden status of the item.
**archived** string, The archival status of the requested item(s).

---

**imports_put_archive** *Update the archive status of this object*

**Description**
Update the archive status of this object

**Usage**

`imports_put_archive(id, status)`

**Arguments**

id integer required. The ID of the object.
status boolean required. The desired archived status of the object.
Value

A list containing the following elements:

name string, The name of the import.
syncType string, The type of sync to perform; one of Dbsync, AutoImport, GdocImport, GdocExport, and Salesforce.
source list, A list containing the following elements:
  • remoteHostId integer,
  • credentialId integer,
  • additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  • name string,
destination list, A list containing the following elements:
  • remoteHostId integer,
  • credentialId integer,
  • additionalCredentials array, Array that holds additional credentials used for specific imports. For salesforce imports, the first and only element is the client credential id. For DB Syncs, the first element is an SSL private key credential id, and the second element is the corresponding public key credential id.
  • name string,
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis,"
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

parentId integer, Parent id to trigger this import from
id integer, The ID for the import.
isOutbound boolean,
jobType string, The job type of this import.
syncs array, An array containing the following fields:
  - id integer,
  - source object,
  - destination object,
  - advancedOptions object,

state string,
createdAt string,
updatedAt string,

lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.

user list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

runningAs list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this import.
hidden boolean, The hidden status of the item.
archived string, The archival status of the requested item(s).
Description

Replace all attributes of this CSV Import

Usage

```r
imports_put_files_csv(
  id,  
  source,  
  destination,  
  first_row_is_header,  
  name = NULL,  
  column_delimiter = NULL,  
  escaped = NULL,  
  compression = NULL,  
  existing_table_rows = NULL,  
  max_errors = NULL,  
  table_columns = NULL,  
  loosen_types = NULL,  
  execution = NULL,  
  redshift_destination_options = NULL
)
```

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID for the import.</td>
</tr>
<tr>
<td>source</td>
<td>list required. A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• fileIds array, The file ID(s) to import, if importing Civis file(s).</td>
</tr>
<tr>
<td></td>
<td>• storagePaths object,</td>
</tr>
<tr>
<td>destination</td>
<td>list required. A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• schema string, The destination schema name.</td>
</tr>
<tr>
<td></td>
<td>• table string, The destination table name.</td>
</tr>
<tr>
<td></td>
<td>• remoteHostId integer, The ID of the destination database host.</td>
</tr>
<tr>
<td></td>
<td>• credentialId integer, The ID of the credentials for the destination database.</td>
</tr>
<tr>
<td></td>
<td>• primaryKeys array, A list of the primary key column(s) of the destination table. If the destination table does not exist, and the import mode is &quot;upsert&quot;, this field is required.</td>
</tr>
<tr>
<td></td>
<td>• lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is &quot;upsert&quot;, this field is required.</td>
</tr>
</tbody>
</table>
first_row_is_header
  boolean required. A boolean value indicating whether or not the first row of the source file is a header row.

name
  string optional. The name of the import.

column_delimiter
  string optional. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

escaped
  boolean optional. A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

compression
  string optional. The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

existing_table_rows
  string optional. The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

max_errors
  integer optional. The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

table_columns
  array optional. An array containing the following fields:
    • name string. The column name.
    • sqlType string. The SQL type of the column.

loosen_types
  boolean optional. If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

execution
  string optional. In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

redshift_destination_options
  list optional. A list containing the following elements:
    • diststyle string. The diststyle to use for the table. One of "even", "all", or "key".
    • distkey string. Distkey for this table in Redshift
    • sortkeys array. Sortkeys for this table in Redshift. Please provide a maximum of two.

Value

A list containing the following elements:

id
  integer, The ID for the import.

name
  string, The name of the import.

source
  list, A list containing the following elements:
    • fileIds array, The file ID(s) to import, if importing Civis file(s).
• storagePaths object,

**destination** list, A list containing the following elements:
  • schema string, The destination schema name.
  • table string, The destination table name.
  • remoteHostId integer, The ID of the destination database host.
  • credentialId integer, The ID of the credentials for the destination database.
  • primaryKeys array, A list of the primary key column(s) of the destination table. If the destination table does not exist, and the import mode is "upsert", this field is required.
  • lastModifiedKeys array, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.

**firstRowIsHeader** boolean, A boolean value indicating whether or not the first row of the source file is a header row.

**columnDelimiter** string, The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

**escaped** boolean, A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

**compression** string, The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

**existingTableRows** string, The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

**maxErrors** integer, The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

**tableColumns** array, An array containing the following fields:
  • name string, The column name.
  • sqlType string, The SQL type of the column.

**loosenTypes** boolean, If true, SQL types with precisions/lengths will have these values increased to accomodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

**execution** string, In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accomodate concurrent upserts to the same table and speedier non-upsert imports.

**redshiftDestinationOptions** list, A list containing the following elements:
  • diststyle string, The diststyle to use for the table. One of "even", "all", or "key".
  • distkey string, Distkey for this table in Redshift
• sortkeys array, Sortkeys for this table in Redshift. Please provide a maximum of two.

hidden boolean, The hidden status of the item.

---

**Description**

Update the archive status of this object

**Usage**

`imports_put_files_csv_archive(id, status)`

**Arguments**

- **id** integer required. The ID of the object.
- **status** boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id** integer, The ID for the import.
- **name** string, The name of the import.
- **source** list, A list containing the following elements:
  - **fileIds array**, The file ID(s) to import, if importing Civis file(s).
  - **storagePaths object**,
- **destination** list, A list containing the following elements:
  - **schema string**, The destination schema name.
  - **table string**, The destination table name.
  - **remoteHostId integer**, The ID of the destination database host.
  - **credentialId integer**, The ID of the credentials for the destination database.
  - **primaryKeys array**, A list of the primary key column(s) of the destination table. If the destination table does not exist, and the import mode is "upsert", this field is required.
  - **lastModifiedKeys array**, A list of the columns indicating a record has been updated. If the destination table does not exist, and the import mode is "upsert", this field is required.
- **firstRowIsHeader** boolean, A boolean value indicating whether or not the first row of the source file is a header row.
Column **columnDelimiter**: string. The column delimiter for the file. Valid arguments are "comma", "tab", and "pipe". Defaults to "comma".

Escaped **escaped**: boolean. A boolean value indicating whether or not the source file has quotes escaped with a backslash. Defaults to false.

Compression **compression**: string. The type of compression of the source file. Valid arguments are "gzip" and "none". Defaults to "none".

Existing table rows **existingTableRows**: string. The behavior if a destination table with the requested name already exists. One of "fail", "truncate", "append", "drop", or "upsert". Defaults to "fail".

Max errors **maxErrors**: integer. The maximum number of rows with errors to ignore before failing. This option is not supported for Postgres databases.

Table columns **tableColumns**: array. An array containing the following fields:
- **name**: string. The column name.
- **sqlType**: string. The SQL type of the column.

Loosen types **loosenTypes**: boolean. If true, SQL types with precisions/lengths will have these values increased to accommodate data growth in future loads. Type loosening only occurs on table creation. Defaults to false.

Execution **execution**: string. In upsert mode, controls the movement of data in upsert mode. If set to "delayed", the data will be moved after a brief delay. If set to "immediate", the data will be moved immediately. In non-upsert modes, controls the speed at which detailed column stats appear in the data catalogue. Defaults to "delayed", to accommodate concurrent upserts to the same table and speedier non-upsert imports.

Redshift destination options **redshiftDestinationOptions**: list. A list containing the following elements:
- **diststyle**: string. The diststyle to use for the table. One of "even", "all", or "key".
- **distkey**: string. Distkey for this table in Redshift.
- **sortkeys**: array. Sortkeys for this table in Redshift. Please provide a maximum of two.

Hidden **hidden**: boolean. The hidden status of the item.

---

**imports_put_projects** *Add an Import to a project*

### Description

Add an Import to a project

### Usage

```python
imports_put_projects(id, project_id)
```
Arguments

- **id** integer required. The ID of the Import.
- **project_id** integer required. The ID of the project.

Value

An empty HTTP response

---

**imports_put_shares_groups**

*Set the permissions groups has on this object*

Description

Set the permissions groups has on this object

Usage

```python
imports_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
imports_put_shares_users

users array,
• groups array,

owners list. A list containing the following elements:
• users array,
• groups array,

totalUserShares integer. For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

imports_put_shares_users

Set the permissions users have on this object

Description

Set the permissions users have on this object

Usage

imports_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.
Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**imports_put_syncs** 
*Update a sync*

Description

Update a sync

Usage

```r
imports_put_syncs(id, sync_id, source, destination, advanced_options = NULL)
```

Arguments

- **id** integer required. The ID of the import to fetch.
- **sync_id** integer required. The ID of the sync to fetch.
- **source** list required. A list containing the following elements:
  - **path string**, The path of the dataset to sync from: for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce
  - **databaseTable object**,
  - **file object**,
  - **googleWorksheet object**,
  - **salesforce object**,
destination list required. A list containing the following elements:

- path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet
- databaseTable object,
- googleWorksheet object,

advanced_options list optional. A list containing the following elements:

- maxErrors integer,
- existingTableRows string,
- diststyle string,
- distkey string,
- sortkey1 string,
- sortkey2 string,
- columnDelimiter string,
- columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
- escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
- identityColumn string,
- rowChunkSize integer,
- wipeDestinationTable boolean,
- truncateLongLines boolean,
- invalidCharReplacement string,
- verifyTableRowCounts boolean,
- partitionColumnName string,
- partitionSchemaName string,
- partitionTableName string,
- partitionTablePartitionColumnMinName string,
- partitionTablePartitionColumnMaxName string,
- lastModifiedColumn string,
- mysqlCatalogMatchesSchema boolean,
- chunkingMethod string, The method used to break the data into smaller chunks for transfer. The value can be set to sorted_by_identity_columns or if not set the chunking method will be choosen automatically.
- firstRowIsHeader boolean,
- exportAction string, The kind of export action you want to have the export execute. Set to "newsprsht" if you want a new worksheet inside a new spreadsheet. Set to "newwksht" if you want a new worksheet inside an existing spreadsheet. Set to "updatewksht" if you want to overwrite an existing worksheet inside an existing spreadsheet. Set to "appendwksht" if
you want to append to the end of an existing worksheet inside an existing spreadsheet. Default is set to "appendwksht"

- sqlQuery string, If you are doing a Google Sheet export, this is your SQL query.
- contactLists string,
- soqlQuery string,
- includeDeletedRecords boolean,

**Value**

A list containing the following elements:

- id integer,
- source list, A list containing the following elements:
  - id integer, The ID of the table or file, if available.
  - path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce
  - databaseTable object,
  - file object,
  - googleWorksheet object,
  - salesforce object,
- destination list, A list containing the following elements:
  - path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet
  - databaseTable object,
  - googleWorksheet object,
- advancedOptions list, A list containing the following elements:
  - maxErrors integer,
  - existingTableRows string,
  - diststyle string,
  - distkey string,
  - sortkey1 string,
  - sortkey2 string,
  - columnDelimiter string,
  - columnOverrides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
  - escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
• identityColumn string,
• rowChunkSize integer,
• wipeDestinationTable boolean,
• truncateLongLines boolean,
• invalidCharReplacement string,
• verifyTableRowCounts boolean,
• partitionColumnName string,
• partitionSchemaName string,
• partitionTableName string,
• partitionTablePartitionColumnMinName string,
• partitionTablePartitionColumnMaxName string,
• lastModifiedColumn string,
• mysqlCatalogMatchesSchema boolean,
• chunkingMethod string, The method used to break the data into smaller chunks for transfer. The value can be set to sorted_by_identity_columns or if not set the chunking method will be choosen automatically.
• firstRowIsHeader boolean,
• exportAction string, The kind of export action you want to have the export execute. Set to "newwksht" if you want a new worksheet inside a new spreadsheet. Set to "newwksht" if you want a new worksheet inside an existing spreadsheet. Set to "updatewksht" if you want to overwrite an existing worksheet inside an existing spreadsheet. Set to "appendwksht" if you want to append to the end of an existing worksheet inside an existing spreadsheet. Default is set to "appendwksht"
• sqlQuery string, If you are doing a Google Sheet export, this is your SQL query.
• contactLists string,
• soqlQuery string,
• includeDeletedRecords boolean,
Arguments

id integer required. The ID of the import to fetch.
sync_id integer required. The ID of the sync to fetch.
status boolean optional. The desired archived status of the sync.

Value

A list containing the following elements:

id integer,
source list, A list containing the following elements:
  • id integer, The ID of the table or file, if available.
  • path string, The path of the dataset to sync from; for a database source, schema.tablename. If you are doing a Google Sheet export, this can be blank. This is a legacy parameter, it is recommended you use one of the following: databaseTable, file, googleWorksheet, salesforce
  • databaseTable object,
  • file object,
  • googleWorksheet object,
  • salesforce object,
destination list, A list containing the following elements:
  • path string, The schema.tablename to sync to. If you are doing a Google Sheet export, this is the spreadsheet and sheet name separated by a period. i.e. if you have a spreadsheet named "MySpreadsheet" and a sheet called "Sheet1" this field would be "MySpreadsheet.Sheet1". This is a legacy parameter, it is recommended you use one of the following: databaseTable, googleWorksheet
  • databaseTable object,
  • googleWorksheet object,
advancedOptions list, A list containing the following elements:
  • maxErrors integer,
  • existingTableRows string,
  • diststyle string,
  • distkey string,
  • sortkey1 string,
  • sortkey2 string,
  • columnDelimiter string,
  • columnOverides object, Hash used for overriding auto-detected names and types, with keys being the index of the column being overridden.
  • escaped boolean, If true, escape quotes with a backslash; otherwise, escape quotes by double-quoting. Defaults to false.
  • identityColumn string,
jobs_delete_projects  

 Remove a Job from a project

Description

Remove a Job from a project

Usage

jobs_delete_projects(id, project_id)

Arguments

id  integer required. The ID of the Job.
project_id  integer required. The ID of the project.
Value

An empty HTTP response

---

**jobs_delete_runs**  
*Cancel a run*

**Description**

Cancel a run

**Usage**

```
jobs_delete_runs(id, run_id)
```

**Arguments**

- **id** integer required. The ID of the Job.
- **run_id** integer required. The ID of the Run.

**Value**

An empty HTTP response

---

**jobs_delete_shares_groups**  
*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

```
jobs_delete_shares_groups(id, group_id)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_id** integer required. The ID of the group.

**Value**

An empty HTTP response
jobs_delete_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
jobs_delete_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response

jobs_get

Show basic job info

Description
Show basic job info

Usage
jobs_get(id)

Arguments
id integer required. The ID for this job.

Value
A list containing the following elements:

id integer,
name string,
type string,
fromTemplateId integer,
state string, Whether the job is idle, queued, running, cancelled, or failed.
jobs_get_runs

Check status of a job

Description

Check status of a job

Usage

jobs_get_runs(id, run_id)
Arguments

- **id** integer required. The ID of the Job.
- **run_id** integer required. The ID of the Run.

Value

A list containing the following elements:

- **id** integer,
- **state** string,
- **createdAt** string, The time that the run was queued.
- **startedAt** string, The time that the run started.
- **finishedAt** string, The time that the run completed.
- **error** string, The error message for this run, if present.

---

**jobs_list**  
*List Jobs*

---

Description

List Jobs

Usage

```python
jobs_list(
    state = NULL,
    type = NULL,
    q = NULL,
    permission = NULL,
    scheduled = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **state** string optional. The job’s state. One or more of queued, running, succeeded, failed, and cancelled. Specify multiple values as a comma-separated list (e.g., "A,B").
- **type** string optional. The job’s type. Specify multiple values as a comma-separated list (e.g., "A,B").
q  string optional. Query string to search on the id, name, and job type.
permission  string optional. A permissions string, one of "read", "write", or "manage". Lists only jobs for which the current user has that permission.
scheduled  boolean optional. If the item is scheduled.
hidden  boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived  string optional. The archival status of the requested item(s).
limit  integer optional. Number of results to return. Defaults to its maximum of 50.
page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.
order  string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at.
order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id  integer,
name  string,
type  string,
fromTemplateId  integer,
state  string, Whether the job is idle, queued, running, cancelled, or failed.
createdAt  string,
updatedAt  string,
lastRun  list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
archived  string, The archival status of the requested item(s).
schedule  list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
**jobs_list_children**  
*Show nested tree of children that this job triggers*

---

**Description**

Show nested tree of children that this job triggers

**Usage**

```
jobs_list_children(id)
```

**Arguments**

`id`  
integer required. The ID for this job.

**Value**

A list containing the following elements:

- `id` integer,
- `name` string,
- `type` string,
- `fromTemplateId` integer,
- `state` string,
- `createdAt` string,
- `updatedAt` string,
- `runs` array, An array containing the following fields:
  - `id` integer,
  - `state` string,
  - `createdAt` string, The time that the run was queued.
  - `startedAt` string, The time that the run started.
  - `finishedAt` string, The time that the run completed.
  - `error` string, The error message for this run, if present.
- `lastRun` list, A list containing the following elements:
  - `id` integer,
  - `state` string,
  - `createdAt` string, The time that the run was queued.
  - `startedAt` string, The time that the run started.
  - `finishedAt` string, The time that the run completed.
  - `error` string, The error message for this run, if present.
- `children` array,
Show chain of parents as a list that this job triggers from

**Usage**

`jobs_list_parents(id)`

**Arguments**

- **id**  
  integer required. The ID for this job.

**Value**

A list containing the following elements:

- **id**  
  integer,
- **name**  
  string,
- **type**  
  string,
- **fromTemplateId**  
  integer,
- **state**  
  string, Whether the job is idle, queued, running, cancelled, or failed.
- **createdAt**  
  string,
- **updatedAt**  
  string,
- **runs**  
  array, An array containing the following fields:
  - **id**  
    integer,
  - **state**  
    string,
  - **createdAt**  
    string, The time that the run was queued.
  - **startedAt**  
    string, The time that the run started.
  - **finishedAt**  
    string, The time that the run completed.
  - **error**  
    string, The error message for this run, if present.
- **lastRun**  
  list, A list containing the following elements:
  - **id**  
    integer,
  - **state**  
    string,
  - **createdAt**  
    string, The time that the run was queued.
  - **startedAt**  
    string, The time that the run started.
  - **finishedAt**  
    string, The time that the run completed.
  - **error**  
    string, The error message for this run, if present.
- **hidden**  
  boolean, The hidden status of the item.
- **archived**  
  string, The archival status of the requested item(s).
successEmailSubject
type string,
successEmailBody
type string,
runningAsUser
type string,
runByUser
type string,
schedule
type list, A list containing the following elements:
    • scheduled boolean, If the item is scheduled.
    • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
    • scheduledHours array, Hours of the day it is scheduled on.
    • scheduledMinutes array, Minutes of the day it is scheduled on.
    • scheduledRunsPerHour integer, Alternative to scheduled minutes, number
      of times to run per hour.

Description
List the projects a Job belongs to

Usage
jobs_list_projects(id, hidden = NULL)

Arguments
id
type integer required. The ID of the Job.
hidden
type boolean optional. If specified to be true, returns hidden items. Defaults to false,
returning non-hidden items.

Value
An array containing the following fields:
id
type integer, The ID for this project.
author
type list, A list containing the following elements:
    • id integer, The ID of this user.
    • name string, This user’s name.
    • username string, This user’s username.
    • initials string, This user’s initials.
    • online boolean, Whether this user is online.
name
type string, The name of this project.
description
type string, A description of the project.
users array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).

jobs_list_runs

List runs for the given job

Description
List runs for the given job

Usage

jobs_list_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)

Arguments

id integer required. The ID for this job.
limit integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num integer optional. Page number of the results to return. Defaults to the first page, 1.
order string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

- id: integer,
- state: string,
- createdAt: string, The time that the run was queued.
- startedAt: string, The time that the run started.
- finishedAt: string, The time that the run completed.
- error: string, The error message for this run, if present.

Usage

`jobs_list_runs_logs(id, run_id, last_id = NULL, limit = NULL)`

Arguments

- id: integer required. The ID of the job.
- run_id: integer required. The ID of the run.
- last_id: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- limit: integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

- id: integer, The ID of the log.
- createdAt: string, The time the log was created.
- level: string, The level of the log. One of unknown,fatal,error,warn,info,debug.
List the outputs for a run

Usage

```r
jobs_list_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- `id` integer required. The ID of the job.
- `run_id` integer required. The ID of the run.
- `limit` integer optional. Number of results to return. Defaults to its maximum of 50.
- `page_num` integer optional. Page number of the results to return. Defaults to the first page, 1.
- `order` string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- `order_dir` string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- `objectType` string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- `objectId` integer, The ID of the output.
- `name` string, The name of the output.
- `link` string, The hypermedia link to the output.
- `value` string,
**jobs_list_shares**  
*List users and groups permissioned on this object*

**Description**

List users and groups permissioned on this object

**Usage**

`jobs_list_shares(id)`

**Arguments**

`id`  
integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- `readers` list, A list containing the following elements:
  - users array,
  - groups array,

- `writers` list, A list containing the following elements:
  - users array,
  - groups array,

- `owners` list, A list containing the following elements:
  - users array,
  - groups array,

- `totalUserShares` integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- `totalGroupShares` integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
jobs_list_workflows   List the workflows a job belongs to

Description
List the workflows a job belongs to

Usage
jobs_list_workflows(id, archived = NULL)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required.</td>
</tr>
<tr>
<td>archived</td>
<td>string optional. The archival status of the requested item(s).</td>
</tr>
</tbody>
</table>

Value
An array containing the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID for this workflow.</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of this workflow.</td>
</tr>
<tr>
<td>description</td>
<td>string, A description of the workflow.</td>
</tr>
<tr>
<td>valid</td>
<td>boolean, The validity of the workflow definition.</td>
</tr>
<tr>
<td>fileId</td>
<td>string, The file id for the s3 file containing the workflow configuration.</td>
</tr>
<tr>
<td>user</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>state</td>
<td>string, The state of the workflow. State is “running” if any execution is running, otherwise reflects most recent execution state.</td>
</tr>
<tr>
<td>schedule</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• scheduled boolean, If the item is scheduled.</td>
</tr>
<tr>
<td></td>
<td>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</td>
</tr>
<tr>
<td></td>
<td>• scheduledHours array, Hours of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledMinutes array, Minutes of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</td>
</tr>
<tr>
<td>timeZone</td>
<td>string, The time zone of this workflow.</td>
</tr>
<tr>
<td>nextExecutionAt</td>
<td>string, The time of the next scheduled execution.</td>
</tr>
</tbody>
</table>
archived: string, The archival status of the requested item(s).
createdAt: string,
updatedAt: string,

---

**jobs_post_runs**

*Run a job*

**Description**

Run a job

**Usage**

`jobs_post_runs(id)`

**Arguments**

- **id**: integer required. The ID for this job.

**Value**

A list containing the following elements:

- **id**: integer,
- **state**: string,
- **createdAt**: string, The time that the run was queued.
- **startedAt**: string, The time that the run started.
- **finishedAt**: string, The time that the run completed.
- **error**: string, The error message for this run, if present.

---

**jobs_post_trigger_email**

*Generate and retrieve trigger email address*

**Description**

Generate and retrieve trigger email address

**Usage**

`jobs_post_trigger_email(id)`

**Arguments**

- **id**: integer required. The ID for this job.
jobs_put_archive

Value
A list containing the following elements:

triggerEmail string, Email address which may be used to trigger this job to run.

Description
Update the archive status of this object

Usage
jobs_put_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:

id integer,
name string,
type string,
fromTemplateId integer,
state string, Whether the job is idle, queued, running, cancelled, or failed.
createdAt string,
updatedAt string,
rules array, An array containing the following fields:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
jobs_put_projects

- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
archived string, The archival status of the requested item(s).
successEmailSubject string,
successEmailBody string,
runningAsUser string,
runByUser string,
schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

Description

Add a Job to a project

Usage

jobs_put_projects(id, project_id)

Arguments

id integer required. The ID of the Job.
project_id integer required. The ID of the project.

Value

An empty HTTP response
jobs_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

jobs_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
• users array,
• groups array,

writers list, A list containing the following elements:
• users array,
• groups array,

owners list, A list containing the following elements:
• users array,
• groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
**jobs_put_shares_users**

integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**jobs_put_shares_users**  
*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```
jobs_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **id**
  integer required. The ID of the resource that is shared.
- **user_ids**
  array required. An array of one or more user IDs.
- **permission_level**
  string required. Options are: "read", "write", or "manage".
- **share_email_body**
  string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**
  boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers**
  list, A list containing the following elements:
    - **users array**,
    - **groups array**,

- **writers**
  list, A list containing the following elements:
    - **users array**,
    - **groups array**,

- **owners**
  list, A list containing the following elements:
    - **users array**,
    - **groups array**,
**json_values_delete_shares_users**

`totalUserShares`
- integer. For owners, the number of total users shared. For writers and readers, the number of visible users shared.

`totalGroupShares`
- integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**json_values_delete_shares_groups**

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

`json_values_delete_shares_groups(id, group_id)`

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_id** integer required. The ID of the group.

**Value**

An empty HTTP response

---

**json_values_delete_shares_users**

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

`json_values_delete_shares_users(id, user_id)`

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **user_id** integer required. The ID of the user.

**Value**

An empty HTTP response
json_values_get

Get details about a JSON Value

Description
Get details about a JSON Value

Usage

json_values_get(id)

Arguments

id  integer required. The ID of the JSON Value.

Value
A list containing the following elements:

id  integer, The ID of the JSON Value.
name  string, The name of the JSON Value.
value  string, The deserialized JSON value.

json_values_list_shares

List users and groups permissioned on this object

Description
List users and groups permissioned on this object

Usage

json_values_list_shares(id)

Arguments

id  integer required. The ID of the resource that is shared.
### Value

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

### json_values_patch

**Update some attributes of this JSON Value**

### Description

Update some attributes of this JSON Value

### Usage

```r
json_values_patch(id, name = NULL, value_str = NULL)
```

### Arguments

- **id** integer required. The ID of the JSON Value.
- **name** string optional. The name of the JSON Value.
- **value_str** string optional. The JSON value to store. Should be a serialized JSON string. Limited to 1000000 bytes.

### Value

A list containing the following elements:

- **id** integer, The ID of the JSON Value.
- **name** string, The name of the JSON Value.
- **value** string, The deserialized JSON value.
### json_values_post

**Create a JSON Value**

**Description**

Create a JSON Value

**Usage**

```python
json_values_post(value_str, name = NULL)
```

**Arguments**

- **value_str**  
  string required. The JSON value to store. Should be a serialized JSON string. Limited to 1000000 bytes.

- **name**  
  string optional. The name of the JSON Value.

**Value**

A list containing the following elements:

- **id**  
  integer, The ID of the JSON Value.

- **name**  
  string, The name of the JSON Value.

- **value**  
  string, The deserialized JSON value.

### json_values_put_shares_groups

**Set the permissions groups has on this object**

**Description**

Set the permissions groups has on this object

**Usage**

```python
json_values_put_shares_groups(id,  
  group_ids,  
  permission_level,  
  share_email_body = NULL,  
  send_shared_email = NULL  
)
```
**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**json_values_put_shares_users**

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```javascript
json_values_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,
writers list, A list containing the following elements:
  • users array,
  • groups array,
owners list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

match_targets_delete_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

match_targets_delete_shares_groups(id, group_id)
**match_targets_get**

**Arguments**

- **id**  
  integer required. The ID of the resource that is shared.
- **group_id**  
  integer required. The ID of the group.

**Value**

An empty HTTP response

---

**match_targets_deleteSharesUsers**

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

`match_targets_deleteSharesUsers(id, user_id)`

**Arguments**

- **id**  
  integer required. The ID of the resource that is shared.
- **user_id**  
  integer required. The ID of the user.

**Value**

An empty HTTP response

---

**match_targets_get**

*Show Match Target info*

**Description**

Show Match Target info

**Usage**

`match_targets_get(id)`

**Arguments**

- **id**  
  integer required. The ID of the match target
Value

A list containing the following elements:

- **id**: integer, The ID of the match target
- **name**: string, The name of the match target
- **table**: string, The name of the DynamoDB table
- **targetFileName**: string, The name of the target file
- **encryptionKeyId**: integer, The ID of the encryption key credential.
- **createdAt**: string,
- **updatedAt**: string,
- **archived**: boolean, Whether the match target has been archived.

match_targets_list

List match targets

Description

List match targets

Usage

match_targets_list()

Value

An array containing the following fields:

- **id**: integer, The ID of the match target
- **name**: string, The name of the match target
- **table**: string, The name of the DynamoDB table
- **targetFileName**: string, The name of the target file
- **encryptionKeyId**: integer, The ID of the encryption key credential.
- **createdAt**: string,
- **updatedAt**: string,
- **archived**: boolean, Whether the match target has been archived.
match_targets_list_shares

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

match_targets_list_shares(id)

Arguments

id integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
match_targets_patch  
Update a match target

**Description**

Update a match target

**Usage**

```python
match_targets_patch(
    id,
    name = NULL,
    table = NULL,
    region = NULL,
    target_file_name = NULL,
    encryption_key_credential_id = NULL,
    archived = NULL
)
```

**Arguments**

- **id**: integer required. The ID of the match target
- **name**: string optional. The name of the match target
- **table**: string optional. The name of the DynamoDB table
- **target_file_name**: string optional. The name of the target file
- **encryption_key_credential_id**: integer optional. The ID of the encryption key credential.
- **archived**: boolean optional. Whether the match target has been archived.

**Value**

A list containing the following elements:

- **id**: integer, The ID of the match target
- **name**: string, The name of the match target
- **table**: string, The name of the DynamoDB table
- **targetFileName**: string, The name of the target file
- **encryptionKeyCredentialId**: integer, The ID of the encryption key credential.
- **createdAt**: string,
- **updatedAt**: string,
- **archived**: boolean, Whether the match target has been archived.
**match_targets_post**  
Create a new match target

**Description**
Create a new match target

**Usage**

```r
call = match_targets_post(  
  name,  
  table = NULL,  
  region = NULL,  
  target_file_name = NULL,  
  encryption_key_credential_id = NULL,  
  archived = NULL  
)
```

**Arguments**

- **name**
  - string required. The name of the match target
- **table**
  - string optional. The name of the DynamoDB table
- **region**
- **target_file_name**
  - string optional. The name of the target file
- **encryption_key_credential_id**
  - integer optional. The ID of the encryption key credential.
- **archived**
  - boolean optional. Whether the match target has been archived.

**Value**
A list containing the following elements:

- **id**
  - integer, The ID of the match target
- **name**
  - string, The name of the match target
- **table**
  - string, The name of the DynamoDB table
- **region**
- **targetFileName**
  - string, The name of the target file
- **encryptionKeyCredentialId**
  - integer, The ID of the encryption key credential.
- **createdAt**
  - string,
- **updatedAt**
  - string,
- **archived**
  - boolean, Whether the match target has been archived.
**match_targets_put_archive**

*Update the archive status of this object*

**Description**

Update the archive status of this object

**Usage**

```python
match_targets_put_archive(id, status)
```

**Arguments**

- `id` integer required. The ID of the object.
- `status` boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- `id` integer, The ID of the match target
- `name` string, The name of the match target
- `table` string, The name of the DynamoDB table
- `targetFileName` string, The name of the target file
- `encryptionKeyId` integer, The ID of the encryption key credential.
- `createdAt` string,
- `updatedAt` string,
- `archived` boolean, Whether the match target has been archived.

---

**match_targets_put_shares_groups**

*Set the permissions groups has on this object*

**Description**

Set the permissions groups has on this object
match_targets_put_shares_groups

Usage

match_targets_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id       integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers       list, A list containing the following elements:
    • users array,
    • groups array,

writers       list, A list containing the following elements:
    • users array,
    • groups array,

owners       list, A list containing the following elements:
    • users array,
    • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
match_targets_put_shares_users

Set the permissions users have on this object

Description
Set the permissions users have on this object

Usage

match_targets_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,
writers list, A list containing the following elements:
  • users array,
  • groups array,
owners list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares

integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

media_delete_optimizations_runs

*Cancel a run*

**Description**

Cancel a run

**Usage**

media_delete_optimizations_runs(id, run_id)

**Arguments**

- **id** integer required. The ID of the optimization.
- **run_id** integer required. The ID of the run.

**Value**

An empty HTTP response

media_delete_optimizations_shares_groups

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

media_delete_optimizations_shares_groups(id, group_id)

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_id** integer required. The ID of the group.

**Value**

An empty HTTP response
media_delete_optimizations_shares_users

Revoke the permissions a user has on this object

Description

Revoke the permissions a user has on this object

Usage

media_delete_optimizations_shares_users(id, user_id)

Arguments

id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value

An empty HTTP response

media_delete_ratecards_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

media_delete_ratecards_shares_groups(id, group_id)

Arguments

id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value

An empty HTTP response
media_delete_ratecards_shares_users

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

`media_delete_ratecards_shares_users(id, user_id)`

**Arguments**

- `id`  
  integer required. The ID of the resource that is shared.

- `user_id`  
  integer required. The ID of the user.

**Value**

An empty HTTP response

media_delete_spot_orders_shares_groups

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

`media_delete_spot_orders_shares_groups(id, group_id)`

**Arguments**

- `id`  
  integer required. The ID of the resource that is shared.

- `group_id`  
  integer required. The ID of the group.

**Value**

An empty HTTP response
media_delete_spot_orders_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
media_delete_spot_orders_shares_users(id, user_id)

Arguments
id
integer required. The ID of the resource that is shared.
user_id
integer required. The ID of the user.

Value
An empty HTTP response

media_get_optimizations

Show a single optimization

Description
Show a single optimization

Usage
media_get_optimizations(id)

Arguments
id
integer required. The optimization ID.

Value
A list containing the following elements:

id
integer, The optimization ID.
author
list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
media_get_optimizations

- **username** string, This user’s username.
- **initials** string, This user’s initials.
- **online** boolean, Whether this user is online.

**name** string, The name of the optimization.

**createdAt** string,

**updatedAt** string,

**finishedAt** string, The end time of the last run.

**state** string, The state of the last run.

**lastRunId** integer, The ID of the last run.

**spotOrderId** integer, The ID for the spot order produced by the optimization.

**archived** string, The archival status of the requested item(s).

**reportLink** string, A link to the visual report for the optimization.

**spotOrderLink** string, A link to the json version of the spot order.

**fileLinks** array, Links to the csv and xml versions of the spot order.

**runs** array, An array containing the following fields:

  - **marketId** integer, The market ID.
  - **startDate** string, The start date for the media run.
  - **endDate** string, The end date for the media run.
  - **forceCpm** boolean, Whether to force optimization to use CPM data even if partition data is available.
  - **reachAlpha** number, A tuning parameter used to adjust RF.
  - **syscodes** array, The syscodes for the media run.
  - **rateCards** array, The ratecards for the media run.
  - **constraints** array, The constraints for the media run.

**programs** array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.

**networks** array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.

**excludePrograms** boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.

**excludeNetworks** boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.

**timeSlotPercentages** list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.
media_get_optimizations_runs

Check status of a run

Description
Check status of a run

Usage
media_get_optimizations_runs(id, run_id)

Arguments
id integer required. The ID of the optimization.
run_id integer required. The ID of the run.

Value
A list containing the following elements:
id integer, The ID of the run.
optimizationId integer, The ID of the optimization.
state string, The state of the run, one of ‘queued’ ‘running’ ‘succeeded’ ‘failed’ or ‘cancelled’.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.

media_get_ratecards

Get a Ratecard

Description
Get a Ratecard

Usage
media_get_ratecards(id)

Arguments
id integer required.
**Value**

A list containing the following elements:

- **id** integer, The ratecard ID.
- **filename** string, Name of the ratecard file.
- **startOn** string, First day to which the ratecard applies.
- **endOn** string, Last day to which the ratecard applies.
- **dmaNumber** integer, Number of the DMA associated with the ratecard.
- **archived** string, The archival status of the requested item(s).

**Description**

Show a single spot order

**Usage**

`media_get_spot_orders(id)`

**Arguments**

- **id** integer required. The ID for the spot order.

**Value**

A list containing the following elements:

- **id** integer, The ID for the spot order.
- **archived** string, The archival status of the requested item(s).
- **csvS3Uri** string, S3 URI for the spot order CSV file.
- **jsonS3Uri** string, S3 URI for the spot order JSON file.
- **xmlArchiveS3Uri** string, S3 URI for the spot order XML archive.
- **lastTransformJobId** integer, ID of the spot order transformation job.
media_list_dmas  

**List all Designated Market Areas**

**Description**
List all Designated Market Areas

**Usage**

```r
media_list_dmas(name = NULL, number = NULL)
```

**Arguments**

- **name**
  string optional. If specified, will be used to filter the DMAs returned. Substring matching is supported with "%" and "*" wildcards (e.g., "name=%region%" will return both "region1" and "my region").

- **number**
  integer optional. If specified, will be used to filter the DMAS by number.

**Value**

An array containing the following fields:

- **name**
  string, Name for the DMA region.

- **number**
  integer, Identifier number for a DMA.

---

media_list_optimizations  

**List all optimizations**

**Description**
List all optimizations

**Usage**

```r
media_list_optimizations(
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```
Arguments

- **archived**: string optional. The archival status of the requested item(s).
- **limit**: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, author, name.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id**: integer, The optimization ID.
- **author**: list, A list containing the following elements:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
  - **initials**: string, This user’s initials.
  - **online**: boolean, Whether this user is online.
- **name**: string, The name of the optimization.
- **createdAt**: string,
- **updatedAt**: string,
- **finishedAt**: string, The end time of the last run.
- **state**: string, The state of the last run.
- **lastRunId**: integer, The ID of the last run.
- **spotOrderId**: integer, The ID for the spot order produced by the optimization.
- **archived**: string, The archival status of the requested item(s).

Description

List runs for the given optimization
Usage

media_list_optimizations_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

id integer required. The ID of the optimization.

limit integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to id. Must be one of: id.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id integer, The ID of the run.

optimizationId integer, The ID of the optimization.

state string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

isCancelRequested boolean, True if run cancel requested, else false.

startedAt string, The time the last run started at.

finishedAt string, The time the last run completed.

error string, The error, if any, returned by the run.

Description

Get the logs for a run
Usage

media_list_optimizations_runs_logs(id, run_id, last_id = NULL, limit = NULL)

Arguments

id integer required. The ID of the optimization.
run_id integer required. The ID of the run.
last_id integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

id integer, The ID of the log.
createdAt string, The time the log was created.
message string, The log message.
level string, The level of the log. One of unknown, fatal, error, warn, info, debug.

media_list_optimizations_shares

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

media_list_optimizations_shares(id)

Arguments

id integer required. The ID of the resource that is shared.
Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

media_list_ratecards

List all ratecards

Description

List all ratecards

Usage

media_list_ratecards(archived = NULL, filename = NULL, dma_number = NULL)

Arguments

archived string optional. The archival status of the requested item(s).
filename string optional. If specified, will be used to filter the ratecards returned. Sub-string matching is supported with "%" and "*" wildcards (e.g., "filename=%ratecard%" will return both "ratecard 1" and "my ratecard").

dma_number integer optional. If specified, will be used to filter the ratecards by DMA.
Value

An array containing the following fields:

- **id** integer, The ratecard ID.
- **filename** string, Name of the ratecard file.
- **startOn** string, First day to which the ratecard applies.
- **endOn** string, Last day to which the ratecard applies.
- **dmaNumber** integer, Number of the DMA associated with the ratecard.
- **archived** string, The archival status of the requested item(s).

---

media_list_ratecards_shares

List users and groups permissioned on this object

---

Description

List users and groups permissioned on this object

Usage

media_list_ratecards_shares(id)

Arguments

- **id** integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
media_list_spot_orders

List all spot orders

Description

List all spot orders

Usage

media_list_spot_orders(id = NULL, archived = NULL)

Arguments

id integer optional. The ID for the spot order.
archived string optional. The archival status of the requested item(s).

Value

An array containing the following fields:

id integer, The ID for the spot order.
archived string, The archival status of the requested item(s).

media_list_spot_orders_shares

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

media_list_spot_orders_shares(id)

Arguments

id integer required. The ID of the resource that is shared.
Value
An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**media_list_targets**  
List all Media Targets

Description
List all Media Targets

Usage
```r
media_list_targets(name = NULL, identifier = NULL, data_source = NULL)
```

Arguments
- **name** string optional. The name of the target.
- **identifier** string optional. A unique identifier for this target.
- **data_source** string optional. The source of viewership data for this target.

Value
An array containing the following fields:

- **name** string, The name of the target.
- **identifier** string, A unique identifier for this target.
- **dataSource** string, The source of viewership data for this target.
Description

Edit an existing optimization

Usage

```r
media_patch_optimizations(
  id,
  name = NULL,
  runs = NULL,
  programs = NULL,
  networks = NULL,
  exclude_programs = NULL,
  exclude_networks = NULL,
  time_slot_percentages = NULL
)
```

Arguments

- `id` integer required. The optimization ID.
- `name` string optional. The name of the optimization.
- `runs` array optional. An array containing the following fields:
  - `marketId` integer, The market ID.
  - `startDate` string, The start date for the media run.
  - `endDate` string, The end date for the media run.
  - `forceCpm` boolean, Whether to force optimization to use CPM data even if partition data is available.
  - `reachAlpha` number, A tuning parameter used to adjust RF.
  - `syscodes` array, The syscodes for the media run.
  - `rateCards` array, The ratecards for the media run.
  - `constraints` array, The constraints for the media run.
- `programs` array optional. An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if `exclude_programs` is not also set.
- `networks` array optional. An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if `exclude_networks` is not also set.
- `exclude_programs` boolean optional. If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.
exclude_networks

boolean optional. If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.

time_slot_percentages

list optional. The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

Value

A list containing the following elements:

- id integer, The optimization ID.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- name string, The name of the optimization.
- createdAt string,
- updatedAt string,
- finishedAt string, The end time of the last run.
- state string, The state of the last run.
- lastRunId integer, The ID of the last run.
- spotOrderId integer, The ID for the spot order produced by the optimization.
- archived string, The archival status of the requested item(s).
- reportLink string, A link to the visual report for the optimization.
- spotOrderLink string, A link to the json version of the spot order.
- fileLinks array, Links to the csv and xml versions of the spot order.
- runs array, An array containing the following fields:
  - marketId integer, The market ID.
  - startDate string, The start date for the media run.
  - endDate string, The end date for the media run.
  - forceCpm boolean, Whether to force optimization to use CPM data even if partition data is available.
  - reachAlpha number, A tuning parameter used to adjust RF.
  - syscodes array, The syscodes for the media run.
  - rateCards array, The ratecards for the media run.
  - constraints array, The constraints for the media run.
- programs array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.
networks array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.

excludePrograms boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.

excludeNetworks boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.

timeSlotPercentages list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.
Value

A list containing the following elements:

- **id** integer, The ratecard ID.
- **filename** string, Name of the ratecard file.
- **startOn** string, First day to which the ratecard applies.
- **endOn** string, Last day to which the ratecard applies.
- **dmaNumber** integer, Number of the DMA associated with the ratecard.
- **archived** string, The archival status of the requested item(s).

---

**media_post_optimizations**

*Create a new optimization*

---

**Description**

Create a new optimization

**Usage**

```r
media_post_optimizations(
  runs,
  name = NULL,
  programs = NULL,
  networks = NULL,
  exclude_programs = NULL,
  exclude_networks = NULL,
  time_slot_percentages = NULL
)
```

**Arguments**

- **runs** array required. An array containing the following fields:
  - **marketId** integer, The market ID.
  - **startDate** string, The start date for the media run.
  - **endDate** string, The end date for the media run.
  - **forceCpm** boolean, Whether to force optimization to use CPM data even if partition data is available.
  - **reachAlpha** number, A tuning parameter used to adjust RF.
  - **syscodes** array, The syscodes for the media run.
  - **rateCards** array, The ratecards for the media run.
  - **constraints** array, The constraints for the media run.

- **name** string optional. The name of the optimization.
media_post_optimizations

programs array optional. An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.

networks array optional. An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.

exclude_programs boolean optional. If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.

exclude_networks boolean optional. If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.

time_slot_percentages list optional. The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

Value

A list containing the following elements:

id integer, The optimization ID.

author list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user's name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

name string, The name of the optimization.

createdAt string,

updatedAt string,

finishedAt string, The end time of the last run.

state string, The state of the last run.

lastRunId integer, The ID of the last run.

spotOrderId integer, The ID for the spot order produced by the optimization.

archived string, The archival status of the requested item(s).

reportLink string, A link to the visual report for the optimization.

spotOrderLink string, A link to the json version of the spot order.

fileLinks array, Links to the csv and xml versions of the spot order.

runs array, An array containing the following fields:

• marketId integer, The market ID.
• startDate string, The start date for the media run.
media_post_optimizations_clone

Clone an existing optimization

Description

Clone an existing optimization

Usage

media_post_optimizations_clone(id)

Arguments

id integer required. The optimization ID.
Value

A list containing the following elements:

- **id** integer, The optimization ID.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **name** string, The name of the optimization.
- **createdAt** string,
- **updatedAt** string,
- **finishedAt** string, The end time of the last run.
- **state** string, The state of the last run.
- **lastRunId** integer, The ID of the last run.
- **spotOrderId** integer, The ID for the spot order produced by the optimization.
- **archived** string, The archival status of the requested item(s).
- **reportLink** string, A link to the visual report for the optimization.
- **spotOrderLink** string, A link to the json version of the spot order.
- **fileLinks** array, Links to the csv and xml versions of the spot order.
- **runs** array, An array containing the following fields:
  - **marketId** integer, The market ID.
  - **startDate** string, The start date for the media run.
  - **endDate** string, The end date for the media run.
  - **forceCpm** boolean, Whether to force optimization to use CPM data even if partition data is available.
  - **reachAlpha** number, A tuning parameter used to adjust RF.
  - **syscodes** array, The syscodes for the media run.
  - **rateCards** array, The ratecards for the media run.
  - **constraints** array, The constraints for the media run.
- **programs** array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.
- **networks** array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.
- **excludePrograms** boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.
**excludeNetworks**

boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.

**timeSlotPercentages**

list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.

---

**media_post_optimizations_runs**

*Start a run*

---

**Description**

Start a run

**Usage**

`media_post_optimizations_runs(id)`

**Arguments**

| id  | integer required. The ID of the optimization. |

**Value**

A list containing the following elements:

| id   | integer, The ID of the run. |
| id   | integer, The ID of the optimization. |
| state| string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'. |
| isCancelRequested | boolean, True if run cancel requested, else false. |
| startedAt | string, The time the last run started at. |
| finishedAt | string, The time the last run completed. |
| error  | string, The error, if any, returned by the run. |
media_post_ratecards  Create a Ratecard

Description

Create a Ratecard

Usage

media_post_ratecards(filename, start_on, end_on, dma_number)

Arguments

filename  string required. Name of the ratecard file.
start_on  string required. First day to which the ratecard applies.
end_on  string required. Last day to which the ratecard applies.
dma_number  integer required. Number of the DMA associated with the ratecard.

Value

A list containing the following elements:

id  integer, The ratecard ID.
filename  string, Name of the ratecard file.
startOn  string, First day to which the ratecard applies.
endOn  string, Last day to which the ratecard applies.
dmaNumber  integer, Number of the DMA associated with the ratecard.
archived  string, The archival status of the requested item(s).

media_post_spot_orders  Create a spot order

Description

Create a spot order

Usage

media_post_spot_orders(body = NULL)

Arguments

body  string optional. CSV body of a spot order.
media_put_optimizations_archive

**Value**
A list containing the following elements:

- `id` integer, The ID for the spot order.
- `archived` string, The archival status of the requested item(s).
- `csvS3Uri` string, S3 URI for the spot order CSV file.
- `jsonS3Uri` string, S3 URI for the spot order JSON file.
- `xmlArchiveS3Uri` string, S3 URI for the spot order XML archive.
- `lastTransformJobId` integer, ID of the spot order transformation job.

---

media_put_optimizations_archive

*Update the archive status of this object*

---

**Description**
Update the archive status of this object

**Usage**

`media_put_optimizations_archive(id, status)`

**Arguments**

- `id` integer required. The ID of the object.
- `status` boolean required. The desired archived status of the object.

**Value**
A list containing the following elements:

- `id` integer, The optimization ID.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.
- `name` string, The name of the optimization.
- `createdAt` string,
- `updatedAt` string,
finishedAt: string, The end time of the last run.
state: string, The state of the last run.
lastRunId: integer, The ID of the last run.
spotOrderId: integer, The ID for the spot order produced by the optimization.
archived: string, The archival status of the requested item(s).
reportLink: string, A link to the visual report for the optimization.
spotOrderLink: string, A link to the json version of the spot order.
fileLinks: array, Links to the csv and xml versions of the spot order.
runs: array, An array containing the following fields:
  • marketId: integer, The market ID.
  • startDate: string, The start date for the media run.
  • endDate: string, The end date for the media run.
  • forceCpm: boolean, Whether to force optimization to use CPM data even if partition data is available.
  • reachAlpha: number, A tuning parameter used to adjust RF.
  • syscodes: array, The syscodes for the media run.
  • rateCards: array, The ratecards for the media run.
  • constraints: array, The constraints for the media run.
programs: array, An array of programs that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_programs is not also set.
networks: array, An array of networks that the Civis Media Optimizer either exclude or limit to. An error will be thrown if exclude_networks is not also set.
excludePrograms: boolean, If Civis Media Optimizer should exclude the programs in the programs parameter. If this value is set to false, it will make the optimization limit itself to the programs supplied through the programs parameter. An error will be thrown if programs is not also set.
excludeNetworks: boolean, If Civis Media Optimizer should exclude the networks in the networks parameter. If this value is set to false, it will make the optimization limit itself to the networks supplied through the networks. An error will be thrown if networks is not also set.
timeSlotPercentages: list, The maximum amount of the budget spent on that particular day of the week, daypart, or specific time slot for broadcast and cable.
media_put_optimizations_shares_groups

*Set the permissions groups has on this object*

**Description**

Set the permissions groups has on this object

**Usage**

```python
media_put_optimizations_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
**Description**

Set the permissions users have on this object

**Usage**

```javascript
media_put_optimizations_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `user_ids` array required. An array of one or more user IDs.
- `permission_level` string required. Options are: "read", "write", or "manage".
- `share_email_body` string optional. Custom body text for e-mail sent on a share.
- `send_shared_email` boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- `readers` list, A list containing the following elements:
  - users array,
  - groups array,

- `writers` list, A list containing the following elements:
  - users array,
  - groups array,

- `owners` list, A list containing the following elements:
  - users array,
• groups array,

- totalUserShares
  - integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- totalGroupShares
  - integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**media_put_ratecards**

*Replace all attributes of this Ratecard*

---

**Description**

Replace all attributes of this Ratecard

**Usage**

`media_put_ratecards(id, filename, start_on, end_on, dma_number)`

**Arguments**

- id
  - integer required. The ratecard ID.

- filename
  - string required. Name of the ratecard file.

- start_on
  - string required. First day to which the ratecard applies.

- end_on
  - string required. Last day to which the ratecard applies.

- dma_number
  - integer required. Number of the DMA associated with the ratecard.

**Value**

A list containing the following elements:

- id
  - integer, The ratecard ID.

- filename
  - string, Name of the ratecard file.

- startOn
  - string, First day to which the ratecard applies.

- endOn
  - string, Last day to which the ratecard applies.

- dmaNumber
  - integer, Number of the DMA associated with the ratecard.

- archived
  - string, The archival status of the requested item(s).
**media_put_ratecards_archive**

*Update the archive status of this object*

**Description**

Update the archive status of this object

**Usage**

```
media_put_ratecards_archive(id, status)
```

**Arguments**

- `id`: integer required. The ID of the object.
- `status`: boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- `id`: integer, The ratecard ID.
- `filename`: string, Name of the ratecard file.
- `startOn`: string, First day to which the ratecard applies.
- `endOn`: string, Last day to which the ratecard applies.
- `dmaNumber`: integer, Number of the DMA associated with the ratecard.
- `archived`: string, The archival status of the requested item(s).

---

**media_put_ratecards_shares_groups**

*Set the permissions groups on this object*

**Description**

Set the permissions groups on this object

**Usage**

```
media_put_ratecards_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,
writers list, A list containing the following elements:
  • users array,
  • groups array,
owners list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

media_put_ratecards_shares_users

Set the permissions users have on this object

Description

Set the permissions users have on this object

Usage

media_put_ratecards_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
**media_put_spot_orders**

**Description**

Edit the specified spot order

**Usage**

```python
media_put_spot_orders(id, body = NULL)
```

**Arguments**

- **id**
  - integer required. The ID for the spot order.

- **body**
  - string optional. CSV body of a spot order.
Value
A list containing the following elements:

- id: integer, The ID for the spot order.
- archived: string, The archival status of the requested item(s).
- csvS3Uri: string, S3 URI for the spot order CSV file.
- jsonS3Uri: string, S3 URI for the spot order JSON file.
- xmlArchiveS3Uri: string, S3 URI for the spot order XML archive.
- lastTransformJobId: integer, ID of the spot order transformation job.

media_put_spot_orders_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
media_put_spot_orders_archive(id, status)

Arguments
- id: integer required. The ID of the object.
- status: boolean required. The desired archived status of the object.

Value
A list containing the following elements:

- id: integer, The ID for the spot order.
- archived: string, The archival status of the requested item(s).
- csvS3Uri: string, S3 URI for the spot order CSV file.
- jsonS3Uri: string, S3 URI for the spot order JSON file.
- xmlArchiveS3Uri: string, S3 URI for the spot order XML archive.
- lastTransformJobId: integer, ID of the spot order transformation job.
media_put_spot_orders_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

media_put_spot_orders_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments

id                integer required. The ID of the resource that is shared.
group_ids         array required. An array of one or more group IDs.
permission_level  string required. Options are: "read", "write", or "manage".
share_email_body  string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
    • users array,
    • groups array,

writers list, A list containing the following elements:
    • users array,
    • groups array,

owners list, A list containing the following elements:
    • users array,
    • groups array,

totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
**media_put_spot_orders_shares_users**

Set the permissions users have on this object

**Description**

Set the permissions users have on this object

**Usage**

```
media_put_spot_orders_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
models_delete_builds

Cancel a build

Description
Cancel a build

Usage
models_delete_builds(id, build_id)

Arguments
id integer required. The ID of the model.
build_id integer required. The ID of the build.

Value
An empty HTTP response

models_delete_projects
Remove a Model from a project

Description
Remove a Model from a project

Usage
models_delete_projects(id, project_id)

Arguments
id integer required. The ID of the Model.
project_id integer required. The ID of the project.

Value
An empty HTTP response
models_delete_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
models_delete_shares_groups(id, group_id)

Arguments
id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value
An empty HTTP response

models_delete_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
models_delete_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response
**models_get**

Retrieve model configuration

**Description**

Retrieve model configuration

**Usage**

```models_get(id)```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the model.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of the model.</td>
</tr>
<tr>
<td>tableName</td>
<td>string, The qualified name of the table containing the training set from which to build the model.</td>
</tr>
<tr>
<td>databaseId</td>
<td>integer, The ID of the database holding the training set table used to build the model.</td>
</tr>
<tr>
<td>credentialId</td>
<td>integer, The ID of the credential used to read the target table. Defaults to the user’s default credential.</td>
</tr>
<tr>
<td>modelName</td>
<td>string, The name of the model.</td>
</tr>
<tr>
<td>description</td>
<td>string, A description of the model.</td>
</tr>
<tr>
<td>interactionTerms</td>
<td>boolean, Whether to search for interaction terms.</td>
</tr>
<tr>
<td>boxCoxTransformation</td>
<td>boolean, Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.</td>
</tr>
<tr>
<td>modelTypeId</td>
<td>integer, The ID of the model’s type.</td>
</tr>
<tr>
<td>primaryKey</td>
<td>string, The unique ID (primary key) of the training dataset.</td>
</tr>
<tr>
<td>dependentVariable</td>
<td>string, The dependent variable of the training dataset.</td>
</tr>
<tr>
<td>excludedColumns</td>
<td>array, The order of dependent variables, especially useful for Ordinal Modeling.</td>
</tr>
<tr>
<td>limitingSQL</td>
<td>string, A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., “id &gt; 105”).</td>
</tr>
</tbody>
</table>
activeBuildId integer, The ID of the current active build, the build used to score predictions.
crossValidationParameters list, Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].
numberOfFolds integer, Number of folds for cross validation. Default value is 5.
notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parentId integer, The ID of the parent job that will trigger this model.
runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
timeZone string, The time zone of this model.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
models_get

- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden

boolean, The hidden status of the item.

user

list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

createdAt

string, The time the model was created.

updatedAt

string, The time the model was updated.

currentBuildState

string, The status of the current model build. One of "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.

currentBuildException

string, Exception message, if applicable, of the current model build.

builds

array, An array containing the following fields:
- id integer, The ID of the model build.
- name string, The name of the model build.
- createdAt string, The time the model build was created.
- description string, A description of the model build.
- rootMeanSquaredError number, A key metric for continuous models. Nil for other model types.
- rSquaredError number, A key metric for continuous models. Nil for other model types.
- rocAuc number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.

predictions

array, An array containing the following fields:
- id integer, The ID of the model to which to apply the prediction.
- tableName string, The qualified name of the table on which to apply the predictive model.
- primaryKey array, The primary key or composite keys of the table being predicted.
- limitingSQL string, A SQL WHERE clause used to scope the rows to be predicted.
- outputTable string, The qualified name of the table to be created which will contain the model’s predictions.
- schedule object,
- state string, The status of the prediction. One of: "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.

lastOutputLocation

string, The output JSON for the last build.

archived

string, The archival status of the requested item(s).
models_get_builds  \textit{Check status of a build}

\section*{Description}
Check status of a build

\section*{Usage}
\texttt{models_get_builds(id, build_id)}

\section*{Arguments}
\begin{itemize}
\item \texttt{id} \hspace{1cm} integer required. The ID of the model.
\item \texttt{build_id} \hspace{1cm} integer required. The ID of the build.
\end{itemize}

\section*{Value}
A list containing the following elements:
\begin{itemize}
\item \texttt{id} \hspace{1cm} integer, The ID of the model build.
\item \texttt{state} \hspace{1cm} string, The state of the model build. One of \texttt{'queued', 'running', 'succeeded', 'failed', 'cancelled'.}
\item \texttt{error} \hspace{1cm} string, The error, if any, returned by the build.
\item \texttt{name} \hspace{1cm} string, The name of the model build.
\item \texttt{createdAt} \hspace{1cm} string, The time the model build was created.
\item \texttt{description} \hspace{1cm} string, A description of the model build.
\item \texttt{rootMeanSquaredError} \hspace{1cm} number, A key metric for continuous models. Nil for other model types.
\item \texttt{rSquaredError} \hspace{1cm} number, A key metric for continuous models. Nil for other model types.
\item \texttt{rocAuc} \hspace{1cm} number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.
\item \texttt{transformationMetadata} \hspace{1cm} string, A string representing the full JSON output of the metadata for transformation of column names.
\item \texttt{output} \hspace{1cm} string, A string representing the JSON output for the specified build. Only present when smaller than 10KB in size.
\item \texttt{outputLocation} \hspace{1cm} string, A URL representing the location of the full JSON output for the specified build. The URL link will be valid for 5 minutes.
\end{itemize}
models_list

Description
List

Usage
models_list(
  model_name = NULL,
  training_table_name = NULL,
  dependent_variable = NULL,
  author = NULL,
  status = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)

Arguments

model_name       string optional. If specified, will be used to filter the models returned. Substring matching is supported. (e.g., "modelName=model" will return both "model1" and "my model").

training_table_name   string optional. If specified, will be used to filter the models returned by the training dataset table name. Substring matching is supported. (e.g., "trainingTableName=table" will return both "table1" and "my_table").

dependent_variable string optional. If specified, will be used to filter the models returned by the dependent variable column name. Substring matching is supported. (e.g., "dependentVariable=predictor" will return both "predictor" and "my predictor").

author        string optional. If specified, return models from this author. It accepts a comma-separated list of author ids.

status        string optional. If specified, returns models with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.

hidden        boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

archived string optional. The archival status of the requested item(s).

limit integer optional. Number of results to return. Defaults to its maximum of 50.
page_num
type: integer optional. Page number of the results to return. Defaults to the first page, 1.

order
string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.

order_dir
string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **id** integer, The ID of the model.
- **tableName** string, The qualified name of the table containing the training set from which to build the model.
- **databaseId** integer, The ID of the database holding the training set table used to build the model.
- **credentialId** integer, The ID of the credential used to read the target table. Defaults to the user’s default credential.
- **modelName** string, The name of the model.
- **description** string, A description of the model.
- **interactionTerms** boolean, Whether to search for interaction terms.
- **boxCoxTransformation** boolean, Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.
- **modelTypeId** integer, The ID of the model’s type.
- **primaryKey** string, The unique ID (primary key) of the training dataset.
- **dependentVariable** string, The dependent variable of the training dataset.
- **dependentVariableOrder** array, The order of dependent variables, especially useful for Ordinal Modeling.
- **excludedColumns** array, A list of columns which will be considered ineligible to be independent variables.
- **limitingSQL** string, A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., "id > 105").
- **crossValidationParameters** list, Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].
- **numberOfFolds** integer, Number of folds for cross validation. Default value is 5.
- **schedule** list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
parentId integer, The ID of the parent job that will trigger this model.
timeZone string, The time zone of this model.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
uuser list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user's username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
createdAt string, The time the model was created.
updatedAt string, The time the model was updated.
currentBuildState string, The status of the current model build. One of "succeeded", "failed", "queued", or "running,"or "idle", if no build has been attempted.
currentBuildException string, Exception message, if applicable, of the current model build.
built builder, An array containing the following fields:
  • id integer, The ID of the model build.
  • name string, The name of the model build.
  • createdAt string, The time the model build was created.
  • description string, A description of the model build.
  • rootMeanSquaredError number, A key metric for continuous models. Nil for other model types.
  • rSquaredError number, A key metric for continuous models. Nil for other model types.
  • rocAuc number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.
predictions array, An array containing the following fields:
  • id integer, The ID of the model to which to apply the prediction.
  • tableName string, The qualified name of the table on which to apply the predictive model.
  • primaryKey array, The primary key or composite keys of the table being predicted.
models_list_builds

• limitingSQL string. A SQL WHERE clause used to scope the rows to be predicted.
• outputTable string. The qualified name of the table to be created which will contain the model’s predictions.
• state string. The status of the prediction. One of: "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.

lastOutputLocation string, The output JSON for the last build.
archived string, The archival status of the requested item(s).

models_list_builds  List builds for the given model

Description
List builds for the given model

Usage
models_list_builds(
id,
limit = NULL,
page_num = NULL,
order = NULL,
order_dir = NULL
)

Arguments
id integer required. The ID of the model.
limit integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num integer optional. Page number of the results to return. Defaults to the first page, 1.
order string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value
An array containing the following fields:
id integer. The ID of the model build.
state string. The state of the model build. One of ‘queued’ ‘running’ ‘succeeded’ ‘failed’ or ‘cancelled’.
models_list_builds_logs

Get the logs for a build

Description

Get the logs for a build

Usage

models_list_builds_logs(id, build_id, last_id = NULL, limit = NULL)

Arguments

id  integer required. The ID of the model.
build_id  integer required. The ID of the build.
last_id  integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit  integer optional. The maximum number of log messages to return. Default of 10000.
Value

An array containing the following fields:

- `id` integer, The ID of the log.
- `createdAt` string, The time the log was created.
- `message` string, The log message.
- `level` string, The level of the log. One of unknown, fatal, error, warn, info, debug.

models_list_projects  List the projects a Model belongs to

Description

List the projects a Model belongs to

Usage

models_list_projects(id, hidden = NULL)

Arguments

- `id` integer required. The ID of the Model.
- `hidden` boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

- `id` integer, The ID for this project.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.
- `name` string, The name of this project.
- `description` string, A description of the project.
- `users` array, An array containing the following fields:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
models_list_schedules

- online boolean, Whether this user is online.
  - autoShare boolean,
  - createdAt string,
  - updatedAt string,
  - archived string, The archival status of the requested item(s).

models_list_schedules  Show the model build schedule

Description

Show the model build schedule

Usage

models_list_schedules(id)

Arguments

id integer required. The ID of the model associated with this schedule.

Value

A list containing the following elements:

id integer, The ID of the model associated with this schedule.

schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
List users and groups permissioned on this object

Usage

models_list_shares(id)

Arguments

id integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
models_list_types

List all available model types

Description
List all available model types

Usage
models_list_types()

Value
An array containing the following fields:

- id: integer, The ID of the model type.
- algorithm: string, The name of the algorithm used to train the model.
- dvType: string, The type of dependent variable predicted by the model.
- fintAllowed: boolean, Whether this model type supports searching for interaction terms.

models_patch
Update model configuration

Description
Update model configuration

Usage
models_patch(
    id,
    table_name = NULL,
    database_id = NULL,
    credential_id = NULL,
    model_name = NULL,
    description = NULL,
    interaction_terms = NULL,
    box_cox_transformation = NULL,
    model_type_id = NULL,
    primary_key = NULL,
    dependent_variable = NULL,
    dependent_variable_order = NULL,
    excluded_columns = NULL,
    limiting_sql = NULL,
    active_build_id = NULL,
```py

cross_validation_parameters = NULL,
number_of_folds = NULL,
notifications = NULL,
schedule = NULL,
parent_id = NULL,
time_zone = NULL
)

Arguments

id integer required. The ID of the model.
table_name string optional. The qualified name of the table containing the training set from which to build the model.
database_id integer optional. The ID of the database holding the training set table used to build the model.
credential_id integer optional. The ID of the credential used to read the target table. Defaults to the user’s default credential.
model_name string optional. The name of the model.
description string optional. A description of the model.
interaction_terms boolean optional. Whether to search for interaction terms.
box_cox_transformation boolean optional. Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.
model_type_id integer optional. The ID of the model’s type.
primary_key string optional. The unique ID (primary key) of the training dataset.
dependent_variable string optional. The dependent variable of the training dataset.
dependent_variable_order array optional. The order of dependent variables, especially useful for Ordinal Modeling.
excluded_columns array optional. A list of columns which will be considered ineligible to be independent variables.
limiting_sql string optional. A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., "id > 105").
active_build_id integer optional. The ID of the current active build, the build used to score predictions.
cross_validation_parameters list optional. Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].
number_of_folds integer optional. Number of folds for cross validation. Default value is 5.
```
notifications list optional. A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

schedule list optional. A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parent_id integer optional. The ID of the parent job that will trigger this model.
time_zone string optional. The time zone of this model.

Value

An empty HTTP response

---

| models_post | Create new configuration for a model |

Description

Create new configuration for a model
models_post(
  table_name = NULL,
  database_id = NULL,
  credential_id = NULL,
  model_name = NULL,
  description = NULL,
  interaction_terms = NULL,
  box_cox_transformation = NULL,
  model_type_id = NULL,
  primary_key = NULL,
  dependent_variable = NULL,
  dependent_variable_order = NULL,
  excluded_columns = NULL,
  limiting_sql = NULL,
  active_build_id = NULL,
  cross_validation_parameters = NULL,
  number_of_folds = NULL,
  notifications = NULL,
  schedule = NULL,
  parent_id = NULL,
  time_zone = NULL,
  hidden = NULL
)

Arguments

  table_name  string optional. The qualified name of the table containing the training set from which to build the model.
  database_id integer optional. The ID of the database holding the training set table used to build the model.
  credential_id integer optional. The ID of the credential used to read the target table. Defaults to the user’s default credential.
  model_name  string optional. The name of the model.
  description  string optional. A description of the model.
  interaction_terms boolean optional. Whether to search for interaction terms.
  box_cox_transformation boolean optional. Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.
  model_type_id  integer optional. The ID of the model’s type.
  primary_key  string optional. The unique ID (primary key) of the training dataset.
  dependent_variable string optional. The dependent variable of the training dataset.
dependent_variable_order
array optional. The order of dependent variables, especially useful for Ordinal Modeling.

excluded_columns
array optional. A list of columns which will be considered ineligible to be independent variables.

limiting_sql
string optional. A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., "id > 105").

active_build_id
integer optional. The ID of the current active build, the build used to score predictions.

cross_validation_parameters
list optional. Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].

number_of_folds
integer optional. Number of folds for cross validation. Default value is 5.

notifications
list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

schedule
list optional. A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parent_id
integer optional. The ID of the parent job that will trigger this model.

time_zone
string optional. The time zone of this model.

hidden
boolean optional. The hidden status of the item.
Value

A list containing the following elements:

- **id**
  - integer, The ID of the model.

- **tableName**
  - string, The qualified name of the table containing the training set from which to build the model.

- **databaseId**
  - integer, The ID of the database holding the training set table used to build the model.

- **credentialId**
  - integer, The ID of the credential used to read the target table. Defaults to the user’s default credential.

- **modelName**
  - string, The name of the model.

- **description**
  - string, A description of the model.

- **interactionTerms**
  - boolean, Whether to search for interaction terms.

- **boxCoxTransformation**
  - boolean, Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.

- **modelTypeId**
  - integer, The ID of the model’s type.

- **primaryKey**
  - string, The unique ID (primary key) of the training dataset.

- **dependentVariable**
  - string, The dependent variable of the training dataset.

- **dependentVariableOrder**
  - array, The order of dependent variables, especially useful for Ordinal Modeling.

- **excludedColumns**
  - array, A list of columns which will be considered ineligible to be independent variables.

- **limitingSQL**
  - string, A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., "id > 105").

- **activeBuildId**
  - integer, The ID of the current active build, the build used to score predictions.

- **crossValidationParameters**
  - list, Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].

- **numberOfFolds**
  - integer, Number of folds for cross validation. Default value is 5.

- **notifications**
  - list, A list containing the following elements:
    - **urls** array, URLs to receive a POST request at job completion
    - **successEmailSubject** string, Custom subject line for success e-mail.
    - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
    - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
    - **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId integer, The ID of the parent job that will trigger this model.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

timeZone string, The time zone of this model.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

user list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

createdAt string, The time the model was created.

updatedAt string, The time the model was updated.

currentBuildState string, The status of the current model build. One of "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.
currentBuildException

   string, Exception message, if applicable, of the current model build.

builds array, An array containing the following fields:
   • id integer, The ID of the model build.
   • name string, The name of the model build.
   • createdAt string, The time the model build was created.
   • description string, A description of the model build.
   • rootMeanSquaredError number, A key metric for continuous models. Nil for other model types.
   • rSquaredError number, A key metric for continuous models. Nil for other model types.
   • rocAuc number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.

predictions array, An array containing the following fields:
   • id integer, The ID of the model to which to apply the prediction.
   • tableName string, The qualified name of the table on which to apply the predictive model.
   • primaryKey array, The primary key or composite keys of the table being predicted.
   • limitingSQL string, A SQL WHERE clause used to scope the rows to be predicted.
   • outputTable string, The qualified name of the table to be created which will contain the model’s predictions.
   • schedule object,
   • state string, The status of the prediction. One of: "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.

lastOutputLocation

   string, The output JSON for the last build.

archived string, The archival status of the requested item(s).

models_post_builds Start a build

Description

Start a build

Usage

   models_post_builds(id)

Arguments

   id integer required. The ID of the model.
Value

A list containing the following elements:

- **id** integer, The ID of the model build.
- **state** string, The state of the model build. one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **error** string, The error, if any, returned by the build.
- **name** string, The name of the model build.
- **createdAt** string, The time the model build was created.
- **description** string, A description of the model build.
- **rootMeanSquaredError** number, A key metric for continuous models. Nil for other model types.
- **rSquaredError** number, A key metric for continuous models. Nil for other model types.
- **rocAuc** number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.
- **transformationMetadata** string, A string representing the full JSON output of the metadata for transformation of column names.
- **output** string, A string representing the JSON output for the specified build. Only present when smaller than 10KB in size.
- **outputLocation** string, A URL representing the location of the full JSON output for the specified build. The URL link will be valid for 5 minutes.

---

**models_put_archive**

*Update the archive status of this object*

---

Description

Update the archive status of this object

Usage

```models_put_archive(id, status)```

Arguments

- **id** integer required. The ID of the object.
- **status** boolean required. The desired archived status of the object.
Value

A list containing the following elements:

- **id** integer, The ID of the model.
- **tableName** string, The qualified name of the table containing the training set from which to build the model.
- **databaseId** integer, The ID of the database holding the training set table used to build the model.
- **credentialId** integer, The ID of the credential used to read the target table. Defaults to the user’s default credential.
- **modelName** string, The name of the model.
- **description** string, A description of the model.
- **interactionTerms** boolean, Whether to search for interaction terms.
- **boxCoxTransformation** boolean, Whether to transform data so that it assumes a normal distribution. Valid only with continuous models.
- **modelTypeId** integer, The ID of the model’s type.
- **primaryKey** string, The unique ID (primary key) of the training dataset.
- **dependentVariable** string, The dependent variable of the training dataset.
- **dependentVariableOrder** array, The order of dependent variables, especially useful for Ordinal Modeling.
- **excludedColumns** array, A list of columns which will be considered ineligible to be independent variables.
- **limitingSQL** string, A custom SQL WHERE clause used to filter the rows used to build the model. (e.g., "id > 105").
- **activeBuildId** integer, The ID of the current active build, the build used to score predictions.
- **crossValidationParameters** list, Cross validation parameter grid for tree methods, e.g. "n_estimators": [100, 200, 500], "learning_rate": [0.01, 0.1], "max_depth": [2, 3].
- **numberOfFolds** integer, Number of folds for cross validation. Default value is 5.
- **notifications** list, A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion
  - **successEmailSubject** string, Custom subject line for success e-mail.
  - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
  - **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

parentId integer, The ID of the parent job that will trigger this model.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

timeZone string, The time zone of this model.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

user list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

createdAt string, The time the model was created.

updatedAt string, The time the model was updated.

currentBuildState string, The status of the current model build. One of “succeeded”, “failed”, “queued”, or “running,” or “idle”, if no build has been attempted.
currentBuildException
string, Exception message, if applicable, of the current model build.

builds
array, An array containing the following fields:
• id integer, The ID of the model build.
• name string, The name of the model build.
• createdAt string, The time the model build was created.
• description string, A description of the model build.
• rootMeanSquaredError number, A key metric for continuous models. Nil for other model types.
• rSquaredError number, A key metric for continuous models. Nil for other model types.
• rocAuc number, A key metric for binary, multinomial, and ordinal models. Nil for other model types.

predictions
array, An array containing the following fields:
• id integer, The ID of the model to which to apply the prediction.
• tableName string, The qualified name of the table on which to apply the predictive model.
• primaryKey array, The primary key or composite keys of the table being predicted.
• limitingSQL string, A SQL WHERE clause used to scope the rows to be predicted.
• outputTable string, The qualified name of the table to be created which will contain the model’s predictions.
• schedule object,
• state string, The status of the prediction. One of: "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.

lastOutputLocation
string, The output JSON for the last build.

archived
string, The archival status of the requested item(s).

models_put_predictions

Add a table on which to apply the predictive model

Description

Add a table on which to apply the predictive model
models_put_predictions

Usage

models_put_predictions(
    id,
    table_name,
    primary_key,
    limiting_sql = NULL,
    output_table = NULL,
    schedule = NULL
)

Arguments

id           integer required. The ID of the model to which to apply the prediction.
table_name   string required. The qualified name of the table on which to apply the predictive model.
primary_key  array required. The primary key or composite keys of the table being predicted.
limiting_sql string optional. A SQL WHERE clause used to scope the rows to be predicted.
output_table string optional. The qualified name of the table to be created which will contain the model’s predictions.
schedule     list optional. A list containing the following elements:
               • scheduled boolean, If the item is scheduled.
               • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
               • scheduledHours array, Hours of the day it is scheduled on.
               • scheduledMinutes array, Minutes of the day it is scheduled on.
               • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

Value

A list containing the following elements:

id          integer, The ID of the model to which to apply the prediction.
tableName   string, The qualified name of the table on which to apply the predictive model.
primaryKey  array, The primary key or composite keys of the table being predicted.
limitingSQL string, A SQL WHERE clause used to scope the rows to be predicted.
outputTable string, The qualified name of the table to be created which will contain the model’s predictions.
schedule    list, A list containing the following elements:
               • scheduled boolean, If the item is scheduled.
               • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
               • scheduledHours array, Hours of the day it is scheduled on.
               • scheduledMinutes array, Minutes of the day it is scheduled on.
               • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
models_put_schedules

state string, The status of the prediction. One of: "succeeded", "failed", "queued", or "running," or "idle", if no build has been attempted.

models_put_projects Add a Model to a project

Description
Add a Model to a project

Usage
models_put_projects(id, project_id)

Arguments
id integer required. The ID of the Model.
project_id integer required. The ID of the project.

Value
An empty HTTP response

models_put_schedules Schedule the model build

Description
Schedule the model build

Usage
models_put_schedules(id, schedule)

Arguments
id integer required. The ID of the model associated with this schedule.
schedule list required. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
Value

A list containing the following elements:

- **id** integer, The ID of the model associated with this schedule.
- **schedule** list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.

---

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

```python
models_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for email sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.
models_put_shares_users

Set the permissions users have on this object

Description
Set the permissions users have on this object

Usage
models_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments
id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.
multipart_upload

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

multipart_upload  Upload to files endpoint in parts.

Description

If a future::plan has been set, will be carried out in parallel.

Usage

multipart_upload(file, name = "", chunk_size = 32 * 1024, expires_at = NULL)

Arguments

- **file** the file
- **name** name of the upload, defaults to
- **chunk_size** size of the chunks in bytes
- **expires_at** when the file expires (default never).
**notebooks_delete**  
*Archive a Notebook (deprecated, use archiving endpoints instead)*

**Description**

Archive a Notebook (deprecated, use archiving endpoints instead)

**Usage**

`notebooks_delete(id)`

**Arguments**

- **id**  
  integer required.

**Value**

An empty HTTP response

---

**notebooks_delete_deployments**  
*Delete a Notebook deployment*

**Description**

Delete a Notebook deployment

**Usage**

`notebooks_delete_deployments(notebook_id, deployment_id)`

**Arguments**

- **notebook_id**  
  integer required. The ID of the owning Notebook
- **deployment_id**  
  integer required. The ID for this deployment

**Value**

An empty HTTP response
notebooks_delete_projects

Remove a Notebook from a project

Description
Remove a Notebook from a project

Usage
notebooks_delete_projects(id, project_id)

Arguments
<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the Notebook.</td>
</tr>
<tr>
<td>project_id</td>
<td>integer required. The ID of the project.</td>
</tr>
</tbody>
</table>

Value
An empty HTTP response

notebooks_delete_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
notebooks_delete_shares_groups(id, group_id)

Arguments
<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>group_id</td>
<td>integer required. The ID of the group.</td>
</tr>
</tbody>
</table>

Value
An empty HTTP response
notebooks_delete_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
notebooks_delete_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response

notebooks_get
Get a Notebook

Description
Get a Notebook

Usage
notebooks_get(id)

Arguments
id integer required.

Value
A list containing the following elements:

id integer, The ID for this notebook.
name string, The name of this notebook.
language string, The kernel language of this notebook.
description string, The description of this notebook.
notebookUrl string, Time-limited URL to get the .ipynb file for this notebook.
notebooks_get

notebookPreviewUrl
    string, Time-limited URL to get the .htm preview file for this notebook.

requirementsUrl
    string, Time-limited URL to get the requirements.txt file for this notebook.

fileId
    string, The file ID for the S3 file containing the .ipynb file.

requirementsFileId
    string, The file ID for the S3 file containing the requirements.txt file.

user
    list, A list containing the following elements:
    • id integer, The ID of this user.
    • name string, This user’s name.
    • username string, This user’s username.
    • initials string, This user’s initials.
    • online boolean, Whether this user is online.

dockerImageName
    string, The name of the docker image to pull from DockerHub.

dockerImageTag
    string, The tag of the docker image to pull from DockerHub (default: latest).

instanceType
    string, The EC2 instance type to deploy to.

memory
    integer, The amount of memory allocated to the notebook.

cpu
    integer, The amount of cpu allocated to the the notebook.

createdAt

updatedAt

mostRecentDeployment
    list, A list containing the following elements:
    • deploymentId integer, The ID for this deployment.
    • userId integer, The ID of the owner.
    • host string, Domain of the deployment.
    • name string, Name of the deployment.
    • dockerImageName string, The name of the docker image to pull from Dock-
      erHub.
    • dockerImageTag string, The tag of the docker image to pull from Docker-
      Hub (default: latest).
    • displayUrl string, A signed URL for viewing the deployed item.
    • instanceType string, The EC2 instance type requested for the deployment.
    • memory integer, The memory allocated to the deployment.
    • cpu integer, The cpu allocated to the deployment.
    • state string, The state of the deployment.
    • stateMessage string, A detailed description of the state.
    • createdAt string,
    • updatedAt string,

credentials
    array, A list of credential IDs to pass to the notebook.
environmentVariables
  list, Environment variables to be passed into the Notebook.
idleTimeout
  integer, How long the notebook will stay alive without any kernel activity.
gitRepoId
  integer, The ID of the git repository.
gitRepoUrl
  string, The url of the git repository.
gitRef
  string, The git reference if git repo is specified.
gitPath
  string, The path to the .ipynb file in the git repo that will be started up on notebook launch.
archived
  string, The archival status of the requested item(s).
hidden
  boolean, The hidden status of the item.

---

**notebooks_get_deployments**

*Get details about a Notebook deployment*

**Description**

Get details about a Notebook deployment

**Usage**

```python
notebooks_get_deployments(notebook_id, deployment_id)
```

**Arguments**

- **notebook_id**: integer required. The ID of the owning Notebook
- **deployment_id**: integer required. The ID for this deployment

**Value**

A list containing the following elements:

- **deploymentId**: integer, The ID for this deployment.
- **userId**: integer, The ID of the owner.
- **host**: string, Domain of the deployment.
- **name**: string, Name of the deployment.
- **dockerImageName**: string, The name of the docker image to pull from DockerHub.
- **dockerImageTag**: string, The tag of the docker image to pull from DockerHub (default: latest).
- **displayUrl**: string, A signed URL for viewing the deployed item.
- **instanceType**: string, The EC2 instance type requested for the deployment.
- **memory**: integer, The memory allocated to the deployment.
- **cpu**: integer, The cpu allocated to the deployment.
notebooks_get_git_commits

Get file contents at commit_hash

Description

Get file contents at commit_hash

Usage

notebooks_get_git_commits(id, commit_hash)

Arguments

id    integer required. The ID of the file.
commit_hash    string required. The SHA (full or shortened) of the desired git commit.

Value

A list containing the following elements:

content    string, The file’s contents.
type    string, The file’s type.
size    integer, The file’s size.
fileHash    string, The SHA of the file.

state    string, The state of the deployment.
stateMessage    string, A detailed description of the state.
createdAt    string,
updatedAt    string,
published    boolean,
notebookId    integer, The ID of owning Notebook
### Description

List Notebooks

### Usage

```r
notebooks_list(
    hidden = NULL,
    archived = NULL,
    author = NULL,
    status = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

### Arguments

- **hidden**: boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
- **archived**: string optional. The archival status of the requested item(s).
- **author**: string optional. If specified, return imports from this author. It accepts a comma-separated list of author IDs.
- **status**: string optional. If specified, returns notebooks with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'pending', 'idle'.
- **limit**: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

### Value

An array containing the following fields:

- **id**: integer, The ID for this notebook.
- **name**: string, The name of this notebook.
- **language**: string, The kernel language of this notebook.
**notebooks_list_deployments**

**Description**

List deployments for a Notebook
Usage

```
notebooks_list_deployments(
    notebook_id,
    deployment_id = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- `notebook_id` integer required. The ID of the owning Notebook
- `deployment_id` integer optional. The ID for this deployment
- `limit` integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
- `page_num` integer optional. Page number of the results to return. Defaults to the first page, 1.
- `order` string optional. The field on which to order the result set. Defaults to `created_at`. Must be one of: `created_at`.
- `order_dir` string optional. Direction in which to sort, either `asc` (ascending) or `desc` (descending) defaulting to `desc`.

Value

An array containing the following fields:

- `deploymentId` integer, The ID for this deployment.
- `userId` integer, The ID of the owner.
- `host` string, Domain of the deployment.
- `name` string, Name of the deployment.
- `dockerImageName` string, The name of the docker image to pull from DockerHub.
- `dockerImageTag` string, The tag of the docker image to pull from DockerHub (default: latest).
- `instanceType` string, The EC2 instance type requested for the deployment.
- `memory` integer, The memory allocated to the deployment.
- `cpu` integer, The cpu allocated to the deployment.
- `state` string, The state of the deployment.
- `stateMessage` string, A detailed description of the state.
- `createdAt` string,
- `updatedAt` string,
- `published` boolean,
- `notebookId` integer, The ID of owning Notebook
Description

Get the logs for a Notebook deployment

Usage

```python
notebooks_list_deployments_logs(
    id,
    deployment_id,
    start_at = NULL,
    end_at = NULL,
    limit = NULL
)
```

Arguments

- **id** integer required. The ID of the owning Notebook.
- **deployment_id** integer required. The ID for this deployment.
- **start_at** string optional. Log entries with a lower timestamp will be omitted.
- **end_at** string optional. Log entries with a higher timestamp will be omitted.
- **limit** integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

- **message** string, The log message.
- **stream** string, The stream of the log. One of "stdout", "stderr".
- **createdAt** string, The time the log was created.
- **source** string, The source of the log. One of "system", "user".
notebooks_list_git

Get the git metadata attached to an item

Description
Get the git metadata attached to an item

Usage
notebooks_list_git(id)

Arguments
id integer required. The ID of the file.

Value
A list containing the following elements:

- **gitRef** string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** string, The git branch that the file is on.
- **gitPath** string, The path of the file in the repository.
- **gitRepo** list, A list containing the following elements:
  - **id** integer, The ID for this git repository.
  - **repoUrl** string, The URL for this git repository.
  - **createdAt** string,
  - **updatedAt** string,
- **pullFromGit** boolean, Automatically pull latest commit from git. Only works for scripts.

notebooks_list_git_commits

Get the git commits for an item

Description
Get the git commits for an item

Usage
notebooks_list_git_commits(id)

Arguments
id integer required. The ID of the file.
notebooks_list_projects

Value

A list containing the following elements:

- commitHash string, The SHA of the commit.
- authorName string, The name of the commit’s author.
- date string, The commit’s timestamp.
- message string, The commit message.

notebooks_list_projects

List the projects a Notebook belongs to

Description

List the projects a Notebook belongs to

Usage

notebooks_list_projects(id, hidden = NULL)

Arguments

- id integer required. The ID of the Notebook.
- hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

- id integer, The ID for this project.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- name string, The name of this project.
- description string, A description of the project.
- users array, An array containing the following fields:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
notebooks_list_shares

- initials string, This user’s initials.
- online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).

---

**notebooks_list_shares**  *List users and groups permissioned on this object*

**Description**

List users and groups permissioned on this object

**Usage**

`notebooks_list_shares(id)`

**Arguments**

id integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
notebooks_list_update_links

Description
Get URLs to update notebook

Usage
notebooks_list_update_links(id)

Arguments
id integer required.

Value
A list containing the following elements:
- **updateUrl** string, Time-limited URL to PUT new contents of the .ipynb file for this notebook.
- **updatePreviewUrl** string, Time-limited URL to PUT new contents of the .htm preview file for this notebook.

---

notebooks_patch

Update some attributes of this Notebook

Description
Update some attributes of this Notebook

Usage
notebooks_patch(
    id,
    name = NULL,
    language = NULL,
    description = NULL,
    file_id = NULL,
    requirements_file_id = NULL,
    requirements = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    instance_type = NULL,
memory = NULL,
cpu = NULL,
credentials = NULL,
environment_variables = NULL,
idle_timeout = NULL,
git_repo_url = NULL,
git_ref = NULL,
git_path = NULL
)

Arguments

id integer required. The ID for this notebook.
name string optional. The name of this notebook.
language string optional. The kernel language of this notebook.
description string optional. The description of this notebook.
file_id string optional. The file ID for the S3 file containing the .ipynb file.
requirements_file_id string optional. The file ID for the S3 file containing the requirements.txt file.
requirements string optional. The requirements txt file.
docker_image_name string optional. The name of the docker image to pull from DockerHub.
docker_image_tag string optional. The tag of the docker image to pull from DockerHub (default: latest).
instance_type string optional. The EC2 instance type to deploy to.
memory integer optional. The amount of memory allocated to the notebook.
cpu integer optional. The amount of cpu allocated to the the notebook.
credentials array optional. A list of credential IDs to pass to the notebook.
environment_variables list optional. Environment variables to be passed into the Notebook.
idle_timeout integer optional. How long the notebook will stay alive without any kernel activity.
git_repo_url string optional. The url of the git repository
git_ref string optional. The git reference if git repo is specified
git_path string optional. The path to the .ipynb file in the git repo that will be started up on notebook launch

Value

A list containing the following elements:

id integer, The ID for this notebook.
name string, The name of this notebook.
language string, The kernel language of this notebook.
description string, The description of this notebook.
notebookUrl string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl string, Time-limited URL to get the requirements.txt file for this notebook.
fileId string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId string, The file ID for the S3 file containing the requirements.txt file.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
dockerImageName string, The name of the docker image to pull from DockerHub.
dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType string, The EC2 instance type to deploy to.
memory integer, The amount of memory allocated to the notebook.
cpu integer, The amount of cpu allocated to the notebook.
createdAt string,
updatedAt string,
mostRecentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
  • stateMessage string, A detailed description of the state.
  • createdAt string,
• updatedAt string,
• published boolean,
• notebookId integer, The ID of owning Notebook

credentials array, A list of credential IDs to pass to the notebook.
environmentVariables list, Environment variables to be passed into the Notebook.
idleTimeout integer, How long the notebook will stay alive without any kernel activity.
gitRepoId integer, The ID of the git repository.
gitRepoUrl string, The url of the git repository.
gitRef string, The git reference if git repo is specified

gitPath string, The path to the .ipynb file in the git repo that will be started up on notebook launch

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.

---

**notebooks_post**

Create a Notebook

**Description**

Create a Notebook

**Usage**

```python
notebooks_post(
    name = NULL,
    language = NULL,
    description = NULL,
    file_id = NULL,
    requirements_file_id = NULL,
    requirements = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    instance_type = NULL,
    memory = NULL,
    cpu = NULL,
    credentials = NULL,
    environment_variables = NULL,
    idle_timeout = NULL,
    git_repo_url = NULL,
    git_ref = NULL,
    git_path = NULL,
    hidden = NULL
)
```
Arguments

- **name** (string optional): The name of this notebook.
- **language** (string optional): The kernel language of this notebook.
- **description** (string optional): The description of this notebook.
- **file_id** (string optional): The file ID for the S3 file containing the .ipynb file.
- **requirements_file_id** (string optional): The file ID for the S3 file containing the requirements.txt file.
- **requirements** (string optional): The requirements.txt file.
- **docker_image_name** (string optional): The name of the docker image to pull from DockerHub.
- **docker_image_tag** (string optional): The tag of the docker image to pull from DockerHub (default: latest).
- **instance_type** (string optional): The EC2 instance type to deploy to.
- **memory** (integer optional): The amount of memory allocated to the notebook.
- **cpu** (integer optional): The amount of cpu allocated to the notebook.
- **credentials** (array optional): A list of credential IDs to pass to the notebook.
- **environment_variables** (list optional): Environment variables to be passed into the Notebook.
- **idle_timeout** (integer optional): How long the notebook will stay alive without any kernel activity.
- **git_repo_url** (string optional): The url of the git repository.
- **git_ref** (string optional): The git reference if git repo is specified.
- **git_path** (string optional): The path to the .ipynb file in the git repo that will be started up on notebook launch.
- **hidden** (boolean optional): The hidden status of the item.

Value

A list containing the following elements:

- **id** (integer): The ID for this notebook.
- **name** (string): The name of this notebook.
- **language** (string): The kernel language of this notebook.
- **description** (string): The description of this notebook.
- **notebookUrl** (string): Time-limited URL to get the .ipynb file for this notebook.
- **notebookPreviewUrl** (string): Time-limited URL to get the .htm preview file for this notebook.
- **requirementsUrl** (string): Time-limited URL to get the requirements.txt file for this notebook.
- **fileId** (string): The file ID for the S3 file containing the .ipynb file.
requirementsFileId

string, The file ID for the S3 file containing the requirements.txt file.

user

list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

dockerImageName

string, The name of the docker image to pull from DockerHub.

dockerImageTag

string, The tag of the docker image to pull from DockerHub (default: latest).

instanceType

string, The EC2 instance type to deploy to.

memory

integer, The amount of memory allocated to the notebook.

cpu

integer, The amount of cpu allocated to the the notebook.

createdAt

string,

updatedAt

string,

mostRecentDeployment

list, A list containing the following elements:

- deploymentId integer, The ID for this deployment.
- userId integer, The ID of the owner.
- host string, Domain of the deployment.
- name string, Name of the deployment.
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- notebookId integer, The ID of owning Notebook

credentials

array, A list of credential IDs to pass to the notebook.

environmentVariables

list, Environment variables to be passed into the Notebook.

idleTimeout

integer, How long the notebook will stay alive without any kernel activity.

gitRepoId

integer, The ID of the git repository.
gitRepoUrl  string, The url of the git repository
gitRef  string, The git reference if git repo is specified
gitPath  string, The path to the .ipynb file in the git repo that will be started up on notebook launch
archived  string, The archival status of the requested item(s).
hidden  boolean, The hidden status of the item.

Description
Clone this Notebook

Usage
notebooks_post_clone(id)

Arguments
id  integer required.

Value
A list containing the following elements:
id  integer, The ID for this notebook.
name  string, The name of this notebook.
language  string, The kernel language of this notebook.
description  string, The description of this notebook.
notebookUrl  string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl  string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl  string, Time-limited URL to get the requirements.txt file for this notebook.
fileId  string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId  string, The file ID for the S3 file containing the requirements.txt file.
user  list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
- online boolean, Whether this user is online.

dockerImageName
string, The name of the docker image to pull from DockerHub.
dockerImageTag
string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType
string, The EC2 instance type to deploy to.
memory
integer, The amount of memory allocated to the notebook.
cpu
integer, The amount of cpu allocated to the the notebook.
createdAt
string,
updatedAt
string,
mostRecentDeployment
list, A list containing the following elements:
  - deploymentId integer, The ID for this deployment.
  - userId integer, The ID of the owner.
  - host string, Domain of the deployment.
  - name string, Name of the deployment.
  - dockerImageName string, The name of the docker image to pull from DockerHub.
  - dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  - displayUrl string, A signed URL for viewing the deployed item.
  - instanceType string, The EC2 instance type requested for the deployment.
  - memory integer, The memory allocated to the deployment.
  - cpu integer, The cpu allocated to the deployment.
  - state string, The state of the deployment.
  - stateMessage string, A detailed description of the state.
  - createdAt string,
  - updatedAt string,
  - published boolean,
  - notebookId integer, The ID of owning Notebook

credentials
array, A list of credential IDs to pass to the notebook.
environmentVariables
list, Environment variables to be passed into the Notebook.
idleTimeout
integer, How long the notebook will stay alive without any kernel activity.
gitRepoId
integer, The ID of the git repository.
gitRepoUrl
string, The url of the git repository
gitRef
string, The git reference if git repo is specified
gitPath
string, The path to the .ipynb file in the git repo that will be started up on notebook launch
archived
string, The archival status of the requested item(s).
hidden
boolean, The hidden status of the item.
deploy_notebooks_post_deployments

*Description*

Deploy a Notebook

*Usage*

```r
deploy_notebooks_post_deployments(notebook_id, deployment_id = NULL, published = NULL)
```

*Arguments*

- **notebook_id**: integer required. The ID of the owning Notebook
- **deployment_id**: integer optional. The ID for this deployment
- **published**: boolean optional.

*Value*

A list containing the following elements:

- **deploymentId**: integer, The ID for this deployment.
- **userId**: integer, The ID of the owner.
- **host**: string, Domain of the deployment.
- **name**: string, Name of the deployment.
- **dockerImageName**: string, The name of the docker image to pull from DockerHub.
- **dockerImageTag**: string, The tag of the docker image to pull from DockerHub (default: latest).
- **displayUrl**: string, A signed URL for viewing the deployed item.
- **instanceType**: string, The EC2 instance type requested for the deployment.
- **memory**: integer, The memory allocated to the deployment.
- **cpu**: integer, The cpu allocated to the deployment.
- **state**: string, The state of the deployment.
- **stateMessage**: string, A detailed description of the state.
- **createdAt**: string,
- **updatedAt**: string,
- **published**: boolean,
- **notebookId**: integer, The ID of owning Notebook
notebooks_post_git_commits

Commit and push a new version of the file

Description
Commit and push a new version of the file

Usage
notebooks_post_git_commits(id, content, message, file_hash)

Arguments
id
integer required. The ID of the file.
content
string required. The contents to commit to the file.
message
string required. A commit message describing the changes being made.
file_hash
string required. The full SHA of the file being replaced.

Value
A list containing the following elements:
content
string, The file’s contents.
type
string, The file’s type.
size
integer, The file’s size.
fileHash
string, The SHA of the file.

notebooks_put

Replace all attributes of this Notebook

Description
Replace all attributes of this Notebook

Usage
notebooks_put(
id,
name = NULL,
language = NULL,
description = NULL,
file_id = NULL,
requirements_file_id = NULL,
notebooks_put

```python
requirements = NULL,
docker_image_name = NULL,
docker_image_tag = NULL,
instance_type = NULL,
memory = NULL,
cpu = NULL,
credentials = NULL,
environment_variables = NULL,
idle_timeout = NULL,
git_repo_url = NULL,
git_ref = NULL,
git_path = NULL
)
```

**Arguments**

- **id**: integer required. The ID for this notebook.
- **name**: string optional. The name of this notebook.
- **language**: string optional. The kernel language of this notebook.
- **description**: string optional. The description of this notebook.
- **file_id**: string optional. The file ID for the S3 file containing the .ipynb file.
- **requirements_file_id**: string optional. The file ID for the S3 file containing the requirements.txt file.
- **requirements**: string optional. The requirements txt file.
- **docker_image_name**: string optional. The name of the docker image to pull from DockerHub.
- **docker_image_tag**: string optional. The tag of the docker image to pull from DockerHub (default: latest).
- **instance_type**: string optional. The EC2 instance type to deploy to.
- **memory**: integer optional. The amount of memory allocated to the notebook.
- **cpu**: integer optional. The amount of cpu allocated to the notebook.
- **credentials**: array optional. A list of credential IDs to pass to the notebook.
- **environment_variables**: list optional. Environment variables to be passed into the Notebook.
- **idle_timeout**: integer optional. How long the notebook will stay alive without any kernel activity.
- **git_repo_url**: string optional. The url of the git repository
- **git_ref**: string optional. The git reference if git repo is specified
- **git_path**: string optional. The path to the .ipynb file in the git repo that will be started up on notebook launch
Value

A list containing the following elements:

id integer, The ID for this notebook.
name string, The name of this notebook.
language string, The kernel language of this notebook.
description string, The description of this notebook.
notebookUrl string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl string, Time-limited URL to get the requirements.txt file for this notebook.
fileId string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId string, The file ID for the S3 file containing the requirements.txt file.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
dockerImageName string, The name of the docker image to pull from DockerHub.
dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType string, The EC2 instance type to deploy to.
memory integer, The amount of memory allocated to the notebook.
cpu integer, The amount of cpu allocated to the notebook.
createdAt string,
updatedAt string,
mostRecentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- notebookId integer, The ID of owning Notebook

credentials array, A list of credential IDs to pass to the notebook.

evironmentVariables list, Environment variables to be passed into the Notebook.

idleTimeout integer, How long the notebook will stay alive without any kernel activity.
gitRepoId integer, The ID of the git repository.
gitRepoUrl string, The url of the git repository

gitRef string, The git reference if git repo is specified

gitPath string, The path to the .ipynb file in the git repo that will be started up on notebook launch

archived string, The archival status of the requested item(s).

hidden boolean, The hidden status of the item.

---

**notebooks_put_archive**  
*Update the archive status of this object*

**Description**

Update the archive status of this object

**Usage**

```
notebooks_put_archive(id, status)
```

**Arguments**

- **id** integer required. The ID of the object.
- **status** boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id** integer, The ID for this notebook.
- **name** string, The name of this notebook.
- **language** string, The kernel language of this notebook.
description string, The description of this notebook.
notebookUrl string, Time-limited URL to get the .ipynb file for this notebook.
notebookPreviewUrl string, Time-limited URL to get the .htm preview file for this notebook.
requirementsUrl string, Time-limited URL to get the requirements.txt file for this notebook.
fileId string, The file ID for the S3 file containing the .ipynb file.
requirementsFileId string, The file ID for the S3 file containing the requirements.txt file.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
dockerImageName string, The name of the docker image to pull from DockerHub.
dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
instanceType string, The EC2 instance type to deploy to.
memory integer, The amount of memory allocated to the notebook.
cpu integer, The amount of cpu allocated to the notebook.
createdAt string,
updatedAt string,
mostRecentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
  • stateMessage string, A detailed description of the state.
  • createdAt string,
  • updatedAt string,
• published boolean,
• notebookId integer, The ID of owning Notebook

credentials array, A list of credential IDs to pass to the notebook.

environmentVariables list, Environment variables to be passed into the Notebook.

idleTimeout integer, How long the notebook will stay alive without any kernel activity.

gitRepoId integer, The ID of the git repository.

gitRepoUrl string, The url of the git repository.

gitRef string, The git reference if git repo is specified

gitPath string, The path to the .ipynb file in the git repo that will be started up on notebook launch

archived string, The archival status of the requested item(s).

hidden boolean, The hidden status of the item.

---

**notebooks_put_git**  
*Attach an item to a file in a git repo*

**Description**

Attach an item to a file in a git repo

**Usage**

```python
notebooks_put_git(
    id,
    git_ref = NULL,
    git_branch = NULL,
    git_path = NULL,
    git_repo_url = NULL,
    pull_from_git = NULL
)
```

**Arguments**

- **id** integer required. The ID of the file.
- **git_ref** string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **git_branch** string optional. The git branch that the file is on.
- **git_path** string optional. The path of the file in the repository.
- **git_repo_url** string optional. The URL of the git repository.
- **pull_from_git** boolean optional. Automatically pull latest commit from git. Only works for scripts.
Value

A list containing the following elements:

- **gitRef** string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** string, The git branch that the file is on.
- **gitPath** string, The path of the file in the repository.
- **gitRepo** list, A list containing the following elements:
  - **id** integer, The ID for this git repository.
  - **repoUrl** string, The URL for this git repository.
  - **createdAt** string,
  - **updatedAt** string,
- **pullFromGit** boolean, Automatically pull latest commit from git. Only works for scripts.

---

**notebooks_put_projects**

*Add a Notebook to a project*

**Description**

Add a Notebook to a project

**Usage**

```
notebooks_put_projects(id, project_id)
```

**Arguments**

- **id** integer required. The ID of the Notebook.
- **project_id** integer required. The ID of the project.

**Value**

An empty HTTP response
notebooks_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

```python	notebooks_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

- `id`: integer required. The ID of the resource that is shared.
- `group_ids`: array required. An array of one or more group IDs.
- `permission_level`: string required. Options are: "read", "write", or "manage".
- `share_email_body`: string optional. Custom body text for e-mail sent on a share.
- `send_shared_email`: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- `readers`: list, A list containing the following elements:
  - users array,
  - groups array,

- `writers`: list, A list containing the following elements:
  - users array,
  - groups array,

- `owners`: list, A list containing the following elements:
  - users array,
  - groups array,

- `totalUserShares`: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

notebooks_put_shares_users
Set the permissions users have on this object

Description
Set the permissions users have on this object

Usage
notebooks_put_shares_users(
   id,
   user_ids,
   permission_level,
   share_email_body = NULL,
   send_shared_email = NULL
)

Arguments
id
   integer required. The ID of the resource that is shared.
user_ids
   array required. An array of one or more user IDs.
permission_level
   string required. Options are: "read", "write", or "manage".
share_email_body
   string optional. Custom body text for e-mail sent on a share.
send_shared_email
   boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:
readers
   list, A list containing the following elements:
   • users array,
   • groups array,
writers
   list, A list containing the following elements:
   • users array,
   • groups array,
owners
   list, A list containing the following elements:
   • users array,
**notifications_list**

* groups array,

  - totalUserShares
    - integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
  - totalGroupShares
    - integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**notifications_list**  
*Receive a stream of notifications as they come in*

**Description**

Receive a stream of notifications as they come in

**Usage**

```
notifications_list(last_event_id = NULL, r = NULL, mock = NULL)
```

**Arguments**

- `last_event_id`  
  - string optional. allows browser to keep track of last event fired
- `r`  
  - string optional. specifies retry/reconnect timeout
- `mock`  
  - string optional. used for testing

**Value**

An empty HTTP response

---

**ontology_list**  
*List the ontology of column names Civis uses*

**Description**

List the ontology of column names Civis uses

**Usage**

```
ontology_list(subset = NULL)
```

**Arguments**

- `subset`  
  - string optional. A subset of fields to return.
Value
An array containing the following fields:

- key : string,
- title : string,
- desc : string, A description of this field.
- aliases : array,

---

plot.civis_ml_classifier

Description
Decile plot for classification with civis_ml

Usage
```r
## S3 method for class 'civis_ml_classifier'
plot(x, name = NULL, ...)
```

Arguments
- x : civis_ml object.
- name : Name of the class in a multiclass model to plot.
- ... : unused.

Value
A ggplot2 plot object is returned invisibly.

---

plot.civis_ml_regressor

Description
Y-yhat plot for regression with civis_ml

Usage
```r
## S3 method for class 'civis_ml_regressor'
plot(x, ...)
```
predictions_delete_runs

**Arguments**

- `x` civis_ml object
- `...` unused

**Value**

A ggplot2 plot object is returned invisibly.

---

predictions_delete_runs

*Cancel a run*

**Description**

Cancel a run

**Usage**

predictions_delete_runs(id, run_id)

**Arguments**

- `id` integer required. The ID of the prediction.
- `run_id` integer required. The ID of the run.

**Value**

An empty HTTP response

---

predictions_get

*Show the specified prediction*

**Description**

Show the specified prediction

**Usage**

predictions_get(id)

**Arguments**

- `id` integer required. The ID of the prediction.
Value

A list containing the following elements:

- **id** integer, The ID of the prediction.
- **modelId** integer, The ID of the model used for this prediction.
- **scoredTableId** integer, The ID of the source table for this prediction.
- **scoredTableName** string, The name of the source table for this prediction.
- **outputTableName** string, The name of the output table for this prediction.
- **state** string, The state of the last run of this prediction.
- **error** string, The error, if any, of the last run of this prediction.
- **startedAt** string, The start time of the last run of this prediction.
- **finishedAt** string, The end time of the last run of this prediction.
- **lastRun** list, A list containing the following elements:
  - **id** integer,
  - **state** string,
  - **createdAt** string, The time that the run was queued.
  - **startedAt** string, The time that the run started.
  - **finishedAt** string, The time that the run completed.
  - **error** string, The error message for this run, if present.
- **scoredTables** array, An array containing the following fields:
  - **id** integer, The ID of the table with created predictions.
  - **schema** string, The schema of table with created predictions.
  - **name** string, The name of table with created predictions.
  - **createdAt** string, The time when the table with created predictions was created.
  - **scoreStats** array, An array of metrics on the created predictions.
- **schedule** list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.
- **limitingSQL** string, A SQL WHERE clause used to scope the rows to be predicted.
- **primaryKey** array, The primary key or composite keys of the table being predicted.
predictions_get_runs  Check status of a run

Description

Check status of a run

Usage

predictions_get_runs(id, run_id)

Arguments

id  integer required. The ID of the prediction.
run_id  integer required. The ID of the run.

Value

A list containing the following elements:

id  integer, The ID of the prediction run.
predictionId  integer, The ID of the prediction.
state  string, The state of the prediction run.
exception  string, The exception, if any, returned by the prediction run.
name  string, The name of table created by this predictions run.
createdAt  string, The time when the table with created predictions was created.
scoreStats  array, An array containing the following fields:
  • scoreName string, The name of the score.
  • histogram array, The histogram of the distribution of scores.
  • avgScore number, The average score.
  • minScore number, The minimum score.
  • maxScore number, The maximum score.
predictions_list  

List predictions

**Description**

List predictions

**Usage**

```r
predictions_list(model_id = NULL)
```

**Arguments**

- `model_id`  
  integer optional. If specified, only return predictions associated with this model ID.

**Value**

An array containing the following fields:

- `id`  
  integer, The ID of the prediction.

- `modelId`  
  integer, The ID of the model used for this prediction.

- `scoredTableId`  
  integer, The ID of the source table for this prediction.

- `scoredTableName`  
  string, The name of the source table for this prediction.

- `outputTableName`  
  string, The name of the output table for this prediction.

- `state`  
  string, The state of the last run of this prediction.

- `error`  
  string, The error, if any, of the last run of this prediction.

- `startedAt`  
  string, The start time of the last run of this prediction.

- `finishedAt`  
  string, The end time of the last run of this prediction.

- `lastRun`  
  list, A list containing the following elements:

  - `id` integer,
  - `state` string,
  - `createdAt` string, The time that the run was queued.
  - `startedAt` string, The time that the run started.
  - `finishedAt` string, The time that the run completed.
  - `error` string, The error message for this run, if present.
predictions_list_runs  List runs for the given prediction

Description

List runs for the given prediction

Usage

predictions_list_runs(
   id,
   limit = NULL,
   page_num = NULL,
   order = NULL,
   order_dir = NULL
)

Arguments

id          integer required. The ID of the prediction.
limit       integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num    integer optional. Page number of the results to return. Defaults to the first page, 1.
order       string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir   string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id          integer, The ID of the prediction run.
predictionId integer, The ID of the prediction.
state       string, The state of the prediction run.
exception   string, The exception, if any, returned by the prediction run.
name        string, The name of table created by this predictions run.
createdAt   string, The time when the table with created predictions was created.
scoreStats  array, An array containing the following fields:
            • scoreName string, The name of the score.
            • histogram array, The histogram of the distribution of scores.
            • avgScore number, The average score.
            • minScore number, The minimum score.
            • maxScore number, The maximum score.
predictions_list_runs_logs

*Get the logs for a run*

**Description**

Get the logs for a run

**Usage**

```r
predictions_list_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

- `id`: integer required. The ID of the prediction.
- `run_id`: integer required. The ID of the run.
- `last_id`: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- `limit`: integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

- `id`: integer, The ID of the log.
- `createdAt`: string, The time the log was created.
- `level`: string, The level of the log. One of unknown, fatal, error, warn, info, debug.

---

predictions_list_schedules

*Show the prediction schedule*

**Description**

Show the prediction schedule

**Usage**

```r
predictions_list_schedules(id)
```
Arguments

id integer required. ID of the prediction associated with this schedule.

Value

A list containing the following elements:

id integer, ID of the prediction associated with this schedule.

schedule list, A list containing the following elements:

• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

scoreOnModelBuild

boolean, Whether the prediction will run after a rebuild of the associated model.

predictions_patch Update a prediction

Description

Update a prediction

Usage

predictions_patch(
  id,
  output_table_name = NULL,
  limiting_sql = NULL,
  primary_key = NULL
)

Arguments

id integer required. The ID of the prediction.

output_table_name string optional. The name of the output table for this prediction.

limiting_sql string optional. A SQL WHERE clause used to scope the rows to be predicted.

primary_key array optional. The primary key or composite keys of the table being predicted.
Value

A list containing the following elements:

- id: integer, The ID of the prediction.
- modelId: integer, The ID of the model used for this prediction.
- scoredTableId: integer, The ID of the source table for this prediction.
- scoredTableName: string, The name of the source table for this prediction.
- outputTableName: string, The name of the output table for this prediction.
- state: string, The state of the last run of this prediction.
- error: string, The error, if any, of the last run of this prediction.
- startedAt: string, The start time of the last run of this prediction.
- finishedAt: string, The end time of the last run of this prediction.
- lastRun: list, A list containing the following elements:
  - id: integer,
  - state: string,
  - createdAt: string, The time that the run was queued.
  - startedAt: string, The time that the run started.
  - finishedAt: string, The time that the run completed.
  - error: string, The error message for this run, if present.
- scoredTables: array, An array containing the following fields:
  - id: integer, The ID of the table with created predictions.
  - schema: string, The schema of table with created predictions.
  - name: string, The name of table with created predictions.
  - createdAt: string, The time when the table with created predictions was created.
  - scoreStats: array, An array of metrics on the created predictions.
- schedule: list, A list containing the following elements:
  - scheduled: boolean, If the item is scheduled.
  - scheduledDays: array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours: array, Hours of the day it is scheduled on.
  - scheduledMinutes: array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour: integer, Alternative to scheduled minutes, number of times to run per hour.
- limitingSQL: string, A SQL WHERE clause used to scope the rows to be predicted.
- primaryKey: array, The primary key or composite keys of the table being predicted.
predictions_post_runs  Start a run

Description
Start a run

Usage
predictions_post_runs(id)

Arguments
id  integer required. The ID of the prediction.

Value
A list containing the following elements:

id  integer, The ID of the prediction run.
predictionId  integer, The ID of the prediction.
state  string, The state of the prediction run.
exception  string, The exception, if any, returned by the prediction run.
name  string, The name of table created by this predictions run.
createdAt  string, The time when the table with created predictions was created.
scoreStats  array, An array containing the following fields:
  • scoreName string, The name of the score.
  • histogram array, The histogram of the distribution of scores.
  • avgScore number, The average score.
  • minScore number, The minimum score.
  • maxScore number, The maximum score.

predictions_put_schedules  Schedule the prediction

Description
Schedule the prediction

Usage
predictions_put_schedules(id, schedule = NULL, score_on_model_build = NULL)
Argument

- id: integer, required. ID of the prediction associated with this schedule.
- schedule: list, optional. A list containing the following elements:
  - scheduled: boolean, If the item is scheduled.
  - scheduledDays: array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours: array, Hours of the day it is scheduled on.
  - scheduledMinutes: array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour: integer, Alternative to scheduled minutes, number of times to run per hour.
- score_on_model_build: boolean, optional. Whether the prediction will run after a rebuild of the associated model.

Value

A list containing the following elements:

- id: integer, ID of the prediction associated with this schedule.
- schedule: list, A list containing the following elements:
  - scheduled: boolean, If the item is scheduled.
  - scheduledDays: array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours: array, Hours of the day it is scheduled on.
  - scheduledMinutes: array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour: integer, Alternative to scheduled minutes, number of times to run per hour.
- scoreOnModelBuild: boolean, Whether the prediction will run after a rebuild of the associated model.

---

**print.civis_api**

Print results from a Civis API call

**Description**

Print results from a Civis API call

**Usage**

```r
## S3 method for class 'civis_api'
print(x, ...)
```

**Arguments**

- `x`: A `civis_api` response.
- `...`: Further arguments passed to `str`
projects_delete

Value

The ‘civis_api’ object, invisibly.

Examples

```r
## Not run:
query_civis("SELECT * FROM schema.my_table", "database", preview_rows = 100)
csv_to_civis("file.csv", "my_database", "schema.my_table")
print(databases_list(), max = 5)
## End(Not run)
```

projects_delete | Archive a project (deprecated, use the /archive endpoint instead)

Description

Archive a project (deprecated, use the /archive endpoint instead)

Usage

```r
projects_delete(project_id)
```

Arguments

- **project_id**: integer required.

Value

An empty HTTP response

projects_delete_parent_projects

Remove an item from a Parent Project

Description

Remove an item from a Parent Project

Usage

```r
projects_delete_parent_projects(id, parent_project_id)
```
projects_delete_shares_users

Arguments

- **id**: integer required. The ID of the item.
- **parent_project_id**: integer required. The ID of the Parent Project.

Value

An empty HTTP response

projects_delete_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

projects_delete_shares_groups(id, group_id)

Arguments

- **id**: integer required. The ID of the resource that is shared.
- **group_id**: integer required. The ID of the group.

Value

An empty HTTP response

projects_delete_shares_users

Revoke the permissions a user has on this object

Description

Revoke the permissions a user has on this object

Usage

projects_delete_shares_users(id, user_id)

Arguments

- **id**: integer required. The ID of the resource that is shared.
- **user_id**: integer required. The ID of the user.
projects_get

Value
An empty HTTP response

Description
Get a detailed view of a project and the objects in it

Usage
projects_get(project_id)

Arguments
project_id integer required.

Value
A list containing the following elements:

- id integer, The ID for this project.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string. This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- name string, The name of this project.
- description string, A description of the project.
- users array, An array containing the following fields:
  - id integer, The ID of this user.
  - name string. This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- autoShare boolean,
- createdAt string,
- updatedAt string,
- tables array, An array containing the following fields:
  - schema string,
projects_get

- name string,
- rowCount integer,
- columnCount integer,
- createdAt string,
- updatedAt string,

surveys array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,

scripts array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- type string,
- finishedAt string,
- state string,
- lastRun object,

imports array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- type string,
- finishedAt string,
- state string,
- lastRun object,

exports array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
- type string,
- finishedAt string,
- state string,
- lastRun object,

models array, An array containing the following fields:
- id integer, The item’s ID.
- createdAt string,
- updatedAt string,
- name string,
• state string,

notebooks array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• currentDeploymentId integer,
• lastDeploy object,

services array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• currentDeploymentId integer,
• lastDeploy object,

workflows array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,
• lastExecution object,

reports array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,

scriptTemplates array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,

files array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• fileName string,
• fileSize integer,
• expired boolean,
enhancements array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • lastRun object,

appInstances array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • slug string,

projects array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • description string,

allObjects array, An array containing the following fields:
  • projectId integer,
  • objectId integer,
  • objectType string,
  • fcoType string,
  • subType string,
  • name string,
  • icon string,
  • author string,
  • updatedAt string,
  • archived string, The archival status of the requested item(s).
  • hidden boolean, The hidden status of the item.

note string,

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

parentProject list, A list containing the following elements:
  • id integer, The parent project’s ID.
  • name integer, The parent project’s name.
**projects_list**  

**List projects**

**Description**

List projects

**Usage**

```python
projects_list(
    author = NULL,
    permission = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **author**  
  string optional. If specified, return projects owned by this author. It accepts a comma-separated list of author ids.

- **permission**  
  string optional. A permissions string, one of "read", "write", or "manage". Lists only projects for which the current user has that permission.

- **hidden**  
  boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

- **archived**  
  string optional. The archival status of the requested item(s).

- **limit**  
  integer optional. Number of results to return. Defaults to 20. Maximum allowed is 1000.

- **page_num**  
  integer optional. Page number of the results to return. Defaults to the first page, 1.

- **order**  
  string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.

- **order_dir**  
  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **id**  
  integer, The ID for this project.

- **author**  
  list, A list containing the following elements:
  - **id**  
    integer, The ID of this user.
projects_list_parent_projects

*List the Parent Projects an item belongs to*

**Description**

List the Parent Projects an item belongs to

**Usage**

`projects_list_parent_projects(id, hidden = NULL)`

**Arguments**

- `id` integer required. The ID of the item.
- `hidden` boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

- `id` integer, The ID for this project.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
projects_list_shares

- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).

projects_list_shares  List users and groups permissioned on this object

Description
List users and groups permissioned on this object

Usage
projects_list_shares(id)

Arguments
id integer required. The ID of the resource that is shared.

Value
An array containing the following fields:

readers list, A list containing the following elements:
  - users array,
  - groups array,

writers list, A list containing the following elements:
  - users array,
  - groups array,

owners list, A list containing the following elements:
projects_post

• users array,
• groups array,

totalUserShares
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

projects_post  Create a project

Description
Create a project

Usage

projects_post(name, description, note = NULL, hidden = NULL)

Arguments

name  string required. The name of this project.
description  string required. A description of the project.
note  string optional. Notes for the project.
hidden  boolean optional. The hidden status of the item.

Value

A list containing the following elements:

id  integer, The ID for this project.
author  list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
name  string, The name of this project.
description  string, A description of the project.
users  array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
tables array, An array containing the following fields:
  • schema string,
  • name string,
  • rowCount integer,
  • columnCount integer,
  • createdAt string,
  • updatedAt string,

surveys array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,

scripts array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • type string,
  • finishedAt string,
  • state string,
  • lastRun object,

imports array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • type string,
  • finishedAt string,
  • state string,
  • lastRun object,

exports array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • type string,
• finishedAt string,
• state string,
• lastRun object,

models array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,

notebooks array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• currentDeploymentId integer,
• lastDeploy object,

services array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• currentDeploymentId integer,
• lastDeploy object,

workflows array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,
• lastExecution object,

reports array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• state string,

scriptTemplates array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
- name string,

files array, An array containing the following fields:
  - id integer, The item’s ID.
  - createdAt string,
  - updatedAt string,
  - fileName string,
  - fileSize integer,
  - expired boolean,

enhancements array, An array containing the following fields:
  - id integer, The item’s ID.
  - createdAt string,
  - updatedAt string,
  - name string,
  - lastRun object,

appInstances array, An array containing the following fields:
  - id integer, The item’s ID.
  - createdAt string,
  - updatedAt string,
  - name string,
  - slug string,

projects array, An array containing the following fields:
  - id integer, The item’s ID.
  - createdAt string,
  - updatedAt string,
  - name string,
  - description string,

allObjects array, An array containing the following fields:
  - projectId integer,
  - objectId integer,
  - objectType string,
  - fcoType string,
  - subType string,
  - name string,
  - icon string,
  - author string,
  - updatedAt string,
  - archived string, The archival status of the requested item(s).
  - hidden boolean, The hidden status of the item.

note string,

hidden boolean, The hidden status of the item.
projects_put

archived string, The archival status of the requested item(s).

parentProject list, A list containing the following elements:
  • id integer, The parent project’s ID.
  • name integer, The parent project’s name.

projects_put Update a project

Description
Update a project

Usage

projects_put(
  project_id,
  name = NULL,
  description = NULL,
  note = NULL,
  auto_share = NULL
)

Arguments

  project_id integer required.
  name string optional. The name of this project.
  description string optional. A description of the project.
  note string optional. Notes for the project.
  auto_share boolean optional. A toggle for sharing the objects within the project when the project is shared. This does not automatically share new objects to the project.

Value

A list containing the following elements:

  id integer, The ID for this project.
  author list, A list containing the following elements:
    • id integer, The ID of this user.
    • name string, This user’s name.
    • username string, This user’s username.
    • initials string, This user’s initials.
    • online boolean, Whether this user is online.
  name string, The name of this project.
  description string, A description of the project.
projects_put

users array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
tables array, An array containing the following fields:
  • schema string,
  • name string,
  • rowCount integer,
  • columnCount integer,
  • createdAt string,
  • updatedAt string,
surveys array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
scripts array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • type string,
  • finishedAt string,
  • state string,
  • lastRun object,
imports array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • type string,
  • finishedAt string,
  • state string,
  • lastRun object,
exports array, An array containing the following fields:
  • id integer, The item’s ID.
- created_at string,
- updated_at string,
- name string,
- type string,
- finished_at string,
- state string,
- last_run object,

**models** array, An array containing the following fields:
- id integer, The item’s ID.
- created_at string,
- updated_at string,
- name string,
- state string,

**notebooks** array, An array containing the following fields:
- id integer, The item’s ID.
- created_at string,
- updated_at string,
- name string,
- current_deployment_id integer,
- last_deploy object,

**services** array, An array containing the following fields:
- id integer, The item’s ID.
- created_at string,
- updated_at string,
- name string,
- current_deployment_id integer,
- last_deploy object,

**workflows** array, An array containing the following fields:
- id integer, The item’s ID.
- created_at string,
- updated_at string,
- name string,
- state string,
- last_execution object,

**reports** array, An array containing the following fields:
- id integer, The item’s ID.
- created_at string,
- updated_at string,
- name string,
- state string,
projects

array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,

files array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• fileName string,
• fileSize integer,
• expired boolean,

enhancements array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• lastRun object,

appInstances array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• slug string,

projects array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• description string,

allObjects array, An array containing the following fields:
• projectId integer,
• objectId integer,
• objectType string,
• fcoType string,
• subType string,
• name string,
• icon string,
• author string,
• updatedAt string,
**projects_put_archive**

- archived string, The archival status of the requested item(s).
- hidden boolean, The hidden status of the item.

**note** string,

**hidden** boolean, The hidden status of the item.

**archived** string, The archival status of the requested item(s).

**parentProject** list, A list containing the following elements:
- id integer, The parent project’s ID.
- name integer, The parent project’s name.

---

**projects_put_archive**  *Update the archive status of this object*

---

**Description**

Update the archive status of this object

**Usage**

`projects_put_archive(id, status)`

**Arguments**

- **id** integer required. The ID of the object.
- **status** boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id** integer, The ID for this project.
- **author** list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- **name** string, The name of this project.
- **description** string, A description of the project.
- **users** array, An array containing the following fields:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
• online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
tables array, An array containing the following fields:
• schema string,
• name string,
• rowCount integer,
• columnCount integer,
• createdAt string,
• updatedAt string,
surveys array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,

scripts array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• type string,
• finishedAt string,
• state string,
• lastRun object,
imports array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• type string,
• finishedAt string,
• state string,
• lastRun object,
exports array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• type string,
• finishedAt string,
• state string,
• lastRun object,

**models** array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • state string,

**notebooks** array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • currentDeploymentId integer,
  • lastDeploy object,

**services** array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • currentDeploymentId integer,
  • lastDeploy object,

**workflows** array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • state string,
  • lastExecution object,

**reports** array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
  • state string,

**scriptTemplates** array, An array containing the following fields:
  • id integer, The item’s ID.
  • createdAt string,
  • updatedAt string,
  • name string,
files array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• fileName string,
• fileSize integer,
• expired boolean,

enhancements array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• lastRun object,

appInstances array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• slug string,

projects array, An array containing the following fields:
• id integer, The item’s ID.
• createdAt string,
• updatedAt string,
• name string,
• description string,

allObjects array, An array containing the following fields:
• projectId integer,
• objectId integer,
• objectType string,
• fcoType string,
• subType string,
• name string,
• icon string,
• author string,
• updatedAt string,
• archived string, The archival status of the requested item(s).
• hidden boolean, The hidden status of the item.

note string,

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

parentProject list, A list containing the following elements:
• id integer, The parent project’s ID.
• name integer, The parent project’s name.
projects_put_parent_projects

*Add an item to a Parent Project*

**Description**

Add an item to a Parent Project

**Usage**

```
projects_put_parent_projects(id, parent_project_id)
```

**Arguments**

- `id`: integer required. The ID of the item.
- `parent_project_id`: integer required. The ID of the Parent Project.

**Value**

An empty HTTP response

projects_put_shares_groups

*Set the permissions groups has on this object*

**Description**

Set the permissions groups has on this object

**Usage**

```
projects_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
**Arguments**

- **id**
  integer required. The ID of the resource that is shared.

- **group_ids**
  array required. An array of one or more group IDs.

- **permission_level**
  string required. Options are: "read", "write", or "manage".

- **share_email_body**
  string optional. Custom body text for e-mail sent on a share.

- **send_shared_email**
  boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers**
  list, A list containing the following elements:
  - users array,
  - groups array,

- **writers**
  list, A list containing the following elements:
  - users array,
  - groups array,

- **owners**
  list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares**
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

**Description**

Set the permissions users have on this object

**Usage**

```python
projects_put_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

id
integer required. The ID of the resource that is shared.
user_ids
array required. An array of one or more user IDs.
permission_level
string required. Options are: "read", "write", or "manage".
share_email_body
string optional. Custom body text for e-mail sent on a share.
send_shared_email
boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers
list, A list containing the following elements:
  • users array,
  • groups array,
writers
list, A list containing the following elements:
  • users array,
  • groups array,
owners
list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

This function is called when the "Publish To Civis" button is pressed in the RStudio IDE AddIn menu. It will attempt to save the current changes of the active document and push it to the appropriate location in Platform. RMarkdown files will be rendered to html with publish_rmd and published as a report. Currently only RMarkdown files are supported.

Usage

publish_addin()
publish_html

See Also

publish_rmd for publishing RMarkdown files

---

**publish_html**  
*Publish HTML to Platform Reports*

**Description**

Publish HTML to Platform Reports

**Usage**

```r
publish_html(
  html_file,
  report_id = NULL,
  report_name = NULL,
  provide_api_key = NULL,
  project_id = NULL
)
```

**Arguments**

- `html_file`  
  string, HTML file

- `report_id`  
  integer, ID of an existing report, if provided, the contents of the report will be replaced. If `report_id` is NULL, a new report will be created.

- `report_name`  
  string, Title of report in platform

- `provide_api_key`  
  bool, Set to true to include API key in report.

- `project_id`  
  integer, Project_id that the report should be added to.

**See Also**

* publish_rmd to publish an R Markdown document to Civis

**Examples**

```r
## Not run:
# Uploads html and prints link to report in Platform
publish_html("my_beautiful_report.html")

## End(Not run)
```
**Description**

Publish an R Markdown file to Platform Reports

**Usage**

```r
publish_rmd(
  rmd_file,
  report_id = NULL,
  report_name = NULL,
  provide_api_key = NULL,
  project_id = NULL,
  ...
)
```

**Arguments**

- **rmd_file**: string, R Markdown file (.Rmd)
- **report_id**: integer, ID of an existing report, if provided, the contents of the report will be replaced. If `report_id` is NULL, a new report will be created.
- **report_name**: string, Title of report in platform
- **provide_api_key**: bool, Set to true to include API key in report.
- **project_id**: integer, Project_id that the report should be added to.
- **...**: additional parameters to send to `rmarkdown::render`. Note: A temporary file will be used for `output_file` if `output_file` is not explicitly set and input will be overwritten with `rmd_file`.

**Details**

This function also supports passing `report_id`, `report_name`, `provide_api_key` and `project_id` as metadata in the report's YAML front matter. Just as the title of an RMarkdown document can be set with `title: "my title!"`, these parameters can be set like

```yaml
    civis:
        report_name: "My Report Name"
        report_id: 9000
```

Since `report_id` is set, this code will overwrite the existing report with that number, which may be useful when updating a report on a schedule. Any argument passed in explicitly to publish_rmd will be used in place of the corresponding argument set in YAML metadata.
queries_delete_runs

Note

rmarkdown::render depends on a recent version of pandoc. pandoc is distributed with RStudio and thus, publish_rmd will work in an RStudio environment. Outside of RStudio pandoc may be installed or knitr::knit2html can be used to convert an R Markdown document into html. The html can then be published to Civis with publish_html.

See Also

publish_html to publish html to Civis

Examples

```r
## Not run:

# Publish a standard report
publish_rmd("my_beautiful_doc.Rmd")

# Publish a parameterized R Markdown document
# See: http://rmarkdown.rstudio.com/developer_parameterized_reports.html
params <- list("region" = "east", start = as.Date("2015-02-01"))
publish_rmd("my_parameterized_doc.Rmd", params=params)

## End(Not run)
```

queries_delete_runs  

Cancel a run

Description

Cancel a run

Usage

`queries_delete_runs(id, run_id)`

Arguments

- `id`  
  integer required. The ID of the query.
- `run_id`  
  integer required. The ID of the run.

Value

An empty HTTP response
queries_get  
Get details about a query

Description
Get details about a query

Usage
queries_get(id)

Arguments
id  integer required. The query ID.

Value
A list containing the following elements:

- id  integer, The query ID.
- database  integer, The database ID.
- sql  string, The SQL to execute.
- credential  integer, The credential ID.
- resultRows  array, A preview of rows returned by the query.
- resultColumns  array, A preview of columns returned by the query.
- scriptId  integer, The ID of the script associated with this query.
- exception  string, Deprecated and not used.
- error  string, The error message for this run, if present.
- createdAt  string,
- updatedAt  string,
- finishedAt  string, The end time of the last run.
- state  string, The state of the last run.
- lastRunId  integer, The ID of the last run.
- hidden  boolean, The hidden status of the item.
- name  string, The name of the query.
- author  list, A list containing the following elements:
  - id  integer, The ID of this user.
  - name  string, This user's name.
  - username  string, This user's username.
  - initials  string, This user's initials.
  - online  boolean, Whether this user is online.
- startedAt  string, The start time of the last run.
- reportId  integer, The ID of the report associated with this query.
queries_get_runs  

Check status of a run

**Description**

Check status of a run

**Usage**

```
queries_get_runs(id, run_id)
```

**Arguments**

- **id**  
  Integer required. The ID of the query.
- **run_id**  
  Integer required. The ID of the run.

**Value**

A list containing the following elements:

- **id**  
  Integer, The ID of the run.
- **queryId**  
  Integer, The ID of the query.
- **state**  
  String, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**  
  Boolean, True if run cancel requested, else false.
- **startedAt**  
  String, The time the last run started at.
- **finishedAt**  
  String, The time the last run completed.
- **error**  
  String, The error, if any, returned by the run.

---

queries_list  

List

**Description**

List
Usage

```python
queries_list(
    database_id = NULL,
    author_id = NULL,
    created_before = NULL,
    exclude_results = NULL,
    hidden = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

database_id         integer optional. The database ID.
author_id           integer optional. The author of the query.
created_before      string optional. An upper bound for the creation date of the query.
exclude_results    boolean optional. If true, does not return cached query results.
hidden              boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
limit               integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num            integer optional. Page number of the results to return. Defaults to the first page, 1.
order               string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at.
order_dir           string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id                   integer, The query ID.
database             integer, The database ID.
sql                  string, The SQL to execute.
credential           integer, The credential ID.
resultRows           array, A preview of rows returned by the query.
resultColumns        array, A preview of columns returned by the query.
scriptId              integer, The ID of the script associated with this query.
exception            string, Deprecated and not used.
error                string, The error message for this run, if present.
queries_list_runs

createdAt: string,
updatedAt: string,
finishedAt: string, The end time of the last run.
state: string, The state of the last run.
lastRunId: integer, The ID of the last run.
previewRows: integer, The number of rows to save from the query’s result (maximum: 100).
startedAt: string, The start time of the last run.
reportId: integer, The ID of the ID of the report associated with this query.

queries_list_runs  List runs for the given query

Description
List runs for the given query

Usage

    queries_list_runs(
        id,  
        limit = NULL,  
        page_num = NULL,  
        order = NULL,  
        order_dir = NULL  
    )

Arguments

id: integer required. The ID of the query.
limit: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num: integer optional. Page number of the results to return. Defaults to the first page, 1.
order: string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
queries_list_runs_logs

Value

An array containing the following fields:

- **id**: integer, The ID of the run.
- **queryId**: integer, The ID of the query.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.

queries_list_runs_logs

*Get the logs for a run*

Description

Get the logs for a run

Usage

`queries_list_runs_logs(id, run_id, last_id = NULL, limit = NULL)`

Arguments

- **id**: integer required. The ID of the query.
- **run_id**: integer required. The ID of the run.
- **last_id**: integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit**: integer optional. The maximum number of log messages to return. Default of 10000.

Value

An array containing the following fields:

- **id**: integer, The ID of the log.
- **createdAt**: string, The time the log was created.
- **message**: string, The log message.
- **level**: string, The level of the log. One of unknown,fatal,error,warn,info,debug.
queries_post

Execute a query

**Description**

Execute a query

**Usage**

```r
queries_post(
    database,  
    sql,  
    preview_rows,  
    credential = NULL,  
    hidden = NULL,  
    interactive = NULL,  
    include_header = NULL,  
    compression = NULL,  
    column_delimiter = NULL,  
    unquoted = NULL,  
    filename_prefix = NULL
)
```

**Arguments**

- `database` integer required. The database ID.
- `sql` string required. The SQL to execute.
- `preview_rows` integer required. The number of rows to save from the query’s result (maximum: 100).
- `credential` integer optional. The credential ID.
- `hidden` boolean optional. The hidden status of the item.
- `interactive` boolean optional. Deprecated and not used.
- `include_header` boolean optional. Whether the CSV output should include a header row [default: true].
- `compression` string optional. The type of compression. One of gzip or zip, or none [default: gzip].
- `column_delimiter` string optional. The delimiter to use. One of comma or tab, or pipe [default: comma].
- `unquoted` boolean optional. If true, will not quote fields.
- `filename_prefix` string optional. The output filename prefix.
queries_post_runs

Value

A list containing the following elements:

- **id**: integer, The query ID.
- **database**: integer, The database ID.
- **sql**: string, The SQL to execute.
- **credential**: integer, The credential ID.
- **resultRows**: array, A preview of rows returned by the query.
- **resultColumns**: array, A preview of columns returned by the query.
- **scriptId**: integer, The ID of the script associated with this query.
- **exception**: string, Deprecated and not used.
- **error**: string, The error message for this run, if present.
- **createdAt**: string,
- **updatedAt**: string,
- **finishedAt**: string, The end time of the last run.
- **state**: string, The state of the last run.
- **lastRunId**: integer, The ID of the last run.
- **hidden**: boolean, The hidden status of the item.
- **interactive**: boolean, Deprecated and not used.
- **previewRows**: integer, The number of rows to save from the query’s result (maximum: 100).
- **includeHeader**: boolean, Whether the CSV output should include a header row [default: true].
- **compression**: string, The type of compression. One of gzip or zip, or none [default: gzip].
- **columnDelimiter**: string, The delimiter to use. One of comma or tab, or pipe [default: comma].
- **unquoted**: boolean, If true, will not quote fields.
- **filenamePrefix**: string, The output filename prefix.
- **startedAt**: string, The start time of the last run.
- **reportId**: integer, The ID of the report associated with this query.

---

queries_post_runs Start a run

Description

Start a run

Usage

queries_post_runs(id)
Arguments

id  integer required. The ID of the query.

Value

A list containing the following elements:

id  integer, The ID of the run.
queryId  integer, The ID of the query.
state  string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested  boolean, True if run cancel requested, else false.
startedAt  string, The time the last run started at.
finishedAt  string, The time the last run completed.
error  string, The error, if any, returned by the run.

queries_put_scripts  
Update the query’s associated script

Description

Update the query’s associated script

Usage

queries_put_scripts(id, script_id)

Arguments

id  integer required. The query ID.
script_id  integer required. The ID of the script associated with this query.

Value

A list containing the following elements:

id  integer, The query ID.
database  integer, The database ID.
sql  string, The SQL to execute.
credential  integer, The credential ID.
resultRows  array, A preview of rows returned by the query.
resultColumns  array, A preview of columns returned by the query.
scriptId  integer, The ID of the script associated with this query.
exception string, Deprecated and not used.
error string, The error message for this run, if present.
createdAt string,
updatedAt string,
finishedAt string, The end time of the last run.
state string, The state of the last run.
lastRunId integer, The ID of the last run.
hidden boolean, The hidden status of the item.
name string, The name of the query.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
startedAt string, The start time of the last run.
reportId integer, The ID of the report associated with this query.

---

query_civis Run a Query on Platform

Description
Utility to run queries that return no output.
A default database can be set using options(civis.default_db = "my_database"). If there is only one database available, this database will automatically be used as the default.

Usage
query_civis(x, ...)

## S3 method for class 'sql'
query_civis(x, database = NULL, verbose = FALSE, ...)

## S3 method for class 'numeric'
query_civis(x, verbose = FALSE, ...)

## S3 method for class 'character'
query_civis(x, database = NULL, verbose = FALSE, ...)
query_civis_file

Export results from a query to S3 and return a file id.

Description

Exports results from a Redshift SQL query, and returns the id of the file on S3 for use with read_civis or download_civis.

Usage

query_civis_file(x, ...)

## S3 method for class 'character'
query_civis_file(
  x,
  database = NULL,
  job_name = NULL,
  hidden = TRUE,
  verbose = verbose,
csv_settings = NULL,
...
)

## S3 method for class 'sql'
query_civis_file(
  x,
  database = NULL,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  csv_settings = NULL,
  ...
)

## S3 method for class 'numeric'
query_civis_file(x, database = NULL, verbose = FALSE, ...)

Arguments

x "schema.table", sql("query"), or a sql script job id.
...
Options passed to scripts_post_sql, including credential.
database string, Name of database where data frame is to be uploaded. If no database is specified, uses options(civis.default_db).
job_name string, Name of the job (default: "Civis S3 Export Via R Client").
hidden bool, Whether the job is hidden.
verbose bool, Set to TRUE to print intermediate progress indicators.
csv_settings See scripts_post_sql for details.

Details

By default, the export uses the default csv_settings in scripts_post_sql, which is a gzipped csv.

Methods (by class)

- character: Export a "schema.table" to a file id.
- sql: Export results of a query to a file id.
- numeric: Run an existing sql script and return the file id of the results on S3.

See Also

Other io: download_civis(), query_civis(), read_civis(), write_civis_file(), write_civis()
Examples

```r
## Not run:
id <- query_civis_file("schema.tablename", database = "my_database")
df <- read_civis(id, using = read.csv)

query <- sql("SELECT * FROM table JOIN other_table USING id WHERE var1 < 23")
id <- query_civis_file(query)
df <- read_civis(id, using = read.csv)

id <- query_civis_file(query_id, credential_id = 0000)
df <- read_civis(id, using = read.csv)

## End(Not run)
```

read_civis  

Read tables and files from Civis Platform

Description

read_civis loads a table from Redshift as a data frame if given a "schema.table" or sql("query") as the first argument, or loads a file from Amazon S3 (the files endpoint) if a file id is given. Run outputs from any Civis platform script are returned if a civis_script is given.

A default database can be set using options(civis.default_db = "my_database"). If there is only one database available, this database will automatically be used as the default.

Usage

```r
read_civis(x, ...)

## S3 method for class 'numeric'
read_civis(x, using = read.csv, verbose = FALSE, ...)

## S3 method for class 'character'
read_civis(x, database = NULL, ...)

## S3 method for class 'sql'
read_civis(
  x,
  database = NULL,
  using = utils::read.csv,
  job_name = NULL,
  hidden = TRUE,
  verbose = FALSE,
  ...
)

## S3 method for class 'civis_script'
read_civis(x, using, regex = NULL, ...)
```
Arguments

- `x` "schema.table", sql("query"), or a file id.
- `...` arguments passed to `using`.
- `using` function, Function to convert the file to a data frame or to unserialize. the file (e.g. read.csv or readRDS).
- `verbose` bool, Set to TRUE to print intermediate progress indicators.
- `database` string, Name of database where data frame is to be uploaded. If no database is specified, uses options(civis.default_db).
- `job_name` string, Name of the job (default: "Civis Export Via R Client").
- `hidden` bool, Whether the job is hidden.
- `regex` Regex of matching run output names.

Details

By default, read_civis.numeric assumes the file is a CSV. For reading a serialized R object, set using = readRDS for example.

If using = NULL, read_civis.civis_script will return all JSONValues with name matching regex. Otherwise all File run outputs matching regex will be read into memory with using. Results are always a named list. If the script has no outputs, an empty list will be returned.

Methods (by class)

- numeric: Return a file as a data frame
- character: Return all columns from a table as a data frame.
- sql: Return a SQL query as a data frame.
- civis_script: Return run outputs of a civis_script as a named list.

See Also

Other io: download_civis(), query_civis_file(), query_civis(), write_civis_file(), write_civis()

Examples

```r
## Not run:
# Read all columns in a single table
df <- read_civis("schema.my_table", database = "my_database")

# Read data from a SQL select statement
query <- sql("SELECT * FROM table JOIN other_table USING id WHERE var1 < 23")
df <- read_civis(query, database = "my_database")

# Read an R object from the files endpoint.
id <- write_civis_file(df)
df <- read_civis(id)

# Read a text file or csv from the files endpoint.
id <- write_civis_file("my_csv.csv")
```
df <- read_civis(id)

# Read JSONValues from a civis script
vals <- read_civis(civis_script(1234))

# Read File run outputs from a civis script
df <- read_civis(civis_script(1234), regex = '.csv', using = read.csv)
obj <- read_civis(civis_script(1234), regex = '.rds', using = readRDS)

# Gracefully handle when read_civis.sql returns no rows
query <- sql("SELECT * FROM table WHERE 1 = 2")
mean_x <- tryCatch({
df <- read_civis(query, database = "my_database")
mean(df$x)
}, empty_result_error = function(e) {
  NA
})

## End(Not run)

---

**refresh_table**  
*Refresh a table*

**Description**

Refreshes a table on Redshift using `tables_post_refresh`, which runs the table scanner and updates table meta-data.

**Usage**

```r
refresh_table(tablename, database = NULL, verbose = FALSE)
```

**Arguments**

- `tablename`  
  string, Name of table and schema "schema.tablename"

- `database`  
  string, Name of database where data frame is to be uploaded. If no database is specified, uses `options(civis.default_db)`

- `verbose`  
  bool, Set to TRUE to print intermediate progress indicators.

**Value**

Returns table meta-data from `tables_get`.

**See Also**

Other tables: `get_table_id()`, `transfer_table()`
remote_hosts_list  
List the remote hosts

Description
List the remote hosts

Usage
remote_hosts_list(type = NULL)

Arguments

- **type**
  
  string optional. The type of remote host. One of: RemoteHostTypes::BSD, RemoteHostTypes::Bitbucket, RemoteHostTypes::Ftp, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, RemoteHostTypes::Salesforce, RemoteHostTypes::Snowflake, and RemoteHostTypes::Van

Value
An array containing the following fields:

- **id**
  
  integer, The ID of the remote host.

- **name**
  
  string, The name of the remote host.

- **type**
  
  string, The type of remote host. One of: RemoteHostTypes::BSD, RemoteHostTypes::Bitbucket, RemoteHostTypes::Ftp, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, RemoteHostTypes::Salesforce, RemoteHostTypes::Snowflake, and RemoteHostTypes::Van

- **url**
  
  string, The URL for remote host.

remote_hosts_list_data_sets  
List data sets available from a remote host

Description
List data sets available from a remote host
Usage

remote_hosts_list_data_sets(
    id,
    credential_id = NULL,
    username = NULL,
    password = NULL,
    q = NULL,
    s = NULL
)

Arguments

id integer required. The ID of the remote host.
credential_id integer optional. The credential ID.
username string optional. The user name for remote host.
password string optional. The password for remote host.
q string optional. The query string for data set.
s boolean optional. If true will only return schemas, otherwise, the results will be the full path.

Value

An array containing the following fields:

name string, The path to a data_set.
fullPath boolean, Boolean that indicates whether further querying needs to be done before the table can be selected.

remote_hosts_post Create a new remote host

Description

Create a new remote host

Usage

remote_hosts_post(name, url, type)
Arguments

name        string required. The human readable name for the remote host.
url         string required. The URL to your host.
type        string required. The type of remote host. One of: RemoteHostTypes::BSD, RemoteHostTypes::Bitbucket, RemoteHostTypes::Ftp, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, RemoteHostTypes::Salesforce, RemoteHostTypes::Snowflake, and RemoteHostTypes::Van

Value

A list containing the following elements:

id          integer, The ID of the remote host.
name        string, The name of the remote host.
type        string, The type of remote host. One of: RemoteHostTypes::BSD, RemoteHostTypes::Bitbucket, RemoteHostTypes::Ftp, RemoteHostTypes::GitSSH, RemoteHostTypes::Github, RemoteHostTypes::GoogleDoc, RemoteHostTypes::JDBC, RemoteHostTypes::Postgres, RemoteHostTypes::Redshift, RemoteHostTypes::S3Storage, RemoteHostTypes::Salesforce, RemoteHostTypes::Snowflake, and RemoteHostTypes::Van
url         string, The URL for remote host.

remote_hosts_post_authenticate

Authenticate against a remote host using either a credential or a user name and password

Description
Authenticate against a remote host using either a credential or a user name and password

Usage

remote_hosts_post_authenticate(
    id,
    credential_id = NULL,
    username = NULL,
    password = NULL
)
**reports_delete_grants**

**Arguments**

- id: integer required. The ID of the remote host.
- credential_id: integer optional. The credential ID.
- username: string optional. The user name for remote host.
- password: string optional. The password for remote host.

**Value**

An empty HTTP response

---

**reports_delete_grants**  
*Revoke permission for this report to perform Civis platform API operations on your behalf*

**Description**

Revoke permission for this report to perform Civis platform API operations on your behalf

**Usage**

`reports_delete_grants(id)`

**Arguments**

- id: integer required. The ID of this report.

**Value**

An empty HTTP response

---

**reports_delete_projects**  
*Remove a Report from a project*

**Description**

Remove a Report from a project

**Usage**

`reports_delete_projects(id, project_id)`
**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the Report.</td>
</tr>
<tr>
<td>project_id</td>
<td>integer required. The ID of the project.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response

---

**reports_delete_services_projects**

*Remove a Service Report from a project*

**Description**

Remove a Service Report from a project

**Usage**

`reports_delete_services_projects(id, project_id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the Service Report.</td>
</tr>
<tr>
<td>project_id</td>
<td>integer required. The ID of the project.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response

---

**reports_delete_services_shares_groups**

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

`reports_delete_services_shares_groups(id, group_id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>group_id</td>
<td>integer required. The ID of the group.</td>
</tr>
</tbody>
</table>
Value
An empty HTTP response

reports_delete_services_shares_users
Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
reports_delete_services_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response

reports_delete_shares_groups
Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
reports_delete_shares_groups(id, group_id)

Arguments
id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value
An empty HTTP response
reports_delete_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
reports_delete_shares_users(id, user_id)

Arguments
id: integer required. The ID of the resource that is shared.
user_id: integer required. The ID of the user.

Value
An empty HTTP response

reports_get

Show a single report

Description
Show a single report

Usage
reports_get(id)

Arguments
id: integer required. The ID of this report.

Value
A list containing the following elements:

- id: integer, The ID of this report.
- name: string, The name of the report.
- user: list, A list containing the following elements:
  - id: integer, The ID of this user.
  - name: string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

**createdAt** string,
**updatedAt** string,
**projects** array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
**state** string, The status of the report’s last run.
**finishedAt** string, The time that the report’s last run finished.
**vizUpdatedAt** string, The time that the report’s visualization was last updated.
**script** list, A list containing the following elements:
  - id integer, The ID for the script.
  - name string, The name of the script.
  - sql string, The raw SQL query for the script.
**jobPath** string, The link to details of the job that backs this report.
**tableauId** integer,
**type** string,
**templateId** integer, The ID of the template used for this report.
**authThumbnailUrl** string, URL for a thumbnail of the report.
**lastRun** list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
**archived** string, The archival status of the requested item(s).
**hidden** boolean, The hidden status of the item.
**authDataUrl** string,
**authCodeUrl** string,
**config** string, Any configuration metadata for this report.
**validOutputFile** boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.
**provideApiKey** boolean, Whether the report requests an API Key from the report viewer.
**apiKey** string, A Civis API key that can be used by this report.
**apiKeyId** integer, The ID of the API key. Can be used for auditing API use by this report.
**appState** list, Any application state blob for this report.
**useViewersTableauUsername** boolean, Apply user level filtering on Tableau reports.
reports_get_git_commits

*Get file contents at commit_hash*

**Description**

Get file contents at commit_hash

**Usage**

reports_get_git_commits(id, commit_hash)

**Arguments**

- **id** integer required. The ID of the file.
- **commit_hash** string required. The SHA (full or shortened) of the desired git commit.

**Value**

A list containing the following elements:

- **content** string, The file’s contents.
- **type** string, The file’s type.
- **size** integer, The file’s size.
- **fileHash** string, The SHA of the file.

reports_get_services

*Show a single service report*

**Description**

Show a single service report

**Usage**

reports_get_services(id)

**Arguments**

- **id** integer required. The ID of this report.
Value

A list containing the following elements:

- **id** integer, The ID of this report.
- **name** string, The name of the report.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **createdAt** string,
- **updatedAt** string,
- **host** string, The host for the service report
- **displayUrl** string, The URL to display the service report.
- **serviceId** integer, The id of the backing service
- **provideAPIKey** boolean, Whether the report requests an API Key from the report viewer.
- **apiKey** string, A Civis API key that can be used by this report.
- **apiKeyId** integer, The ID of the API key. Can be used for auditing API use by this report.

---

**Reports_list**  
*List Reports*

Description

List Reports

Usage

```python
reports_list(
    type = NULL,
    author = NULL,
    template_id = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)```
Arguments

type string optional. If specified, return report of these types. It accepts a comma-separated list, possible values are 'tableau' or 'other'.

author string optional. If specified, return reports from this author. It accepts a comma-separated list of author ids.

template_id integer optional. If specified, return reports using the provided Template.

hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

archived string optional. The archival status of the requested item(s).

limit integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id integer, The ID of this report.

name string, The name of the report.

user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

createdAt string,

updatedAt string,

projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.

state string, The status of the report’s last run.

finishedAt string, The time that the report’s last run finished.

vizUpdatedAt string, The time that the report’s visualization was last updated.

script list, A list containing the following elements:
  • id integer, The ID for the script.
  • name string, The name of the script.
• sql string, The raw SQL query for the script.

jobPath string, The link to details of the job that backs this report.

tableauId integer,

type string,

templateId integer, The ID of the template used for this report.

authThumbnailUrl string, URL for a thumbnail of the report.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

archived string, The archival status of the requested item(s).

reports_list_git Get the git metadata attached to an item

Description
Get the git metadata attached to an item

Usage
reports_list_git(id)

Arguments
id integer required. The ID of the file.

Value
A list containing the following elements:

gitRef string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
gitBranch string, The git branch that the file is on.
gitPath string, The path of the file in the repository.
gitRepo list, A list containing the following elements:
  • id integer, The ID for this git repository.
  • repoUrl string, The URL for this git repository.
  • createdAt string,
  • updatedAt string,
pullFromGit boolean, Automatically pull latest commit from git. Only works for scripts.
reports_list_git_commits

*Get the git commits for an item*

**Description**

Get the git commits for an item

**Usage**

```
reports_list_git_commits(id)
```

**Arguments**

- `id` integer required. The ID of the file.

**Value**

A list containing the following elements:

- `commitHash` string, The SHA of the commit.
- `authorName` string, The name of the commit’s author.
- `date` string, The commit’s timestamp.
- `message` string, The commit message.

reports_list_projects

*List the projects a Report belongs to*

**Description**

List the projects a Report belongs to

**Usage**

```
reports_list_projects(id, hidden = NULL)
```

**Arguments**

- `id` integer required. The ID of the Report.
- `hidden` boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
Value

An array containing the following fields:

- **id** integer, The ID for this project.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **name** string, The name of this project.
- **description** string, A description of the project.
- **users** array, An array containing the following fields:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **autoShare** boolean,
- **createdAt** string,
- **updatedAt** string,
- **archived** string, The archival status of the requested item(s).

---

**reports_list_services_projects**

*List the projects a Service Report belongs to*

Description

List the projects a Service Report belongs to

Usage

`reports_list_services_projects(id, hidden = NULL)`

Arguments

- **id** integer required. The ID of the Service Report.
- **hidden** boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
Value

An array containing the following fields:

- id integer, The ID for this project.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- name string, The name of this project.
- description string, A description of the project.
- users array, An array containing the following fields:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- autoShare boolean,
- createdAt string,
- updatedAt string,
- archived string, The archival status of the requested item(s).

Description

List users and groups permissioned on this object

Usage

reports_list_services_shares(id)

Arguments

id integer required. The ID of the resource that is shared.
**Value**

An array containing the following fields:

- **readers**
  - list, A list containing the following elements:
    - users array,
    - groups array,

- **writers**
  - list, A list containing the following elements:
    - users array,
    - groups array,

- **owners**
  - list, A list containing the following elements:
    - users array,
    - groups array,

- **totalUserShares**
  - integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**
  - integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**reports_list_shares**

*List users and groups permissioned on this object*

**Description**

List users and groups permissioned on this object

**Usage**

`reports_list_shares(id)`

**Arguments**

- **id**
  - integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers**
  - list, A list containing the following elements:
    - users array,
    - groups array,

- **writers**
  - list, A list containing the following elements:
    - users array,
    - groups array,
owners list, A list containing the following elements:
• users array,
• groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

reports_patch

Update a report

Description
Update a report

Usage
reports_patch(
  id,
  name = NULL,
  script_id = NULL,
  code_body = NULL,
  config = NULL,
  app_state = NULL,
  provide_api_key = NULL,
  template_id = NULL,
  use_viewers_tableau_username = NULL
)

Arguments
id integer required. The ID of the report to modify.
name string optional. The name of the report.
script_id integer optional. The ID of the job (a script or a query) used to create this report.
code_body string optional. The code for the report visualization.
config string optional.
app_state list optional. The application state blob for this report.
provide_api_key boolean optional. Allow the report to provide an API key to front-end code.
template_id integer optional. The ID of the template used for this report. If null is passed, no template will back this report. Changes to the backing template will reset the report appState.
use_viewers_tableau_username boolean optional. Apply user level filtering on Tableau reports.
Value

A list containing the following elements:

- **id** integer, The ID of this report.
- **name** string, The name of the report.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **createdAt** string,
- **updatedAt** string,
- **projects** array, An array containing the following fields:
  - **id** integer, The ID for the project.
  - **name** string, The name of the project.
- **state** string, The status of the report’s last run.
- **finishedAt** string, The time that the report’s last run finished.
- **vizUpdatedAt** string, The time that the report’s visualization was last updated.
- **script** list, A list containing the following elements:
  - **id** integer, The ID for the script.
  - **name** string, The name of the script.
  - **sql** string, The raw SQL query for the script.
- **jobPath** string, The link to details of the job that backs this report.
- **tableauId** integer,
- **type** string,
- **templateId** integer, The ID of the template used for this report.
- **authThumbnailUrl** string, URL for a thumbnail of the report.
- **lastRun** list, A list containing the following elements:
  - **id** integer,
  - **state** string,
  - **createdAt** string, The time that the run was queued.
  - **startedAt** string, The time that the run started.
  - **finishedAt** string, The time that the run completed.
  - **error** string, The error message for this run, if present.
- **archived** string, The archival status of the requested item(s).
- **hidden** boolean, The hidden status of the item.
- **authDataUrl** string,
### reports_patch_services

**Update some attributes of this service report**

#### Description

Update some attributes of this service report

#### Usage

```r
reports_patch_services(id, name = NULL, provide_api_key = NULL)
```

#### Arguments

- **id**
  - integer required. The ID of this report.
- **name**
  - string optional. The name of the service report.
- **provide_api_key**
  - boolean optional. Whether the report requests an API Key from the report viewer.

#### Value

A list containing the following elements:

- **id**
  - integer, The ID of this report.
- **name**
  - string, The name of the report.
- **user**
  - list, A list containing the following elements:
    - **id**
      - integer, The ID of this user.
    - **name**
      - string, This user’s name.
    - **username**
      - string, This user’s username.
    - **initials**
      - string, This user’s initials.
    - **online**
      - boolean, Whether this user is online.
reports_post

- createdAt: string,
- updatedAt: string,
- host: string, The host for the service report
- displayUrl: string, The URL to display the service report.
- serviceId: integer, The id of the backing service
- provideAPIKey: boolean, Whether the report requests an API Key from the report viewer.
- apiKey: string, A Civis API key that can be used by this report.
- apiKeyId: integer, The ID of the API key. Can be used for auditing API use by this report.

create a report

Description
Create a report

Usage

```
reports_post(
    script_id = NULL,
    name = NULL,
    code_body = NULL,
    app_state = NULL,
    provide_api_key = NULL,
    template_id = NULL,
    hidden = NULL
)
```

Arguments

- script_id: integer optional. The ID of the job (a script or a query) used to create this report.
- name: string optional. The name of the report.
- code_body: string optional. The code for the report visualization.
- app_state: list optional. Any application state blob for this report.
- provide_api_key: boolean optional. Allow the report to provide an API key to front-end code.
- template_id: integer optional. The ID of the template used for this report.
- hidden: boolean optional. The hidden status of the item.
Value

A list containing the following elements:

- id integer, The ID of this report.
- name string, The name of the report.
- user list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- createdAt string,
- updatedAt string,
- projects array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- state string, The status of the report’s last run.
- finishedAt string, The time that the report’s last run finished.
- vizUpdatedAt string, The time that the report’s visualization was last updated.
- script list, A list containing the following elements:
  - id integer, The ID for the script.
  - name string, The name of the script.
  - sql string, The raw SQL query for the script.
- jobPath string, The link to details of the job that backs this report.
- tableauId integer,
- type string,
- templateId integer, The ID of the template used for this report.
- authThumbnailUrl string, URL for a thumbnail of the report.
- lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
- archived string, The archival status of the requested item(s).
- hidden boolean, The hidden status of the item.
- authDataUrl string,
authCodeUrl  string,
config  string, Any configuration metadata for this report.
validOutputFile  boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.
provideAPIKey  boolean, Whether the report requests an API Key from the report viewer.
apiKey  string, A Civis API key that can be used by this report.
apiKeyId  integer, The ID of the API key. Can be used for auditing API use by this report.
appState  list, Any application state blob for this report.
useViewersTableauUsername  boolean, Apply user level filtering on Tableau reports.

---

**reports_post_git_commits**

*Commit and push a new version of the file*

---

**Description**

Commit and push a new version of the file

**Usage**

`reports_post_git_commits(id, content, message, file_hash)`

**Arguments**

- **id**
  - integer required. The ID of the file.
- **content**
  - string required. The contents to commit to the file.
- **message**
  - string required. A commit message describing the changes being made.
- **file_hash**
  - string required. The full SHA of the file being replaced.

**Value**

A list containing the following elements:

- **content**
  - string, The file’s contents.
- **type**
  - string, The file’s type.
- **size**
  - integer, The file’s size.
- **fileHash**
  - string, The SHA of the file.
reports_post_grants

Grant this report the ability to perform Civis platform API operations on your behalf

Description

Grant this report the ability to perform Civis platform API operations on your behalf

Usage

reports_post_grants(id)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of this report.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of this report.</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of the report.</td>
</tr>
<tr>
<td>user</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string,</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string,</td>
</tr>
<tr>
<td>projects</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID for the project.</td>
</tr>
<tr>
<td></td>
<td>• name string, The name of the project.</td>
</tr>
<tr>
<td>state</td>
<td>string, The status of the report’s last run.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string, The time that the report’s last run finished.</td>
</tr>
<tr>
<td>vizUpdatedAt</td>
<td>string, The time that the report’s visualization was last updated.</td>
</tr>
<tr>
<td>script</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID for the script.</td>
</tr>
<tr>
<td></td>
<td>• name string, The name of the script.</td>
</tr>
<tr>
<td></td>
<td>• sql string, The raw SQL query for the script.</td>
</tr>
<tr>
<td>jobPath</td>
<td>string, The link to details of the job that backs this report.</td>
</tr>
<tr>
<td>tableauId</td>
<td>integer,</td>
</tr>
</tbody>
</table>
reports_post_refresh

Refresh the data in this Tableau report

Description

Refresh the data in this Tableau report

Usage

reports_post_refresh(id)

Arguments

id integer required. The ID of this report.
Value

A list containing the following elements:

- `id` integer, The ID of this report.
- `organization` list, A list containing the following elements:
  - `id` integer, The ID of this organization.
  - `tableauRefreshUsage` integer, The number of tableau refreshes used this month.
  - `tableauRefreshLimit` integer, The number of monthly tableau refreshes permitted to this organization.
  - `tableauRefreshHistory` array, The number of tableau refreshes used this month.

---

`reports_post_services`  
Create a service report

---

Description

Create a service report

Usage

```
reports_post_services(service_id, provide_api_key = NULL)
```

Arguments

- `service_id` integer required. The id of the backing service
- `provide_api_key` boolean optional. Whether the report requests an API Key from the report viewer.

Value

A list containing the following elements:

- `id` integer, The ID of this report.
- `name` string, The name of the report.
- `user` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.
- `createdAt` string,
updatedAt string,
host string, The host for the service report
displayUrl string, The URL to display the service report.
serviceId integer, The id of the backing service
provideAPIKey boolean, Whether the report requests an API Key from the report viewer.
apiKey string, A Civis API key that can be used by this report.
apiKeyId integer, The ID of the API key. Can be used for auditing API use by this report.

reports_put_archive  
Update the archive status of this object

Description
Update the archive status of this object

Usage
reports_put_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:

id integer, The ID of this report.
name string, The name of the report.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
createdAt string,
updatedAt string,
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
state string, The status of the report’s last run.
finishedAt  string, The time that the report’s last run finished.

vizUpdatedAt  string, The time that the report’s visualization was last updated.

script  list, A list containing the following elements:
  • id integer, The ID for the script.
  • name string, The name of the script.
  • sql string, The raw SQL query for the script.

jobPath  string, The link to details of the job that backs this report.

tableauId  integer,

type  string,

templateId  integer, The ID of the template used for this report.

authThumbnailUrl  string, URL for a thumbnail of the report.

lastRun  list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

archived  string, The archival status of the requested item(s).

hidden  boolean, The hidden status of the item.

authDataUrl  string,

authCodeUrl  string,

config  string, Any configuration metadata for this report.

validOutputFile  boolean, Whether the job (a script or a query) that backs the report currently has a valid output file.

provideAPIKey  boolean, Whether the report requests an API Key from the report viewer.

apiKey  string, A Civis API key that can be used by this report.

apiKeyId  integer, The ID of the API key. Can be used for auditing API use by this report.

AppState  list, Any application state blob for this report.

useViewersTableauUsername  boolean, Apply user level filtering on Tableau reports.
reports_put_git

Attach an item to a file in a git repo

Description

Attach an item to a file in a git repo

Usage

```r
reports_put_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

Arguments

- **id** integer required. The ID of the file.
- **git_ref** string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **git_branch** string optional. The git branch that the file is on.
- **git_path** string optional. The path of the file in the repository.
- **git_repo_url** string optional. The URL of the git repository.
- **pull_from_git** boolean optional. Automatically pull latest commit from git. Only works for scripts.

Value

A list containing the following elements:

- **gitRef** string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** string. The git branch that the file is on.
- **gitPath** string. The path of the file in the repository.
- **gitRepo** list, A list containing the following elements:
  - **id** integer, The ID for this git repository.
  - **repoUrl** string, The URL for this git repository.
  - **createdAt** string,
  - **updatedAt** string,
- **pullFromGit** boolean, Automatically pull latest commit from git. Only works for scripts.
**reports_put_projects**  
*Add a Report to a project*

**Description**  
Add a Report to a project

**Usage**  
`reports_put_projects(id, project_id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required</td>
<td>The ID of the Report.</td>
</tr>
<tr>
<td>project_id</td>
<td>integer required</td>
<td>The ID of the project.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response

---

**reports_put_services_projects**  
*Add a Service Report to a project*

**Description**  
Add a Service Report to a project

**Usage**  
`reports_put_services_projects(id, project_id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required</td>
<td>The ID of the Service Report.</td>
</tr>
<tr>
<td>project_id</td>
<td>integer required</td>
<td>The ID of the project.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response
reports_put_services_shares_groups

Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage
reports_put_services_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments
id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:
readers list, A list containing the following elements:
    • users array,
    • groups array,
writers list, A list containing the following elements:
    • users array,
    • groups array,
owners list, A list containing the following elements:
    • users array,
    • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
   integer, For owners, the number of total groups shared. For writers and readers,
   the number of visible groups shared.

reports_put_services_shares_users
   Set the permissions users have on this object

Description
   Set the permissions users have on this object

Usage
   reports_put_services_shares_users(
      id,
      user_ids,
      permission_level,
      share_email_body = NULL,
      send_shared_email = NULL
   )

Arguments
   id          integer required. The ID of the resource that is shared.
   user_ids    array required. An array of one or more user IDs.
   permission_level
      string required. Options are: "read", "write", or "manage".
   share_email_body
      string optional. Custom body text for e-mail sent on a share.
   send_shared_email
      boolean optional. Send email to the recipients of a share.

Value
   A list containing the following elements:
   readers    list, A list containing the following elements:
      • users array,
      • groups array,
   writers    list, A list containing the following elements:
      • users array,
      • groups array,
   owners     list, A list containing the following elements:
      • users array,
• groups array,

**totalUserShares**
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

**totalGroupShares**
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**reports_put_shares_groups**

*Set the permissions groups has on this object*

---

**Description**

Set the permissions groups has on this object

**Usage**

```pseudocode
reports_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
• users array,
• groups array,

owners list, A list containing the following elements:
• users array,
• groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

reports_put_shares_users

*Set the permissions users have on this object*

**Description**

Set the permissions users have on this object

**Usage**

```plaintext
reports_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>user_ids</td>
<td>array required. An array of one or more user IDs.</td>
</tr>
<tr>
<td>permission_level</td>
<td>string required. Options are: &quot;read&quot;, &quot;write&quot;, or &quot;manage&quot;.</td>
</tr>
<tr>
<td>share_email_body</td>
<td>string optional. Custom body text for e-mail sent on a share.</td>
</tr>
<tr>
<td>send_shared_email</td>
<td>boolean optional. Send email to the recipients of a share.</td>
</tr>
</tbody>
</table>
Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**run_civis**

*Evaluate an R expression in a Civis Platform container*

Description

Evaluate an R expression in a Civis Platform container

Usage

```r
run_civis(expr, ...)
```

Arguments

- **expr** code to evaluate
- **...** arguments to `CivisFuture`

Details

`run_civis` blocks until completion. For non-blocking calls, use futures directly with `civis_platform`. Attempts are made at detecting and installing necessary packages within the container, and detecting global variables required in `expr`.

See Also

Other script Utils: `civis_script()`, `fetch_output_file_ids()`, `run_template()`
run_template

Examples

```r
## Not run:
run_civis(2+2)

# specify required resources, and a specific image
run_civis(2+2,
  required_resources = list(cpu = 1024, memory = 2048),
  docker_image_name='image',
  docker_image_tag = 'latest')

## End(Not run)
```

---

run_template  
*Run a template script*

Description

Run a template script

Usage

```r
run_template(id, arguments, JSONValue = FALSE, ...)
```

Arguments

- `id`  
id of the template script.
- `arguments`  
list of arguments to the script.
- `JSONValue`  
bool (default FALSE) If true, returns the JSON values instead of the file_ids
- `...`  
additional arguments to `scripts_post_custom`

Value

If `JSONValue` is FALSE, File ids of any run outputs are returned. If `JSONValue` is TRUE, JSON values of first JSON run output is returned. If there are no JSON outputs, warning message is printed and nothing is returned. If there are more than 1 JSON outputs, warning message is printed and the first JSON output is returned.

See Also

Other script_utils: `civis_script()`, `fetch_output_file_ids()`, `run_civis()`
saml_service_providers_delete_shares_groups

Examples

```r
## Not run:
# Try a search for the template id
search_list('template name', type = 'template_script')

# Run the template
run_template(id, arguments = list(arg1 = 1, arg2 = 2), ...)

# Run the template and return JSON value outputs
run_template(id, arguments = list(arg1 = 1, arg2 = 2), JSONValue=TRUE, ...)

## End(Not run)
```

---

saml_service_providers_delete_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

`saml_service_providers_delete_shares_groups(id, group_id)`

Arguments

- **id** integer required. The ID of the resource that is shared.
- **group_id** integer required. The ID of the group.

Value

An empty HTTP response

---

saml_service_providers_delete_shares_users

Revoke the permissions a user has on this object

Description

Revoke the permissions a user has on this object

Usage

`saml_service_providers_delete_shares_users(id, user_id)`
Arguments

id    integer required. The ID of the resource that is shared.
user_id    integer required. The ID of the user.

Value

An empty HTTP response

---

saml_service_providers_list_shares

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

saml_service_providers_list_shares(id)

Arguments

id    integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers    list, A list containing the following elements:
    • users array,
    • groups array,
writers    list, A list containing the following elements:
    • users array,
    • groups array,
owners    list, A list containing the following elements:
    • users array,
    • groups array,
totalUserShares    integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares    integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
saml_service_providers_put_shares_groups

Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage
saml_service_providers_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments
id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:
readers list, A list containing the following elements:
  • users array,
  • groups array,
writers list, A list containing the following elements:
  • users array,
  • groups array,
owners list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
integer. For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

saml_service_providers_put_shares_users
Set the permissions users have on this object

Description
Set the permissions users have on this object

Usage
saml_service_providers_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments
id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:
readers list, A list containing the following elements:
  • users array,
  • groups array,
writers list, A list containing the following elements:
  • users array,
  • groups array,
owners list, A list containing the following elements:
  • users array,
scripts_delete

- groups array,

**totalUserShares**
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

**totalGroupShares**
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**scripts_delete**

*Archive a script (deprecated, use archive endpoints instead)*

**Description**
Archive a script (deprecated, use archive endpoints instead)

**Usage**

```
scripts_delete(id)
```

**Arguments**

- `id`
  integer required. The ID for the script.

**Value**

An empty HTTP response

---

**scripts_delete_containers**

*Archive a container (deprecated, use archive endpoints)*

**Description**
Archive a container (deprecated, use archive endpoints)

**Usage**

```
scripts_delete_containers(id)
```

**Arguments**

- `id`
  integer required. The ID for the script.

**Value**

An empty HTTP response
scripts_delete_containers_projects

Remove a Container Script from a project

**Description**
Remove a Container Script from a project

**Usage**
```
scripts_delete_containers_projects(id, project_id)
```

**Arguments**
- **id** integer required. The ID of the Container Script.
- **project_id** integer required. The ID of the project.

**Value**
An empty HTTP response

---

scripts_delete_containers_runs

Cancel a run

**Description**
Cancel a run

**Usage**
```
scripts_delete_containers_runs(id, run_id)
```

**Arguments**
- **id** integer required. The ID of the container.
- **run_id** integer required. The ID of the run.

**Value**
An empty HTTP response
scripts_delete_containers_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
scripts_delete_containers_shares_groups(id, group_id)

Arguments
id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value
An empty HTTP response

scripts_delete_containers_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
scripts_delete_containers_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response
scripts_delete_custom  Archive a Custom Script (deprecated, use archiving endpoints instead)

Description
Archive a Custom Script (deprecated, use archiving endpoints instead)

Usage
scripts_delete_custom(id)

Arguments
id    integer required.

Value
An empty HTTP response

scripts_delete_custom_projects  Remove a Custom Script from a project

Description
Remove a Custom Script from a project

Usage
scripts_delete_custom_projects(id, project_id)

Arguments
id    integer required. The ID of the Custom Script.
project_id    integer required. The ID of the project.

Value
An empty HTTP response
scripts_delete_custom_runs

*Cancel a run*

**Description**
Cancel a run

**Usage**

```
scripts_delete_custom_runs(id, run_id)
```

**Arguments**

- `id` integer required. The ID of the custom.
- `run_id` integer required. The ID of the run.

**Value**

An empty HTTP response

---

scripts_delete_custom_shares_groups

*Revoke the permissions a group has on this object*

**Description**
Revoke the permissions a group has on this object

**Usage**

```
scripts_delete_custom_shares_groups(id, group_id)
```

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `group_id` integer required. The ID of the group.

**Value**

An empty HTTP response
scripts_delete_custom_shares_users

*Revoke the permissions a user has on this object*

**Description**
Revoke the permissions a user has on this object

**Usage**

`scripts_delete_custom_shares_users(id, user_id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the resource that is shared.</td>
</tr>
<tr>
<td>user_id</td>
<td>integer required. The ID of the user.</td>
</tr>
</tbody>
</table>

**Value**
An empty HTTP response

---

scripts_delete_javascript

*Archive a JavaScript Script (deprecated, use archiving endpoints instead)*

**Description**
Archive a JavaScript Script (deprecated, use archiving endpoints instead)

**Usage**

`scripts_delete_javascript(id)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required.</td>
</tr>
</tbody>
</table>

**Value**
An empty HTTP response
scripts_delete_javascript_projects

*Remove a JavaScript Script from a project*

**Description**

Remove a JavaScript Script from a project

**Usage**

scripts_delete_javascript_projects(id, project_id)

**Arguments**

- **id** integer required. The ID of the JavaScript Script.
- **project_id** integer required. The ID of the project.

**Value**

An empty HTTP response

---

scripts_delete_javascript_runs

*Cancel a run*

**Description**

Cancel a run

**Usage**

scripts_delete_javascript_runs(id, run_id)

**Arguments**

- **id** integer required. The ID of the javascript.
- **run_id** integer required. The ID of the run.

**Value**

An empty HTTP response
scripts_delete_javascript_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
scripts_delete_javascript_shares_groups(id, group_id)

Arguments
- id: integer required. The ID of the resource that is shared.
- group_id: integer required. The ID of the group.

Value
An empty HTTP response

scripts_delete_javascript_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
scripts_delete_javascript_shares_users(id, user_id)

Arguments
- id: integer required. The ID of the resource that is shared.
- user_id: integer required. The ID of the user.

Value
An empty HTTP response
scripts_delete_python3

Archive a Python Script (deprecated, use archiving endpoints instead)

Description

Archive a Python Script (deprecated, use archiving endpoints instead)

Usage

scripts_delete_python3(id)

Arguments

id integer required.

Value

An empty HTTP response

scripts_delete_python3_projects

Remove a Python Script from a project

Description

Remove a Python Script from a project

Usage

scripts_delete_python3_projects(id, project_id)

Arguments

id integer required. The ID of the Python Script.
project_id integer required. The ID of the project.

Value

An empty HTTP response
scripts_delete_python3_runs

*Cancel a run*

**Description**

Cancel a run

**Usage**

`scripts_delete_python3_runs(id, run_id)`

**Arguments**

- `id` integer required. The ID of the python.
- `run_id` integer required. The ID of the run.

**Value**

An empty HTTP response

---

scripts_delete_python3_shares_groups

*Revoking the permissions a group has on this object*

**Description**

Revoking the permissions a group has on this object

**Usage**

`scripts_delete_python3_shares_groups(id, group_id)`

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `group_id` integer required. The ID of the group.

**Value**

An empty HTTP response
scripts_delete_python3_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
scripts_delete_python3_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response

scripts_delete_r

Archive an R Script (deprecated, use archiving endpoints instead)

Description
Archive an R Script (deprecated, use archiving endpoints instead)

Usage
scripts_delete_r(id)

Arguments
id integer required.

Value
An empty HTTP response
scripts_delete_r_projects

Remove an R Script from a project

Description

Remove an R Script from a project

Usage

scripts_delete_r_projects(id, project_id)

Arguments

id integer required. The ID of the R Script.
project_id integer required. The ID of the project.

Value

An empty HTTP response

scripts_delete_r_runs Cancel a run

Description

Cancel a run

Usage

scripts_delete_r_runs(id, run_id)

Arguments

id integer required. The ID of the r.
run_id integer required. The ID of the run.

Value

An empty HTTP response
scripts_delete_r_shares_groups

Revoke the permissions a group has on this object

**Description**

Revoke the permissions a group has on this object

**Usage**

```
scripts_delete_r_shares_groups(id, group_id)
```

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `group_id` integer required. The ID of the group.

**Value**

An empty HTTP response

---

scripts_delete_r_shares_users

Revoke the permissions a user has on this object

**Description**

Revoke the permissions a user has on this object

**Usage**

```
scripts_delete_r_shares_users(id, user_id)
```

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `user_id` integer required. The ID of the user.

**Value**

An empty HTTP response
scripts_delete_sql

*Archive a SQL script (deprecated, use archiving endpoints instead)*

**Description**

Archive a SQL script (deprecated, use archiving endpoints instead)

**Usage**

scripts_delete_sql(id)

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>required.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response

---

scripts_delete_sql_projects

*Remove a SQL script from a project*

**Description**

Remove a SQL script from a project

**Usage**

scripts_delete_sql_projects(id, project_id)

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>required. The ID of the SQL script.</td>
</tr>
<tr>
<td>project_id</td>
<td>integer</td>
<td>required. The ID of the project.</td>
</tr>
</tbody>
</table>

**Value**

An empty HTTP response
scripts_delete_sql_runs

Cancel a run

Description

Cancel a run

Usage

scripts_delete_sql_runs(id, run_id)

Arguments

id integer required. The ID of the sql.
run_id integer required. The ID of the run.

Value

An empty HTTP response

scripts_delete_sql_shares_groups

Revoke the permissions a group has on this object

Description

Revoke the permissions a group has on this object

Usage

scripts_delete_sql_shares_groups(id, group_id)

Arguments

id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value

An empty HTTP response
scripts_delete_sql_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
scripts_delete_sql_shares_users(id, user_id)

Arguments
id          integer required. The ID of the resource that is shared.
user_id     integer required. The ID of the user.

Value
An empty HTTP response

scripts_get
Get details about a script

Description
Get details about a script

Usage
scripts_get(id)

Arguments
id          integer required. The ID for the script.

Value
A list containing the following elements:

- id          integer, The ID for the script.
- name        string, The name of the script.
- type        string, The type of script.
- createdAt   string, The time this script was created.
- updatedAt   string, The time this script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’
arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.
scripts_get

<table>
<thead>
<tr>
<th>keys</th>
<th>description</th>
</tr>
</thead>
<tbody>
<tr>
<td>links</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• details string, The details link to get more information about the script.</td>
</tr>
<tr>
<td></td>
<td>• runs string, The runs link to get the run information list for this script.</td>
</tr>
<tr>
<td>schedule</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• scheduled boolean, If the item is scheduled.</td>
</tr>
<tr>
<td></td>
<td>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</td>
</tr>
<tr>
<td></td>
<td>• scheduledHours array, Hours of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledMinutes array, Minutes of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of</td>
</tr>
<tr>
<td></td>
<td>times to run per hour.</td>
</tr>
<tr>
<td>notifications</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• urls array, URLs to receive a POST request at job completion</td>
</tr>
<tr>
<td></td>
<td>• successEmailSubject string, Custom subject line for success e-mail.</td>
</tr>
<tr>
<td></td>
<td>• successEmailBody string, Custom body text for success e-mail, written in</td>
</tr>
<tr>
<td></td>
<td>Markdown.</td>
</tr>
<tr>
<td></td>
<td>• successEmailAddresses array, Addresses to notify by e-mail when the job</td>
</tr>
<tr>
<td></td>
<td>completes successfully.</td>
</tr>
<tr>
<td></td>
<td>• successEmailFromName string, Name from which success emails are sent;</td>
</tr>
<tr>
<td></td>
<td>defaults to &quot;Civis.&quot;</td>
</tr>
<tr>
<td></td>
<td>• successEmailReplyTo string, Address for replies to success emails; defaults</td>
</tr>
<tr>
<td></td>
<td>to the author of the job.</td>
</tr>
<tr>
<td></td>
<td>• failureEmailAddresses array, Addresses to notify by e-mail when the job</td>
</tr>
<tr>
<td></td>
<td>fails.</td>
</tr>
<tr>
<td></td>
<td>• stallWarningMinutes integer, Stall warning emails will be sent after this</td>
</tr>
<tr>
<td></td>
<td>amount of minutes.</td>
</tr>
<tr>
<td></td>
<td>• successOn boolean, If success email notifications are on.</td>
</tr>
<tr>
<td></td>
<td>• failureOn boolean, If failure email notifications are on.</td>
</tr>
<tr>
<td>runningAs</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>nextRunAt</td>
<td>string, The time of the next scheduled run.</td>
</tr>
<tr>
<td>timeZone</td>
<td>string, The time zone of this script.</td>
</tr>
<tr>
<td>lastRun</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer,</td>
</tr>
<tr>
<td></td>
<td>• state string,</td>
</tr>
<tr>
<td></td>
<td>• createdAt string, The time that the run was queued.</td>
</tr>
<tr>
<td></td>
<td>• startedAt string, The time that the run started.</td>
</tr>
<tr>
<td></td>
<td>• finishedAt string, The time that the run completed.</td>
</tr>
</tbody>
</table>
scripts_get_containers

- error string, The error message for this run, if present.
- hidden boolean, The hidden status of the item.
- targetProjectId integer, Target project to which script outputs will be added.
- archived string, The archival status of the requested item(s).
- sql string, The raw SQL query for the script.
- expandedArguments list, Expanded arguments for use in injecting into different environments.
- templateScriptId integer, The ID of the template script, if any.

scripts_get_containers

View a container

Description

View a container

Usage

scripts_get_containers(id)

Arguments

id integer required. The ID for the script.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the container.
type string, The type of the script (e.g Container)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
state string, The status of the script’s last run.
scripts_get_containers

finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’
arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
templateDependentsCount integer, How many other scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template script.
templateScriptName string, The name of the template script.
links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

**notifications** list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

**runningAs** list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

**requiredResources** list, A list containing the following elements:
• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
• memory integer, The amount of RAM to allocate for the container (in MB).
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

**repoHttpUri** string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

**repoRef** string, The tag or branch of the github repo to clone into the container.

**remoteHostCredentialId** integer, The id of the database credentials to pass into the environment of the container.

**gitCredentialId** integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.
scripts_get_containers_runs

Check status of a run

Description

Check status of a run

Usage

scripts_get_containers_runs(id, run_id)

Arguments

id  integer required. The ID of the container.
run_id  integer required. The ID of the run.
Value

A list containing the following elements:

- **id** integer, The ID of the run.
- **containerId** integer, The ID of the container.
- **state** string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.

---

`scripts_get_custom`  Get a Custom Script

Description

Get a Custom Script

Usage

`scripts_get_custom(id)`

Arguments

- **id** integer required.

Value

A list containing the following elements:

- **id** integer, The ID for the script.
- **name** string, The name of the script.
- **type** string, The type of the script (e.g Custom)
- **createdAt** string, The time this script was created.
- **updatedAt** string, The time the script was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string,
projects array, An array containing the following fields:
• id integer, The ID for the project.
• name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
params array, An array containing the following fields:
• name string, The variable’s name as used within your code.
• label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’ : ‘import’ ‘
arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template script.
uiReportUrl integer, The url of the custom HTML.
uiReportId integer, The id of the report with the custom HTML.
uiReportProvideAPIKey boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName string, The name of the template script.
templateNote string, The template’s note.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
codePreview string, The code that this script will run with arguments inserted.
scripts_get_custom

**schedule** list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

**notifications** list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

**runningAs** list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

**timeZone** string, The time zone of this script.

**lastRun** list, A list containing the following elements:
- id integer,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

**hidden** boolean, The hidden status of the item.

**archived** string, The archival status of the requested item(s).

**targetProjectId** integer, Target project to which script outputs will be added.
lastSuccessfulRun
   list, A list containing the following elements:
   • id integer,
   • state string,
   • createdAt string, The time that the run was queued.
   • startedAt string, The time that the run started.
   • finishedAt string, The time that the run completed.
   • error string, The error message for this run, if present.

---

**scripts_get_custom_runs**

*Check status of a run*

**Description**

Check status of a run

**Usage**

    scripts_get_custom_runs(id, run_id)

**Arguments**

- **id** integer required. The ID of the custom.
- **run_id** integer required. The ID of the run.

**Value**

A list containing the following elements:

- **id** integer, The ID of the run.
- **customId** integer, The ID of the custom.
- **state** string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.
scripts_get_javascript

Get a JavaScript Script

Description
Get a JavaScript Script

Usage
scripts_get_javascript(id)

Arguments
id integer required.

Value
A list containing the following elements:

- id integer, The ID for the script.
- name string, The name of the script.
- type string, The type of the script (e.g. SQL, Container, Python, R, JavaScript)
- createdAt string, The time this script was created.
- updatedAt string, The time the script was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state string, The status of the script’s last run.
- finishedAt string, The time that the script’s last run finished.
- category string, The category of the script.
- projects array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- parentId integer, The ID of the parent job that will trigger this script
- userContext string, "runner" or "author", who to execute the script as when run as a template.
- params array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import'’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
• details string, The details link to get more information about the script.
• runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
source string, The body/text of the script.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.

---

scripts_get_javascript_git_commits

*Get file contents at commit_hash*

---

**Description**

Get file contents at commit_hash
Usage

scripts_get_javascript_git_commits(id, commit_hash)

Arguments

id integer required. The ID of the file.
commit_hash string required. The SHA (full or shortened) of the desired git commit.

Value

A list containing the following elements:

content string, The file’s contents.
type string, The file’s type.
size integer, The file’s size.
fileHash string, The SHA of the file.

scripts_get_javascript_runs

Check status of a run

Description

Check status of a run

Usage

scripts_get_javascript_runs(id, run_id)

Arguments

id integer required. The ID of the javascript.
run_id integer required. The ID of the run.

Value

A list containing the following elements:

id integer, The ID of the run.
javascriptId integer, The ID of the javascript.
state string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.
scripts_get_python3  Get a Python Script

Description
Get a Python Script

Usage
scripts_get_python3(id)

Arguments
id integer required.

Value
A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user's name.
  • username string, This user's username.
  • initials string, This user's initials.
  • online boolean, Whether this user is online.
state string, The status of the script's last run.
finishedAt string, The time that the script's last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable's name as used within your code.
  • label string, The label to present to users when asking them for the value.
scripts_get_python3

- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  - details string, The details link to get more information about the script.
  - runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source string, The body/text of the script.
cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag string, The tag of the docker image to pull from DockerHub.

---

**scripts_get_python3_git_commits**

*Get file contents at commit_hash*

**Description**

Get file contents at commit_hash

**Usage**

```python
scripts_get_python3_git_commits(id, commit_hash)
```

**Arguments**

- **id** integer required. The ID of the file.
- **commit_hash** string required. The SHA (full or shortened) of the desired git commit.

**Value**

A list containing the following elements:

- **content** string, The file’s contents.
- **type** string, The file’s type.
- **size** integer, The file’s size.
- **fileHash** string, The SHA of the file.

---

**scripts_get_python3_runs**

*Check status of a run*

**Description**

Check status of a run

**Usage**

```python
scripts_get_python3_runs(id, run_id)
```
scripts_get_r

Arguments

id integer required. The ID of the python.
run_id integer required. The ID of the run.

Value

A list containing the following elements:

id integer, The ID of the run.
pythonId integer, The ID of the python.
state string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.

Description

Get an R Script

Usage

scripts_get_r(id)

Arguments

id integer required.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.

parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ’import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.
links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
scripts_get_r

- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
  - failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId
- integer. Target project to which script outputs will be added.

archived
- string. The archival status of the requested item(s).

requiredResources
- list, A list containing the following elements:
  - cpu integer. The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
  - memory integer. The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
  - diskSpace number. The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType
- string. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source
- string, The body/text of the script.

cancelTimeout
- integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag
- string, The tag of the docker image to pull from DockerHub.

---

**scripts_get_r_git_commits**

*Get file contents at commit_hash*

**Description**

Get file contents at commit_hash

**Usage**

```
scripts_get_r_git_commits(id, commit_hash)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the file.</td>
</tr>
<tr>
<td>commit_hash</td>
<td>string required. The SHA (full or shortened) of the desired git commit.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>content</td>
<td>string. The file’s contents.</td>
</tr>
<tr>
<td>type</td>
<td>string. The file’s type.</td>
</tr>
<tr>
<td>size</td>
<td>integer. The file’s size.</td>
</tr>
<tr>
<td>fileHash</td>
<td>string. The SHA of the file.</td>
</tr>
</tbody>
</table>
scripts_get_r_runs  

Check status of a run

Description
Check status of a run

Usage
scripts_get_r_runs(id, run_id)

Arguments
id  
integer required. The ID of the r.

run_id  
integer required. The ID of the run.

Value
A list containing the following elements:

id  
integer, The ID of the run.

rId  
integer, The ID of the r.

state  
string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

isCancelRequested  
boolean, True if run cancel requested, else false.

startedAt  
string, The time the last run started at.

finishedAt  
string, The time the last run completed.

error  
string, The error, if any, returned by the run.

scripts_get_sql  

Get a SQL script

Description
Get a SQL script

Usage
scripts_get_sql(id)

Arguments
id  
integer required.
Value

A list containing the following elements:

- **id** integer, The ID for the script.
- **name** string, The name of the script.
- **type** string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- **createdAt** string, The time this script was created.
- **updatedAt** string, The time the script was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The status of the script’s last run.
- **finishedAt** string, The time that the script’s last run finished.
- **category** string, The category of the script.
- **projects** array, An array containing the following fields:
  - **id** integer, The ID for the project.
  - **name** string, The name of the project.
- **parentId** integer, The ID of the parent job that will trigger this script.
- **userContext** string, "runner" or "author", who to execute the script as when run as a template.
- **params** array, An array containing the following fields:
  - **name** string, The variable’s name as used within your code.
  - **label** string, The label to present to users when asking them for the value.
  - **description** string, A short sentence or fragment describing this parameter to the end user.
  - **type** string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required** boolean, Whether this param is required.
  - **value** string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ’import’
- **arguments** list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.
links list, A list containing the following elements:
• details string, The details link to get more information about the script.
• runs string, The runs link to get the run information list for this script.
schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.
runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.
nextRunAt string, The time of the next scheduled run.
scripts_get_sql_git_commits

Get file contents at commit_hash

Description

Get file contents at commit_hash

timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
sql string, The raw SQL query for the script.
expandedArguments list, Expanded arguments for use in injecting into different environments.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
codePreview string, The code that this script will run with arguments inserted.
csvSettings list, A list containing the following elements:
  • includeHeader boolean, Whether or not to include headers in the output data. Default: true
  • compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
  • columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
  • unquoted boolean, Whether or not to quote fields. Default: false
  • forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
  • filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
  • maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.
Usage

scripts_get_sql_git_commits(id, commit_hash)

Arguments

id  integer required. The ID of the file.
commit_hash  string required. The SHA (full or shortened) of the desired git commit.

Value

A list containing the following elements:

content  string, The file’s contents.
type  string, The file’s type.
size  integer, The file’s size.
fileHash  string, The SHA of the file.

scripts_get_sql_runs  Check status of a run

Description

Check status of a run

Usage

scripts_get_sql_runs(id, run_id)

Arguments

id  integer required. The ID of the sql.
run_id  integer required. The ID of the run.

Value

A list containing the following elements:

id  integer, The ID of this run.
sqlId  integer, The ID of this sql.
state  string, The state of this run.
isCancelRequested  boolean, True if run cancel requested, else false.
startedAt  string, The time the last run started.
finishedAt  string, The time that this run finished.
error  string, The error message for this run, if present.
output array, An array containing the following fields:
  • outputName string, The name of the output file.
  • fileId integer, The unique ID of the output file.
  • path string, The temporary link to download this output file, valid for 36 hours.

---

**scripts_list**

**List Scripts**

**Description**

List Scripts

**Usage**

```python
scripts_list(
    type = NULL,
    category = NULL,
    author = NULL,
    status = NULL,
    hidden = NULL,
    archived = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>type</td>
<td>string optional. If specified, return items of these types. The valid types are sql, python3, javascript, r, and containers.</td>
</tr>
<tr>
<td>category</td>
<td>string optional. A job category for filtering scripts. Must be one of script, import, export, and enhancement.</td>
</tr>
<tr>
<td>author</td>
<td>string optional. If specified, return items from this author. Must use user IDs. A comma separated list of IDs is also accepted to return items from multiple authors.</td>
</tr>
<tr>
<td>status</td>
<td>string optional. If specified, returns items with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.</td>
</tr>
<tr>
<td>hidden</td>
<td>boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.</td>
</tr>
<tr>
<td>archived</td>
<td>string optional. The archival status of the requested item(s).</td>
</tr>
<tr>
<td>limit</td>
<td>integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.</td>
</tr>
</tbody>
</table>
scripts_list

page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.

order  string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at, last_run.updated_at.

order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- id  integer, The ID for the script.
- name  string, The name of the script.
- type  string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- createdAt  string, The time this script was created.
- updatedAt  string, The time the script was last updated.
- author  list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state  string, The status of the script’s last run.
- finishedAt  string, The time that the script’s last run finished.
- projects  array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- parentId  integer, The ID of the parent job that will trigger this script
- isTemplate  boolean, Whether others scripts use this one as a template.
- fromTemplateId  integer, The ID of the template this script uses, if any.
- links  list, A list containing the following elements:
  - details string, The details link to get more information about the script.
  - runs string, The runs link to get the run information list for this script.
- timeZone  string, The time zone of this script.
- lastRun  list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
- archived  string, The archival status of the requested item(s).
- templateScriptId  integer, The ID of the template script, if any.
scripts_list_containers_projects

List the projects a Container Script belongs to

Description
List the projects a Container Script belongs to

Usage
scripts_list_containers_projects(id, hidden = NULL)

Arguments
id integer required. The ID of the Container Script.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value
An array containing the following fields:

- id integer, The ID for this project.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- name string, The name of this project.
- description string, A description of the project.
- users array, An array containing the following fields:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- autoShare boolean,
- createdAt string,
- updatedAt string,
- archived string, The archival status of the requested item(s).
scripts_list_containers_runs

List runs for the given container

Description

List runs for the given container

Usage

```r
scripts_list_containers_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- **id**
  - integer required. The ID of the container.

- **limit**
  - integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.

- **page_num**
  - integer optional. Page number of the results to return. Defaults to the first page, 1.

- **order**
  - string optional. The field on which to order the result set. Defaults to id. Must be one of: id.

- **order_dir**
  - string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id**
  - integer, The ID of the run.

- **containerId**
  - integer, The ID of the container.

- **state**
  - string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

- **isCancelRequested**
  - boolean, True if run cancel requested, else false.

- **startedAt**
  - string, The time the last run started at.

- **finishedAt**
  - string, The time the last run completed.

- **error**
  - string, The error, if any, returned by the run.
scripts_list_containers_runs_logs

Get the logs for a run

Description

Get the logs for a run

Usage

scripts_list_containers_runs_logs(id, run_id, last_id = NULL, limit = NULL)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the container.</td>
</tr>
<tr>
<td>run_id</td>
<td>integer required. The ID of the run.</td>
</tr>
<tr>
<td>last_id</td>
<td>integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.</td>
</tr>
<tr>
<td>limit</td>
<td>integer optional. The maximum number of log messages to return. Default of 10000.</td>
</tr>
</tbody>
</table>

Value

An array containing the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of the log.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string, The time the log was created.</td>
</tr>
<tr>
<td>message</td>
<td>string, The log message.</td>
</tr>
<tr>
<td>level</td>
<td>string, The level of the log. One of unknown, fatal, error, warn, info, debug.</td>
</tr>
</tbody>
</table>

scripts_list_containers_runs_outputs

List the outputs for a run

Description

List the outputs for a run
Usage

```r
scripts_list_containers_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- `id` integer required. The ID of the container script.
- `run_id` integer required. The ID of the run.
- `limit` integer optional. Number of results to return. Defaults to its maximum of 50.
- `page_num` integer optional. Page number of the results to return. Defaults to the first page, 1.
- `order` string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- `order_dir` string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- `objectType` string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- `objectId` integer, The ID of the output.
- `name` string, The name of the output.
- `link` string, The hypermedia link to the output.
- `value` string,

---

**scripts_list_containers_shares**

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

```r
scripts_list_containers_shares(id)
```
Arguments

id integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts_list_custom List Custom Scripts

Description

List Custom Scripts

Usage

scripts_list_custom(
  from_template_id = NULL,
  author = NULL,
  status = NULL,
  hidden = NULL,
  archived = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
Arguments

from_template_id
string optional. If specified, return scripts based on the template with this ID. Specify multiple IDs as a comma-separated list.

author
string optional. If specified, return items from this author. Must use user IDs. A comma separated list of IDs is also accepted to return items from multiple authors.

status
string optional. If specified, returns items with one of these statuses. It accepts a comma-separated list, possible values are 'running', 'failed', 'succeeded', 'idle', 'scheduled'.

hidden
boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

archived
string optional. The archival status of the requested item(s).

limit
integer optional. Number of results to return. Defaults to its maximum of 50.

page_num
integer optional. Page number of the results to return. Defaults to the first page, 1.

order
string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.

order_dir
string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

id
integer, The ID for the script.

name
string, The name of the script.

type
string, The type of the script (e.g Custom)

createdAt
string, The time this script was created.

updatedAt
string, The time the script was last updated.

author
list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state
string, The status of the script’s last run.

finishedAt
string, The time that the script’s last run finished.

projects
array, An array containing the following fields:

• id integer, The ID for the project.
• name string, The name of the project.

parentId
integer, The ID of the parent job that will trigger this script
scripts_list_custom_projects

List the projects a Custom Script belongs to

Description

List the projects a Custom Script belongs to

Usage

scripts_list_custom_projects(id, hidden = NULL)

Arguments

id integer required. The ID of the Custom Script.

hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
Value

An array containing the following fields:

- **id**: integer, The ID for this project.
- **author**: list, A list containing the following elements:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
  - **initials**: string, This user’s initials.
  - **online**: boolean, Whether this user is online.
- **name**: string, The name of this project.
- **description**: string, A description of the project.
- **users**: array, An array containing the following fields:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
  - **initials**: string, This user’s initials.
  - **online**: boolean, Whether this user is online.
- **autoShare**: boolean,
- **createdAt**: string,
- **updatedAt**: string,
- **archived**: string, The archival status of the requested item(s).

---

**scripts_list_custom_runs**

*List runs for the given custom*

---

**Description**

List runs for the given custom

**Usage**

```javascript
scripts_list_custom_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```
Arguments

id          integer required. The ID of the custom.
limit      integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num   integer optional. Page number of the results to return. Defaults to the first page, 1.
order      string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id          integer, The ID of the run.
customId    integer, The ID of the custom.
state       string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt   string, The time the last run started at.
finishedAt  string, The time the last run completed.
error       string, The error, if any, returned by the run.

scripts_list_custom_runs_logs

*Get the logs for a run*

Description

Get the logs for a run

Usage

scripts_list_custom_runs_logs(id, run_id, last_id = NULL, limit = NULL)

Arguments

id          integer required. The ID of the custom.
run_id      integer required. The ID of the run.
last_id     integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
limit       integer optional. The maximum number of log messages to return. Default of 10000.
Value

An array containing the following fields:

- id: integer, The ID of the log.
- createdAt: string, The time the log was created.
- level: string, The level of the log. One of unknown,fatal,error,warn,info,debug.

scripts_list_custom_runs_outputs

List the outputs for a run

Description

List the outputs for a run

Usage

```javascript
scripts_list_custom_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- id: integer required. The ID of the custom script.
- run_id: integer required. The ID of the run.
- limit: integer optional. Number of results to return. Defaults to its maximum of 50.
- page_num: integer optional. Page number of the results to return. Defaults to the first page, 1.
- order: string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- order_dir: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

- **objectType** string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId** integer, The ID of the output.
- **name** string, The name of the output.
- **link** string, The hypermedia link to the output.
- **value** string,

---

`scripts_list_custom_shares`

*List users and groups permissioned on this object*

---

Description

List users and groups permissioned on this object

Usage

`scripts_list_custom_shares(id)`

Arguments

- **id** integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
Get the run history and outputs of this script

**Description**
Get the run history and outputs of this script

**Usage**
```
scripts_list_history(id)
```

**Arguments**
- `id` integer required. The ID for the script.

**Value**
A list containing the following elements:

- `id` integer, The ID of this run.
- `sqlId` integer, The ID of this sql.
- `state` string, The state of this run.
- `isCancelRequested` boolean, True if run cancel requested, else false.
- `finishedAt` string, The time that this run finished.
- `error` string, The error message for this run, if present.
- `output` array, An array containing the following fields:
  - `outputName` string, The name of the output file.
  - `fileId` integer, The unique ID of the output file.
  - `path` string, The temporary link to download this output file, valid for 36 hours.

Get the git metadata attached to an item

**Description**
Get the git metadata attached to an item

**Usage**
```
scripts_list_javascript_git(id)
```
**Arguments**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>integer required. The ID of the file.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

- **gitRef** string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** string, The git branch that the file is on.
- **gitPath** string, The path of the file in the repository.
- **gitRepo** list, A list containing the following elements:
  - id integer, The ID for this git repository.
  - repoUrl string, The URL for this git repository.
  - createdAt string,
  - updatedAt string,
- **pullFromGit** boolean, Automatically pull latest commit from git. Only works for scripts.

---

**scripts_list_javascript_git_commits**

*Get the git commits for an item*

**Description**

Get the git commits for an item

**Usage**

`scripts_list_javascript_git_commits(id)`

**Arguments**

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>integer required. The ID of the file.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

- **commitHash** string, The SHA of the commit.
- **authorName** string, The name of the commit’s author.
- **date** string, The commit’s timestamp.
- **message** string, The commit message.
scripts_list_javascript_projects

List the projects a JavaScript Script belongs to

Description

List the projects a JavaScript Script belongs to

Usage

scripts_list_javascript_projects(id, hidden = NULL)

Arguments

id integer required. The ID of the JavaScript Script.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

id integer, The ID for this project.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).
scripts_list_javascript_runs

List runs for the given javascript

**Description**

List runs for the given javascript

**Usage**

```python
def scripts_list_javascript_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **id**: integer required. The ID of the javascript.
- **limit**: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

**Value**

An array containing the following fields:

- **id**: integer, The ID of the run.
- **javascriptId**: integer, The ID of the javascript.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.
scripts_list_javascript_runs_logs

Get the logs for a run

Description
Get the logs for a run

Usage
scripts_list_javascript_runs_logs(id, run_id, last_id = NULL, limit = NULL)

Arguments
id
integer required. The ID of the javascript.
run_id
integer required. The ID of the run.
last_id
integer optional. The ID of the last log message received. Log entries with this
ID value or lower will be omitted. Logs are sorted by ID if this value is provided,
and are otherwise sorted by createdAt.
limit
integer optional. The maximum number of log messages to return. Default of
10000.

Value
An array containing the following fields:
id
integer, The ID of the log.
createdAt
string, The time the log was created.
message
string, The log message.
level
string, The level of the log. One of unknown, fatal, error, warn, info, debug.

scripts_list_javascript_runs_outputs

List the outputs for a run

Description
List the outputs for a run
Usage

```
scripts_list_javascript_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **id**: integer required. The ID of the javascript script.
- **run_id**: integer required. The ID of the run.
- **limit**: integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **objectType**: string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId**: integer, The ID of the output.
- **name**: string, The name of the output.
- **link**: string, The hypermedia link to the output.
- **value**: string,

---

**scripts_list_javascriptShares**

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

```
scripts_list_javascriptShares(id)
```
Arguments

id  integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts_list_python3_git

*Get the git metadata attached to an item*

---

Description

Get the git metadata attached to an item

Usage

`scripts_list_python3_git(id)`

Arguments

id  integer required. The ID of the file.
Value

A list containing the following elements:

- `gitRef` string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- `gitBranch` string, The git branch that the file is on.
- `gitPath` string, The path of the file in the repository.
- `gitRepo` list, A list containing the following elements:
  - `id` integer, The ID for this git repository.
  - `repoUrl` string, The URL for this git repository.
  - `createdAt` string,
  - `updatedAt` string,
- `pullFromGit` boolean, Automatically pull latest commit from git. Only works for scripts.

---

**scripts_list_python3_git_commits**

*Get the git commits for an item*

---

Description

Get the git commits for an item

Usage

`scripts_list_python3_git_commits(id)`

Arguments

- `id` integer required. The ID of the file.

Value

A list containing the following elements:

- `commitHash` string, The SHA of the commit.
- `authorName` string, The name of the commit’s author.
- `date` string, The commit’s timestamp.
- `message` string, The commit message.
scripts_list_python3_projects

List the projects a Python Script belongs to

Description
List the projects a Python Script belongs to

Usage
scripts_list_python3_projects(id, hidden = NULL)

Arguments
id integer required. The ID of the Python Script.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value
An array containing the following fields:
id integer, The ID for this project.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user's name.
  • username string, This user's username.
  • initials string, This user's initials.
  • online boolean, Whether this user is online.
name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user's name.
  • username string, This user's username.
  • initials string, This user's initials.
  • online boolean, Whether this user is online.
autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).
scripts_list_python3_runs

List runs for the given python

Description
List runs for the given python

Usage

scripts_list_python3_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments
id
    integer required. The ID of the python.
limit
    integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
page_num
    integer optional. Page number of the results to return. Defaults to the first page, 1.
order
    string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir
    string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value
An array containing the following fields:

id
    integer, The ID of the run.
pythonId
    integer, The ID of the python.
state
    string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested
    boolean, True if run cancel requested, else false.
startedAt
    string, The time the last run started at.
finishedAt
    string, The time the last run completed.
error
    string, The error, if any, returned by the run.
**scripts_list_python3_runs_logs**

*Get the logs for a run*

**Description**

Get the logs for a run

**Usage**

```python
scripts_list_python3_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

- **id** integer required. The ID of the python.
- **run_id** integer required. The ID of the run.
- **last_id** integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit** integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

- **id** integer, The ID of the log.
- **createdAt** string, The time the log was created.
- **message** string, The log message.
- **level** string, The level of the log. One of unknown, fatal, error, warn, info, debug.

---

**scripts_list_python3_runs_outputs**

*List the outputs for a run*

**Description**

List the outputs for a run
Usage

```python
scripts_list_python3_runs_outputs(
    id,
    run_id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **id**: integer required. The ID of the python script.
- **run_id**: integer required. The ID of the run.
- **limit**: integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **objectType**: string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId**: integer, The ID of the output.
- **name**: string, The name of the output.
- **link**: string, The hypermedia link to the output.
- **value**: string,

---

**scripts_list_python3_shares**

*List users and groups permissioned on this object*

Description

List users and groups permissioned on this object

Usage

```python
scripts_list_python3_shares(id)
```
scripts_list_r_git 649

Arguments

id  integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers  list, A list containing the following elements:
  • users array,
  • groups array,

writers  list, A list containing the following elements:
  • users array,
  • groups array,

owners  list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts_list_r_git  Get the git metadata attached to an item

Description

Get the git metadata attached to an item

Usage

scripts_list_r_git(id)

Arguments

id  integer required. The ID of the file.
Value

A list containing the following elements:

- **gitRef** (string): A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** (string): The git branch that the file is on.
- **gitPath** (string): The path of the file in the repository.
- **gitRepo** (list): A list containing the following elements:
  - **id** (integer): The ID for this git repository.
  - **repoUrl** (string): The URL for this git repository.
  - **createdAt** (string).
  - **updatedAt** (string).
- **pullFromGit** (boolean): Automatically pull latest commit from git. Only works for scripts.

---

**scripts_list_r_git_commits**

*Get the git commits for an item*

Description

Get the git commits for an item

Usage

```
scripts_list_r_git_commits(id)
```

Arguments

- **id** (integer required): The ID of the file.

Value

A list containing the following elements:

- **commitHash** (string): The SHA of the commit.
- **authorName** (string): The name of the commit’s author.
- **date** (string): The commit’s timestamp.
- **message** (string): The commit message.
Description
List the projects an R Script belongs to

Usage
scripts_list_r_projects(id, hidden = NULL)

Arguments
id
integer required. The ID of the R Script.

hidden
boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value
An array containing the following fields:

id
integer, The ID for this project.

author
list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

name
string, The name of this project.

description
string, A description of the project.

users
array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

autoShare
boolean,

createdAt
string,

updatedAt
string,

archived
string, The archival status of the requested item(s).
scripts_list_r_runs  

List runs for the given r

Description

List runs for the given r

Usage

```r
scripts_list_r_runs(
  id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- **id**: integer required. The ID of the r.
- **limit**: integer optional. Number of results to return. Defaults to 20. Maximum allowed is 100.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id**: integer, The ID of the run.
- **rId**: integer, The ID of the r.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.
scripts_list_r_runs_logs

*Get the logs for a run*

**Description**

Get the logs for a run

**Usage**

```
scripts_list_r_runs_logs(id, run_id, last_id = NULL, limit = NULL)
```

**Arguments**

- **id** integer required. The ID of the r.
- **run_id** integer required. The ID of the run.
- **last_id** integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- **limit** integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

- **id** integer, The ID of the log.
- **createdAt** string, The time the log was created.
- **message** string, The log message.
- **level** string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

scripts_list_r_runs_outputs

*List the outputs for a run*

**Description**

List the outputs for a run
Usage

```r
scripts_list_r_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- `id` integer required. The ID of the r script.
- `run_id` integer required. The ID of the run.
- `limit` integer optional. Number of results to return. Defaults to its maximum of 50.
- `page_num` integer optional. Page number of the results to return. Defaults to the first page, 1.
- `order` string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- `order_dir` string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- `objectType` string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- `objectId` integer, The ID of the output.
- `name` string, The name of the output.
- `link` string, The hypermedia link to the output.
- `value` string,

Description

List users and groups permissioned on this object

Usage

```r
scripts_list_r_shares(id)
```
**scripts_list_sql_git**

**Arguments**

`id` integer required. The ID of the resource that is shared.

**Value**

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**scripts_list_sql_git**  Get the git metadata attached to an item

**Description**

Get the git metadata attached to an item

**Usage**

`scripts_list_sql_git(id)`

**Arguments**

`id` integer required. The ID of the file.
Value

A list containing the following elements:

- `gitRef` string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- `gitBranch` string, The git branch that the file is on.
- `gitPath` string, The path of the file in the repository.
- `gitRepo` list, A list containing the following elements:
  - `id` integer, The ID for this git repository.
  - `repoUrl` string, The URL for this git repository.
  - `createdAt` string,
  - `updatedAt` string,
- `pullFromGit` boolean, Automatically pull latest commit from git. Only works for scripts.

---

`samples_list_sql_git_commits`

*Get the git commits for an item*

---

Description

Get the git commits for an item

Usage

`samples_list_sql_git_commits(id)`

Arguments

- `id` integer required. The ID of the file.

Value

A list containing the following elements:

- `commitHash` string, The SHA of the commit.
- `authorName` string, The name of the commit’s author.
- `date` string, The commit’s timestamp.
- `message` string, The commit message.
scripts_list_sql_projects

*List the projects a SQL script belongs to*

**Description**

List the projects a SQL script belongs to

**Usage**

`scripts_list_sql_projects(id, hidden = NULL)`

**Arguments**

- **id**
  
  integer required. The ID of the SQL script.

- **hidden**
  
  boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

- **id**
  
  integer, The ID for this project.

- **author**
  
  list, A list containing the following elements:
  
  - **id**
    
    integer, The ID of this user.
  
  - **name**
    
    string, This user’s name.
  
  - **username**
    
    string, This user’s username.
  
  - **initials**
    
    string, This user’s initials.
  
  - **online**
    
    boolean, Whether this user is online.

- **name**
  
  string, The name of this project.

- **description**
  
  string, A description of the project.

- **users**
  
  array, An array containing the following fields:
  
  - **id**
    
    integer, The ID of this user.
  
  - **name**
    
    string, This user’s name.
  
  - **username**
    
    string, This user’s username.
  
  - **initials**
    
    string, This user’s initials.
  
  - **online**
    
    boolean, Whether this user is online.

- **autoShare**
  
  boolean,

- **createdAt**
  
  string,

- **updatedAt**
  
  string,

- **archived**
  
  string, The archival status of the requested item(s).
scripts_list_sql_runs  List runs for the given sql

Description
List runs for the given sql

Usage

scripts_list_sql_runs(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

id integer required. The ID of the sql.
limit integer optional. Number of results to return. Defaults to 20. Maximum allowed
    is 100.
page_num integer optional. Page number of the results to return. Defaults to the first page, 1.
order string optional. The field on which to order the result set. Defaults to id. Must
    be one of: id.
order_dir string optional. Direction in which to sort, either asc (ascending) or desc (de-
    scending) defaulting to desc.

Value
An array containing the following fields:

id integer, The ID of this run.
sqlId integer, The ID of this sql.
state string, The state of this run.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started.
finishedAt string, The time that this run finished.
error string, The error message for this run, if present.
output array, An array containing the following fields:

  • outputName string, The name of the output file.
  • fileId integer, The unique ID of the output file.
  • path string, The temporary link to download this output file, valid for 36
    hours.
scripts_list_sql_runs_logs

*Get the logs for a run*

**Description**

Get the logs for a run

**Usage**

`scripts_list_sql_runs_logs(id, run_id, last_id = NULL, limit = NULL)`

**Arguments**

- `id` : integer required. The ID of the sql.
- `run_id` : integer required. The ID of the run.
- `last_id` : integer optional. The ID of the last log message received. Log entries with this ID value or lower will be omitted. Logs are sorted by ID if this value is provided, and are otherwise sorted by createdAt.
- `limit` : integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

- `id` : integer, The ID of the log.
- `createdAt` : string, The time the log was created.
- `level` : string, The level of the log. One of unknown,fatal,error,warn,info,debug.

---

scripts_list_sql_runs_outputs

*List the outputs for a run*

**Description**

List the outputs for a run
Usage

```r
scripts_list_sql_runs_outputs(
  id,
  run_id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
```

Arguments

- **id**: integer required. The ID of the sql script.
- **run_id**: integer required. The ID of the run.
- **limit**: integer optional. Number of results to return. Defaults to its maximum of 50.
- **page_num**: integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order**: string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, id.
- **order_dir**: string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **objectType**: string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId**: integer, The ID of the output.
- **name**: string, The name of the output.
- **link**: string, The hypermedia link to the output.
- **value**: string,

---

**scripts_list_sql_shares**

List users and groups permissioned on this object

---

Description

List users and groups permissioned on this object

Usage

```r
scripts_list_sql_shares(id)
```
arguments

id
.integer required. The ID of the resource that is shared.

value

An array containing the following fields:

readers list, A list containing the following elements:
* users array,
* groups array,

writers list, A list containing the following elements:
* users array,
* groups array,

owners list, A list containing the following elements:
* users array,
* groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

scripts_list_types

List available script types

description

List available script types

usage

scripts_list_types()

value

An array containing the following fields:

name string, The name of the type.
Update a script

`sheets_patch

Description
Update a script

Usage
`sheets_patch(
    id,
    name = NULL,
    sql = NULL,
    params = NULL,
    arguments = NULL,
    template_script_id = NULL,
    schedule = NULL,
    notifications = NULL,
    parent_id = NULL
)

Arguments
id integer required. The ID for the script.
name string optional. The name of the script.
sql string optional. The raw SQL query for the script.
params array optional. An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ‘import’
arguments list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

template_script_id integer optional. The ID of the template script, if any. A script cannot both have a template script and be a template for other scripts.

schedule list optional. A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

parent_id integer optional. The ID of the parent job that will trigger this script

Value

A list containing the following elements:

- id integer, The ID for the script.
- name string, The name of the script.
- type string, The type of script.
- createdAt string, The time this script was created.
- updatedAt string, The time this script was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user's name.
scripts_patch

- **username** string, This user's username.
- **initials** string, This user's initials.
- **online** boolean, Whether this user is online.

**state** string, The status of the script's last run.

**finishedAt** string, The time that the script's last run finished.

**category** string, The category of the script.

**projects** array, An array containing the following fields:
  - **id** integer, The ID for the project.
  - **name** string, The name of the project.

**parentId** integer, The ID of the parent job that will trigger this script

**userContext** string, "runner" or "author", who to execute the script as when run as a template.

**params** array, An array containing the following fields:
  - **name** string, The variable's name as used within your code.
  - **label** string, The label to present to users when asking them for the value.
  - **description** string, A short sentence or fragment describing this parameter to the end user.
  - **type** string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required** boolean, Whether this param is required.
  - **value** string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

**arguments** list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

**isTemplate** boolean, Whether others scripts use this one as a template.

**publishedAsTemplateId** integer, The ID of the template that this script is backing.

**fromTemplateId** integer, The ID of the template this script uses, if any.

**templateDependentsCount** integer, How many other scripts use this one as a template.

**templateScriptName** string, The name of the template script.

**links** list, A list containing the following elements:
  - **details** string, The details link to get more information about the script.
  - **runs** string, The runs link to get the run information list for this script.
scripts_patch

**schedule** list, A list containing the following elements:
- `scheduled` boolean, If the item is scheduled.
- `scheduledDays` array, Day based on numeric value starting at 0 for Sunday.
- `scheduledHours` array, Hours of the day it is scheduled on.
- `scheduledMinutes` array, Minutes of the day it is scheduled on.
- `scheduledRunsPerHour` integer, Alternative to scheduled minutes, number of times to run per hour.

**notifications** list, A list containing the following elements:
- `urls` array, URLs to receive a POST request at job completion
- `successEmailSubject` string, Custom subject line for success e-mail.
- `successEmailBody` string, Custom body text for success e-mail, written in Markdown.
- `successEmailAddresses` array, Addresses to notify by e-mail when the job completes successfully.
- `successEmailFromName` string, Name from which success emails are sent; defaults to "Civis."
- `successEmailReplyTo` string, Address for replies to success emails; defaults to the author of the job.
- `failureEmailAddresses` array, Addresses to notify by e-mail when the job fails.
- `stallWarningMinutes` integer, Stall warning emails will be sent after this amount of minutes.
- `successOn` boolean, If success email notifications are on.
- `failureOn` boolean, If failure email notifications are on.

**runningAs** list, A list containing the following elements:
- `id` integer, The ID of this user.
- `name` string, This user’s name.
- `username` string, This user’s username.
- `initials` string, This user’s initials.
- `online` boolean, Whether this user is online.

**nextRunAt** string, The time of the next scheduled run.

**timeZone** string, The time zone of this script.

**lastRun** list, A list containing the following elements:
- `id` integer,
- `state` string,
- `createdAt` string, The time that the run was queued.
- `startedAt` string, The time that the run started.
- `finishedAt` string, The time that the run completed.
- `error` string, The error message for this run, if present.

**hidden** boolean, The hidden status of the item.

**targetProjectId** integer, Target project to which script outputs will be added.
scripts_patch_containers

Update a container

Description

Update a container

Usage

scripts_patch_containers(
  id,
  name = NULL,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  required_resources = NULL,
  repo_http_uri = NULL,
  repo_ref = NULL,
  remote_host_credential_id = NULL,
  git_credential_id = NULL,
  docker_command = NULL,
  docker_image_name = NULL,
  docker_image_tag = NULL,
  instance_type = NULL,
  cancel_timeout = NULL,
  time_zone = NULL,
  target_project_id = NULL
)

Arguments

id integer required. The ID for the script.
name string optional. The name of the container.
parent_id integer optional. The ID of the parent job that will trigger this script
user_context string optional. "runner" or "author", who to execute the script as when run as a template.

params array optional. An array containing the following fields:
- name string. The variable’s name as used within your code.
- label string. The label to present to users when asking them for the value.
- description string. A short sentence or fragment describing this parameter to the end user.
- type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean. Whether this param is required.
- value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import’

arguments list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule list optional. A list containing the following elements:
- scheduled boolean. If the item is scheduled.
- scheduledDays array. Day based on numeric value starting at 0 for Sunday.
- scheduledHours array. Hours of the day it is scheduled on.
- scheduledMinutes array. Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer. Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
- urls array. URLs to receive a POST request at job completion
- successEmailSubject string. Custom subject line for success e-mail.
- successEmailBody string. Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array. Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string. Name from which success emails are sent; defaults to "Civis.”
- successEmailReplyTo string. Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array. Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer. Stall warning emails will be sent after this amount of minutes.
• successOn boolean. If success email notifications are on.
• failureOn boolean. If failure email notifications are on.

**required_resources**

list optional. A list containing the following elements:

• cpu integer. The number of CPU shares to allocate for the container. Each core has 1000 shares.
• memory integer. The amount of RAM to allocate for the container (in MB).
• diskSpace number. The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.
• wholeInstance boolean. Whether or not to use the entire instance. If true, cpu, memory, and disk space are not required and will be set to an instance’s max.

**repo_http_uri**

string optional. The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

**repo_ref**

string optional. The tag or branch of the github repo to clone into the container.

**remote_host_credential_id**

integer optional. The id of the database credentials to pass into the environment of the container.

**git_credential_id**

integer optional. The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

**docker_command**

string optional. The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image’s ENTRY-POINT/CMD.

**docker_image_name**

string optional. The name of the docker image to pull from DockerHub.

**docker_image_tag**

string optional. The tag of the docker image to pull from DockerHub.

**instance_type**

string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

**cancel_timeout**

integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

**time_zone**

string optional. The time zone of this script.

**target_project_id**

integer optional. Target project to which script outputs will be added.

**Value**

A list containing the following elements:

**id**

integer, The ID for the script.
<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>name</td>
<td>string, The name of the container.</td>
</tr>
<tr>
<td>type</td>
<td>string, The type of the script (e.g Container)</td>
</tr>
<tr>
<td>createdAt</td>
<td>string, The time this script was created.</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string, The time the script was last updated.</td>
</tr>
<tr>
<td>author</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>state</td>
<td>string, The status of the script's last run.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string, The time that the script’s last run finished.</td>
</tr>
<tr>
<td>category</td>
<td>string, The category of the script.</td>
</tr>
<tr>
<td>projects</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID for the project.</td>
</tr>
<tr>
<td></td>
<td>• name string, The name of the project.</td>
</tr>
<tr>
<td>parentId</td>
<td>integer, The ID of the parent job that will trigger this script</td>
</tr>
<tr>
<td>userContext</td>
<td>string, &quot;runner&quot; or &quot;author&quot;, who to execute the script as when run as a template.</td>
</tr>
<tr>
<td>params</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• name string, The variable’s name as used within your code.</td>
</tr>
<tr>
<td></td>
<td>• label string, The label to present to users when asking them for the value.</td>
</tr>
<tr>
<td></td>
<td>• description string, A short sentence or fragment describing this parameter to the end user.</td>
</tr>
<tr>
<td></td>
<td>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</td>
</tr>
<tr>
<td></td>
<td>• required boolean, Whether this param is required.</td>
</tr>
<tr>
<td></td>
<td>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</td>
</tr>
<tr>
<td></td>
<td>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.</td>
</tr>
<tr>
<td></td>
<td>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’‘</td>
</tr>
<tr>
<td>arguments</td>
<td>list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.</td>
</tr>
<tr>
<td>isTemplate</td>
<td>boolean, Whether others scripts use this one as a template.</td>
</tr>
<tr>
<td>templateDependentsCount</td>
<td>integer, How many other scripts use this one as a template.</td>
</tr>
</tbody>
</table>
publishedAsTemplateId
templateScriptName
fromTemplateId

integer, The ID of the template that this script is backing.
string, The name of the template script.
integer, The ID of the template script.

links

list, A list containing the following elements:

- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule

list, A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications

list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs

list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

requiredResources

list, A list containing the following elements:

- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
• memory integer, The amount of RAM to allocate for the container (in MB).
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

repoHttpUri string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

repoRef string, The tag or branch of the github repo to clone into the container.

remoteHostCredentialId integer, The id of the database credentials to pass into the environment of the container.

gitCredentialId integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

dockerCommand string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image’s ENTRYPOINT/CMD.

dockerImageName string, The name of the docker image to pull from DockerHub.

dockerImageTag string, The tag of the docker image to pull from DockerHub.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

timeZone string, The time zone of this script.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.
scripts_patch_custom  Update some attributes of this Custom Script

Description
Update some attributes of this Custom Script

Usage

scripts_patch_custom(
    id,
    name = NULL,
    parent_id = NULL,
    arguments = NULL,
    remote_host_id = NULL,
    credential_id = NULL,
    schedule = NULL,
    notifications = NULL,
    time_zone = NULL,
    target_project_id = NULL
)

Arguments

id  integer required. The ID for the script.
name  string optional. The name of the script.
parent_id  integer optional. The ID of the parent job that will trigger this script
arguments  list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
remote_host_id  integer optional. The remote host ID that this script will connect to.
credential_id  integer optional. The credential that this script will use.
schedule  list optional. A list containing the following elements:
    • scheduled boolean, If the item is scheduled.
    • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
    • scheduledHours array, Hours of the day it is scheduled on.
    • scheduledMinutes array, Minutes of the day it is scheduled on.
    • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
notifications  list optional. A list containing the following elements:
    • urls array, URLs to receive a POST request at job completion
    • successEmailSubject string, Custom subject line for success e-mail.
    • successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

**time_zone**
string optional. The time zone of this script.

**target_project_id**
integer optional. Target project to which script outputs will be added.

**Value**
A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID for the script.</td>
</tr>
<tr>
<td>name</td>
<td>string</td>
<td>The name of the script.</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td>The type of the script (e.g Custom)</td>
</tr>
<tr>
<td>createdAt</td>
<td>string</td>
<td>The time this script was created.</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string</td>
<td>The time the script was last updated.</td>
</tr>
<tr>
<td>author</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>The status of the script’s last run.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string</td>
<td>The time that the script’s last run finished.</td>
</tr>
<tr>
<td>category</td>
<td>string</td>
<td></td>
</tr>
<tr>
<td>projects</td>
<td>array</td>
<td>An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• id integer, The ID for the project.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• name string, The name of the project.</td>
</tr>
<tr>
<td>parentId</td>
<td>integer</td>
<td>The ID of the parent job that will trigger this script</td>
</tr>
<tr>
<td>params</td>
<td>array</td>
<td>An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• name string, The variable’s name as used within your code.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• label string, The label to present to users when asking them for the value.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>• description string, A short sentence or fragment describing this parameter to the end user.</td>
</tr>
</tbody>
</table>
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’‘

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template script.
uiReportUrl integer, The url of the custom HTML.
uiReportId integer, The id of the report with the custom HTML.
uiReportProvideAPIKey boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName string, The name of the template script.
templateNote string, The template’s note.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
codePreview string, The code that this script will run with arguments inserted.
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.

lastSuccessfulRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.
scripts_patch_javascript

Update some attributes of this JavaScript Script

Description

Update some attributes of this JavaScript Script

Usage

```javascript
scripts_patch_javascript(
    id,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL,
    source = NULL,
    remote_host_id = NULL,
    credential_id = NULL
)
```

Arguments

- **id** integer required. The ID for the script.
- **name** string optional. The name of the script.
- **parent_id** integer optional. The ID of the parent job that will trigger this script
- **user_context** string optional. "runner" or "author", who to execute the script as when run as a template.
- **params** array optional. An array containing the following fields:
  - **name** string. The variable’s name as used within your code.
  - **label** string. The label to present to users when asking them for the value.
  - **description** string. A short sentence or fragment describing this parameter to the end user.
  - **type** string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required** boolean, Whether this param is required.
  - **value** string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
### arguments
- **list optional.** Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

### schedule
- **list optional.** A list containing the following elements:
  - **scheduled boolean.** If the item is scheduled.
  - **scheduledDays array.** Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours array.** Hours of the day it is scheduled on.
  - **scheduledMinutes array.** Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour integer.** Alternative to scheduled minutes, number of times to run per hour.

### notifications
- **list optional.** A list containing the following elements:
  - **urls array.** URLs to receive a POST request at job completion
  - **successEmailSubject string.** Custom subject line for success e-mail.
  - **successEmailBody string.** Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses array.** Addresses to notify by e-mail when the job completes successfully.
  - **successEmailFromName string.** Name from which success emails are sent; defaults to "Civis."
  - **successEmailReplyTo string.** Address for replies to success emails; defaults to the author of the job.
  - **failureEmailAddresses array.** Addresses to notify by e-mail when the job fails.
  - **stallWarningMinutes integer.** Stall warning emails will be sent after this amount of minutes.
  - **successOn boolean.** If success email notifications are on.
  - **failureOn boolean.** If failure email notifications are on.

### next_run_at
- **string optional.** The time of the next scheduled run.

### time_zone
- **string optional.** The time zone of this script.

### target_project_id
- **integer optional.** Target project to which script outputs will be added.

### source
- **string optional.** The body/text of the script.

### remote_host_id
- **integer optional.** The remote host ID that this script will connect to.

### credential_id
- **integer optional.** The credential that this script will use.
**Value**

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID for the script.</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of the script.</td>
</tr>
<tr>
<td>type</td>
<td>string, The type of the script (e.g SQL, Container, Python, R, JavaScript)</td>
</tr>
<tr>
<td>createdAt</td>
<td>string, The time this script was created.</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string, The time the script was last updated.</td>
</tr>
<tr>
<td>author</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>state</td>
<td>string, The status of the script’s last run.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string, The time that the script’s last run finished.</td>
</tr>
<tr>
<td>category</td>
<td>string, The category of the script.</td>
</tr>
<tr>
<td>projects</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID for the project.</td>
</tr>
<tr>
<td></td>
<td>• name string, The name of the project.</td>
</tr>
<tr>
<td>parentId</td>
<td>integer, The ID of the parent job that will trigger this script</td>
</tr>
<tr>
<td>userContext</td>
<td>string, &quot;runner&quot; or &quot;author&quot;, who to execute the script as when run as a template.</td>
</tr>
<tr>
<td>params</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• name string, The variable’s name as used within your code.</td>
</tr>
<tr>
<td></td>
<td>• label string, The label to present to users when asking them for the value.</td>
</tr>
<tr>
<td></td>
<td>• description string, A short sentence or fragment describing this parameter to the end user.</td>
</tr>
<tr>
<td></td>
<td>• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</td>
</tr>
<tr>
<td></td>
<td>• required boolean, Whether this param is required.</td>
</tr>
<tr>
<td></td>
<td>• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.</td>
</tr>
<tr>
<td></td>
<td>• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.</td>
</tr>
<tr>
<td></td>
<td>• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ’import‘</td>
</tr>
<tr>
<td>arguments</td>
<td>list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.</td>
</tr>
</tbody>
</table>
isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

source string, The body/text of the script.

remoteHostId integer, The remote host ID that this script will connect to.

credentialId integer, The credential that this script will use.

---

**scripts_patch_python3**  
*Update some attributes of this Python Script*

### Description

Update some attributes of this Python Script

### Usage

```python
scripts_patch_python3(
    id,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL,
    required_resources = NULL,
    instance_type = NULL,
    source = NULL,
    cancel_timeout = NULL,
    docker_image_tag = NULL
)
```
**Arguments**

- **id** integer required. The ID for the script.
- **name** string optional. The name of the script.
- **parent_id** integer optional. The ID of the parent job that will trigger this script
- **user_context** string optional. "runner" or "author", who to execute the script as when run as a template.
- **params** array optional. An array containing the following fields:
  - name string. The variable’s name as used within your code.
  - label string. The label to present to users when asking them for the value.
  - description string. A short sentence or fragment describing this parameter to the end user.
  - type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean. Whether this param is required.
  - value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''
- **arguments** list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
- **schedule** list optional. A list containing the following elements:
  - scheduled boolean. If the item is scheduled.
  - scheduledDays array. Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array. Hours of the day it is scheduled on.
  - scheduledMinutes array. Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer. Alternative to scheduled minutes, number of times to run per hour.
- **notifications** list optional. A list containing the following elements:
  - urls array. URLs to receive a POST request at job completion
  - successEmailSubject string. Custom subject line for success e-mail.
  - successEmailBody string. Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array. Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string. Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.
time_zone string optional. The time zone of this script.
target_project_id integer optional. Target project to which script outputs will be added.
required_resources list optional. A list containing the following elements:
  • cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
  • memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
  • diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source string optional. The body/text of the script.
cancel_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
docker_image_tag string optional. The tag of the docker image to pull from DockerHub.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user's name.
scripts_patch_python3

- username string. This user’s username.
- initials string. This user’s initials.
- online boolean. Whether this user is online.

state string. The status of the script’s last run.

finishedAt string. The time that the script’s last run finished.

category string. The category of the script.

projects array. An array containing the following fields:
- id integer. The ID for the project.
- name string. The name of the project.

parentId integer. The ID of the parent job that will trigger this script

userContext string. “runner” or “author”, who to execute the script as when run as a template.

params array. An array containing the following fields:
- name string. The variable’s name as used within your code.
- label string. The label to present to users when asking them for the value.
- description string. A short sentence or fragment describing this parameter to the end user.
- type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean. Whether this param is required.
- value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label’: ‘Import’, ‘value’: ‘import’

arguments list. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean. Whether others scripts use this one as a template.

publishedAsTemplateId integer. The ID of the template that this script is backing.

fromTemplateId integer. The ID of the template this script uses, if any.

templateDependentsCount integer. How many other scripts use this one as a template.

templateScriptName string. The name of the template script.

links list. A list containing the following elements:
- details string. The details link to get more information about the script.
- runs string. The runs link to get the run information list for this script.
scripts_patch_python3

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.
scripts_patch_r

archived string, The archival status of the requested item(s).
requiredResources
  list, A list containing the following elements:
    • cpu integer, The number of CPU shares to allocate for the container. Each
core has 1000 shares. Must be at least 2 shares.
    • memory integer, The amount of RAM to allocate for the container (in MB).
      Must be at least 4 MB.
    • diskSpace number, The amount of disk space, in GB, to allocate for the
      container. This space will be used to hold the git repo configured for the
      container and anything your container writes to /tmp or /data. Fractional
      values (e.g. 0.25) are supported.
instanceType string, The EC2 instance type to deploy to. Only available for jobs running on
kubernetes.
source string, The body/text of the script.
cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the
  script. When the script is cancelled, it is first sent a TERM signal. If the script
  is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag string, The tag of the docker image to pull from DockerHub.

Description
Update some attributes of this R Script

Usage

scripts_patch_r(
  id,
  name = NULL,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  target_project_id = NULL,
  required_resources = NULL,
  instance_type = NULL,
  source = NULL,
  cancel_timeout = NULL,
  docker_image_tag = NULL
)
Arguments

id
integer required. The ID for the script.

name
string optional. The name of the script.

parent_id
integer optional. The ID of the parent job that will trigger this script

user_context
string optional. "runner" or "author", who to execute the script as when run as a template.

params
array optional. An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''

arguments
list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule
list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications
list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.
time_zone string optional. The time zone of this script.
target_project_id integer optional. Target project to which script outputs will be added.

required_resources list optional. A list containing the following elements:
  - cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
  - memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
  - diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
source string optional. The body/text of the script.
cancel_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
docker_image_tag string optional. The tag of the docker image to pull from DockerHub.

Value

A list containing the following elements:

- id integer, The ID for the script.
- name string, The name of the script.
- type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- createdAt string, The time this script was created.
- updatedAt string, The time the script was last updated.

author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user's name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

**state** string, The status of the script's last run.

**finishedAt** string, The time that the script's last run finished.

**category** string, The category of the script.

**projects** array, An array containing the following fields:
- id integer, The ID for the project.
- name string, The name of the project.

**parentId** integer, The ID of the parent job that will trigger this script

**userContext** string, "runner" or "author", who to execute the script as when run as a template.

**params** array, An array containing the following fields:
- name string, The variable's name as used within your code.
- label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

**arguments** list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

**isTemplate** boolean, Whether others scripts use this one as a template.

**publishedAsTemplateId** integer, The ID of the template that this script is backing.

**fromTemplateId** integer, The ID of the template this script uses, if any.

**templateDependentsCount** integer, How many other scripts use this one as a template.

**templateScriptName** string, The name of the template script.

**links** list, A list containing the following elements:
- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.
scripts_patch_r

- **schedule** list, A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

- **notifications** list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
  - failureOn boolean, If failure email notifications are on.

- **runningAs** list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user's initials.
  - online boolean, Whether this user is online.

- **nextRunAt** string, The time of the next scheduled run.

- **timeZone** string, The time zone of this script.

- **lastRun** list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.

- **hidden** boolean, The hidden status of the item.

- **targetProjectId** integer, Target project to which script outputs will be added.
archived    string, The archival status of the requested item(s).
requiredResources
    list, A list containing the following elements:
        • cpu integer, The number of CPU shares to allocate for the container. Each
          core has 1000 shares. Must be at least 2 shares.
        • memory integer, The amount of RAM to allocate for the container (in MB).
          Must be at least 4 MB.
        • diskSpace number, The amount of disk space, in GB, to allocate for the
          container. This space will be used to hold the git repo configured for the
          container and anything your container writes to /tmp or /data. Fractional
          values (e.g. 0.25) are supported.
instanceType    string, The EC2 instance type to deploy to. Only available for jobs running on
                 kubernetes.
source    string, The body/text of the script.
cancelTimeout    integer, The amount of time (in seconds) to wait before forcibly terminating the
                 script. When the script is cancelled, it is first sent a TERM signal. If the script
                 is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag    string, The tag of the docker image to pull from DockerHub.

---

scripts_patch_sql  Update some attributes of this SQL script

**Description**

Update some attributes of this SQL script

**Usage**

```python
scripts_patch_sql(
    id,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL,
    sql = NULL,
    remote_host_id = NULL,
    credential_id = NULL,
    csv_settings = NULL
)```

Arguments

id          integer required. The ID for the script.
name        string optional. The name of the script.
parent_id   integer optional. The ID of the parent job that will trigger this script.
user_context string optional. "runner" or "author", who to execute the script as when run as a template.

params      array optional. An array containing the following fields:
• name string. The variable’s name as used within your code.
• label string. The label to present to users when asking them for the value.
• description string. A short sentence or fragment describing this parameter to the end user.
• type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom.
• required boolean. Whether this param is required.
• value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''

arguments    list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule     list optional. A list containing the following elements:
• scheduled boolean. If the item is scheduled.
• scheduledDays array. Day based on numeric value starting at 0 for Sunday.
• scheduledHours array. Hours of the day it is scheduled on.
• scheduledMinutes array. Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer. Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
• urls array. URLs to receive a POST request at job completion
• successEmailSubject string. Custom subject line for success e-mail.
• successEmailBody string. Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array. Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string. Name from which success emails are sent; defaults to "Civis."
- `successEmailReplyTo` string, Address for replies to success emails; defaults to the author of the job.
- `failureEmailAddresses` array, Addresses to notify by e-mail when the job fails.
- `stallWarningMinutes` integer, Stall warning emails will be sent after this amount of minutes.
- `successOn` boolean, If success email notifications are on.
- `failureOn` boolean, If failure email notifications are on.

`next_run_at` string optional. The time of the next scheduled run.

`time_zone` string optional. The time zone of this script.

`target_project_id` integer optional. Target project to which script outputs will be added.

`sql` string optional. The raw SQL query for the script.

`remote_host_id` integer optional. The remote host ID that this script will connect to.

`credential_id` integer optional. The credential that this script will use.

`csv_settings` list optional. A list containing the following elements:
- `includeHeader` boolean, Whether or not to include headers in the output data. Default: true
- `compression` string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
- `columnDelimiter` string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
- `unquoted` boolean, Whether or not to quote fields. Default: false
- `forceMultifile` boolean, Whether or not the csv should be split into multiple files. Default: false
- `filenamePrefix` string, A user specified filename prefix for the output file to have. Default: null
- `maxFileSize` integer, The max file size, in MB, created files will be. Only available when `force_multifile` is true.

Value

A list containing the following elements:

- `id` integer, The ID for the script.
- `name` string, The name of the script.
- `type` string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- `createdAt` string, The time this script was created.
- `updatedAt` string, The time the script was last updated.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user's name.
  - `username` string, This user's username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
• id integer, The ID for the project.
• name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
• name string, The variable’s name as used within your code.
• label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’
arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.
links list, A list containing the following elements:
• details string, The details link to get more information about the script.
• runs string, The runs link to get the run information list for this script.
schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number
  of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in
    Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job
    completes successfully.
  • successEmailFromName string, Name from which success emails are sent;
    defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; default
    to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job
    fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this
    amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
Create a script

**Description**

Create a script

**Usage**

```python
scripts_post(
    name,
    remote_host_id,
    credential_id,
    sql,
    params = NULL,
    arguments = NULL,
    template_script_id = NULL,
    notifications = NULL,
    hidden = NULL
)
```
**Arguments**

- **name** string required. The name of the script.
- **remote_host_id** integer required. The database ID.
- **credential_id** integer required. The credential ID.
- **sql** string required. The raw SQL query for the script.
- **params** array optional. An array containing the following fields:
  - **name** string, The variable’s name as used within your code.
  - **label** string, The label to present to users when asking them for the value.
  - **description** string, A short sentence or fragment describing this parameter to the end user.
  - **type** string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required** boolean, Whether this param is required.
  - **value** string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: `label: 'Import', 'value': 'import'`
- **arguments** list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
- **template_script_id** integer optional. The ID of the template script, if any. A script cannot both have a template script and be a template for other scripts.
- **notifications** list optional. A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion
  - **successEmailSubject** string, Custom subject line for success e-mail.
  - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
  - **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis."
  - **successEmailReplyTo** string, Address for replies to success emails; defaults to the author of the job.
  - **failureEmailAddresses** array, Addresses to notify by e-mail when the job fails.
  - **stallWarningMinutes** integer, Stall warning emails will be sent after this amount of minutes.
scripts_post

- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

hidden

boolean optional. The hidden status of the item.

Value

A list containing the following elements:

- id integer, The ID for the script.
- name string, The name of the script.
- type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- createdAt string, The time this script was created.
- updatedAt string, The time the script was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state string, The status of the script’s last run.
- finishedAt string, The time that the script’s last run finished.
- category string, The category of the script.
- projects array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- parentId integer, The ID of the parent job that will trigger this script
- userContext string, "runner" or "author", who to execute the script as when run as a template.
- params array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
  - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- `allowedValues` array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: `{label: 'Import', value: 'import'}`

`arguments` list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

`isTemplate` boolean, Whether others scripts use this one as a template.

`publishedAsTemplateId` integer, The ID of the template that this script is backing.

`fromTemplateId` integer, The ID of the template this script uses, if any.

`templateDependentsCount` integer, How many other scripts use this one as a template.

`templateScriptName` string, The name of the template script.

`links` list, A list containing the following elements:

- `details` string, The details link to get more information about the script.
- `runs` string, The runs link to get the run information list for this script.

`schedule` list, A list containing the following elements:

- `scheduled` boolean, If the item is scheduled.
- `scheduledDays` array, Day based on numeric value starting at 0 for Sunday.
- `scheduledHours` array, Hours of the day it is scheduled on.
- `scheduledMinutes` array, Minutes of the day it is scheduled on.
- `scheduledRunsPerHour` integer, Alternative to scheduled minutes, number of times to run per hour.

`notifications` list, A list containing the following elements:

- `urls` array, URLs to receive a POST request at job completion
- `successEmailSubject` string, Custom subject line for success e-mail.
- `successEmailBody` string, Custom body text for success e-mail, written in Markdown.
- `successEmailAddresses` array, Addresses to notify by e-mail when the job completes successfully.
- `successEmailFromName` string, Name from which success emails are sent; defaults to "Civis."
- `successEmailReplyTo` string, Address for replies to success emails; defaults to the author of the job.
- `failureEmailAddresses` array, Addresses to notify by e-mail when the job fails.
- `stallWarningMinutes` integer, Stall warning emails will be sent after this amount of minutes.
- `successOn` boolean, If success email notifications are on.
- `failureOn` boolean, If failure email notifications are on.

`runningAs` list, A list containing the following elements:

- `id` integer, The ID of this user.
scripts_post_cancel

- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
templateScriptId integer, The ID of the template script, if any.

---

scripts_post_cancel Cancel a run

Description
Cancel a run

Usage
scripts_post_cancel(id)

Arguments
id integer required. The ID of the job.

Value
A list containing the following elements:

id integer, The ID of the run.
state string, The state of the run, one of 'queued', 'running' or 'cancelled'.
isCancelRequested boolean, True if run cancel requested, else false.
scripts_post_containers

Create a container

Description

Create a container

Usage

```r
scripts_post_containers(
  required_resources,
  docker_image_name,
  name = NULL,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  repo_http_uri = NULL,
  repo_ref = NULL,
  remote_host_credential_id = NULL,
  git_credential_id = NULL,
  docker_command = NULL,
  docker_image_tag = NULL,
  instance_type = NULL,
  cancel_timeout = NULL,
  time_zone = NULL,
  hidden = NULL,
  target_project_id = NULL
)
```

Arguments

required_resources

list required. A list containing the following elements:

- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
- memory integer, The amount of RAM to allocate for the container (in MB).
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.
- wholeInstance boolean, Whether or not to use the entire instance. If true, cpu, memory, and disk space are not required and will be set to an instance’s max.
docker_image_name
string required. The name of the docker image to pull from DockerHub.

name
string optional. The name of the container.

parent_id
integer optional. The ID of the parent job that will trigger this script.

user_context
string optional. "runner" or "author", who to execute the script as when run as a template.

params
array optional. An array containing the following fields:
- name string, The variable’s name as used within your code.
- label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label: 'Import', 'value': 'import''

arguments
list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule
list optional. A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications
list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

repo_http_uri string optional. The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

docker_command string optional. The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image’s ENTRY-POINT/CMD.

time_zone string optional. The time zone of this script.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the container.
type string, The type of the script (e.g Container)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
• username string, This user's username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable's name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'
arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
templateDependentsCount integer, How many other scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template script.
templateScriptName string, The name of the template script.
links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.
scripts_post_containers

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

requiredResources list, A list containing the following elements:
  • cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
  • memory integer, The amount of RAM to allocate for the container (in MB).
  • diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

repoHttpUri string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

repoRef string, The tag or branch of the github repo to clone into the container.
### scripts_post_containers_clone

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>remoteHostCredentialId</td>
<td>integer, The id of the database credentials to pass into the environment of the container.</td>
</tr>
<tr>
<td>gitCredentialId</td>
<td>integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.</td>
</tr>
<tr>
<td>dockerCommand</td>
<td>string, The command to run on the container. Will be run via sh as: ['sh', '-c', dockerCommand]. Defaults to the Docker image’s ENTRYPOINT/CMD.</td>
</tr>
<tr>
<td>dockerImageName</td>
<td>string, The name of the docker image to pull from DockerHub.</td>
</tr>
<tr>
<td>dockerImageTag</td>
<td>string, The tag of the docker image to pull from DockerHub.</td>
</tr>
<tr>
<td>instanceType</td>
<td>string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.</td>
</tr>
<tr>
<td>cancelTimeout</td>
<td>integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.</td>
</tr>
<tr>
<td>lastRun</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer,</td>
</tr>
<tr>
<td></td>
<td>• state string,</td>
</tr>
<tr>
<td></td>
<td>• createdAt string, The time that the run was queued.</td>
</tr>
<tr>
<td></td>
<td>• startedAt string, The time that the run started.</td>
</tr>
<tr>
<td></td>
<td>• finishedAt string, The time that the run completed.</td>
</tr>
<tr>
<td></td>
<td>• error string, The error message for this run, if present.</td>
</tr>
<tr>
<td>timeZone</td>
<td>string, The time zone of this script.</td>
</tr>
<tr>
<td>hidden</td>
<td>boolean, The hidden status of the item.</td>
</tr>
<tr>
<td>archived</td>
<td>string, The archival status of the requested item(s).</td>
</tr>
<tr>
<td>targetProjectId</td>
<td>integer, Target project to which script outputs will be added.</td>
</tr>
</tbody>
</table>

#### Description

Clone this Container Script

#### Usage

```python
scripts_post_containers_clone(
id,
clone_schedule = NULL,
clone_triggers = NULL,
clone_notifications = NULL
)
```
Arguments

id integer required. The ID for the script.
clone_schedule boolean optional. If true, also copy the schedule to the new script.
clone_triggers boolean optional. If true, also copy the triggers to the new script.
clone_notifications boolean optional. If true, also copy the notifications to the new script.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the container.
type string, The type of the script (e.g. Container)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

templateDependentsCount integer, How many other scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template script.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

requiredResources list, A list containing the following elements:
  • cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
  • memory integer, The amount of RAM to allocate for the container (in MB).
  • diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

repoHttpUri string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

repoRef string, The tag or branch of the github repo to clone into the container.

remoteHostCredentialId integer, The id of the database credentials to pass into the environment of the container.

gitCredentialId integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

dockerCommand string, The command to run on the container. Will be run via sh as: ["sh", ",c", dockerCommand]. Defaults to the Docker image’s ENTRYPOINT/CMD.

dockerImageName string, The name of the docker image to pull from DockerHub.

dockerImageTag string, The tag of the docker image to pull from DockerHub.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
scripts_post_containers_runs

timeZone string, The time zone of this script.
hidden boolean, The hidden status of the item.
archived string, The archival status of the requested item(s).
targetProjectId integer, Target project to which script outputs will be added.

---

**scripts_post_containers_runs**

*Start a run*

**Description**

Start a run

**Usage**

scripts_post_containers_runs(id)

**Arguments**

id integer required. The ID of the container.

**Value**

A list containing the following elements:

id integer, The ID of the run.
containerId integer, The ID of the container.
state string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.
scripts_post_containers_runs_logs

*Add log messages*

**Description**

Add log messages

**Usage**

```python
scripts_post_containers_runs_logs(
    id,
    run_id,
    message = NULL,
    level = NULL,
    messages = NULL,
    child_job_id = NULL
)
```

**Arguments**

- `id` integer required. The ID of the script.
- `run_id` integer required. The ID of the script run.
- `message` string optional. The log message to store.
- `level` string optional. The log level of this message [default: info]
- `messages` array optional. An array containing the following fields:
  - `message` string. The log message to store.
  - `level` string. The log level of this message [default: info]
  - `createdAt` string. The timestamp of this message in ISO 8601 format. This is what logs are ordered by, so it is recommended to use timestamps with nanosecond precision. If absent, defaults to the time that the log was received by the API.
- `child_job_id` integer optional. The ID of the child job the message came from.

**Value**

An empty HTTP response
scripts_post_containers_runs_outputs

Add an output for a run

Description
Add an output for a run

Usage
scripts_post_containers_runs_outputs(id, run_id, object_type, object_id)

Arguments
id integer required. The ID of the container script.
run_id integer required. The ID of the run.
object_type string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
object_id integer required. The ID of the output.

Value
A list containing the following elements:

objectType string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
objectId integer, The ID of the output.
name string, The name of the output.
link string, The hypermedia link to the output.
value string,

scripts_post_custom Create a Custom Script

Description
Create a Custom Script
Usage

```python
scripts_post_custom(
    from_template_id,
    name = NULL,
    parent_id = NULL,
    arguments = NULL,
    remote_host_id = NULL,
    credential_id = NULL,
    schedule = NULL,
    notifications = NULL,
    time_zone = NULL,
    hidden = NULL,
    target_project_id = NULL
)
```

Arguments

- `from_template_id` integer required. The ID of the template script.
- `name` string optional. The name of the script.
- `parent_id` integer optional. The ID of the parent job that will trigger this script.
- `arguments` list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
- `remote_host_id` integer optional. The remote host ID that this script will connect to.
- `credential_id` integer optional. The credential that this script will use.
- `schedule` list optional. A list containing the following elements:
  - `scheduled boolean`, If the item is scheduled.
  - `scheduledDays array`, Day based on numeric value starting at 0 for Sunday.
  - `scheduledHours array`, Hours of the day it is scheduled on.
  - `scheduledMinutes array`, Minutes of the day it is scheduled on.
  - `scheduledRunsPerHour integer`, Alternative to scheduled minutes, number of times to run per hour.
- `notifications` list optional. A list containing the following elements:
  - `urls array`, URLs to receive a POST request at job completion
  - `successEmailSubject string`, Custom subject line for success e-mail.
  - `successEmailBody string`, Custom body text for success e-mail, written in Markdown.
  - `successEmailAddresses array`, Addresses to notify by e-mail when the job completes successfully.
  - `successEmailFromName string`, Name from which success emails are sent; defaults to "Civis."
  - `successEmailReplyTo string`, Address for replies to success emails; defaults to the author of the job.
scripts_post_custom

- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

```plaintext
time_zone: string optional. The time zone of this script.
hidden: boolean optional. The hidden status of the item.
target_project_id: integer optional. Target project to which script outputs will be added.
```

Value

A list containing the following elements:

- id: integer, The ID for the script.
- name: string, The name of the script.
- type: string, The type of the script (e.g Custom)
- createdAt: string, The time this script was created.
- updatedAt: string, The time the script was last updated.
- author: list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state: string, The status of the script’s last run.
- finishedAt: string, The time that the script’s last run finished.
- category: string,
- projects: array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- parentId: integer, The ID of the parent job that will trigger this script
- params: array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
• value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: `label: 'Import', 'value': 'import'`

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template script.
uiReportUrl integer, The url of the custom HTML.
uiReportId integer, The id of the report with the custom HTML.
uiReportProvideAPIKey boolean, Whether the ui report requests an API Key from the report viewer.
templateScriptName string, The name of the template script.
templateNote string, The template’s note.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
codePreview string, The code that this script will run with arguments inserted.
schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user's name.
• username string, This user's username.
• initials string, This user's initials.
• online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.

lastSuccessfulRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

---

**scripts_post_custom_clone**

*Clone this Custom Script*

**Description**

Clone this Custom Script
Usage

scripts_post_custom_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)

Arguments

id integer required. The ID for the script.
clone_schedule boolean optional. If true, also copy the schedule to the new script.
clone_triggers boolean optional. If true, also copy the triggers to the new script.
clone_notifications boolean optional. If true, also copy the notifications to the new script.

Value

A list containing the following elements:

id integer, The ID for the script.
nname string, The name of the script.
type string, The type of the script (e.g Custom)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string,
projects array, An array containing the following fields:

• id integer, The ID for the project.
• name string, The name of the project.
pparentId integer, The ID of the parent job that will trigger this script
params array, An array containing the following fields:

• name string, The variable’s name as used within your code.
• label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
scripts_post_custom_clone

- **type** string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- **required** boolean, Whether this param is required.
- **value** string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- **default** string, If an argument for this parameter is not defined, it will use this default value. Use True, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- **allowedValues** array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘import’, ‘value’: ‘import’’

**arguments**

- list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

**isTemplate**

- boolean, Whether others scripts use this one as a template.

**publishedAsTemplateId**

- integer, The ID of the template that this script is backing.

**fromTemplateId**

- integer, The ID of the template script.

**uiReportUrl**

- integer, The url of the custom HTML.

**uiReportId**

- integer, The id of the report with the custom HTML.

**uiReportProvideAPIKey**

- boolean, Whether the ui report requests an API Key from the report viewer.

**templateScriptName**

- string, The name of the template script.

**templateNote**

- string, The template’s note.

**remoteHostId**

- integer, The remote host ID that this script will connect to.

**credentialId**

- integer, The credential that this script will use.

**codePreview**

- string, The code that this script will run with arguments inserted.

**schedule**

- list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.

**notifications**

- list, A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion
  - **successEmailSubject** string, Custom subject line for success e-mail.
  - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.

lastSuccessfulRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.
scripts_post_custom_runs

Start a run

Description

Start a run

Usage

```
scripts_post_custom_runs(id)
```

Arguments

- **id**: integer required. The ID of the custom.

Value

A list containing the following elements:

- **id**: integer, The ID of the run.
- **customId**: integer, The ID of the custom.
- **state**: string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested**: boolean, True if run cancel requested, else false.
- **startedAt**: string, The time the last run started at.
- **finishedAt**: string, The time the last run completed.
- **error**: string, The error, if any, returned by the run.

---

scripts_post_custom_runs_outputs

Add an output for a run

Description

Add an output for a run

Usage

```
scripts_post_custom_runs_outputs(id, run_id, object_type, object_id)
```
scripts_post_javascript

Create a JavaScript Script

Description

Create a JavaScript Script

Usage

scripts_post_javascript(
    name,
    source,
    remote_host_id,
    credential_id,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    hidden = NULL,
    target_project_id = NULL
)
Arguments

name string required. The name of the script.
source string required. The body/text of the script.
remote_host_id integer required. The remote host ID that this script will connect to.
credential_id integer required. The credential that this script will use.
parent_id integer optional. The ID of the parent job that will trigger this script
user_context string optional. "runner" or "author", who to execute the script as when run as a template.
params array optional. An array containing the following fields:
  • name string. The variable’s name as used within your code.
  • label string. The label to present to users when asking them for the value.
  • description string. A short sentence or fragment describing this parameter to the end user.
  • type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean. Whether this param is required.
  • value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label’: ‘Import’, ‘value’: ‘import’
arguments list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule list optional. A list containing the following elements:
  • scheduled boolean. If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
notifications list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.
time_zone string optional. The time zone of this script.
hidden boolean optional. The hidden status of the item.
target_project_id integer optional. Target project to which script outputs will be added.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript).
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use True, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

**runningAs**
- list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.

**nextRunAt**
- string, The time of the next scheduled run.

**timeZone**
- string, The time zone of this script.

**lastRun**
- list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.

**hidden**
- boolean, The hidden status of the item.

**targetProjectId**
- integer, Target project to which script outputs will be added.

**archived**
- string, The archival status of the requested item(s).

**source**
- string, The body/text of the script.

**remoteHostId**
- integer, The remote host ID that this script will connect to.

**credentialId**
- integer, The credential that this script will use.

---

**scripts_post_javascript_clone**

*Clone this JavaScript Script*

---

**Description**

Clone this JavaScript Script
Usage

scripts_post_javascript_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)

Arguments

id integer required. The ID for the script.
clone_schedule boolean optional. If true, also copy the schedule to the new script.
clone_triggers boolean optional. If true, also copy the triggers to the new script.
clone_notifications boolean optional. If true, also copy the notifications to the new script.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, “runner” or “author”, who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: `label: 'Import', 'value': 'import'`

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
scripts_post_javascript_git_commits

Commit and push a new version of the file

Description

Commit and push a new version of the file
Usage

scripts_post_javascript_git_commits(id, content, message, file_hash)

Arguments

id integer required. The ID of the file.
content string required. The contents to commit to the file.
message string required. A commit message describing the changes being made.
file_hash string required. The full SHA of the file being replaced.

Value

A list containing the following elements:
content string, The file’s contents.
type string, The file’s type.
size integer, The file’s size.
fileHash string, The SHA of the file.

---

scripts_post_javascript_runs

Start a run

Description

Start a run

Usage

scripts_post_javascript_runs(id)

Arguments

id integer required. The ID of the javascript.

Value

A list containing the following elements:
id integer, The ID of the run.
javascriptId integer, The ID of the javascript.
state string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started at.
finishedAt string, The time the last run completed.
error string, The error, if any, returned by the run.
scripts_post_javascript_runs_outputs

Add an output for a run

**Description**

Add an output for a run

**Usage**

scripts_post_javascript_runs_outputs(id, run_id, object_type, object_id)

**Arguments**

- **id**: integer required. The ID of the javascript script.
- **run_id**: integer required. The ID of the run.
- **object_type**: string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **object_id**: integer required. The ID of the output.

**Value**

A list containing the following elements:

- **objectType**: string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- **objectId**: integer, The ID of the output.
- **name**: string, The name of the output.
- **link**: string, The hypermedia link to the output.
- **value**: string,

---

scripts_post_python3

Create a Python Script

**Description**

Create a Python Script
Usage

```python
scripts_post_python3(
    name,
    source,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    hidden = NULL,
    target_project_id = NULL,
    required_resources = NULL,
    instance_type = NULL,
    cancel_timeout = NULL,
    docker_image_tag = NULL
)
```

Arguments

- **name**: string required. The name of the script.
- **source**: string required. The body/text of the script.
- **parent_id**: integer optional. The ID of the parent job that will trigger this script.
- **user_context**: string optional. "runner" or "author", who to execute the script as when run as a template.
- **params**: array optional. An array containing the following fields:
  - **name**: string, The variable’s name as used within your code.
  - **label**: string, The label to present to users when asking them for the value.
  - **description**: string, A short sentence or fragment describing this parameter to the end user.
  - **type**: string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required**: boolean, Whether this param is required.
  - **value**: string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default**: string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - **allowedValues**: array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ’import’
arguments list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.

time_zone string optional. The time zone of this script.

hidden boolean optional. The hidden status of the item.

target_project_id integer optional. Target project to which script outputs will be added.

required_resources list optional. A list containing the following elements:
  • cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
  • memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
  • diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancel_timeout  integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

docker_image_tag  string optional. The tag of the docker image to pull from DockerHub.

Value

A list containing the following elements:

- id  integer, The ID for the script.
- name  string, The name of the script.
- type  string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- createdAt  string, The time this script was created.
- updatedAt  string, The time the script was last updated.
- author  list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state  string, The status of the script’s last run.
- finishedAt  string, The time that the script’s last run finished.
- category  string, The category of the script.
- projects  array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- parentId  integer, The ID of the parent job that will trigger this script
- userContext  string, "runner" or "author", who to execute the script as when run as a template.
- params  array, An array containing the following fields:
  - name string, The variable's name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
  - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
scripts_post_python3

default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.

allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’‘

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:

• details string, The details link to get more information about the script.
• runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:

• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:

• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source string, The body/text of the script.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag string, The tag of the docker image to pull from DockerHub.
scripts_post_python3_clone

**Clone this Python Script**

---

**Description**

Clone this Python Script

**Usage**

```python
scripts_post_python3_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)
```

**Arguments**

- `id` integer required. The ID for the script.
- `clone_schedule` boolean optional. If true, also copy the schedule to the new script.
- `clone_triggers` boolean optional. If true, also copy the triggers to the new script.
- `clone_notifications` boolean optional. If true, also copy the notifications to the new script.

**Value**

A list containing the following elements:

- `id` integer, The ID for the script.
- `name` string, The name of the script.
- `type` string, The type of the script (e.g. SQL, Container, Python, R, JavaScript).
- `createdAt` string, The time this script was created.
- `updatedAt` string, The time the script was last updated.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user’s name.
  - `username` string, This user’s username.
  - `initials` string, This user’s initials.
  - `online` boolean, Whether this user is online.
- `state` string, The status of the script’s last run.
- `finishedAt` string, The time that the script’s last run finished.
- `category` string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.

parentId integer, The ID of the parent job that will trigger this script

userContext string, "runner" or "author", who to execute the script as when run as a template.

params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
notifications list, A list containing the following elements:

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:

- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:

- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag string, The tag of the docker image to pull from DockerHub.

---

scripts_post_python3_git_commits

Commit and push a new version of the file

Description

Commit and push a new version of the file

Usage

scripts_post_python3_git_commits(id, content, message, file_hash)

Arguments

id integer required. The ID of the file.
content string required. The contents to commit to the file.
message string required. A commit message describing the changes being made.
file_hash string required. The full SHA of the file being replaced.

Value

A list containing the following elements:

current string, The file’s contents.
type string, The file’s type.
size integer, The file’s size.
fileHash string, The SHA of the file.
scripts_post_python3_runs

Start a run

Description
Start a run

Usage

scripts_post_python3_runs(id)

Arguments
id integer required. The ID of the python.

Value
A list containing the following elements:

<table>
<thead>
<tr>
<th>Name</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID of the run.</td>
</tr>
<tr>
<td>pythonId</td>
<td>integer</td>
<td>The ID of the python.</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.</td>
</tr>
<tr>
<td>isCancelRequested</td>
<td>boolean</td>
<td>True if run cancel requested, else false.</td>
</tr>
<tr>
<td>startedAt</td>
<td>string</td>
<td>The time the last run started at.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string</td>
<td>The time the last run completed.</td>
</tr>
<tr>
<td>error</td>
<td>string</td>
<td>The error, if any, returned by the run.</td>
</tr>
</tbody>
</table>

scripts_post_python3_runs_outputs

Add an output for a run

Description
Add an output for a run

Usage

scripts_post_python3_runs_outputs(id, run_id, object_type, object_id)
Arguments

- `id` integer required. The ID of the python script.
- `run_id` integer required. The ID of the run.
- `object_type` string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- `object_id` integer required. The ID of the output.

Value

A list containing the following elements:

- `objectType` string. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- `objectId` integer. The ID of the output.
- `name` string. The name of the output.
- `link` string. The hypermedia link to the output.
- `value` string,

---

`scripts_post_r` Create an R Script

Description

Create an R Script

Usage

```r
scripts_post_r(
  name,
  source,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  hidden = NULL,
  target_project_id = NULL,
  required_resources = NULL,
  instance_type = NULL,
  cancel_timeout = NULL,
  docker_image_tag = NULL
)
```
Arguments

name string required. The name of the script.
source string required. The body/text of the script.
parent_id integer optional. The ID of the parent job that will trigger this script
user_context string optional. "runner" or "author", who to execute the script as when run as a template.
params array optional. An array containing the following fields:
  • name string. The variable’s name as used within your code.
  • label string. The label to present to users when asking them for the value.
  • description string. A short sentence or fragment describing this parameter to the end user.
  • type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’ : ‘import’

arguments list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
schedule list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string. Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array. Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer. Stall warning emails will be sent after this amount of minutes.
• successOn boolean. If success email notifications are on.
• failureOn boolean. If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.
time_zone string optional. The time zone of this script.
hidden boolean optional. The hidden status of the item.
target_project_id integer optional. Target project to which script outputs will be added.
required_resources list optional. A list containing the following elements:
  • cpu integer. The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
  • memory integer. The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
  • diskSpace number. The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.
instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancel_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
docker_image_tag string optional. The tag of the docker image to pull from DockerHub.

Value
A list containing the following elements:

id integer. The ID for the script.
name string. The name of the script.
type string. The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string. The time this script was created.
updatedAt string. The time the script was last updated.
author list. A list containing the following elements:
  • id integer. The ID of this user.
  • name string. This user’s name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.

parentId integer, The ID of the parent job that will trigger this script.
userContext string, "runner" or "author", who to execute the script as when run as a template.

params array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
  - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  - details string, The details link to get more information about the script.
  - runs string, The runs link to get the run information list for this script.
schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to “Civis.”
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.
scripts_post_run

archived  string, The archival status of the requested item(s).
requiredResources
  list, A list containing the following elements:
    • cpu integer, The number of CPU shares to allocate for the container. Each
      core has 1000 shares. Must be at least 2 shares.
    • memory integer, The amount of RAM to allocate for the container (in MB).
      Must be at least 4 MB.
    • diskSpace number, The amount of disk space, in GB, to allocate for the
      container. This space will be used to hold the git repo configured for the
      container and anything your container writes to /tmp or /data. Fractional
      values (e.g. 0.25) are supported.
instanceType  string, The EC2 instance type to deploy to. Only available for jobs running on
kubernetes.
source  string, The body/text of the script.
cancelTimeout  integer, The amount of time (in seconds) to wait before forcibly terminating the
  script. When the script is cancelled, it is first sent a TERM signal. If the script
  is still running after the timeout, it is sent a KILL signal. Defaults to 0.
dockerImageTag  string, The tag of the docker image to pull from DockerHub.

---

**scripts_post_run**  
*Run a script*

**Description**

Run a script

**Usage**

`scripts_post_run(id)`

**Arguments**

- **id**  
  integer required. The ID for the script.

**Value**

An empty HTTP response
**scripts_post_r_clone**  
*Clone this R Script*

**Description**
Clone this R Script

**Usage**

```r
scripts_post_r_clone(
  id,
  clone_schedule = NULL,
  clone_triggers = NULL,
  clone_notifications = NULL
)
```

**Arguments**
- **id** integer required. The ID for the script.
- **clone_schedule** boolean optional. If true, also copy the schedule to the new script.
- **clone_triggers** boolean optional. If true, also copy the triggers to the new script.
- **clone_notifications** boolean optional. If true, also copy the notifications to the new script.

**Value**
A list containing the following elements:

- **id** integer, The ID for the script.
- **name** string, The name of the script.
- **type** string, The type of the script (e.g. SQL, Container, Python, R, JavaScript)
- **createdAt** string, The time this script was created.
- **updatedAt** string, The time the script was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The status of the script's last run.
- **finishedAt** string, The time that the script’s last run finished.
- **category** string, The category of the script.
- **projects** array, An array containing the following fields:
id integer, The ID for the project.
• name string, The name of the project.

parentId integer, The ID of the parent job that will trigger this script

userContext string, "runner" or "author", who to execute the script as when run as a template.

params array, An array containing the following fields:
• name string, The variable’s name as used within your code.
• label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
• details string, The details link to get more information about the script.
• runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
scripts_post_r_git_commits

Commit and push a new version of the file

Description

Commit and push a new version of the file

Usage

scripts_post_r_git_commits(id, content, message, file_hash)

Arguments

id integer required. The ID of the file.
content string required. The contents to commit to the file.
message string required. A commit message describing the changes being made.
file_hash string required. The full SHA of the file being replaced.

Value

A list containing the following elements:

ccontent string, The file’s contents.
type string, The file’s type.
size integer, The file’s size.
fileHash string, The SHA of the file.
**scripts_post_r_runs**

*Start a run*

**Description**

Start a run

**Usage**

`scripts_post_r_runs(id)`

**Arguments**

- **id** integer required. The ID of the run.

**Value**

A list containing the following elements:

- **id** integer, The ID of the run.
- **rId** integer, The ID of the r.
- **state** string, The state of the run, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **isCancelRequested** boolean, True if run cancel requested, else false.
- **startedAt** string, The time the last run started at.
- **finishedAt** string, The time the last run completed.
- **error** string, The error, if any, returned by the run.

---

**scripts_post_r_runs_outputs**

*Add an output for a run*

**Description**

Add an output for a run

**Usage**

`scripts_post_r_runs_outputs(id, run_id, object_type, object_id)`
scripts_post_sql

Arguments

- `id` integer required. The ID of the r script.
- `run_id` integer required. The ID of the run.
- `object_type` string required. The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- `object_id` integer required. The ID of the output.

Value

A list containing the following elements:

- `objectType` string, The type of the output. Valid values are File, Table, Report, Project, Credential, or JSONValue
- `objectId` integer, The ID of the output.
- `name` string, The name of the output.
- `link` string, The hypermedia link to the output.
- `value` string,

---

scripts_post_sql Create a SQL script

Description

Create a SQL script

Usage

```r
scripts_post_sql(
  name,
  sql,
  remote_host_id,
  credential_id,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  hidden = NULL,
  target_project_id = NULL,
  csv_settings = NULL
)
```
Arguments

- **name** string required. The name of the script.
- **sql** string required. The raw SQL query for the script.
- **remote_host_id** integer required. The remote host ID that this script will connect to.
- **credential_id** integer required. The credential that this script will use.
- **parent_id** integer optional. The ID of the parent job that will trigger this script.
- **user_context** string optional. "runner" or "author", who to execute the script as when run as a template.
- **params** array optional. An array containing the following fields:
  - **name** string. The variable’s name as used within your code.
  - **label** string. The label to present to users when asking them for the value.
  - **description** string. A short sentence or fragment describing this parameter to the end user.
  - **type** string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom.
  - **required** boolean. Whether this param is required.
  - **value** string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import'
- **arguments** list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
- **schedule** list optional. A list containing the following elements:
  - **scheduled** boolean. If the item is scheduled.
  - **scheduledDays** array. Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array. Hours of the day it is scheduled on.
  - **scheduledMinutes** array. Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer. Alternative to scheduled minutes, number of times to run per hour.
- **notifications** list optional. A list containing the following elements:
  - **urls** array. URLs to receive a POST request at job completion.
  - **successEmailSubject** string. Custom subject line for success e-mail.
  - **successEmailBody** string. Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array. Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.
time_zone string optional. The time zone of this script.
hidden boolean optional. The hidden status of the item.
target_project_id integer optional. Target project to which script outputs will be added.
csv_settings list optional. A list containing the following elements:
  • includeHeader boolean, Whether or not to include headers in the output data. Default: true
  • compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
  • columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
  • unquoted boolean, Whether or not to quote fields. Default: false
  • forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
  • filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
  • maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state
string, The status of the script’s last run.

finishedAt
string, The time that the script’s last run finished.

category
string, The category of the script.

projects
array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.

parentId
integer, The ID of the parent job that will trigger this script

userContext
string, "runner" or "author", who to execute the script as when run as a template.

params
array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

arguments
list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate
boolean, Whether others scripts use this one as a template.

publishedAsTemplateId
integer, The ID of the template that this script is backing.

fromTemplateId
integer, The ID of the template this script uses, if any.

templateDependentsCount
integer, How many other scripts use this one as a template.

templateScriptName
string, The name of the template script.

links
list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule
list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
scripts_post_sql_clone

string, The raw SQL query for the script.

list, Expanded arguments for use in injecting into different environments.

integer, The remote host ID that this script will connect to.

integer, The credential that this script will use.

string, The code that this script will run with arguments inserted.

list, A list containing the following elements:
  • includeHeader boolean, Whether or not to include headers in the output data. Default: true
  • compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
  • columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
  • unquoted boolean, Whether or not to quote fields. Default: false
  • forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
  • filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
  • maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

---

scripts_post_sql_clone

*Clone this SQL script*

---

Description

Clone this SQL script

Usage

```java
scripts_post_sql_clone(
    id,
    clone_schedule = NULL,
    clone_triggers = NULL,
    clone_notifications = NULL
)
```

Arguments

- `id` integer required. The ID for the script.
- `clone_schedule` boolean optional. If true, also copy the schedule to the new script.
- `clone_triggers` boolean optional. If true, also copy the triggers to the new script.
- `clone_notifications` boolean optional. If true, also copy the notifications to the new script.
Value

A list containing the following elements:

- **id** integer, The ID for the script.
- **name** string, The name of the script.
- **type** string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- **createdAt** string, The time this script was created.
- **updatedAt** string, The time the script was last updated.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The status of the script’s last run.
- **finishedAt** string, The time that the script’s last run finished.
- **category** string, The category of the script.
- **projects** array, An array containing the following fields:
  - **id** integer, The ID for the project.
  - **name** string, The name of the project.
- **parent_id** integer, The ID of the parent job that will trigger this script
- **userContext** string, "runner" or "author", who to execute the script as when run as a template.
- **params** array, An array containing the following fields:
  - **name** string, The variable’s name as used within your code.
  - **label** string, The label to present to users when asking them for the value.
  - **description** string, A short sentence or fragment describing this parameter to the end user.
  - **type** string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required** boolean, Whether this param is required.
  - **value** string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import'
- **arguments** list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
**scripts_post_sql_git_commits**

Commit and push a new version of the file

**Description**

Commit and push a new version of the file
scripts_post_sql_runs

Usage

scripts_post_sql_git_commits(id, content, message, file_hash)

Arguments

id integer required. The ID of the file.
content string required. The contents to commit to the file.
message string required. A commit message describing the changes being made.
file_hash string required. The full SHA of the file being replaced.

Value

A list containing the following elements:

content string, The file’s contents.
type string, The file’s type.
size integer, The file’s size.
fileHash string, The SHA of the file.

scripts_post_sql_runs  Start a run

Description

Start a run

Usage

scripts_post_sql_runs(id)

Arguments

id integer required. The ID of the sql.

Value

A list containing the following elements:

id integer, The ID of this run.
sqlId integer, The ID of this sql.
state string, The state of this run.
isCancelRequested boolean, True if run cancel requested, else false.
startedAt string, The time the last run started.
finishedAt string, The time that this run finished.
error string, The error message for this run, if present.
output array, An array containing the following fields:
  • outputName string, The name of the output file.
  • fileId integer, The unique ID of the output file.
  • path string, The temporary link to download this output file, valid for 36 hours.

---

**scripts_put_containers**

*Edit a container*

**Description**

Edit a container

**Usage**

```plaintext
scripts_put_containers(
    id,
    required_resources,
    docker_image_name,
    name = NULL,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    repo_http_uri = NULL,
    repo_ref = NULL,
    remote_host_credential_id = NULL,
    git_credential_id = NULL,
    docker_command = NULL,
    docker_image_tag = NULL,
    instance_type = NULL,
    cancel_timeout = NULL,
    time_zone = NULL,
    target_project_id = NULL
)
```

**Arguments**

- **id** integer required. The ID for the script.
- **required_resources** list required. A list containing the following elements:
• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
• memory integer, The amount of RAM to allocate for the container (in MB).
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.
• wholeInstance boolean, Whether or not to use the entire instance. If true, cpu, memory, and disk space are not required and will be set to an instance’s max.

docker_image_name
string required. The name of the docker image to pull from DockerHub.

name
string optional. The name of the container.

parent_id
integer optional. The ID of the parent job that will trigger this script

user_context
string optional. "runner" or "author", who to execute the script as when run as a template.

params
array optional. An array containing the following fields:
• name string. The variable’s name as used within your code.
• label string. The label to present to users when asking them for the value.
• description string. A short sentence or fragment describing this parameter to the end user.
• type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean. Whether this param is required.
• value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ’Import’, ‘value’: ’import’

arguments
list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule
list optional. A list containing the following elements:
• scheduled boolean. If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications
list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

repo_http_uri string optional. The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

repo_ref string optional. The tag or branch of the github repo to clone into the container.

remote_host_credential_id integer optional. The id of the database credentials to pass into the environment of the container.

git_credential_id integer optional. The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

docker_command string optional. The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image’s ENTRY-POINT/CMD.

docker_image_tag string optional. The tag of the docker image to pull from DockerHub.

instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancel_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

time_zone string optional. The time zone of this script.

target_project_id integer optional. Target project to which script outputs will be added.

Value
A list containing the following elements:

id integer, The ID for the script.
name string, The name of the container.
type string, The type of the script (e.g Container)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’
arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
templateDependentsCount integer, How many other scripts use this one as a template.
scripts_put_containers

publishedAsTemplateId
   integer, The ID of the template that this script is backing.

fromTemplateId
   integer, The ID of the template script.

templateScriptName
   string, The name of the template script.

links
   list, A list containing the following elements:
      • details string, The details link to get more information about the script.
      • runs string, The runs link to get the run information list for this script.

schedule
   list, A list containing the following elements:
      • scheduled boolean, If the item is scheduled.
      • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
      • scheduledHours array, Hours of the day it is scheduled on.
      • scheduledMinutes array, Minutes of the day it is scheduled on.
      • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications
   list, A list containing the following elements:
      • urls array, URLs to receive a POST request at job completion
      • successEmailSubject string, Custom subject line for success e-mail.
      • successEmailBody string, Custom body text for success e-mail, written in Markdown.
      • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
      • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
      • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
      • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
      • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
      • successOn boolean, If success email notifications are on.
      • failureOn boolean, If failure email notifications are on.

runningAs
   list, A list containing the following elements:
      • id integer, The ID of this user.
      • name string, This user’s name.
      • username string, This user’s username.
      • initials string, This user’s initials.
      • online boolean, Whether this user is online.

requiredResources
   list, A list containing the following elements:
      • cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
• memory integer, The amount of RAM to allocate for the container (in MB).
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

repoHttpUri string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

repoRef string, The tag or branch of the github repo to clone into the container.

remoteHostCredentialId integer, The id of the database credentials to pass into the environment of the container.

gitCredentialId integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you've submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

dockerCommand string, The command to run on the container. Will be run via sh as: ["sh", ",-c", dockerCommand]. Defaults to the Docker image’s ENTRYPOINT/CMD.

dockerImageName string, The name of the docker image to pull from DockerHub.

dockerImageTag string, The tag of the docker image to pull from DockerHub.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

timeZone string, The time zone of this script.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.
scripts_put_containers_archive

Update the archive status of this object

**Description**

Update the archive status of this object

**Usage**

`scripts_put_containers_archive(id, status)`

**Arguments**

- `id` integer required. The ID of the object.
- `status` boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- `id` integer, The ID for the script.
- `name` string, The name of the container.
- `type` string, The type of the script (e.g. Container)
- `createdAt` string, The time this script was created.
- `updatedAt` string, The time the script was last updated.
- `author` list, A list containing the following elements:
  - `id` integer, The ID of this user.
  - `name` string, This user's name.
  - `username` string, This user's username.
  - `initials` string, This user's initials.
  - `online` boolean, Whether this user is online.
- `state` string, The status of the script's last run.
- `finishedAt` string, The time that the script's last run finished.
- `category` string, The category of the script.
- `projects` array, An array containing the following fields:
  - `id` integer, The ID for the project.
  - `name` string, The name of the project.
- `parentId` integer, The ID of the parent job that will trigger this script
- `userContext` string, "runner" or "author", who to execute the script as when run as a template.
- `params` array, An array containing the following fields:
  - `name` string, The variable's name as used within your code.
- label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

templateDependentsCount integer, How many other scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template script.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:
- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
scripts_put_containers_archive

- **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis."
- **successEmailReplyTo** string, Address for replies to success emails; defaults to the author of the job.
- **failureEmailAddresses** array, Addresses to notify by e-mail when the job fails.
- **stallWarningMinutes** integer, Stall warning emails will be sent after this amount of minutes.
- **successOn** boolean, If success email notifications are on.
- **failureOn** boolean, If failure email notifications are on.

**runningAs**

- **id** integer, The ID of this user.
- **name** string, This user's name.
- **username** string, This user's username.
- **initials** string, This user's initials.
- **online** boolean, Whether this user is online.

**requiredResources**

- **cpu** integer, The number of CPU shares to allocate for the container. Each core has 1000 shares.
- **memory** integer, The amount of RAM to allocate for the container (in MB).
- **diskSpace** number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

**repoHttpUri** string, The location of a github repo to clone into the container, e.g. github.com/my-user/my-repo.git.

**repoRef** string, The tag or branch of the github repo to clone into the container.

**remoteHostCredentialId** integer, The id of the database credentials to pass into the environment of the container.

**gitCredentialId** integer, The id of the git credential to be used when checking out the specified git repo. If not supplied, the first git credential you’ve submitted will be used. Unnecessary if no git repo is specified or the git repo is public.

**dockerCommand** string, The command to run on the container. Will be run via sh as: ["sh", "-c", dockerCommand]. Defaults to the Docker image's ENTRYPOINT/CMD.

**dockerImageName** string, The name of the docker image to pull from DockerHub.

**dockerImageTag** string, The tag of the docker image to pull from DockerHub.

**instanceType** string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

**cancelTimeout** integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.
lastRun

  list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

timeZone

  string, The time zone of this script.

hidden

  boolean, The hidden status of the item.

archived

  string, The archival status of the requested item(s).

targetProjectId

  integer, Target project to which script outputs will be added.

---

**scripts_put_containers_projects**

*Add a Container Script to a project*

**Description**

Add a Container Script to a project

**Usage**

`scripts_put_containers_projects(id, project_id)`

**Arguments**

- **id** integer required. The ID of the Container Script.
- **project_id** integer required. The ID of the project.

**Value**

An empty HTTP response
scripts_put_containers_shares_groups

Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage

scripts_put_containers_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments
id	integer required. The ID of the resource that is shared.
group_ids	array required. An array of one or more group IDs.
permission_level	string required. Options are: "read", "write", or "manage".
share_email_body	string optional. Custom body text for e-mail sent on a share.
send_shared_email	boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:

readers	list, A list containing the following elements:
    • users array,
    • groups array,

writers	list, A list containing the following elements:
    • users array,
    • groups array,

owners	list, A list containing the following elements:
    • users array,
    • groups array,

totalUserShares	integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

**scripts_put_containers_shares_users**

*Set the permissions users have on this object*

**Description**

Set the permissions users have on this object

**Usage**

```python
scripts_put_containers_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

**Arguments**

- **id**
  integer required. The ID of the resource that is shared.
- **user_ids**
  array required. An array of one or more user IDs.
- **permission_level**
  string required. Options are: "read", "write", or "manage".
- **share_email_body**
  string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**
  boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers**
  list, A list containing the following elements:
    • users array,
    • groups array,

- **writers**
  list, A list containing the following elements:
    • users array,
    • groups array,

- **owners**
  list, A list containing the following elements:
    • users array,
• groups array,

totalUserShares
    integer, For owners, the number of total users shared. For writers and readers,
    the number of visible users shared.

totalGroupShares
    integer, For owners, the number of total groups shared. For writers and readers,
    the number of visible groups shared.

Description

Replace all attributes of this Custom Script

Usage

scripts_put_custom(
    id,
    name = NULL,
    parent_id = NULL,
    arguments = NULL,
    remote_host_id = NULL,
    credential_id = NULL,
    schedule = NULL,
    notifications = NULL,
    time_zone = NULL,
    target_project_id = NULL
)

Arguments

id integer required. The ID for the script.
name string optional. The name of the script.
parent_id integer optional. The ID of the parent job that will trigger this script
arguments list optional. Parameter-value pairs to use when running this script. Only set-
table if this script has defined parameters.
remote_host_id integer optional. The remote host ID that this script will connect to.
credential_id integer optional. The credential that this script will use.
schedule list optional. A list containing the following elements:
    • scheduled boolean, If the item is scheduled.
    • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
    • scheduledHours array, Hours of the day it is scheduled on.
    • scheduledMinutes array, Minutes of the day it is scheduled on.
scripts_put_custom

- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  - successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on.
  - failureOn boolean, If failure email notifications are on.

time_zone string optional. The time zone of this script.
target_project_id integer optional. Target project to which script outputs will be added.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g Custom)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string,
projects array, An array containing the following fields:
• id integer, The ID for the project.
• name string, The name of the project.

parentId integer, The ID of the parent job that will trigger this script

params array, An array containing the following fields:
• name string, The variable’s name as used within your code.
• label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import''

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template script.

uiReportUrl integer, The url of the custom HTML.

uiReportId integer, The id of the report with the custom HTML.

uiReportProvideAPIKey boolean, Whether the ui report requests an API Key from the report viewer.

templateScriptName string, The name of the template script.

templateNote string, The template’s note.

remoteHostId integer, The remote host ID that this script will connect to.

credentialId integer, The credential that this script will use.

codePreview string, The code that this script will run with arguments inserted.

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
  • startedAt string, The time that the run started.
  • finishedAt string, The time that the run completed.
  • error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

archived string, The archival status of the requested item(s).

targetProjectId integer, Target project to which script outputs will be added.

lastSuccessfulRun list, A list containing the following elements:
  • id integer,
  • state string,
  • createdAt string, The time that the run was queued.
scripts_put_custom_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
scripts_put_custom_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g Custom)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string,
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
p parentId integer, The ID of the parent job that will trigger this script
params array, An array containing the following fields:

- name string, The variable’s name as used within your code.
- label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template script.

uiReportUrl integer, The url of the custom HTML.

uiReportId integer, The id of the report with the custom HTML.

uiReportProvideAPIKey boolean, Whether the ui report requests an API Key from the report viewer.

templateScriptName string, The name of the template script.

templateNote string, The template’s note.

remoteHostId integer, The remote host ID that this script will connect to.

credentialId integer, The credential that this script will use.

codePreview string, The code that this script will run with arguments inserted.

schedule list, A list containing the following elements:

- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
scripts_put_custom_archive

- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
archived string, The archival status of the requested item(s).
targetProjectId integer, Target project to which script outputs will be added.

lastSuccessfulRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.
scripts_put_custom_projects

*Add a Custom Script to a project*

**Description**

Add a Custom Script to a project

**Usage**

```
scripts_put_custom_projects(id, project_id)
```

**Arguments**

- **id** integer required. The ID of the Custom Script.
- **project_id** integer required. The ID of the project.

**Value**

An empty HTTP response

---

scripts_put_custom_shares_groups

*Set the permissions groups has on this object*

**Description**

Set the permissions groups has on this object

**Usage**

```
scripts_put_custom_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

- **id**: integer required. The ID of the resource that is shared.
- **group_ids**: array required. An array of one or more group IDs.
- **permission_level**: string required. Options are: "read", "write", or "manage".
- **share_email_body**: string optional. Custom body text for e-mail sent on a share.
- **send_shared_email**: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **writers**: list, A list containing the following elements:
  - users array,
  - groups array,
- **owners**: list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**scripts_put_custom_shares_users**

*Set the permissions users have on this object*

**Description**

Set the permissions users have on this object

**Usage**

```
scripts_put_custom_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
```
Arguments

id  integer required. The ID of the resource that is shared.
user_ids  array required. An array of one or more user IDs.
permission_level  string required. Options are: "read", "write", or "manage".
share_email_body  string optional. Custom body text for e-mail sent on a share.
send_shared_email  boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers  list, A list containing the following elements:
  • users array,
  • groups array,

writers  list, A list containing the following elements:
  • users array,
  • groups array,

owners  list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Replace all attributes of this JavaScript Script

Description

Replace all attributes of this JavaScript Script
scripts_put_javascript

Usage

scripts_put_javascript(
    id,
    name,
    source,
    remote_host_id,
    credential_id,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL
)

Arguments

id integer required. The ID for the script.
name string required. The name of the script.
source string required. The body/text of the script.
remote_host_id integer required. The remote host ID that this script will connect to.
credential_id integer required. The credential that this script will use.
parent_id integer optional. The ID of the parent job that will trigger this script.
user_context string optional. "runner" or "author", who to execute the script as when run as a template.
params array optional. An array containing the following fields:
    • name string. The variable’s name as used within your code.
    • label string. The label to present to users when asking them for the value.
    • description string. A short sentence or fragment describing this parameter to the end user.
    • type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
    • required boolean, Whether this param is required.
    • value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
    • default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
    • allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’"
arguments  list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule  list optional. A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications  list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

next_run_at  string optional. The time of the next scheduled run.

time_zone  string optional. The time zone of this script.

target_project_id  integer optional. Target project to which script outputs will be added.

Value

A list containing the following elements:

id  integer, The ID for the script.

name  string, The name of the script.

type  string, The type of the script (e.g SQL, Container, Python, R, JavaScript)

createdAt  string, The time this script was created.

updatedAt  string, The time the script was last updated.

author  list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, “runner” or “author”, who to execute the script as when run as a template.
params array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  • default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
  • allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: ‘Import’, ‘value’: ‘import’

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.
isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.
links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.
scripts_put_javascript

schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
scripts_put_javascript_archive

Update the archive status of this object

Description
Update the archive status of this object

Usage
scripts_put_javascript_archive(id, status)

Arguments
id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value
A list containing the following elements:
id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:
  • id integer, The ID for the project.
- name string, The name of the project.

parentId integer, The ID of the parent job that will trigger this script

userContext string, "runner" or "author", who to execute the script as when run as a template.

params array, An array containing the following fields:
- name string, The variable's name as used within your code.
- label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user's username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.
timeZone string, The time zone of this script.
lastRun list, A list containing the following elements:
• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.
targetProjectId integer, Target project to which script outputs will be added.
archived string, The archival status of the requested item(s).
source string, The body/text of the script.
remoteHostId integer, The remote host ID that this script will connect to.
credentialId integer, The credential that this script will use.
scripts_put_javascript_git

*Attach an item to a file in a git repo*

**Description**

Attach an item to a file in a git repo

**Usage**

```r
scripts_put_javascript_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

**Arguments**

- `id` integer required. The ID of the file.
- `git_ref` string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- `git_branch` string optional. The git branch that the file is on.
- `git_path` string optional. The path of the file in the repository.
- `git_repo_url` string optional. The URL of the git repository.
- `pull_from_git` boolean optional. Automatically pull latest commit from git. Only works for scripts.

**Value**

A list containing the following elements:

- `gitRef` string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- `gitBranch` string, The git branch that the file is on.
- `gitPath` string, The path of the file in the repository.
- `gitRepo` list, A list containing the following elements:
  - `id` integer, The ID for this git repository.
  - `repoUrl` string, The URL for this git repository.
  - `createdAt` string,
  - `updatedAt` string,
- `pullFromGit` boolean, Automatically pull latest commit from git. Only works for scripts.
**scripts_put_javascript_projects**

*Add a JavaScript Script to a project*

**Description**

Add a JavaScript Script to a project

**Usage**

```python
scripts_put_javascript_projects(id, project_id)
```

**Arguments**

- `id`  
  integer required. The ID of the JavaScript Script.
- `project_id`  
  integer required. The ID of the project.

**Value**

An empty HTTP response

---

**scripts_put_javascript_shares_groups**

*Set the permissions groups has on this object*

**Description**

Set the permissions groups has on this object

**Usage**

```python
scripts_put_javascript_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

- **id**: integer required. The ID of the resource that is shared.
- **group_ids**: array required. An array of one or more group IDs.
- **permission_level**: string required. Options are: "read", "write", or "manage".
- **share_email_body**: string optional. Custom body text for email sent on a share.
- **send_shared_email**: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers**: list, A list containing the following elements:
  - **users array**, 
  - **groups array**,

- **writers**: list, A list containing the following elements:
  - **users array**, 
  - **groups array**,

- **owners**: list, A list containing the following elements:
  - **users array**, 
  - **groups array**,

- **totalUserShares**: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**scripts_put_javascript_shares_users**

*Set the permissions users have on this object*

Description

Set the permissions users have on this object

Usage

```javascript
scripts_put_javascript_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

id          integer required. The ID of the resource that is shared.
user_ids    array required. An array of one or more user IDs.
permission_level
            string required. Options are: "read", "write", or "manage".
share_email_body
            string optional. Custom body text for e-mail sent on a share.
send_shared_email
            boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers     list, A list containing the following elements:
            • users array,
            • groups array,
writers      list, A list containing the following elements:
            • users array,
            • groups array,
owners       list, A list containing the following elements:
            • users array,
            • groups array,
totalUserShares
            integer, For owners, the number of total users shared. For writers and readers,
            the number of visible users shared.
totalGroupShares
            integer, For owners, the number of total groups shared. For writers and readers,
            the number of visible groups shared.

Description

Replace all attributes of this Python Script
Usage

    scripts_put_python3(
        id,
        name,
        source,
        parent_id = NULL,
        user_context = NULL,
        params = NULL,
        arguments = NULL,
        schedule = NULL,
        notifications = NULL,
        next_run_at = NULL,
        time_zone = NULL,
        target_project_id = NULL,
        required_resources = NULL,
        instance_type = NULL,
        cancel_timeout = NULL,
        docker_image_tag = NULL
    )

Arguments

    id               integer required. The ID for the script.
    name             string required. The name of the script.
    source           string required. The body/text of the script.
    parent_id        integer optional. The ID of the parent job that will trigger this script
    user_context     string optional. "runner" or "author", who to execute the script as when run as a template.
    params           array optional. An array containing the following fields:
        • name string. The variable’s name as used within your code.
        • label string. The label to present to users when asking them for the value.
        • description string. A short sentence or fragment describing this parameter to the end user.
        • type string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
        • required boolean, Whether this param is required.
        • value string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
        • default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
        • allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', 'value': 'import’
arguments  list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule  list optional. A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications  list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at  string optional. The time of the next scheduled run.

time_zone  string optional. The time zone of this script.

target_project_id  integer optional. Target project to which script outputs will be added.

required_resources  list optional. A list containing the following elements:
- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance_type  string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancel_timeout integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

docker_image_tag string optional. The tag of the docker image to pull from DockerHub.

Value

A list containing the following elements:

- id integer, The ID for the script.
- name string, The name of the script.
- type string, The type of the script (e.g. SQL, Container, Python, R, JavaScript)
- createdAt string, The time this script was created.
- updatedAt string, The time the script was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state string, The status of the script’s last run.
- finishedAt string, The time that the script’s last run finished.
- category string, The category of the script.
- projects array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- parentId integer, The ID of the parent job that will trigger this script
- userContext string, "runner" or "author", who to execute the script as when run as a template.
- params array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
  - label string, The label to present to users when asking them for the value.
  - description string, A short sentence or fragment describing this parameter to the end user.
  - type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - required boolean, Whether this param is required.
  - value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', ‘value': 'import'‘

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
• failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:

• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:

• cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
• memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
• diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source string, The body/text of the script.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag string, The tag of the docker image to pull from DockerHub.
scripts_put_python3_archive

Update the archive status of this object

Description

Update the archive status of this object

Usage

```
scripts_put_python3_archive(id, status)
```

Arguments

- **id**: integer required. The ID of the object.
- **status**: boolean required. The desired archived status of the object.

Value

A list containing the following elements:

- **id**: integer, The ID for the script.
- **name**: string, The name of the script.
- **type**: string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- **createdAt**: string, The time this script was created.
- **updatedAt**: string, The time the script was last updated.
- **author**: list, A list containing the following elements:
  - **id**: integer, The ID of this user.
  - **name**: string, This user's name.
  - **username**: string, This user's username.
  - **initials**: string, This user's initials.
  - **online**: boolean, Whether this user is online.
- **state**: string, The status of the script's last run.
- **finishedAt**: string, The time that the script's last run finished.
- **category**: string, The category of the script.
- **projects**: array, An array containing the following fields:
  - **id**: integer, The ID for the project.
  - **name**: string, The name of the project.
- **parentJobId**: integer, The ID of the parent job that will trigger this script
- **userContext**: string, "runner" or "author", who to execute the script as when run as a template.
- **params**: array, An array containing the following fields:
  - **name**: string, The variable's name as used within your code.
- label string, The label to present to users when asking them for the value.
- description string, A short sentence or fragment describing this parameter to the end user.
- type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- required boolean, Whether this param is required.
- value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
- allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
- details string, The details link to get more information about the script.
- runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
scripts_put_python3_archive

- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source string, The body/text of the script.
cancelTimeout  integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag  string, The tag of the docker image to pull from DockerHub.

---

scripts_put_python3_git

Attach an item to a file in a git repo

Description

Attach an item to a file in a git repo

Usage

scripts_put_python3_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)

Arguments

id  integer required. The ID of the file.

git_ref  string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.

git_branch  string optional. The git branch that the file is on.

git_path  string optional. The path of the file in the repository.

git_repo_url  string optional. The URL of the git repository.

pull_from_git  boolean optional. Automatically pull latest commit from git. Only works for scripts.

Value

A list containing the following elements:

gitRef  string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.

gitBranch  string, The git branch that the file is on.

gitPath  string, The path of the file in the repository.

gitRepo  list, A list containing the following elements:
  • id integer, The ID for this git repository.
scripts_put_python3_projects

Add a Python Script to a project

Description
Add a Python Script to a project

Usage
scripts_put_python3_projects(id, project_id)

Arguments
id integer required. The ID of the Python Script.
project_id integer required. The ID of the project.

Value
An empty HTTP response

scripts_put_python3_shares_groups

Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage
scripts_put_python3_shares_groups(id, group_ids, permission_level, share_email_body = NULL, send_shared_email = NULL)
**Arguments**

- **id**
  - integer required. The ID of the resource that is shared.

- **group_ids**
  - array required. An array of one or more group IDs.

- **permission_level**
  - string required. Options are: "read", "write", or "manage".

- **share_email_body**
  - string optional. Custom body text for e-mail sent on a share.

- **send_shared_email**
  - boolean optional. Send email to the recipients of a share.

**Value**

A list containing the following elements:

- **readers**
  - list, A list containing the following elements:
    - **users array**
    - **groups array**

- **writers**
  - list, A list containing the following elements:
    - **users array**
    - **groups array**

- **owners**
  - list, A list containing the following elements:
    - **users array**
    - **groups array**

- **totalUserShares**
  - integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares**
  - integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**scripts_put_python3_shares_users**

*Set the permissions users have on this object*

---

**Description**

Set the permissions users have on this object

**Usage**

```python
scripts_put_python3_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
Arguments

id
  integer required. The ID of the resource that is shared.
user_ids
  array required. An array of one or more user IDs.
permission_level
  string required. Options are: "read", "write", or "manage".
share_email_body
  string optional. Custom body text for e-mail sent on a share.
send_shared_email
  boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers
  list, A list containing the following elements:
  • users array,
  • groups array,

writers
  list, A list containing the following elements:
  • users array,
  • groups array,

owners
  list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares
  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares
  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

scripts_put_r

Replace all attributes of this R Script

Description

Replace all attributes of this R Script
Usage

```r
scripts_put_r(
  id,
  name,
  source,
  parent_id = NULL,
  user_context = NULL,
  params = NULL,
  arguments = NULL,
  schedule = NULL,
  notifications = NULL,
  next_run_at = NULL,
  time_zone = NULL,
  target_project_id = NULL,
  required_resources = NULL,
  instance_type = NULL,
  cancel_timeout = NULL,
  docker_image_tag = NULL
)
```

Arguments

- **id** integer required. The ID for the script.
- **name** string required. The name of the script.
- **source** string required. The body/text of the script.
- **parent_id** integer optional. The ID of the parent job that will trigger this script.
- **user_context** string optional. "runner" or "author", who to execute the script as when run as a template.
- **params** array optional. An array containing the following fields:
  - **name** string. The variable's name as used within your code.
  - **label** string. The label to present to users when asking them for the value.
  - **description** string. A short sentence or fragment describing this parameter to the end user.
  - **type** string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required** boolean. Whether this param is required.
  - **value** string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
  - **allowedValues** array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: `label: 'Import', 'value': 'import'`
scripts_put_r

arguments list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule list optional. A list containing the following elements:
- scheduled boolean, If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at string optional. The time of the next scheduled run.

time_zone string optional. The time zone of this script.

target_project_id integer optional. Target project to which script outputs will be added.

required_resources list optional. A list containing the following elements:
- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instance_type string optional. The EC2 instance type to deploy to. Only available for jobs running on kubernetes.
cancel_timeout  integer optional. The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

docker_image_tag  string optional. The tag of the docker image to pull from DockerHub.

Value

A list containing the following elements:

id  integer, The ID for the script.
name  string, The name of the script.
type  string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt  string, The time this script was created.
updatedAt  string, The time the script was last updated.
author  list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state  string, The status of the script’s last run.
finishedAt  string, The time that the script’s last run finished.
category  string, The category of the script.
projects  array, An array containing the following fields:
  • id integer, The ID for the project.
  • name string, The name of the project.
parentID  integer, The ID of the parent job that will trigger this script
userContext  string, "runner" or "author", who to execute the script as when run as a template.
params  array, An array containing the following fields:
  • name string, The variable’s name as used within your code.
  • label string, The label to present to users when asking them for the value.
  • description string, A short sentence or fragment describing this parameter to the end user.
  • type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  • required boolean, Whether this param is required.
  • value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.

• allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: `label: 'Import', 'value': 'import'`

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.

publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.

templateDependentsCount integer, How many other scripts use this one as a template.

templateScriptName string, The name of the template script.

links list, A list containing the following elements:

• details string, The details link to get more information about the script.

• runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:

• scheduled boolean, If the item is scheduled.

• scheduledDays array, Day based on numeric value starting at 0 for Sunday.

• scheduledHours array, Hours of the day it is scheduled on.

• scheduledMinutes array, Minutes of the day it is scheduled on.

• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:

• urls array, URLs to receive a POST request at job completion

• successEmailSubject string, Custom subject line for success e-mail.

• successEmailBody string, Custom body text for success e-mail, written in Markdown.

• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.

• successEmailFromName string, Name from which success emails are sent; defaults to "Civis."

• successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.

• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.

• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.

• successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

requiredResources list, A list containing the following elements:
- cpu integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- memory integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- diskSpace number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

instanceType string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

source string, The body/text of the script.

cancelTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the script. When the script is cancelled, it is first sent a TERM signal. If the script is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag string, The tag of the docker image to pull from DockerHub.
Description

Update the archive status of this object

Usage

scripts_put_r_archive(id, status)

Arguments

id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value

A list containing the following elements:

id integer, The ID for the script.
name string, The name of the script.
type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
createdAt string, The time this script was created.
updatedAt string, The time the script was last updated.
author list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.
state string, The status of the script’s last run.
finishedAt string, The time that the script’s last run finished.
category string, The category of the script.
projects array, An array containing the following fields:

• id integer, The ID for the project.
• name string, The name of the project.
parentId integer, The ID of the parent job that will trigger this script
userContext string, "runner" or "author", who to execute the script as when run as a template.
params array, An array containing the following fields:

• name string, The variable’s name as used within your code.
• label string, The label to present to users when asking them for the value.
• description string, A short sentence or fragment describing this parameter to the end user.
• type string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
• required boolean, Whether this param is required.
• value string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
• default string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: ‘label: 'Import', ‘value': 'import''

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.

fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
• details string, The details link to get more information about the script.
• runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
• scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- **successEmailFromName** string, Name from which success emails are sent; defaults to "Civis."
- **successEmailReplyTo** string, Address for replies to success emails; defaults to the author of the job.
- **failureEmailAddresses** array, Addresses to notify by e-mail when the job fails.
- **stallWarningMinutes** integer, Stall warning emails will be sent after this amount of minutes.
- **successOn** boolean, If success email notifications are on.
- **failureOn** boolean, If failure email notifications are on.

**runningAs** list, A list containing the following elements:
- **id** integer, The ID of this user.
- **name** string, This user’s name.
- **username** string, This user’s username.
- **initials** string, This user’s initials.
- **online** boolean, Whether this user is online.

**nextRunAt** string, The time of the next scheduled run.

**timeZone** string, The time zone of this script.

**lastRun** list, A list containing the following elements:
- **id** integer,
- **state** string,
- **createdAt** string, The time that the run was queued.
- **startedAt** string, The time that the run started.
- **finishedAt** string, The time that the run completed.
- **error** string, The error message for this run, if present.

**hidden** boolean, The hidden status of the item.

**targetProjectId** integer, Target project to which script outputs will be added.

**archived** string, The archival status of the requested item(s).

**requiredResources** list, A list containing the following elements:
- **cpu** integer, The number of CPU shares to allocate for the container. Each core has 1000 shares. Must be at least 2 shares.
- **memory** integer, The amount of RAM to allocate for the container (in MB). Must be at least 4 MB.
- **diskSpace** number, The amount of disk space, in GB, to allocate for the container. This space will be used to hold the git repo configured for the container and anything your container writes to /tmp or /data. Fractional values (e.g. 0.25) are supported.

**instanceType** string, The EC2 instance type to deploy to. Only available for jobs running on kubernetes.

**source** string, The body/text of the script.
scriptTimeout integer, The amount of time (in seconds) to wait before forcibly terminating the
script. When the script is cancelled, it is first sent a TERM signal. If the script
is still running after the timeout, it is sent a KILL signal. Defaults to 0.

dockerImageTag string, The tag of the docker image to pull from DockerHub.

---

scripts_put_r_git  Attach an item to a file in a git repo

**Description**

Attach an item to a file in a git repo

**Usage**

```r
scripts_put_r_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

**Arguments**

- `id` integer required. The ID of the file.
- `git_ref` string optional. A git reference specifying an unambiguous version of the file.
  Can be a branch name, or the full or shortened SHA of a commit.
- `git_branch` string optional. The git branch that the file is on.
- `git_path` string optional. The path of the file in the repository.
- `git_repo_url` string optional. The URL of the git repository.
- `pull_from_git` boolean optional. Automatically pull latest commit from git. Only works for
  scripts.

**Value**

A list containing the following elements:

- `gitRef` string, A git reference specifying an unambiguous version of the file.
  Can be a branch name, or the full or shortened SHA of a commit.
- `gitBranch` string, The git branch that the file is on.
- `gitPath` string, The path of the file in the repository.
- `gitRepo` list, A list containing the following elements:
  - `id` integer, The ID for this git repository.
scripts_put_r_projects

Add an R Script to a project

Description
Add an R Script to a project

Usage
scripts_put_r_projects(id, project_id)

Arguments
id integer required. The ID of the R Script.
project_id integer required. The ID of the project.

Value
An empty HTTP response

scripts_put_r_shares_groups
Set the permissions groups has on this object

Description
Set the permissions groups has on this object

Usage
scripts_put_r_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
scripts_put_r_shares_users

Arguments

id: integer required. The ID of the resource that is shared.
group_ids: array required. An array of one or more group IDs.
permission_level: string required. Options are: "read", "write", or "manage".
share_email_body: string optional. Custom body text for e-mail sent on a share.
send_shared_email: boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers: list, A list containing the following elements:
  • users array,
  • groups array,
writers: list, A list containing the following elements:
  • users array,
  • groups array,
owners: list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares: integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares: integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

scripts_put_r_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
Arguments

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**scripts_put_sql**  
Replace all attributes of this SQL script

**Description**

Replace all attributes of this SQL script
Usage

```python
scripts_put_sql(
    id,
    name,
    sql,
    remote_host_id,
    credential_id,
    parent_id = NULL,
    user_context = NULL,
    params = NULL,
    arguments = NULL,
    schedule = NULL,
    notifications = NULL,
    next_run_at = NULL,
    time_zone = NULL,
    target_project_id = NULL,
    csv_settings = NULL
)
```

Arguments

- **id** integer required. The ID for the script.
- **name** string required. The name of the script.
- **sql** string required. The raw SQL query for the script.
- **remote_host_id** integer required. The remote host ID that this script will connect to.
- **credential_id** integer required. The credential that this script will use.
- **parent_id** integer optional. The ID of the parent job that will trigger this script.
- **user_context** string optional. "runner" or "author", who to execute the script as when run as a template.
- **params** array optional. An array containing the following fields:
  - **name** string. The variable's name as used within your code.
  - **label** string. The label to present to users when asking them for the value.
  - **description** string. A short sentence or fragment describing this parameter to the end user.
  - **type** string. The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
  - **required** boolean. Whether this param is required.
  - **value** string. The value you would like to set this param to. Setting this value makes this parameter a fixed param.
  - **default** string. If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool's or false, False, f, n, no, or 0 for false bool's. Cannot be used for parameters that are required or a credential type.
allowedValues array. The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

arguments
list optional. Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

schedule
list optional. A list containing the following elements:
- scheduled boolean. If the item is scheduled.
- scheduledDays array, Day based on numeric value starting at 0 for Sunday.
- scheduledHours array, Hours of the day it is scheduled on.
- scheduledMinutes array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications
list optional. A list containing the following elements:
- urls array, URLs to receive a POST request at job completion
- successEmailSubject string, Custom subject line for success e-mail.
- successEmailBody string, Custom body text for success e-mail, written in Markdown.
- successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

next_run_at
string optional. The time of the next scheduled run.

time_zone
string optional. The time zone of this script.

target_project_id
integer optional. Target project to which script outputs will be added.

csv_settings
list optional. A list containing the following elements:
- includeHeader boolean, Whether or not to include headers in the output data. Default: true
- compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
- columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
- unquoted boolean, Whether or not to quote fields. Default: false
- forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
• filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
• maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer</td>
<td>The ID for the script.</td>
</tr>
<tr>
<td>name</td>
<td>string</td>
<td>The name of the script.</td>
</tr>
<tr>
<td>type</td>
<td>string</td>
<td>The type of the script (e.g SQL, Container, Python, R, JavaScript)</td>
</tr>
<tr>
<td>createdAt</td>
<td>string</td>
<td>The time this script was created.</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string</td>
<td>The time the script was last updated.</td>
</tr>
<tr>
<td>author</td>
<td>list</td>
<td>A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer</td>
<td>The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string</td>
<td>This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string</td>
<td>This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string</td>
<td>This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean</td>
<td>Whether this user is online.</td>
</tr>
<tr>
<td>state</td>
<td>string</td>
<td>The status of the script’s last run.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string</td>
<td>The time that the script’s last run finished.</td>
</tr>
<tr>
<td>category</td>
<td>string</td>
<td>The category of the script.</td>
</tr>
<tr>
<td>projects</td>
<td>array</td>
<td>An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• id integer</td>
<td>The ID for the project.</td>
</tr>
<tr>
<td></td>
<td>• name string</td>
<td>The name of the project.</td>
</tr>
<tr>
<td>parentId</td>
<td>integer</td>
<td>The ID of the parent job that will trigger this script</td>
</tr>
<tr>
<td>userContext</td>
<td>string</td>
<td>&quot;runner&quot; or &quot;author&quot;, who to execute the script as when run as a template.</td>
</tr>
<tr>
<td>params</td>
<td>array</td>
<td>An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>• name string</td>
<td>The variable’s name as used within your code.</td>
</tr>
<tr>
<td></td>
<td>• label string</td>
<td>The label to present to users when asking them for the value.</td>
</tr>
<tr>
<td></td>
<td>• description string</td>
<td>A short sentence or fragment describing this parameter to the end user.</td>
</tr>
<tr>
<td></td>
<td>• type string</td>
<td>The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom</td>
</tr>
<tr>
<td></td>
<td>• required boolean</td>
<td>Whether this param is required.</td>
</tr>
<tr>
<td></td>
<td>• value string</td>
<td>The value you would like to set this param to. Setting this value makes this parameter a fixed param.</td>
</tr>
<tr>
<td></td>
<td>• default string</td>
<td>If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.</td>
</tr>
</tbody>
</table>
• allowedValues array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: 'label': 'Import', 'value': 'import'

arguments list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

isTemplate boolean, Whether others scripts use this one as a template.
publishedAsTemplateId integer, The ID of the template that this script is backing.
fromTemplateId integer, The ID of the template this script uses, if any.
templateDependentsCount integer, How many other scripts use this one as a template.
templateScriptName string, The name of the template script.

links list, A list containing the following elements:
  • details string, The details link to get more information about the script.
  • runs string, The runs link to get the run information list for this script.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
  • successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on.
  • failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
  • id integer, The ID of this user.
scripts_put_sql

- name string. This user’s name.
- username string. This user’s username.
- initials string. This user’s initials.
- online boolean. Whether this user is online.

nextRunAt string. The time of the next scheduled run.
timeZone string. The time zone of this script.
lastRun list. A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string. The time that the run was queued.
  - startedAt string. The time that the run started.
  - finishedAt string. The time that the run completed.
  - error string. The error message for this run, if present.

hidden boolean. The hidden status of the item.
targetProjectId integer. Target project to which script outputs will be added.
archived string. The archival status of the requested item(s).
sql string. The raw SQL query for the script.
expandedArguments list. Expanded arguments for use in injecting into different environments.
remoteHostId integer. The remote host ID that this script will connect to.
credentialId integer. The credential that this script will use.
codePreview string. The code that this script will run with arguments inserted.
csvSettings list. A list containing the following elements:
  - includeHeader boolean. Whether or not to include headers in the output data. Default: true
  - compression string. The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
  - columnDelimiter string. Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
  - unquoted boolean. Whether or not to quote fields. Default: false
  - forceMultifile boolean. Whether or not the csv should be split into multiple files. Default: false
  - filenamePrefix string. A user specified filename prefix for the output file to have. Default: null
  - maxFileSize integer. The max file size, in MB, created files will be. Only available when force_multifile is true.
scripts_put_sql_archive

Update the archive status of this object

Description

Update the archive status of this object

Usage

scripts_put_sql_archive(id, status)

Arguments

id integer required. The ID of the object.
status boolean required. The desired archived status of the object.

Value

A list containing the following elements:

- id integer, The ID for the script.
- name string, The name of the script.
- type string, The type of the script (e.g SQL, Container, Python, R, JavaScript)
- createdAt string, The time this script was created.
- updatedAt string, The time the script was last updated.
- author list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- state string, The status of the script’s last run.
- finishedAt string, The time that the script’s last run finished.
- category string, The category of the script.
- projects array, An array containing the following fields:
  - id integer, The ID for the project.
  - name string, The name of the project.
- parentId integer, The ID of the parent job that will trigger this script
- userContext string, "runner" or "author", who to execute the script as when run as a template.
- params array, An array containing the following fields:
  - name string, The variable’s name as used within your code.
scripts_put_sql_archive

- **label** string, The label to present to users when asking them for the value.
- **description** string, A short sentence or fragment describing this parameter to the end user.
- **type** string, The type of parameter. Valid options: string, multi_line_string, integer, float, bool, file, table, database, credential_aws, credential_redshift, or credential_custom
- **required** boolean, Whether this param is required.
- **value** string, The value you would like to set this param to. Setting this value makes this parameter a fixed param.
- **default** string, If an argument for this parameter is not defined, it will use this default value. Use true, True, t, y, yes, or 1 for true bool’s or false, False, f, n, no, or 0 for false bool’s. Cannot be used for parameters that are required or a credential type.
- **allowedValues** array, The possible values this parameter can take, effectively making this an enumerable parameter. Allowed values is an array of hashes of the following format: `label: 'Import', value: 'import'`

**arguments** list, Parameter-value pairs to use when running this script. Only settable if this script has defined parameters.

**isTemplate** boolean, Whether others scripts use this one as a template.

**publishedAsTemplateId** integer, The ID of the template that this script is backing.

**fromTemplateId** integer, The ID of the template this script uses, if any.

**templateDependentsCount** integer, How many other scripts use this one as a template.

**templateScriptName** string, The name of the template script.

**links** list, A list containing the following elements:
- **details** string, The details link to get more information about the script.
- **runs** string, The runs link to get the run information list for this script.

**schedule** list, A list containing the following elements:
- **scheduled** boolean, If the item is scheduled.
- **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
- **scheduledHours** array, Hours of the day it is scheduled on.
- **scheduledMinutes** array, Minutes of the day it is scheduled on.
- **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.

**notifications** list, A list containing the following elements:
- **urls** array, URLs to receive a POST request at job completion
- **successEmailSubject** string, Custom subject line for success e-mail.
- **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
- **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
- successEmailFromName string, Name from which success emails are sent; defaults to "Civis."
- successEmailReplyTo string, Address for replies to success emails; defaults to the author of the job.
- failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on.
- failureOn boolean, If failure email notifications are on.

runningAs list, A list containing the following elements:
- id integer, The ID of this user.
- name string, This user’s name.
- username string, This user’s username.
- initials string, This user’s initials.
- online boolean, Whether this user is online.

nextRunAt string, The time of the next scheduled run.

timeZone string, The time zone of this script.

lastRun list, A list containing the following elements:
- id integer,
- state string,
- createdAt string, The time that the run was queued.
- startedAt string, The time that the run started.
- finishedAt string, The time that the run completed.
- error string, The error message for this run, if present.

hidden boolean, The hidden status of the item.

targetProjectId integer, Target project to which script outputs will be added.

archived string, The archival status of the requested item(s).

ts string, The raw SQL query for the script.

expandedArguments list, Expanded arguments for use in injecting into different environments.

remoteHostId integer, The remote host ID that this script will connect to.

credentialId integer, The credential that this script will use.

codePreview string, The code that this script will run with arguments inserted.

csvSettings list, A list containing the following elements:
- includeHeader boolean, Whether or not to include headers in the output data. Default: true
- compression string, The type of compression to use, if any, one of "none", "zip", or "gzip". Default: gzip
- columnDelimiter string, Which delimiter to use, one of "comma", "tab", or "pipe". Default: comma
scripts_put_sql_git

• unquoted boolean, Whether or not to quote fields. Default: false
• forceMultifile boolean, Whether or not the csv should be split into multiple files. Default: false
• filenamePrefix string, A user specified filename prefix for the output file to have. Default: null
• maxFileSize integer, The max file size, in MB, created files will be. Only available when force_multifile is true.

### Description

Attach an item to a file in a git repo

### Usage

```r
scripts_put_sql_git(
  id,
  git_ref = NULL,
  git_branch = NULL,
  git_path = NULL,
  git_repo_url = NULL,
  pull_from_git = NULL
)
```

### Arguments

- **id** integer required. The ID of the file.
- **git_ref** string optional. A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **git_branch** string optional. The git branch that the file is on.
- **git_path** string optional. The path of the file in the repository.
- **git_repo_url** string optional. The URL of the git repository.
- **pull_from_git** boolean optional. Automatically pull latest commit from git. Only works for scripts.

### Value

A list containing the following elements:

- **gitRef** string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** string, The git branch that the file is on.
- **gitPath** string, The path of the file in the repository.
scripts_put_sql_projects

Add a SQL script to a project

Description

Add a SQL script to a project

Usage

scripts_put_sql_projects(id, project_id)

Arguments

id integer required. The ID of the SQL script.
project_id integer required. The ID of the project.

Value

An empty HTTP response

scripts_put_sql_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

scripts_put_sql_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
scripts_put_sql_shares_users

Arguments

id
integer required. The ID of the resource that is shared.

group_ids
array required. An array of one or more group IDs.

permission_level
string required. Options are: "read", "write", or "manage".

share_email_body
string optional. Custom body text for e-mail sent on a share.

send_shared_email
boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers
list, A list containing the following elements:
  • users array,
  • groups array,

writers
list, A list containing the following elements:
  • users array,
  • groups array,

owners
list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

scripts_put_sql_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
search_list

Arguments

id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

search_list Perform a search

Description

Perform a search
Usage

```java
search_list(
    query = NULL,
    type = NULL,
    offset = NULL,
    order = NULL,
    owner = NULL,
    limit = NULL,
    archived = NULL,
    last_run_state = NULL
)
```

Arguments

- **query** string optional. The search query.
- **type** string optional. The type for the search. It accepts a comma-separated list. Valid arguments are listed on the "GET /search/types" endpoint.
- **offset** integer optional. The offset for the search results.
- **order** string optional. The field on which to order the result set.
- **owner** string optional. The owner for the search.
- **limit** integer optional. Defaults to 10. Maximum allowed is 1000.
- **archived** string optional. If specified, return only results with the chosen archived status; either 'true', 'false', or 'all'. Defaults to 'false'.
- **last_run_state** string optional. The last run state of the job being searched for; either: 'queued', 'running', 'succeeded', 'failed', or 'cancelled'.

Value

An array containing the following fields:

- **totalResults** integer, The number of items matching the search query.
- **aggregations** list, Aggregations by owner and type for the search results.
- **results** array, An array containing the following fields:
  - score number, The relevance score from the search request.
  - id integer, The ID of the item.
  - name string, The name of the item.
  - typeName string, The verbose name of the type.
  - updatedAt string, The time the item was last updated.
  - owner string, The owner of the item.
  - useCount integer, The use count of the item, if the item is a template.
  - lastRunId integer, The last run id of the item, if the item is a job.
  - lastRunState string, The last run state of the item, if the item is a job.
• lastRunFinish string, The last run finish time of the item, if the item is a job.
• public boolean, The flag that indicates a template is available to all users.
• lastRunException string, The exception of the item after the last run, if the item is a job.

search_list_types

List available search types

Description
List available search types

Usage
search_list_types()

Value
An array containing the following fields:
type string, The name of the item type.

services_delete

Archive a Service (deprecated, use archiving endpoints instead)

Description
Archive a Service (deprecated, use archiving endpoints instead)

Usage
services_delete(id)

Arguments
id integer required.

Value
An empty HTTP response
services_delete_deployments

Delete a Service deployment

Description

Delete a Service deployment

Usage

services_delete_deployments(service_id, deployment_id)

Arguments

service_id integer required. The ID of the owning Service
deployment_id integer required. The ID for this deployment

Value

An empty HTTP response

services_delete_projects

Remove a Service from a project

Description

Remove a Service from a project

Usage

services_delete_projects(id, project_id)

Arguments

id integer required. The ID of the Service.
project_id integer required. The ID of the project.

Value

An empty HTTP response
services_delete_shares_groups

Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
services_delete_shares_groups(id, group_id)

Arguments
id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value
An empty HTTP response

services_delete_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
services_delete_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response
services_delete_tokens

  Revoke a token by id

Description

  Revoke a token by id

Usage

  services_delete_tokens(id, token_id)

Arguments

  id       integer required. The ID of the service.
  token_id integer required. The ID of the token.

Value

  An empty HTTP response

services_get

  Get a Service

Description

  Get a Service

Usage

  services_get(id)

Arguments

  id       integer required.

Value

  A list containing the following elements:
  
  id   integer, The ID for this Service.
  name string, The name of this Service.
  description string, The description of this Service.
  user list, A list containing the following elements:
    • id integer, The ID of this user.
services_get

- name string, This user's name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

type string, The type of this Service

dockerImageName string, The name of the docker image to pull from DockerHub.
dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
schedule list, A list containing the following elements:
  - runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
  - recurrences array, List of day-hour combinations this item is scheduled for

timeZone string,
replicas integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType string, The EC2 instance type to deploy to.
memory integer, The amount of memory allocated to each replica of the Service.
cpu integer, The amount of cpu allocated to each replica of the Service.
createdAt string,
updatedAt string,
credentials array, A list of credential IDs to pass to the Service.
apiKeyId integer, API key id of user
permissionSetId integer, The ID of the associated permission set, if any.
gitRepoUrl string, The url for the git repo where the Service code lives.
gitRepoRef string, The git reference to use when pulling code from the repo.
gitPathDir string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
reportId integer, The ID of the associated report.
currentDeployment list, A list containing the following elements:
  - deploymentId integer, The ID for this deployment.
  - userId integer, The ID of the owner.
  - host string, Domain of the deployment.
  - name string, Name of the deployment.
- `dockerImageName` string, The name of the docker image to pull from DockerHub.
- `dockerImageTag` string, The tag of the docker image to pull from DockerHub (default: latest).
- `displayUrl` string, A signed URL for viewing the deployed item.
- `instanceType` string, The EC2 instance type requested for the deployment.
- `memory` integer, The memory allocated to the deployment.
- `cpu` integer, The cpu allocated to the deployment.
- `state` string, The state of the deployment.
- `stateMessage` string, A detailed description of the state.
- `createdAt` string,
- `updatedAt` string,
- `published` boolean,
- `serviceId` integer, The ID of owning Service

`previewDeployment` list, A list containing the following elements:
- `deploymentId` integer, The ID for this deployment.
- `userId` integer, The ID of the owner.
- `host` string, Domain of the deployment.
- `name` string, Name of the deployment.
- `dockerImageName` string, The name of the docker image to pull from DockerHub.
- `dockerImageTag` string, The tag of the docker image to pull from DockerHub (default: latest).
- `displayUrl` string, A signed URL for viewing the deployed item.
- `instanceType` string, The EC2 instance type requested for the deployment.
- `memory` integer, The memory allocated to the deployment.
- `cpu` integer, The cpu allocated to the deployment.
- `state` string, The state of the deployment.
- `stateMessage` string, A detailed description of the state.
- `createdAt` string,
- `updatedAt` string,
- `published` boolean,
- `serviceId` integer, The ID of owning Service

`currentUrl` string, The URL that the service is hosted at.

`previewUrl` string, The URL that previews of the service are hosted at.

`environmentVariables` list, Environment Variables to be passed into the Service.

`notifications` list, A list containing the following elements:
- `failureEmailAddresses` array, Addresses to notify by e-mail when the service fails.
- `failureOn` boolean, If failure email notifications are on

`archived` string, The archival status of the requested item(s).

`hidden` boolean, The hidden status of the item.
services_get_deployments

*Get details about a Service deployment*

**Description**

Get details about a Service deployment

**Usage**

```
services_get_deployments(service_id, deployment_id)
```

**Arguments**

- **service_id**  
  integer required. The ID of the owning Service
- **deployment_id**  
  integer required. The ID for this deployment

**Value**

A list containing the following elements:

- deploymentId  
  integer, The ID for this deployment.
- userId  
  integer, The ID of the owner.
- host  
  string, Domain of the deployment.
- name  
  string, Name of the deployment.
- dockerImageName  
  string, The name of the docker image to pull from DockerHub.
- dockerImageTag  
  string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl  
  string, A signed URL for viewing the deployed item.
- instanceType  
  string, The EC2 instance type requested for the deployment.
- memory  
  integer, The memory allocated to the deployment.
- cpu  
  integer, The cpu allocated to the deployment.
- state  
  string, The state of the deployment.
- stateMessage  
  string, A detailed description of the state.
- createdAt  
  string,
- updatedAt  
  string,
- published  
  boolean,
- serviceId  
  integer, The ID of owning Service
services_list  List Services

Description

List Services

Usage

services_list(
    hidden = NULL,
    archived = NULL,
    author = NULL,
    status = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

hidden  boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
archived  string optional. The archival status of the requested item(s).
author  string optional. If specified, return imports from this author. It accepts a comma-separated list of author IDs.
status  string optional. If specified, returns Services with one of these statuses. It accepts a comma-separated list, possible values are ‘running’, ‘idle’.
limit  integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.
page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.
order  string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.
order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id  integer, The ID for this Service.
name  string, The name of this Service.
description  string, The description of this Service.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

type string, The type of this Service
createdAt string,
updatedAt string,
gitRepoUrl string, The url for the git repo where the Service code lives.
gitRepoRef string, The git reference to use when pulling code from the repo.
gitPathDir string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
currentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
  • stateMessage string, A detailed description of the state.
  • createdAt string,
  • updatedAt string,
  • published boolean,
  • serviceId integer, The ID of owning Service
previewDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
services_list_deployments

List deployments for a Service

Description

List deployments for a Service

Usage

services_list_deployments(
    service_id,
    deployment_id = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

service_id integer required. The ID of the owning Service

deployment_id integer optional. The ID for this deployment

limit integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.
Value

An array containing the following fields:

- deploymentId: integer, The ID for this deployment.
- userId: integer, The ID of the owner.
- host: string, Domain of the deployment.
- name: string, Name of the deployment.
- dockerImageName: string, The name of the docker image to pull from DockerHub.
- dockerImageTag: string, The tag of the docker image to pull from DockerHub (default: latest).
- instanceType: string, The EC2 instance type requested for the deployment.
- memory: integer, The memory allocated to the deployment.
- cpu: integer, The cpu allocated to the deployment.
- state: string, The state of the deployment.
- stateMessage: string, A detailed description of the state.
- createdAt: string,
- updatedAt: string,
- published: boolean,
- serviceId: integer, The ID of owning Service

services_list_deployments_logs

Get the logs for a Service deployment

Description

Get the logs for a Service deployment

Usage

services_list_deployments_logs(
    id,
    deployment_id,
    start_at = NULL,
    end_at = NULL,
    limit = NULL
)
**Arguments**

- **id**
  - integer required. The ID of the owning Service.
- **deployment_id**
  - integer required. The ID for this deployment.
- **start_at**
  - string optional. Log entries with a lower timestamp will be omitted.
- **end_at**
  - string optional. Log entries with a higher timestamp will be omitted.
- **limit**
  - integer optional. The maximum number of log messages to return. Default of 10000.

**Value**

An array containing the following fields:

- **message**
  - string, The log message.
- **stream**
  - string, The stream of the log. One of "stdout", "stderr".
- **createdAt**
  - string, The time the log was created.
- **source**
  - string, The source of the log. One of "system", "user".

---

**services_list_projects**

*List the projects a Service belongs to*

**Description**

List the projects a Service belongs to

**Usage**

```r
services_list_projects(id, hidden = NULL)
```

**Arguments**

- **id**
  - integer required. The ID of the Service.
- **hidden**
  - boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

**Value**

An array containing the following fields:

- **id**
  - integer, The ID for this project.
- **author**
  - list, A list containing the following elements:
    - **id**
      - integer, The ID of this user.
    - **name**
      - string, This user’s name.
    - **username**
      - string, This user’s username.
services_list_shares

- initials string, This user's initials.
- online boolean, Whether this user is online.

name string, The name of this project.

description string, A description of the project.

users array, An array containing the following fields:
- id integer, The ID of this user.
- name string, This user's name.
- username string, This user's username.
- initials string, This user's initials.
- online boolean, Whether this user is online.

autoShare boolean,

createdAt string,

updatedAt string,

archived string, The archival status of the requested item(s).

services_list_shares  List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

services_list_shares(id)

Arguments

id integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  - users array,
  - groups array,

writers list, A list containing the following elements:
  - users array,
  - groups array,

owners list, A list containing the following elements:
  - users array,
- groups array,

```plaintext
totalUserShares
totalGroupShares
```

- integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

## Description

List tokens

## Usage

```
services_list_tokens(id)
```

## Arguments

- **id** integer required. The ID of the service.

## Value

An array containing the following fields:

- id integer, The ID of the token.
- name string, The name of the token.
- user list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- machineToken boolean, If true, this token is not tied to a particular user.
- createdAt string, The date and time when the token was created.
Description

Update some attributes of this Service

Usage

services_patch(
    id,
    name = NULL,
    description = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    schedule = NULL,
    replicas = NULL,
    max_replicas = NULL,
    instance_type = NULL,
    memory = NULL,
    cpu = NULL,
    credentials = NULL,
    api_key_id = NULL,
    permission_set_id = NULL,
    git_repo_url = NULL,
    git_repo_ref = NULL,
    git_path_dir = NULL,
    environment_variables = NULL,
    notifications = NULL
)

Arguments

id
    integer required. The ID for this Service.

name
    string optional. The name of this Service.

description
    string optional. The description of this Service.

docker_image_name
    string optional. The name of the docker image to pull from DockerHub.

docker_image_tag
    string optional. The tag of the docker image to pull from DockerHub (default: latest).

schedule
    list optional. A list containing the following elements:
    - runtimePlan string. Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will
be on when scheduled. Always On means the deployed service will always be on.

- recurrences array. List of day-hour combinations this item is scheduled for

replicas integer optional. The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.

max_replicas integer optional. The maximum number of Service replicas to deploy. Defining this field enables autoscaling.

instance_type string optional. The EC2 instance type to deploy to.

memory integer optional. The amount of memory allocated to each replica of the Service.

cpu integer optional. The amount of cpu allocated to each replica of the Service.

credentials array optional. A list of credential IDs to pass to the Service.

api_key_id integer optional. API key id of user

permission_set_id integer optional. The ID of the associated permission set, if any.

git_repo_url string optional. The url for the git repo where the Service code lives.

git_repo_ref string optional. The git reference to use when pulling code from the repo.

git_path_dir string optional. The path to the Service code within the git repo. If unspecified, the root directory will be used.

environment_variables list optional. Environment Variables to be passed into the Service.

notifications list optional. A list containing the following elements:

  • failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
  • failureOn boolean, If failure email notifications are on

Value

A list containing the following elements:

id integer, The ID for this Service.

name string, The name of this Service.

description string, The description of this Service.

user list, A list containing the following elements:

  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

type string, The type of this Service

dockerImageName string, The name of the docker image to pull from DockerHub.

dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
schedule list, A list containing the following elements:
  • runtimePlan string, Only affects the service when deployed. On Demand
    means that the service will be turned on when viewed and automatically
    turned off after periods of inactivity. Specific Times means the service
    will be on when scheduled. Always On means the deployed service will always
    be on.
  • recurrences array, List of day-hour combinations this item is scheduled for

timeZone string,
replicas integer, The number of Service replicas to deploy. When maxReplicas is set,
this field defines the minimum number of replicas to deploy.
maxReplicas integer, The maximum number of Service replicas to deploy. Defining this field
enables autoscaling.
instanceType string, The EC2 instance type to deploy to.
memory integer, The amount of memory allocated to each replica of the Service.
cpu integer, The amount of cpu allocated to each replica of the the Service.
createdAt string,
updatedAt string,
credentials array, A list of credential IDs to pass to the Service.
apiKeyId integer, API key id of user
permissionSetId integer, The ID of the associated permission set, if any.
gitRepoUrl string, The url for the git repo where the Service code lives.
gitRepoRef string, The git reference to use when pulling code from the repo.
gitPathDir string, The path to the Service code within the git repo. If unspecified, the root
directory will be used.
reportId integer, The ID of the associated report.
currentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from Dock-
erHub.
  • dockerImageTag string, The tag of the docker image to pull from Docker-
    Hub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service

previewDeployment

list, A list containing the following elements:
• deploymentId integer, The ID for this deployment.
• userId integer, The ID of the owner.
• host string, Domain of the deployment.
• name string, Name of the deployment.
• dockerImageName string, The name of the docker image to pull from DockerHub.
• dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
• displayUrl string, A signed URL for viewing the deployed item.
• instanceType string, The EC2 instance type requested for the deployment.
• memory integer, The memory allocated to the deployment.
• cpu integer, The cpu allocated to the deployment.
• state string, The state of the deployment.
• stateMessage string, A detailed description of the state.
• createdAt string,
• updatedAt string,
• published boolean,
• serviceId integer, The ID of owning Service

currentUrl

string, The URL that the service is hosted at.

previewUrl

string, The URL that previews of the service are hosted at.

environmentVariables

list, Environment Variables to be passed into the Service.

notifications

list, A list containing the following elements:
• failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
• failureOn boolean, If failure email notifications are on

archived

string, The archival status of the requested item(s).

hidden

boolean, The hidden status of the item.
Description

Create a Service

Usage

```python
services_post(
    name = NULL,
    description = NULL,
    type = NULL,
    docker_image_name = NULL,
    docker_image_tag = NULL,
    schedule = NULL,
    replicas = NULL,
    max_replicas = NULL,
    instance_type = NULL,
    memory = NULL,
    cpu = NULL,
    credentials = NULL,
    api_key_id = NULL,
    permission_set_id = NULL,
    git_repo_url = NULL,
    git_repo_ref = NULL,
    git_path_dir = NULL,
    environment_variables = NULL,
    notifications = NULL,
    hidden = NULL
)
```

Arguments

- **name**  
  string optional. The name of this Service.

- **description**  
  string optional. The description of this Service.

- **type**  
  string optional. The type of this Service.

- **docker_image_name**  
  string optional. The name of the docker image to pull from DockerHub.

- **docker_image_tag**  
  string optional. The tag of the docker image to pull from DockerHub (default: latest).

- **schedule**  
  list optional. A list containing the following elements:
  - runtimePlan string. Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically
turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.

- recurrences array, List of day-hour combinations this item is scheduled for

<table>
<thead>
<tr>
<th>replicas</th>
<th>integer optional. The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.</th>
</tr>
</thead>
<tbody>
<tr>
<td>max_replicas</td>
<td>integer optional. The maximum number of Service replicas to deploy. Defining this field enables autoscaling.</td>
</tr>
<tr>
<td>instance_type</td>
<td>string optional. The EC2 instance type to deploy to.</td>
</tr>
<tr>
<td>memory</td>
<td>integer optional. The amount of memory allocated to each replica of the Service.</td>
</tr>
<tr>
<td>cpu</td>
<td>integer optional. The amount of cpu allocated to each replica of the Service.</td>
</tr>
<tr>
<td>credentials</td>
<td>array optional. A list of credential IDs to pass to the Service.</td>
</tr>
<tr>
<td>api_key_id</td>
<td>integer optional. API key id of user</td>
</tr>
<tr>
<td>permission_set_id</td>
<td>integer optional. The ID of the associated permission set, if any.</td>
</tr>
<tr>
<td>git_repo_url</td>
<td>string optional. The url for the git repo where the Service code lives.</td>
</tr>
<tr>
<td>git_repo_ref</td>
<td>string optional. The git reference to use when pulling code from the repo.</td>
</tr>
<tr>
<td>git_path_dir</td>
<td>string optional. The path to the Service code within the git repo. If unspecified, the root directory will be used.</td>
</tr>
<tr>
<td>environment_variables</td>
<td>list optional. Environment Variables to be passed into the Service.</td>
</tr>
<tr>
<td>notifications</td>
<td>list optional. A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>- failureEmailAddresses array, Addresses to notify by e-mail when the service fails.</td>
</tr>
<tr>
<td></td>
<td>- failureOn boolean, If failure email notifications are on</td>
</tr>
<tr>
<td>hidden</td>
<td>boolean optional. The hidden status of the item.</td>
</tr>
</tbody>
</table>

### Value

A list containing the following elements:

| id    | integer, The ID for this Service. |
| name  | string, The name of this Service. |
| description | string, The description of this Service. |
| user  | list, A list containing the following elements: |
|       |   - id integer, The ID of this user. |
|       |   - name string. This user’s name. |
|       |   - username string, This user’s username. |
|       |   - initials string, This user’s initials. |
|       |   - online boolean, Whether this user is online. |
| type  | string, The type of this Service |
dockerImageName
string, The name of the docker image to pull from DockerHub.
dockerImageTag
string, The tag of the docker image to pull from DockerHub (default: latest).
schedule
list, A list containing the following elements:
  • runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
  • recurrences array, List of day-hour combinations this item is scheduled for
timeZone
string,
replicas
integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas
integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instanceType
string, The EC2 instance type to deploy to.
memory
integer, The amount of memory allocated to each replica of the Service.
cpu
integer, The amount of cpu allocated to each replica of the Service.
createdAt
string,
updatedAt
string,
credentials
array, A list of credential IDs to pass to the Service.
apiKeyId
integer, API key id of user
permissionSetId
integer, The ID of the associated permission set, if any.
gitRepoUrl
string, The url for the git repo where the Service code lives.
gitRepoRef
string, The git reference to use when pulling code from the repo.
gitPathDir
string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
reportId
integer, The ID of the associated report.
currentDeployment
list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

previewDeployment
list, A list containing the following elements:
- deploymentId integer, The ID for this deployment.
- userId integer, The ID of the owner.
- host string, Domain of the deployment.
- name string, Name of the deployment.
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.
previewUrl string, The URL that previews of the service are hosted at.
environmentVariables
list, Environment Variables to be passed into the Service.

notifications
list, A list containing the following elements:
- failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
- failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
Description
Clone this Service

Usage
services_post_clone(id)

Arguments
id integer required.

Value
A list containing the following elements:

- id integer, The ID for this Service.
- name string, The name of this Service.
- description string, The description of this Service.
- user list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- type string, The type of this Service
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- schedule list, A list containing the following elements:
  - runtimePlan string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
  - recurrences array, List of day-hour combinations this item is scheduled for
- timeZone string,
- replicas integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
maxReplicas integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.

instanceType string, The EC2 instance type to deploy to.

memory integer, The amount of memory allocated to each replica of the Service.

cpu integer, The amount of cpu allocated to each replica of the Service.

createdAt string,

updatedAt string,

credentials array, A list of credential IDs to pass to the Service.

apiKeyId integer, API key id of user

permissionSetId integer, The ID of the associated permission set, if any.

gitRepoUrl string, The url for the git repo where the Service code lives.

gitRepoRef string, The git reference to use when pulling code from the repo.

gitPathDir string, The path to the Service code within the git repo. If unspecified, the root directory will be used.

reportId integer, The ID of the associated report.

currentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
  • stateMessage string, A detailed description of the state.
  • createdAt string,
  • updatedAt string,
  • published boolean,
  • serviceId integer, The ID of owning Service

previewDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
services_post_deployments

- name string, Name of the deployment.
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

currentUrl string, The URL that the service is hosted at.
previewUrl string, The URL that previews of the service are hosted at.
environmentVariables list, Environment Variables to be passed into the Service.
notifications list, A list containing the following elements:
  - failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
  - failureOn boolean, If failure email notifications are on
archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.

services_post_deployments

Deploy a Service

Description

Deploy a Service

Usage

services_post_deployments(service_id, deployment_id = NULL, published = NULL)

Arguments

- service_id integer required. The ID of the owning Service
- deployment_id integer optional. The ID for this deployment
- published boolean optional.
services_post_redeploy

Redeploy a Service

Description

Redeploy a Service

Usage

services_post_redeploy(service_id, deployment_id = NULL, published = NULL)

Arguments

service_id integer required. The ID of the owning Service
deployment_id integer optional. The ID for this deployment
published boolean optional.
Value

A list containing the following elements:

- deploymentId: integer, The ID for this deployment.
- userId: integer, The ID of the owner.
- host: string, Domain of the deployment.
- name: string, Name of the deployment.
- dockerImageName: string, The name of the docker image to pull from DockerHub.
- dockerImageTag: string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl: string, A signed URL for viewing the deployed item.
- instanceType: string, The EC2 instance type requested for the deployment.
- memory: integer, The memory allocated to the deployment.
- cpu: integer, The cpu allocated to the deployment.
- state: string, The state of the deployment.
- stateMessage: string, A detailed description of the state.
- createdAt: string,
- updatedAt: string,
- published: boolean,
- serviceId: integer, The ID of owning Service

Create a new long-lived service token

Description

Create a new long-lived service token

Usage

services_post_tokens(id, name, machine_token = NULL)

Arguments

- id: integer required. The ID of the service.
- name: string required. The name of the token.
- machine_token: boolean optional. If true, create a compact token with no user information.
Value

A list containing the following elements:

id integer, The ID of the token.
name string, The name of the token.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
machineToken boolean, If true, this token is not tied to a particular user.
createdAt string, The date and time when the token was created.
token string, The value of the token. Only returned when the token is first created.

services_put Replace all attributes of this Service

Description

Replace all attributes of this Service

Usage

services_put(
  id,
  name = NULL,
  description = NULL,
  docker_image_name = NULL,
  docker_image_tag = NULL,
  schedule = NULL,
  replicas = NULL,
  max_replicas = NULL,
  instance_type = NULL,
  memory = NULL,
  cpu = NULL,
  credentials = NULL,
  api_key_id = NULL,
  permission_set_id = NULL,
  git_repo_url = NULL,
  git_repo_ref = NULL,
  git_path_dir = NULL,
  environment_variables = NULL,
  notifications = NULL
)
Arguments

id        integer required. The ID for this Service.
name      string optional. The name of this Service.
description string optional. The description of this Service.
docker_image_name string optional. The name of the docker image to pull from DockerHub.
docker_image_tag string optional. The tag of the docker image to pull from DockerHub (default: latest).
schedule  list optional. A list containing the following elements:
  • runtimePlan string. Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
  • recurrences array. List of day-hour combinations this item is scheduled for
replicas integer optional. The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
max_replicas integer optional. The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
instance_type string optional. The EC2 instance type to deploy to.
memory    integer optional. The amount of memory allocated to each replica of the Service.
cpu       integer optional. The amount of cpu allocated to each replica of the Service.
credentials array optional. A list of credential IDs to pass to the Service.
api_key_id integer optional. API key id of user
permission_set_id integer optional. The ID of the associated permission set, if any.
git_repo_url string optional. The url for the git repo where the Service code lives.
git_repo_ref string optional. The git reference to use when pulling code from the repo.
git_path_dir string optional. The path to the Service code within the git repo. If unspecified, the root directory will be used.
environment_variables list optional. Environment Variables to be passed into the Service.
notifications list optional. A list containing the following elements:
  • failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
  • failureOn boolean, If failure email notifications are on
Value

A list containing the following elements:

- **id** integer, The ID for this Service.
- **name** string, The name of this Service.
- **description** string, The description of this Service.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **type** string, The type of this Service.
- **dockerImageName** string, The name of the docker image to pull from DockerHub.
- **dockerImageTag** string, The tag of the docker image to pull from DockerHub (default: latest).
- **schedule** list, A list containing the following elements:
  - **runtimePlan** string, Only affects the service when deployed. On Demand means that the service will be turned on when viewed and automatically turned off after periods of inactivity. Specific Times means the service will be on when scheduled. Always On means the deployed service will always be on.
  - **recurrences** array, List of day-hour combinations this item is scheduled for.
- **timeZone** string,
- **replicas** integer, The number of Service replicas to deploy. When maxReplicas is set, this field defines the minimum number of replicas to deploy.
- **maxReplicas** integer, The maximum number of Service replicas to deploy. Defining this field enables autoscaling.
- **instanceType** string, The EC2 instance type to deploy to.
- **memory** integer, The amount of memory allocated to each replica of the Service.
- **cpu** integer, The amount of cpu allocated to each replica of the Service.
- **createdAt** string,
- **updatedAt** string,
- **credentials** array, A list of credential IDs to pass to the Service.
- **apiKeyId** integer, API key id of user
- **permissionSetId** integer, The ID of the associated permission set, if any.
- **gitRepoUrl** string, The url for the git repo where the Service code lives.
- **gitRepoRef** string, The git reference to use when pulling code from the repo.
- **gitPathDir** string, The path to the Service code within the git repo. If unspecified, the root directory will be used.
services_put

reportId  integer, The ID of the associated report.
currentDeployment  list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
  • stateMessage string, A detailed description of the state.
  • createdAt string,
  • updatedAt string,
  • published boolean,
  • serviceId integer, The ID of owning Service

previewDeployment  list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from DockerHub.
  • dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
  • stateMessage string, A detailed description of the state.
  • createdAt string,
  • updatedAt string,
  • published boolean,
  • serviceId integer, The ID of owning Service

currentUrl  string, The URL that the service is hosted at.
services_put_archive

**Description**

Update the archive status of this object

**Usage**

`services_put_archive(id, status)`

**Arguments**

- **id** integer required. The ID of the object.
- **status** boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id** integer, The ID for this Service.
- **name** string, The name of this Service.
- **description** string, The description of this Service.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **type** string, The type of this Service
- **dockerImageName** string, The name of the docker image to pull from DockerHub.
- **dockerImageTag** string, The tag of the docker image to pull from DockerHub (default: latest).
services_put_archive

schedule list, A list containing the following elements:
  • runtimePlan string, Only affects the service when deployed. On Demand
    means that the service will be turned on when viewed and automatically
    turned off after periods of inactivity. Specific Times means the service will
    be on when scheduled. Always On means the deployed service will always
    be on.
  • recurrences array, List of day-hour combinations this item is scheduled for

timeZone string,
replicas integer, The number of Service replicas to deploy. When maxReplicas is set,
this field defines the minimum number of replicas to deploy.
maxReplicas integer, The maximum number of Service replicas to deploy. Defining this field
enables autoscaling.
instanceType string, The EC2 instance type to deploy to.
memory integer, The amount of memory allocated to each replica of the Service.
cpu integer, The amount of cpu allocated to each replica of the Service.
createdAt string,
updatedAt string,
credentials array, A list of credential IDs to pass to the Service.
apiKeyId integer, API key id of user
permissionSetId integer, The ID of the associated permission set, if any.
gitRepoUrl string, The url for the git repo where the Service code lives.
gitRepoRef string, The git reference to use when pulling code from the repo.
gitPathDir string, The path to the Service code within the git repo. If unspecified, the root
directory will be used.
reportId integer, The ID of the associated report.
currentDeployment list, A list containing the following elements:
  • deploymentId integer, The ID for this deployment.
  • userId integer, The ID of the owner.
  • host string, Domain of the deployment.
  • name string, Name of the deployment.
  • dockerImageName string, The name of the docker image to pull from Dock-
erHub.
  • dockerImageTag string, The tag of the docker image to pull from Docker-
    Hub (default: latest).
  • displayUrl string, A signed URL for viewing the deployed item.
  • instanceType string, The EC2 instance type requested for the deployment.
  • memory integer, The memory allocated to the deployment.
  • cpu integer, The cpu allocated to the deployment.
  • state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

**previewDeployment**

list, A list containing the following elements:

- deploymentId integer, The ID for this deployment.
- userId integer, The ID of the owner.
- host string, Domain of the deployment.
- name string, Name of the deployment.
- dockerImageName string, The name of the docker image to pull from DockerHub.
- dockerImageTag string, The tag of the docker image to pull from DockerHub (default: latest).
- displayUrl string, A signed URL for viewing the deployed item.
- instanceType string, The EC2 instance type requested for the deployment.
- memory integer, The memory allocated to the deployment.
- cpu integer, The cpu allocated to the deployment.
- state string, The state of the deployment.
- stateMessage string, A detailed description of the state.
- createdAt string,
- updatedAt string,
- published boolean,
- serviceId integer, The ID of owning Service

**currentUrl** string, The URL that the service is hosted at.

**previewUrl** string, The URL that previews of the service are hosted at.

**environmentVariables** list, Environment Variables to be passed into the Service.

**notifications** list, A list containing the following elements:

- failureEmailAddresses array, Addresses to notify by e-mail when the service fails.
- failureOn boolean, If failure email notifications are on

**archived** string, The archival status of the requested item(s).

**hidden** boolean, The hidden status of the item.
**services_put_projects**  
*Add a Service to a project*

**Description**

Add a Service to a project

**Usage**

```python
services_put_projects(id, project_id)
```

**Arguments**

- **id**
  - integer required. The ID of the Service.
- **project_id**
  - integer required. The ID of the project.

**Value**

An empty HTTP response

---

**services_put_shares_groups**

*Set the permissions groups has on this object*

**Description**

Set the permissions groups has on this object

**Usage**

```python
services_put_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```
services_put_shares_users

Arguments

id          integer required. The ID of the resource that is shared.
group_ids   array required. An array of one or more group IDs.
permission_level  string required. Options are: "read", "write", or "manage".
share_email_body  string optional. Custom body text for e-mail sent on a share.
send_shared_email  boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers  list, A list containing the following elements:
  • users array,
  • groups array,

writers  list, A list containing the following elements:
  • users array,
  • groups array,

owners  list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

Description

Set the permissions users have on this object

Usage

services_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)
Arguments

- **id** integer required. The ID of the resource that is shared.
- **user_ids** array required. An array of one or more user IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
  - users array,
  - groups array,
- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**sql**

**SQL escaping**

Description

SQL escaping

Usage

```r
sql(...)
```

Arguments

```r
...
```

Character vectors that will be combined into a single SQL expression.
stash_local_dataframe  
Stash a data frame in feather or csv format, depending on CivisML version.

Description
Stash a data frame in feather or csv format, depending on CivisML version.

Usage
stash_local_dataframe(x, tmpl_id)

Arguments
- x: data.frame to stash
- tmpl_id: CivisML training template id

Value
file id where dataframe is stored

storage_hosts_delete  
Delete a storage host (deprecated)

Description
Delete a storage host (deprecated)

Usage
storage_hosts_delete(id)

Arguments
- id: integer required. The ID of the storage host.

Value
An empty HTTP response
*storage_hosts_delete_shares_groups*

*Revoke the permissions a group has on this object*

**Description**

Revoke the permissions a group has on this object

**Usage**

`storage_hosts_delete_shares_groups(id, group_id)`

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `group_id` integer required. The ID of the group.

**Value**

An empty HTTP response

---

*storage_hosts_delete_shares_users*

*Revoke the permissions a user has on this object*

**Description**

Revoke the permissions a user has on this object

**Usage**

`storage_hosts_delete_shares_users(id, user_id)`

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `user_id` integer required. The ID of the user.

**Value**

An empty HTTP response
**storage_hosts_get**  
*Get a storage host*

**Description**  
Get a storage host

**Usage**  
`storage_hosts_get(id)`

**Arguments**  
id  
integer required. The ID of the storage host.

**Value**  
A list containing the following elements:

- **id** integer, The ID of the storage host.
- **owner** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **name** string, The human readable name for the storage host.
- **provider** string, The storage provider. One of: s3.
- **bucket** string, The bucket for this storage host.
- **s3Options** list, A list containing the following elements:
  - **region** string, The region for this storage host (ex. "us-east-1")

---

**storage_hosts_list**  
*List the storage hosts*

**Description**  
List the storage hosts

**Usage**  
`storage_hosts_list()`
Value

An array containing the following fields:

- **id** integer, The ID of the storage host.
- **owner** list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- **name** string, The human readable name for the storage host.
- **provider** string, The storage provider. One of: s3.
- **bucket** string, The bucket for this storage host.
- **s3Options** list, A list containing the following elements:
  - region string, The region for this storage host (ex. "us-east-1")

---

**storage_hosts_list_shares**

*List users and groups permissioned on this object*

---

Description

List users and groups permissioned on this object

Usage

```
storage_hosts_list_shares(id)
```

Arguments

- **id** integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,
- **writers** list, A list containing the following elements:
  - users array,
  - groups array,
- **owners** list, A list containing the following elements:
storage_hosts_patch

- users array,
- groups array,

**totalUserShares**
integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

**totalGroupShares**
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

**storage_hosts_patch**  
*Update some attributes of this storage host*

---

**Description**
Update some attributes of this storage host

**Usage**

```python
storage_hosts_patch(
    id,
    name = NULL,
    provider = NULL,
    bucket = NULL,
    s3_options = NULL
)
```

**Arguments**

- **id**  
  integer required. The ID of the storage host.

- **name**  
  string optional. The human readable name for the storage host.

- **provider**  
  string optional. The storage provider. One of: s3.

- **bucket**  
  string optional. The bucket for this storage host.

- **s3_options**  
  list optional. A list containing the following elements:
  - region string, The region for this storage host (ex. "us-east-1")

**Value**

A list containing the following elements:

- **id**  
  integer, The ID of the storage host.

- **owner**  
  list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
Create a new storage host

**Description**
Create a new storage host

**Usage**

```
storage_hosts_post(provider, bucket, name, s3_options = NULL)
```

**Arguments**

- **provider** string required. The storage provider. One of: s3.
- **bucket** string required. The bucket for this storage host.
- **name** string required. The human readable name for the storage host.
- **s3_options** list optional. A list containing the following elements:
  - **region** string, The region for this storage host (ex. "us-east-1")

**Value**
A list containing the following elements:

- **id** integer, The ID of the storage host.
- **owner** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user's name.
  - **username** string, This user's username.
  - **initials** string, This user's initials.
  - **online** boolean, Whether this user is online.
- **name** string, The human readable name for the storage host.
- **provider** string, The storage provider. One of: s3.
- **bucket** string, The bucket for this storage host.
- **s3_options** list, A list containing the following elements:
  - **region** string, The region for this storage host (ex. "us-east-1")
storage_hosts_put  Replace all attributes of this storage host

Description

Replace all attributes of this storage host

Usage

storage_hosts_put(id, name, provider, bucket, s3_options = NULL)

Arguments

id  integer required. The ID of the storage host.
name  string required. The human readable name for the storage host.
provider  string required. The storage provider. One of: s3.
bucket  string required. The bucket for this storage host.
s3_options  list optional. A list containing the following elements:
  • region string, The region for this storage host (ex. "us-east-1")

Value

A list containing the following elements:

id  integer, The ID of the storage host.
owner  list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
name  string, The human readable name for the storage host.
provider  string, The storage provider. One of: s3.
bucket  string, The bucket for this storage host.
s3Options  list, A list containing the following elements:
  • region string, The region for this storage host (ex. "us-east-1")
storage_hosts_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

storage_hosts_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments

id                integer required. The ID of the resource that is shared.
group_ids        array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers          list, A list containing the following elements:
  • users array,
  • groups array,

writers          list, A list containing the following elements:
  • users array,
  • groups array,

owners           list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares
integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

storage_hosts_put_shares_users
Set the permissions users have on this object

Description
Set the permissions users have on this object

Usage
storage_hosts_put_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments
id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:
readers list, A list containing the following elements:
  • users array,
  • groups array,
writers list, A list containing the following elements:
  • users array,
  • groups array,
owners list, A list containing the following elements:
  • users array,
tables_delete_projects

Remove a Table from a project

Description
Remove a Table from a project

Usage

tables_delete_projects(id, project_id)

Arguments

id    integer required. The ID of the Table.
project_id    integer required. The ID of the project.

Value
An empty HTTP response

tables_get
Show basic table info

Description
Show basic table info

Usage

tables_get(id)

Arguments

id    integer required.
Value

A list containing the following elements:

- id integer, The ID of the table.
- databaseId integer, The ID of the database.
- schema string, The name of the schema containing the table.
- name string, Name of the table.
- description string, The description of the table, as specified by the table owner.
- isView boolean, True if this table represents a view. False if it represents a regular table.
- rowCount integer, The number of rows in the table.
- columnCount integer, The number of columns in the table.
- sizeMb number, The size of the table in megabytes.
- owner string, The database username of the table’s owner.
- distkey string, The column used as the Amazon Redshift distkey.
- sortkeys string, The column used as the Amazon Redshift sortkey.
- refreshStatus string, How up-to-date the table’s statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.
- lastRefresh string, The time of the last statistics refresh.
- refreshId string, The ID of the most recent statistics refresh.
- lastRun list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
- primaryKeys array, The primary keys for this table.
- lastModifiedKeys array, The columns indicating an entry’s modification status for this table.
- ontologyMapping list, The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.
- columns array, An array containing the following fields:
  - name string, Name of the column.
  - civisDataType string, The generic data type of the column (ex. "string"). Since this is database-agnostic, it may be helpful when loading data to R/Python.
  - sqlType string, The database-specific SQL type of the column (ex. "varchar(30)").
  - sampleValues array, A sample of values from the column.
  - encoding string, The compression encoding for this column. See: http://docs.aws.amazon.com/redshift
• description string, The description of the column, as specified by the table owner
• order integer, Relative position of the column in the table.
• minValue string, Smallest value in the column.
• maxValue string, Largest value in the column.
• avgValue number, Average value of the column, where applicable.
• stddev number, Stddev of the column, where applicable.
• valueDistributionPercent object, A mapping between each value in the column and the percentage of rows with that value. Only present for tables with fewer than approximately 25,000,000 rows and for columns with fewer than twenty distinct values.
• coverageCount integer, Number of non-null values in the column.
• nullCount integer, Number of null values in the column.
• possibleDependentVariableTypes array, Possible dependent variable types the column may be used to model. Null if it may not be used as a dependent variable.
• useableAsIndependentVariable boolean, Whether the column may be used as an independent variable to train a model.
• useableAsPrimaryKey boolean, Whether the column may be used as a primary key to identify table rows.
• valueDistribution object, An object mapping distinct values in the column to the number of times they appear in the column.
• distinctCount integer, Number of distinct values in the column.

joins array, An array containing the following fields:
  • id integer,
  • leftTableId integer,
  • leftIdentifier string,
  • rightTableId integer,
  • rightIdentifier string,
  • on string,
  • leftJoin boolean,
  • createdAt string,
  • updatedAt string,

multipartKey array,

enhancements array, An array containing the following fields:
  • type string,
  • createdAt string,
  • updatedAt string,

viewDef string,

tableDef string,

outgoingTableMatches array, An array containing the following fields:
### tables_get_enhancements_cass_ncoa

*View the status of a CASS / NCOA table enhancement*

#### Description

View the status of a CASS / NCOA table enhancement

#### Usage

```python
tables_get_enhancements_cass_ncoa(id, source_table_id)
```

#### Arguments

- **id** integer required. The ID of the enhancement.
- **source_table_id** integer required. The ID of the table that was enhanced.

#### Value

A list containing the following elements:

- **id** integer, The ID of the enhancement.
- **sourceTableId** integer, The ID of the table that was enhanced.
- **state** string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **enhancedTableSchema** string, The schema name of the table created by the enhancement.
- **enhancedTableName** string, The name of the table created by the enhancement.
- **performNcoa** boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.
- **ncoaCredentialId** integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.
- **outputLevel** string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.
tables_get_enhancements_geocodings

View the status of a geocoding table enhancement

Description

View the status of a geocoding table enhancement

Usage

tables_get_enhancements_geocodings(id, source_table_id)

Arguments

id integer required. The ID of the enhancement.
source_table_id integer required. The ID of the table that was enhanced.

Value

A list containing the following elements:

id integer, The ID of the enhancement.
sourceTableId integer, The ID of the table that was enhanced.
state string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
enhancedTableSchema string, The schema name of the table created by the enhancement.
enhancedTableName string, The name of the table created by the enhancement.

---

tables_get_enhancements_prepared_matchings

View a prepared matching enhancement

Description

View a prepared matching enhancement

Usage

tables_get_enhancements_prepared_matchings(id, source_table_id)
Arguments

id  integer required. The ID of the enhancement.
source_table_id  integer required. The ID of the table that was enhanced.

Value

A list containing the following elements:

id  integer, The ID of the enhancement.
sourceTableId  integer, The ID of the table that was enhanced.
state  string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
enhancedTableSchema  string, The schema name of the table created by the enhancement.
enhancedTableName  string, The name of the table created by the enhancement.
threshold  number, The confidence threshold which must be met for two individuals to be declared a match. Must be less than or equal to 1 and greater than or equal to 0.
maxMatches  integer, The maximum number of individuals a person may be matched with. A value of 0 indicates that all matches should be returned.
matchTableId  integer, The ID of the Dynamo table to match against.

tables_get_enhancements_table_matchings

View a table matching enhancement

Description

View a table matching enhancement

Usage

tables_get_enhancements_table_matchings(id, source_table_id)

Arguments

id  integer required. The ID of the enhancement.
source_table_id  integer required. The ID of the table that was enhanced.
Value

A list containing the following elements:

- **id**: integer, The ID of the enhancement.
- **sourceTableId**: integer, The ID of the table that was enhanced.
- **state**: string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **enhancedTableSchema**: string, The schema name of the table created by the enhancement.
- **enhancedTableName**: string, The name of the table created by the enhancement.
- **threshold**: number, The confidence threshold which must be met for two individuals to be declared a match. Must be less than or equal to 1 and greater than or equal to 0.
- **maxMatches**: integer, The maximum number of individuals a person may be matched with. A value of 0 indicates that all matches should be returned.
- **matchTableId**: integer, The ID of the Redshift table to match against.

---

**tables_list**  
*List tables*

**Description**

List tables

**Usage**

```python
tables_list(
    database_id = NULL,
    schema = NULL,
    name = NULL,
    search = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

**Arguments**

- **database_id**: integer optional. The ID of the database.
- **schema**: string optional. If specified, will be used to filter the tables returned. Substring matching is supported with "%" and "*" wildcards (e.g., "schema=%census%" will return both "client_census.table" and "census_2010.table").
name  string optional. If specified, will be used to filter the tables returned. Substring matching is supported with "%" and "*" wildcards (e.g., "name=table%" will return both "table1" and "my table").

search  string optional. If specified, will be used to filter the tables returned. Will search across schema and name (in the full form schema.name) and will return any full name containing the search string.

limit  integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.

page_num  integer optional. Page number of the results to return. Defaults to the first page, 1.

order  string optional. The field on which to order the result set. Defaults to schema. Must be one of: schema, name, search.

order_dir  string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:

- id  integer, The ID of the table.
- databaseId  integer, The ID of the database.
- schema  string, The name of the schema containing the table.
- name  string, Name of the table.
- description  string, The description of the table, as specified by the table owner.
- isView  boolean, True if this table represents a view. False if it represents a regular table.
- rowCount  integer, The number of rows in the table.
- columnCount  integer, The number of columns in the table.
- sizeMb  number, The size of the table in megabytes.
- owner  string, The database username of the table’s owner.
- distkey  string, The column used as the Amazon Redshift distkey.
- sortkeys  string, The column used as the Amazon Redshift sortkey.
- refreshStatus  string, How up-to-date the table’s statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.
- lastRefresh  string, The time of the last statistics refresh.
- refreshId  string, The ID of the most recent statistics refresh.
- lastRun  list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
tables_list_columns

List columns in the specified table

Description

List columns in the specified table

Usage

tables_list_columns(
    id,
    name = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

id integer required.
name string optional. Search for columns with the given name, within the specified table.
limit integer optional. Number of results to return. Defaults to its maximum of 50.
page_num integer optional. Page number of the results to return. Defaults to the first page, 1.
order string optional. The field on which to order the result set. Defaults to name. Must be one of: name, order.
order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value

An array containing the following fields:
name string, Name of the column.
civisDataType string, The generic data type of the column (ex. "string"). Since this is database-agnostic, it may be helpful when loading data to R/Python.
sqlType string, The database-specific SQL type of the column (ex. "varchar(30)").
sampleValues array, A sample of values from the column.
encoding string, The compression encoding for this column See: http://docs.aws.amazon.com/redshift/latest/dg/c_Compression_encodings.html
description string, The description of the column, as specified by the table owner
order integer, Relative position of the column in the table.
minValue string, Smallest value in the column.
maxValue  string, Largest value in the column.
avgValue  number, Average value of the column, where applicable.
stddev number, Stddev of the column, where applicable.
valueDistributionPercent
  list, A mapping between each value in the column and the percentage of rows with that value. Only present for tables with fewer than approximately 25,000,000 rows and for columns with fewer than twenty distinct values.
coverageCount integer, Number of non-null values in the column.
nullCount integer, Number of null values in the column.
possibleDependentVariableTypes
  array, Possible dependent variable types the column may be used to model. Null if it may not be used as a dependent variable.
useableAsIndependentVariable boolean, Whether the column may be used as an independent variable to train a model.
useableAsPrimaryKey boolean, Whether the column may be used as an primary key to identify table rows.
valueDistribution
  list, An object mapping distinct values in the column to the number of times they appear in the column
distinctCount integer, Number of distinct values in the column.

---

**tables_list_projects**

*List the projects a Table belongs to*

---

**Description**

List the projects a Table belongs to

**Usage**

`tables_list_projects(id, hidden = NULL)`

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the Table.</td>
</tr>
<tr>
<td>hidden</td>
<td>boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.</td>
</tr>
</tbody>
</table>
### Value

An array containing the following fields:

- **id** integer, The ID for this project.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **name** string, The name of this project.
- **description** string, A description of the project.
- **users** array, An array containing the following fields:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **autoShare** boolean,
- **createdAt** string,
- **updatedAt** string,
- **archived** string, The archival status of the requested item(s).

---

### tables_patch

*Update a table*

#### Description

Update a table

#### Usage

```python
tables_patch(
    id,
    ontology_mapping = NULL,
    description = NULL,
    primary_keys = NULL,
    last_modified_keys = NULL
)
```
Arguments

id
integer required. The ID of the table.

ontology_mapping
list optional. The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.

description
string optional. The user-defined description of the table.

primary_keys
array optional. The columns comprising the primary key of this table.

last_modified_keys
array optional. The columns indicating when a row was last modified.

Value

A list containing the following elements:

id
integer, The ID of the table.

databaseId
integer, The ID of the database.

schema
string, The name of the schema containing the table.

name
string, Name of the table.

description
string, The description of the table, as specified by the table owner

isView
boolean, True if this table represents a view. False if it represents a regular table.

rowCount
integer, The number of rows in the table.

columnCount
integer, The number of columns in the table.

sizeMb
number, The size of the table in megabytes.

owner
string, The database username of the table’s owner.

distkey
string, The column used as the Amazon Redshift distkey.

sortkey
string, The column used as the Amazon Redshift sortkey.

refreshStatus
string, How up-to-date the table’s statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.

lastRefresh
string, The time of the last statistics refresh.

refreshId
string, The ID of the most recent statistics refresh.

lastRun
list, A list containing the following elements:

• id integer,
• state string,
• createdAt string, The time that the run was queued.
• startedAt string, The time that the run started.
• finishedAt string, The time that the run completed.
• error string, The error message for this run, if present.

primaryKeys
array, The primary keys for this table.

lastModifiedKeys
array, The columns indicating an entry’s modification status for this table.

ontologyMapping
list, The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.
tables_post_enhance  Run an enhancement on a table, deprecated use "POST /tables/:source_table_id/enhancements/<enhancement-type>" instead

Description

Run an enhancement on a table, deprecated use "POST /tables/:source_table_id/enhancements/<enhancement-type>" instead

Usage

tables_post_enhance(id, job_type, metadata = NULL)

Arguments

- id: integer required. ID of table to enhance
- job_type: string required. Job type
- metadata: string optional.

Value

An empty HTTP response

tables_post_enhancements_cass_ncoa  Standardize addresses in a table

Description

Standardize addresses in a table

Usage

tables_post_enhancements_cass_ncoa(
    source_table_id,
    perform_ncoa = NULL,
    ncoa_credential_id = NULL,
    output_level = NULL
)
Arguments

source_table_id
integer required. The ID of the table to be enhanced.

perform_ncoa
boolean optional. Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoa_credential_id
integer optional. Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

output_level
string optional. The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

Value

A list containing the following elements:

id
integer, The ID of the enhancement.

sourceTableId
integer, The ID of the table that was enhanced.

state
string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.

enhancedTableSchema
string, The schema name of the table created by the enhancement.

enhancedTableName
string, The name of the table created by the enhancement.

performNcoa
boolean, Whether to update addresses for records matching the National Change of Address (NCOA) database.

ncoaCredentialId
integer, Credential to use when performing NCOA updates. Required if 'performNcoa' is true.

outputLevel
string, The set of fields persisted by a CASS or NCOA enhancement. For CASS enhancements, one of 'cass' or 'all'. For NCOA enhancements, one of 'cass', 'ncoa', 'coalesced' or 'all'. By default, all fields will be returned.

---

tables_post_enhancements_geocodings

Geocode a table

Description

Geocode a table

Usage

tables_post_enhancements_geocodings(source_table_id)
Arguments

source_table_id
   integer required. The ID of the table to be enhanced.

Value

A list containing the following elements:

id       integer, The ID of the enhancement.
sourceTableId    integer, The ID of the table that was enhanced.
state    string, The state of the enhancement, one of 'queued' 'running' 'succeeded'
          'failed' or 'cancelled'.
enhancedTableSchema string, The schema name of the table created by the enhancement.
enhancedTableName  string, The name of the table created by the enhancement.

Tables_post_enhancements_prepared_matchings

Match person records against a dynamo table prepared by Civis

Description

Match person records against a dynamo table prepared by Civis

Usage

tables_post_enhancements_prepared_matchings(
   source_table_id,
   threshold,
   match_table_id,
   max_matches = NULL
)

Arguments

source_table_id
   integer required. The ID of the table to be enhanced.

threshold   number required. The confidence threshold which must be met for two individuals to be declared a match. Must be less than or equal to 1 and greater than or equal to 0.

match_table_id   integer required. The ID of the Dynamo table to match against.

max_matches   integer optional. The maximum number of individuals a person may be matched with. A value of 0 indicates that all matches should be returned.
Value

A list containing the following elements:

- **id**: integer, The ID of the enhancement.
- **sourceTableId**: integer, The ID of the table that was enhanced.
- **state**: string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **enhancedTableSchema**: string, The schema name of the table created by the enhancement.
- **enhancedTableName**: string, The name of the table created by the enhancement.
- **threshold**: number, The confidence threshold which must be met for two individuals to be declared a match. Must be less than or equal to 1 and greater than or equal to 0.
- **maxMatches**: integer, The maximum number of individuals a person may be matched with. A value of 0 indicates that all matches should be returned.
- **matchTableId**: integer, The ID of the Dynamo table to match against.

---

**tables_post_enhancements_table_matchings**

*Match person records against an arbitrary Redshift table*

---

**Description**

Match person records against an arbitrary Redshift table

**Usage**

```python
tables_post_enhancements_table_matchings(
    source_table_id,
    threshold,
    match_table_id,
    max_matches = NULL
)
```

**Arguments**

- **source_table_id**: integer required. The ID of the table to be enhanced.
- **threshold**: number required. The confidence threshold which must be met for two individuals to be declared a match. Must be less than or equal to 1 and greater than or equal to 0.
- **match_table_id**: integer required. The ID of the Redshift table to match against.
- **max_matches**: integer optional. The maximum number of individuals a person may be matched with. A value of 0 indicates that all matches should be returned.
tables_post_refresh

Value

A list containing the following elements:

- **id**: integer, The ID of the enhancement.
- **sourceTableId**: integer, The ID of the table that was enhanced.
- **state**: string, The state of the enhancement, one of 'queued' 'running' 'succeeded' 'failed' or 'cancelled'.
- **enhancedTableSchema**: string, The schema name of the table created by the enhancement.
- **enhancedTableName**: string, The name of the table created by the enhancement.
- **threshold**: number, The confidence threshold which must be met for two individuals to be declared a match. Must be less than or equal to 1 and greater than or equal to 0.
- **maxMatches**: integer, The maximum number of individuals a person may be matched with. A value of 0 indicates that all matches should be returned.
- **matchTableId**: integer, The ID of the Redshift table to match against.

---

tables_post_refresh  
Request a refresh for column and table statistics

Description

Request a refresh for column and table statistics

Usage

```
tables_post_refresh(id)
```

Arguments

- **id**: integer required.

Value

A list containing the following elements:

- **id**: integer, The ID of the table.
- **databaseId**: integer, The ID of the database.
- **schema**: string, The name of the schema containing the table.
- **name**: string, Name of the table.
- **description**: string, The description of the table, as specified by the table owner.
- **isView**: boolean, True if this table represents a view. False if it represents a regular table.
- **rowCount**: integer, The number of rows in the table.
- **columnCount**: integer, The number of columns in the table.
sizeMb: number, The size of the table in megabytes.
owner: string, The database username of the table’s owner.
distkey: string, The column used as the Amazon Redshift distkey.
sortkeys: string, The column used as the Amazon Redshift sortkey.
refreshStatus: string, How up-to-date the table’s statistics on row counts, null counts, distinct counts, and values distributions are. One of: refreshing, stale, or current.
lastRefresh: string, The time of the last statistics refresh.
refreshId: string, The ID of the most recent statistics refresh.
lastRun: list, A list containing the following elements:
  - id integer,
  - state string,
  - createdAt string, The time that the run was queued.
  - startedAt string, The time that the run started.
  - finishedAt string, The time that the run completed.
  - error string, The error message for this run, if present.
primaryKeys: array, The primary keys for this table.
lastModifiedKeys: array, The columns indicating an entry’s modification status for this table.
ontologyMapping: list, The ontology-key to column-name mapping. See /ontology for the list of valid ontology keys.
columns: array, An array containing the following fields:
  - name string, Name of the column.
  - civisDataType string, The generic data type of the column (ex. "string"). Since this is database-agnostic, it may be helpful when loading data to R/Python.
  - sqlType string, The database-specific SQL type of the column (ex. "varchar(30)").
  - sampleValues array, A sample of values from the column.
  - encoding string, The compression encoding for this column. See: http://docs.aws.amazon.com/redshift/
  - description string, The description of the column, as specified by the table owner
  - order integer, Relative position of the column in the table.
  - minValue string, Smallest value in the column.
  - maxValue string, Largest value in the column.
  - avgValue number, Average value of the column, where applicable.
  - stddev number, Stddev of the column, where applicable.
  - valueDistributionPercent object, A mapping between each value in the column and the percentage of rows with that value. Only present for tables with fewer than approximately 25,000,000 rows and for columns with fewer than twenty distinct values.
  - coverageCount integer, Number of non-null values in the column.
• nullCount integer, Number of null values in the column.
• possibleDependentVariableTypes array, Possible dependent variable types the column may be used to model. Null if it may not be used as a dependent variable.
• useableAsIndependentVariable boolean, Whether the column may be used as an independent variable to train a model.
• useableAsPrimaryKey boolean, Whether the column may be used as a primary key to identify table rows.
• valueDistribution object, An object mapping distinct values in the column to the number of times they appear in the column
• distinctCount integer, Number of distinct values in the column.

joins array, An array containing the following fields:
• id integer,
• leftTableId integer,
• leftIdentifier string,
• rightTableId integer,
• rightIdentifier string,
• on string,
• leftJoin boolean,
• createdAt string,
• updatedAt string,

multipartKey array,

enhancements array, An array containing the following fields:
• type string,
• createdAt string,
• updatedAt string,
• joinId integer,

viewDef string,

tableDef string,

outgoingTableMatches array, An array containing the following fields:
• sourceTableId integer, Source table
• targetType string, Target type
• targetId integer, Target ID
• target object,
• job object,
tables_post_scan

Creates and enqueues a single table scanner job on a new table

Description

Creates and enqueues a single table scanner job on a new table

Usage

tables_post_scan(database_id, schema, table_name, stats_priority = NULL)

Arguments

database_id: integer required. The ID of the database.
schema: string required. The name of the schema containing the table.
table_name: string required. The name of the table.
stats_priority: string optional. When to sync table statistics. Valid Options are the following. Option: 'flag' means to flag stats for the next scheduled run of a full table scan on the database. Option: 'block' means to block this job on stats syncing. Option: 'queue' means to queue a separate job for syncing stats and do not block this job on the queued job. Defaults to 'flag'.

Value

A list containing the following elements:

jobId: integer, The ID of the job created.
runId: integer, The ID of the run created.

tables_put_projects

Add a Table to a project

Description

Add a Table to a project

Usage

tables_put_projects(id, project_id)

Arguments

id: integer required. The ID of the Table.
project_id: integer required. The ID of the project.
templates_delete_reports

Archive a Report Template (deprecated, use archiving endpoints instead)

Description
 Archive a Report Template (deprecated, use archiving endpoints instead)

Usage
 templates_delete_reports(id)

Arguments
 id integer required.

Value
 An empty HTTP response

templates_delete_reports_shares_groups

Revoke the permissions a group has on this object

Description
 Revoke the permissions a group has on this object

Usage
 templates_delete_reports_shares_groups(id, group_id)

Arguments
 id integer required. The ID of the resource that is shared.
group_id integer required. The ID of the group.

Value
 An empty HTTP response
templates_delete_reports_shares_users

Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
templates_delete_reports_shares_users(id, user_id)

Arguments
id integer required. The ID of the resource that is shared.
user_id integer required. The ID of the user.

Value
An empty HTTP response

templates_delete_scripts

Archive a Script Template (deprecated, use archiving endpoints instead)

Description
Archive a Script Template (deprecated, use archiving endpoints instead)

Usage
templates_delete_scripts(id)

Arguments
id integer required.

Value
An empty HTTP response
templates_delete_scripts_projects

Remove a Script Template from a project

**Description**

Remove a Script Template from a project

**Usage**

```
templates_delete_scripts_projects(id, project_id)
```

**Arguments**

- `id` integer required. The ID of the Script Template.
- `project_id` integer required. The ID of the project.

**Value**

An empty HTTP response

templates_delete_scripts_shares_groups

Revoke the permissions a group has on this object

**Description**

Revoke the permissions a group has on this object

**Usage**

```
templates_delete_scripts_shares_groups(id, group_id)
```

**Arguments**

- `id` integer required. The ID of the resource that is shared.
- `group_id` integer required. The ID of the group.

**Value**

An empty HTTP response
templates_delete_scriptsShares_users

*Revoke the permissions a user has on this object*

**Description**
Revoke the permissions a user has on this object

**Usage**
`templates_delete_scriptsShares_users(id, user_id)`

**Arguments**
- `id` integer required. The ID of the resource that is shared.
- `user_id` integer required. The ID of the user.

**Value**
An empty HTTP response

---

**templates_get_reports  Get a Report Template**

**Description**
Get a Report Template

**Usage**
`templates_get_reports(id)`

**Arguments**
- `id` integer required.

**Value**
A list containing the following elements:
- `id` integer,
- `name` string, The name of the template,
- `category` string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
- `createdAt` string,
templates_get_scripts

Description

Get a Script Template

Usage

templates_get_scripts(id)

Arguments

id integer required.

Value

A list containing the following elements:

id integer,
scriptId integer, The id of the script that this template uses.
scriptType string, The type of the template’s backing script (e.g SQL, Container, Python, R, JavaScript)
userContext string, The user context of the script that this template uses.
name string, The name of the template.
category string, The category of this template.
templates_list_reports

List Report Templates

Description

List Report Templates

Usage

```python
templates_list_reports(
    hidden = NULL,
    category = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>hidden</td>
<td>boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.</td>
</tr>
<tr>
<td>category</td>
<td>string optional. A category to filter results by, one of: dataset-viz</td>
</tr>
<tr>
<td>limit</td>
<td>integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.</td>
</tr>
<tr>
<td>page_num</td>
<td>integer optional. Page number of the results to return. Defaults to the first page, 1.</td>
</tr>
<tr>
<td>order</td>
<td>string optional. The field on which to order the result set. Defaults to name. Must be one of: name, updated_at, created_at.</td>
</tr>
<tr>
<td>order_dir</td>
<td>string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.</td>
</tr>
</tbody>
</table>
templates_list_reports_shares

Value

An array containing the following fields:

- **id** integer,
- **name** string, The name of the template.
- **category** string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
- **createdAt** string,
- **updatedAt** string,
- **useCount** integer, The number of uses of this template.
- **archived** boolean, Whether the template has been archived.
- **author** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **techReviewed** boolean, Whether this template has been audited by Civis for security vulnerability and correctness.

templates_list_reports_shares

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

templates_list_reports_shares(id)

Arguments

- **id** integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

- **readers** list, A list containing the following elements:
  - **users** array,
  - **groups** array,
writers list, A list containing the following elements:
  • users array,
  • groups array,
owners list, A list containing the following elements:
  • users array,
  • groups array,
totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

templates_list_scripts

List Script Templates

Description
List Script Templates

Usage
templates_list_scripts(
  hidden = NULL,
  category = NULL,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)

Arguments

hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.
category string optional. A category to filter results by, one of: import, export, enhancement, model, and script
limit integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
page_num integer optional. Page number of the results to return. Defaults to the first page, 1.
order string optional. The field on which to order the result set. Defaults to name. Must be one of: name, updated_at, created_at.
order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.
Value

An array containing the following fields:

- **id**: integer,
- **scriptId**: integer, The id of the script that this template uses.
- **userContext**: string, The user context of the script that this template uses.
- **name**: string, The name of the template.
- **category**: string, The category of this template.
- **createdAt**: string,
- **updatedAt**: string,
- **useCount**: integer, The number of uses of this template.
- **uiReportId**: integer, The id of the report that this template uses.
- **techReviewed**: boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
- **archived**: boolean, Whether the template has been archived.

---

templates_list_scripts_projects

*List the projects a Script Template belongs to*

Description

List the projects a Script Template belongs to

Usage

```r
templates_list_scripts_projects(id, hidden = NULL)
```

Arguments

- **id**: integer required. The ID of the Script Template.
- **hidden**: boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value

An array containing the following fields:

- **id**: integer, The ID for this project.
- **author**: list, A list containing the following elements:
  - **id**: integer, The ID of this user.
  - **name**: string, This user’s name.
  - **username**: string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).

templates_list_scripts_shares

List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

templates_list_scripts_shares(id)

Arguments

id integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
templates_patch_reports

Update some attributes of this Report Template

Description
Update some attributes of this Report Template

Usage

```r
templates_patch_reports(
  id,
  name = NULL,
  category = NULL,
  archived = NULL,
  code_body = NULL,
  provide_api_key = NULL
)
```

Arguments

- **id** integer required.
- **name** string optional. The name of the template.
- **category** string optional. The category of this report template. Can be left blank. Acceptable values are: dataset-viz
- **archived** boolean optional. Whether the template has been archived.
- **code_body** string optional. The code for the Template body.
- **provide_api_key** boolean optional. Whether reports based on this template request an API Key from the report viewer.

Value

A list containing the following elements:

- **id** integer,
- **name** string, The name of the template.

• groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
templates_patch_scripts

Update some attributes of this Script Template

Description

Update some attributes of this Script Template

Usage

templates_patch_scripts(
    id,
    name = NULL,
    note = NULL,
    ui_report_id = NULL,
    archived = NULL
)

Arguments

id integer required.
name string optional. The name of the template.
note string optional. A note describing what this template is used for; custom scripts
created off this template will display this description.
ui_report_id integer optional. The id of the report that this template uses.
archived boolean optional. Whether the template has been archived.
Value

A list containing the following elements:

- **id**: integer,
- **scriptId**: integer, The id of the script that this template uses.
- **scriptType**: string, The type of the template’s backing script (e.g SQL, Container, Python, R, JavaScript)
- **userContext**: string, The user context of the script that this template uses.
- **name**: string, The name of the template.
- **category**: string, The category of this template.
- **note**: string, A note describing what this template is used for; custom scripts created off this template will display this description.
- **createdAt**: string,
- **updatedAt**: string,
- **useCount**: integer, The number of uses of this template.
- **uiReportId**: integer, The id of the report that this template uses.
- **techReviewed**: boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
- **archived**: boolean, Whether the template has been archived.
- **hidden**: boolean, The hidden status of the item.

---

**templates_post_reports**

*Create a Report Template*

---

Description

Create a Report Template

Usage

```python
templates_post_reports(
    name,
    code_body,
    category = NULL,
    archived = NULL,
    provide_api_key = NULL,
    hidden = NULL
)
```
Arguments

- **name**
  - string required. The name of the template.

- **code_body**
  - string required. The code for the Template body.

- **category**
  - string optional. The category of this report template. Can be left blank. Acceptable values are: dataset-viz

- **archived**
  - boolean optional. Whether the template has been archived.

- **provide_api_key**
  - boolean optional. Whether reports based on this template request an API Key from the report viewer.

- **hidden**
  - boolean optional. The hidden status of the item.

Value

A list containing the following elements:

- **id**
  - integer,

- **name**
  - string, The name of the template.

- **category**
  - string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz

- **createdAt**
  - string,

- **updatedAt**
  - string,

- **useCount**
  - integer, The number of uses of this template.

- **archived**
  - boolean, Whether the template has been archived.

- **author**
  - list, A list containing the following elements:
    - **id** integer, The ID of this user.
    - **name** string, This user’s name.
    - **username** string, This user’s username.
    - **initials** string, This user’s initials.
    - **online** boolean, Whether this user is online.

- **techReviewed**
  - boolean, Whether this template has been audited by Civis for security vulnerability and correctness.

- **authCodeUrl**
  - string, A URL to the template’s stored code body.

- **provideAPIKey**
  - boolean, Whether reports based on this template request an API Key from the report viewer.

- **hidden**
  - boolean, The hidden status of the item.
Review a template for security vulnerability and correctness (admin-only)

Usage

```
templates_post_reports_review(id, status)
```

Arguments

- **id**: integer required. The ID of the item.
- **status**: boolean required. Whether this item has been reviewed.

Value

A list containing the following elements:

- **id**: integer,
- **name**: string, The name of the template.
- **category**: string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
- **createdAt**: string,
- **updatedAt**: string,
- **useCount**: integer, The number of uses of this template.
- **archived**: boolean, Whether the template has been archived.
- **author**: list, A list containing the following elements:
  - id integer, The ID of this user.
  - name string, This user’s name.
  - username string, This user’s username.
  - initials string, This user’s initials.
  - online boolean, Whether this user is online.
- **techReviewed**: boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
- **authCodeUrl**: string, A URL to the template’s stored code body.
- **provideAPIKey**: boolean, Whether reports based on this template request an API Key from the report viewer.
- **hidden**: boolean, The hidden status of the item.
Create a Script Template

Usage

templates_post_scripts(
    script_id,
    name,
    note = NULL,
    ui_report_id = NULL,
    archived = NULL,
    hidden = NULL
)

Arguments

    script_id          integer required. The id of the script that this template uses.
    name               string required. The name of the template.
    note               string optional. A note describing what this template is used for; custom scripts
                        created off this template will display this description.
    ui_report_id       integer optional. The id of the report that this template uses.
    archived           boolean optional. Whether the template has been archived.
    hidden             boolean optional. The hidden status of the item.

Value

A list containing the following elements:

    id               integer,
    scriptId         integer, The id of the script that this template uses.
    scriptType       string, The type of the template’s backing script (e.g SQL, Container, Python, R, JavaScript)
    userContext      string, The user context of the script that this template uses.
    name             string, The name of the template.
    category         string, The category of this template.
    note             string, A note describing what this template is used for; custom scripts created
                        off this template will display this description.
    createdAt        string,
templates_post_scripts_review

Review a template for security vulnerability and correctness (admin-only)

Usage

templates_post_scripts_review(id, status)

Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID of the item.</td>
</tr>
<tr>
<td>status</td>
<td>boolean required. Whether this item has been reviewed.</td>
</tr>
</tbody>
</table>

Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Element</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer,</td>
</tr>
<tr>
<td>scriptId</td>
<td>integer, The id of the script that this template uses.</td>
</tr>
<tr>
<td>scriptType</td>
<td>string, The type of the template’s backing script (e.g SQL, Container, Python, R, JavaScript)</td>
</tr>
<tr>
<td>userContext</td>
<td>string, The user context of the script that this template uses.</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of the template.</td>
</tr>
<tr>
<td>category</td>
<td>string, The category of this template.</td>
</tr>
<tr>
<td>note</td>
<td>string, A note describing what this template is used for; custom scripts created off this template will display this description.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string,</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string,</td>
</tr>
<tr>
<td>useCount</td>
<td>integer, The number of uses of this template.</td>
</tr>
<tr>
<td>uiReportId</td>
<td>integer, The id of the report that this template uses.</td>
</tr>
</tbody>
</table>
techReviewed  boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
archived  boolean, Whether the template has been archived.
hidden  boolean, The hidden status of the item.

---

**templates_put_reports**  
*Replace all attributes of this Report Template*

---

**Description**

Replace all attributes of this Report Template

**Usage**

```python
templates_put_reports(
    id,
    name,
    code_body,
    category = NULL,
    archived = NULL,
    provide_api_key = NULL
)
```

**Arguments**

- **id**  integer required.
- **name**  string required. The name of the template.
- **code_body**  string required. The code for the Template body.
- **category**  string optional. The category of this report template. Can be left blank. Acceptable values are: dataset-viz
- **archived**  boolean optional. Whether the template has been archived.
- **provide_api_key**  boolean optional. Whether reports based on this template request an API Key from the report viewer.

**Value**

A list containing the following elements:

- **id**  integer,
- **name**  string, The name of the template.
- **category**  string, The category of this report template. Can be left blank. Acceptable values are: dataset-viz
- **createdAt**  string,
templates_put_reports_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

```python
templates_put_reports_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

- **id** integer required. The ID of the resource that is shared.
- **group_ids** array required. An array of one or more group IDs.
- **permission_level** string required. Options are: "read", "write", or "manage".
- **share_email_body** string optional. Custom body text for e-mail sent on a share.
- **send_shared_email** boolean optional. Send email to the recipients of a share.
Value
A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

templates_put_reports_shares_users

Set the permissions users have on this object

Description
Set the permissions users have on this object

Usage

templates_put_reports_shares_users(
  id,
  user_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.
user_ids array required. An array of one or more user IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.
templates_put_scripts

Value

A list containing the following elements:

- **readers** list, A list containing the following elements:
  - users array,
  - groups array,

- **writers** list, A list containing the following elements:
  - users array,
  - groups array,

- **owners** list, A list containing the following elements:
  - users array,
  - groups array,

- **totalUserShares** integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

- **totalGroupShares** integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

templates_put_scripts  Replace all attributes of this Script Template

Description

Replace all attributes of this Script Template

Usage

```r

templates_put_scripts(
  id,
  name,
  note = NULL,
  ui_report_id = NULL,
  archived = NULL
)
```

Arguments

- **id** integer required.
- **name** string required. The name of the template.
- **note** string optional. A note describing what this template is used for; custom scripts created off this template will display this description.
- **ui_report_id** integer optional. The id of the report that this template uses.
- **archived** boolean optional. Whether the template has been archived.
Value

A list containing the following elements:

- `id` integer,
- `scriptId` integer, The id of the script that this template uses.
- `scriptType` string, The type of the template’s backing script (e.g SQL, Container, Python, R, JavaScript)
- `userContext` string, The user context of the script that this template uses.
- `name` string, The name of the template.
- `category` string, The category of this template.
- `note` string, A note describing what this template is used for; custom scripts created off this template will display this description.
- `createdAt` string,
- `updatedAt` string,
- `useCount` integer, The number of uses of this template.
- `uiReportId` integer, The id of the report that this template uses.
- `techReviewed` boolean, Whether this template has been audited by Civis for security vulnerability and correctness.
- `archived` boolean, Whether the template has been archived.
- `hidden` boolean, The hidden status of the item.

templates_put_scripts_projects

Add a Script Template to a project

Description

Add a Script Template to a project

Usage

templates_put_scripts_projects(id, project_id)

Arguments

- `id` integer required. The ID of the Script Template.
- `project_id` integer required. The ID of the project.

Value

An empty HTTP response
templates_put_scripts_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

```python
templates_put_scripts_shares_groups(
    id,
    group_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)
```

Arguments

- `id` integer required. The ID of the resource that is shared.
- `group_ids` array required. An array of one or more group IDs.
- `permission_level` string required. Options are: "read", "write", or "manage".
- `share_email_body` string optional. Custom body text for e-mail sent on a share.
- `send_shared_email` boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

- `readers` list, A list containing the following elements:
  - `users` array,
  - `groups` array,
- `writers` list, A list containing the following elements:
  - `users` array,
  - `groups` array,
- `owners` list, A list containing the following elements:
  - `users` array,
  - `groups` array,
- `totalUserShares` integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
templates_put_scripts_shares_users

Set the permissions users have on this object

Description
Set the permissions users have on this object

Usage
templates_put_scripts_shares_users(
    id,
    user_ids,
    permission_level,
    share_email_body = NULL,
    send_shared_email = NULL
)

Arguments
id  integer required. The ID of the resource that is shared.
user_ids  array required. An array of one or more user IDs.
permission_level  string required. Options are: "read", "write", or "manage".
share_email_body  string optional. Custom body text for e-mail sent on a share.
send_shared_email  boolean optional. Send email to the recipients of a share.

Value
A list containing the following elements:
readers  list, A list containing the following elements:
    • users array,
    • groups array,
writers  list, A list containing the following elements:
    • users array,
    • groups array,
owners  list, A list containing the following elements:
    • users array,
groups array,

### totalUserShares
- integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

### totalGroupShares
- integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

### transfer_table

Transfer a table from one location to another.

#### Description
Transfer a table from one location to another.

#### Usage

def transfer_table(
    source_db,
    dest_db,
    source_table,
    dest_table,
    job_name = NULL,
    source_credential_id = NULL,
    dest_credential_id = NULL,
    interval = NULL,
    verbose = FALSE,
    advanced_options = NULL
)

#### Arguments
- **source_db**: string or int, The name of the database where the source table is located. Optionally, could be the database ID.
- **dest_db**: string or int, The name of the database where the table will be transferred. Optionally, could be the database ID.
- **source_table**: string, Full name of the table to transfer, e.g., "schema.table".
- **dest_table**: string, Full name of the table in the destination database, e.g., "schema.table".
- **job_name**: string, optional, A name to give the job. If omitted, a random job name will be used.
- **source_credential_id**: string or int, Optional credential ID for the source database. If NULL, the default credential will be used.
- **dest_credential_id**: string or int, Optional credential ID for the source database. If NULL, the default credential will be used.
users_delete_api_keys  *Revoke the specified API key*

**Description**

Revoke the specified API key

**Usage**

```r
users_delete_api_keys(id, key_id)
```

**Arguments**

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>id</code></td>
<td>string required. The ID of the user or 'me'.</td>
</tr>
<tr>
<td><code>key_id</code></td>
<td>integer required. The ID of the API key.</td>
</tr>
</tbody>
</table>

**Value**

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>id</code></td>
<td>integer, The ID of the API key.</td>
</tr>
<tr>
<td><code>name</code></td>
<td>string, The name of the API key.</td>
</tr>
<tr>
<td><code>expiresAt</code></td>
<td>string, The date and time when the key expired.</td>
</tr>
<tr>
<td><code>createdAt</code></td>
<td>string, The date and time when the key was created.</td>
</tr>
<tr>
<td><code>revokedAt</code></td>
<td>string, The date and time when the key was revoked.</td>
</tr>
</tbody>
</table>
**users_delete_me_favorites**

Unfavorite an item

---

**Description**

Unfavorite an item

**Usage**

`users_delete_me_favorites(id)`

**Arguments**

- `id` integer required. The id of the favorite.

**Value**

An empty HTTP response
**Description**
Show info about a user

**Usage**
users_get(id)

**Arguments**
id integer required. The ID of this user.

**Value**
A list containing the following elements:

- **id** integer, The ID of this user.
- **user** string, The username of this user.
- **name** string, The name of this user.
- **email** string, The email of this user.
- **active** boolean, The account status of this user.
- **primaryGroupId** integer, The ID of the primary group of this user.
- **groups** array, An array containing the following fields:
  - **id** integer, The ID of this group.
  - **name** string, The name of this group.
  - **organizationId** integer, The organization associated with this group.
- **city** string, The city of this user.
- **state** string, The state of this user.
- **timeZone** string, The time zone of this user.
- **initials** string, The initials of this user.
- **department** string, The department of this user.
- **title** string, The title of this user.
- **githubUsername** string, The GitHub username of this user.
- **prefersSmsOtp** boolean, The preference for phone authorization of this user.
- **vpnEnabled** boolean, The availability of vpn for this user.
- **ssoDisabled** boolean, The availability of SSO for this user.
- **otpRequiredForLogin** boolean, The two factor authentication requirement for this user.
users_get_api_keys

exemptFromOrgSmsOtpDisabled
   boolean, Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.

smsOtpAllowed
   boolean, Whether the user is allowed to receive two factor authentication codes via SMS.

robot
   boolean, Whether the user is a robot.

phone
   string, The phone number of this user.

organizationSlug
   string, The slug of the organization the user belongs to.

organizationSSODisableCapable
   boolean, The user’s organization’s ability to disable sso for their users.

organizationLoginType
   string, The user’s organization’s login type.

organizationSmsOtpDisabled
   boolean, Whether the user’s organization has SMS OTP disabled.

users_get_api_keys  Show the specified API key

Description
Show the specified API key

Usage
users_get_api_keys(id, key_id)

Arguments
   id
      string required. The ID of the user or ‘me’.
   key_id
      integer required. The ID of the API key.

Value
A list containing the following elements:
   id
      integer, The ID of the API key.
   name
      string, The name of the API key.
   expiresAt
      string, The date and time when the key expired.
   createdAt
      string, The date and time when the key was created.
   revokedAt
      string, The date and time when the key was revoked.
   lastUsedAt
      string, The date and time when the key was last used.
   scopes
      array, The scopes which the key is permissioned on.
   useCount
      integer, The number of times the key has been used.
users_list

Description

List users

Usage

users_list(
    feature_flag = NULL,
    account_status = NULL,
    query = NULL,
    group_id = NULL,
    organization_id = NULL,
    exclude_groups = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

feature_flag  string optional. Return users that have a feature flag enabled.
account_status string optional. The account status by which to filter users. May be one of "active", "inactive", or "all".
query         string optional. Return users who match the given query, based on name, user, and email.
group_id      integer optional. The ID of the group by which to filter users. Cannot be present if organization_id is.

expired  boolean, True if the key has expired.
active   boolean, True if the key has neither expired nor been revoked.
constraints array, An array containing the following fields:
    - constraint string, The path matcher of the constraint.
    - constraintType string, The type of constraint (exact/prefix/regex/verb).
    - getAllowed boolean, Whether the constraint allows GET requests.
    - headAllowed boolean, Whether the constraint allows HEAD requests.
    - postAllowed boolean, Whether the constraint allows POST requests.
    - putAllowed boolean, Whether the constraint allows PUT requests.
    - patchAllowed boolean, Whether the constraint allows PATCH requests.
    - deleteAllowed boolean, Whether the constraint allows DELETE requests.
organization_id
integer optional. The ID of the organization by which to filter users. Cannot be present if group_id is.

exclude_groups
boolean optional. Whether or to exclude users’ groups. Default: false.

limit
integer optional. Number of results to return. Defaults to 20. Maximum allowed is 10000.

page_num
integer optional. Page number of the results to return. Defaults to the first page, 1.

order
string optional. The field on which to order the result set. Defaults to name. Must be one of: name, user.

order_dir
string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to asc.

Value
An array containing the following fields:

id
integer, The ID of this user.

user
string, The username of this user.

name
string, The name of this user.

email
string, The email of this user.

active
boolean, The account status of this user.

primaryGroupId
integer, The ID of the primary group of this user.

groups
array, An array containing the following fields:
  • id integer, The ID of this group.
  • name string, The name of this group.
  • organizationId integer, The organization associated with this group.

createdAt
string, The date and time when the user was created.

currentSignInAt
string, The date and time when the user’s current session began.

users_list_api_keys

Show API keys belonging to the specified user

Description
Show API keys belonging to the specified user

Usage

users_list_api_keys(id,
  limit = NULL,
  page_num = NULL,
  order = NULL,
  order_dir = NULL
)
Arguments

id                  string required. The ID of the user or 'me'.
limit              integer optional. Number of results to return. Defaults to its maximum of 50.
page_num           integer optional. Page number of the results to return. Defaults to the first page, 1.
order              string optional. The field on which to order the result set. Defaults to id. Must be one of: id.
order_dir          string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id                  integer, The ID of the API key.
name                string, The name of the API key.
expiresAt           string, The date and time when the key expired.
createdAt           string, The date and time when the key was created.
revokedAt           string, The date and time when the key was revoked.
lastUsedAt          string, The date and time when the key was last used.
scopes              array, The scopes which the key is permissioned on.
useCount            integer, The number of times the key has been used.
expired             boolean, True if the key has expired.
active              boolean, True if the key has neither expired nor been revoked.
constraintCount     integer, The number of constraints on the created key

users_list_me       Show info about the logged-in user

Description

Show info about the logged-in user

Usage

users_list_me()
Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID of this user.</td>
</tr>
<tr>
<td>name</td>
<td>string, This user's name.</td>
</tr>
<tr>
<td>email</td>
<td>string, This user's email address.</td>
</tr>
<tr>
<td>username</td>
<td>string, This user's username.</td>
</tr>
<tr>
<td>initials</td>
<td>string, This user's initials.</td>
</tr>
<tr>
<td>lastCheckedAnnouncements</td>
<td>string, The date and time at which the user last checked their announcements.</td>
</tr>
<tr>
<td>featureFlags</td>
<td>list, The feature flag settings for this user.</td>
</tr>
<tr>
<td>roles</td>
<td>array, The roles this user has, listed by slug.</td>
</tr>
<tr>
<td>preferences</td>
<td>list, This user’s preferences.</td>
</tr>
<tr>
<td>customBranding</td>
<td>string, The branding of Platform for this user.</td>
</tr>
<tr>
<td>groups</td>
<td>array, An array containing the following fields:</td>
</tr>
<tr>
<td></td>
<td>- id integer, The ID of this group.</td>
</tr>
<tr>
<td></td>
<td>- name string, The name of this group.</td>
</tr>
<tr>
<td></td>
<td>- organizationId integer, The organization associated with this group.</td>
</tr>
<tr>
<td>organizationName</td>
<td>string, The name of the organization the user belongs to.</td>
</tr>
<tr>
<td>organizationSlug</td>
<td>string, The slug of the organization the user belongs to.</td>
</tr>
<tr>
<td>organizationDefaultThemeId</td>
<td>integer, The ID of the organizations’s default theme.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string, The date and time when the user was created.</td>
</tr>
<tr>
<td>signInCount</td>
<td>integer, The number of times the user has signed in.</td>
</tr>
<tr>
<td>assumingRole</td>
<td>boolean, Whether the user is assuming a role or not.</td>
</tr>
<tr>
<td>assumingAdmin</td>
<td>boolean, Whether the user is assuming admin.</td>
</tr>
<tr>
<td>assumingAdminExpiration</td>
<td>string, When the user’s admin role is set to expire.</td>
</tr>
</tbody>
</table>

Description

List Favorites
Usage

```python
users_list_me_favorites(
    object_id = NULL,
    object_type = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
```

Arguments

- **object_id** integer optional. The id of the object. If specified as a query parameter, must also specify object_type parameter.
- **object_type** string optional. The type of the object that is favorited. Valid options: Project
- **limit** integer optional. Number of results to return. Defaults to 50. Maximum allowed is 1000.
- **page_num** integer optional. Page number of the results to return. Defaults to the first page, 1.
- **order** string optional. The field on which to order the result set. Defaults to created_at. Must be one of: created_at, object_type, object_id.
- **order_dir** string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

- **id** integer, The id of the favorite.
- **objectId** integer, The id of the object. If specified as a query parameter, must also specify object_type parameter.
- **objectType** string, The type of the object that is favorited. Valid options: Project
- **objectName** string, The name of the object that is favorited.
- **createdAt** string, The time this favorite was created.

---

**users_list_me_ui** *UI configuration for logged-in user*

Description

UI configuration for logged-in user

Usage

```python
users_list_me_ui()
```
Value

A list containing the following elements:

- id: integer, The ID of this user.
- navigationMenus: list, Navigation menus visible to this user.
- userMenus: list, User profile menu items available to this user.
- userType: list, A list containing the following elements:
  - vendor: boolean, True if this user is a member of any groups with a vendor ID.
  - media: boolean, True if user has access to the Media Optimizer job type.
  - mainApp: string, The slug for the main app for an app-only user account.
  - appCount: integer, Number of apps this user has access to.
  - reportsOnly: boolean, True if user is a reports-only user.
  - reportsCreator: boolean, True if this user is allowed to create HTML reports.
- zendeskToken: string, JSON web token for this user’s Zendesk widget.

users_patch

Update info about a user (must be an admin or client user admin)

Description

Update info about a user (must be an admin or client user admin)

Usage

users_patch(
  id,
  name = NULL,
  email = NULL,
  active = NULL,
  primary_group_id = NULL,
  city = NULL,
  state = NULL,
  time_zone = NULL,
  initials = NULL,
  department = NULL,
  title = NULL,
  prefers_sms_otp = NULL,
  group_ids = NULL,
  vpn_enabled = NULL,
  sso_disabled = NULL,
  otp_required_for_login = NULL,
  exempt_from_org_sms_otp_disabled = NULL,
robot = NULL,
phone = NULL,
password = NULL
)

Arguments

id  integer required. The ID of this user.
name  string optional. The name of this user.
email  string optional. The email of this user.
active  boolean optional. The account status of this user.
primary_group_id  integer optional. The ID of the primary group of this user.
city  string optional. The city of this user.
state  string optional. The state of this user.
time_zone  string optional. The time zone of this user.
initials  string optional. The initials of this user.
department  string optional. The department of this user.
title  string optional. The title of this user.
prefers_sms_otp  boolean optional. The preference for phone authorization of this user
group_ids  array optional. An array of ids of all the groups this user is in.
vpn_enabled  boolean optional. The availability of vpn for this user.
sso_disabled  boolean optional. The availability of SSO for this user.
otp_required_for_login  boolean optional. The two factor authentication requirement for this user.
exempt_from_org_sms_otp_disabled  boolean optional. Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.
robot  boolean optional. Whether the user is a robot.
phone  string optional. The phone number of this user.
password  string optional. The password of this user.

Value

A list containing the following elements:

id  integer, The ID of this user.
user  string, The username of this user.
name  string, The name of this user.
email  string, The email of this user.
active  boolean, The account status of this user.
users_patch

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primaryGroupId integer, The ID of the primary group of this user.
groups

array, An array containing the following fields:
• id integer, The ID of this group.
• name string, The name of this group.
• organizationId integer, The organization associated with this group.

city

string, The city of this user.

state

string, The state of this user.

timeZone

string, The time zone of this user.

initials

string, The initials of this user.

department

string, The department of this user.

title

string, The title of this user.

githubUsername string, The GitHub username of this user.
prefersSmsOtp

boolean, The preference for phone authorization of this user

vpnEnabled

boolean, The availability of vpn for this user.

ssoDisabled

boolean, The availability of SSO for this user.

otpRequiredForLogin
boolean, The two factor authentication requirement for this user.
exemptFromOrgSmsOtpDisabled
boolean, Whether the user has SMS OTP enabled on an individual level. This
field does not matter if the org does not have SMS OTP disabled.
smsOtpAllowed

boolean, Whether the user is allowed to receive two factor authentication codes
via SMS.

robot

boolean, Whether the user is a robot.

phone

string, The phone number of this user.

organizationSlug
string, The slug of the organization the user belongs to.
organizationSSODisableCapable
boolean, The user’s organization’s ability to disable sso for their users.
organizationLoginType
string, The user’s organization’s login type.
organizationSmsOtpDisabled
boolean, Whether the user’s organization has SMS OTP disabled.


users_patch_me

Update info about the logged-in user

Description

Update info about the logged-in user

Usage

users_patch_me(preferences = NULL, last_checked_announcements = NULL)

Arguments

preferences  list optional. A list containing the following elements:

• appIndexOrderField string, Order field for the apps index pages.
• appIndexOrderDir string, Order direction for the apps index pages.
• resultIndexOrderField string, Order field for the results index page.
• resultIndexOrderDir string, Order direction for the results index page.
• resultIndexTypeFilter string, Type filter for the results index page.
• resultIndexAuthorFilter string, Author filter for the results index page.
• resultIndexArchivedFilter string, Archived filter for the results index page.
• importIndexOrderField string, Order field for the imports index page.
• importIndexOrderDir string, Order direction for the imports index page.
• importIndexTypeFilter string, Type filter for the imports index page.
• importIndexAuthorFilter string, Author filter for the imports index page.
• importIndexDestFilter string, Destination filter for the imports index page.
• importIndexStatusFilter string, Status filter for the imports index page.
• importIndexArchivedFilter string, Archived filter for the imports index page.
• exportIndexOrderField string, Order field for the exports index page.
• exportIndexOrderDir string, Order direction for the exports index page.
• exportIndexTypeFilter string, Type filter for the exports index page.
• exportIndexAuthorFilter string, Author filter for the exports index page.
• exportIndexStatusFilter string, Status filter for the exports index page.
• modelIndexOrderField string, Order field for the models index page.
• modelIndexOrderDir string, Order direction for the models index page.
• modelIndexAuthorFilter string, Author filter for the models index page.
• modelIndexStatusFilter string, Status filter for the models index page.
• modelIndexArchivedFilter string, Archived filter for the models index page.
• modelIndexThumbnailView string, Thumbnail view for the models index page.
• scriptIndexOrderField string, Order field for the scripts index page.
• scriptIndexOrderDir string, Order direction for the scripts index page.
• scriptIndexTypeFilter string, Type filter for the scripts index page.
• scriptIndexAuthorFilter string, Author filter for the scripts index page.
• scriptIndexStatusFilter string, Status filter for the scripts index page.
• scriptIndexArchivedFilter string, Archived filter for the scripts index page.
• projectIndexOrderField string, Order field for the projects index page.
• projectIndexOrderDir string, Order direction for the projects index page.
• projectIndexAuthorFilter string, Author filter for the projects index page.
• projectIndexArchivedFilter string, Archived filter for the projects index page.
• reportIndexThumbnailView string, Thumbnail view for the reports index page.
• projectDetailOrderField string, Order field for projects detail pages.
• projectDetailOrderDir string, Order direction for projects detail pages.
• projectDetailAuthorFilter string, Author filter for projects detail pages.
• projectDetailTypeFilter string, Type filter for projects detail pages.
• projectDetailArchivedFilter string, Archived filter for the projects detail pages.
• enhancementIndexOrderField string, Order field for the enhancements index page.
• enhancementIndexOrderDir string, Order direction for the enhancements index page.
• enhancementIndexAuthorFilter string, Author filter for the enhancements index page.
• enhancementIndexArchivedFilter string, Archived filter for the enhancements index page.
• preferredServerId integer, ID of preferred server.
• civisExploreSkipIntro boolean, Whether the user is shown steps for each exploration.
• registrationIndexOrderField string, Order field for the registrations index page.
• registrationIndexOrderDir string, Order direction for the registrations index page.
• registrationIndexStatusFilter string, Status filter for the registrations index page.
• upgradeRequested string, Whether a free trial upgrade has been requested.
• welcomeOrderField string, Order direction for the welcome page.
• welcomeOrderDir string, Order direction for the welcome page.
• welcomeAuthorFilter string, Status filter for the welcome page.
• welcomeStatusFilter string, Status filter for the welcome page.
• welcomeArchivedFilter string, Status filter for the welcome page.
• dataPaneWidth string, Width of the data pane when expanded.
• dataPaneCollapsed string, Whether the data pane is collapsed.
• notebookOrderField string, Order field for the notebooks page.
• notebookOrderDir string, Order direction for the notebooks page.
• notebookAuthorFilter string, Author filter for the notebooks page.
• notebookArchivedFilter string, Archived filter for the notebooks page.
• notebookStatusFilter string, Status filter for the notebooks page.
• workflowIndexOrderField string, Order field for the workflows page.
• workflowIndexOrderDir string, Order direction for the workflows page.
• workflowIndexAuthorFilter string, Author filter for the workflows page.
• serviceOrderField string, Order field for the services page.
• serviceOrderDir string, Order direction for the services page.
• serviceAuthorFilter string, Author filter for the services page.
• serviceArchivedFilter string, Archived filter for the services page.

last_checked_announcements
  string optional. The date and time at which the user last checked their announcements.

Value

A list containing the following elements:

id integer, The ID of this user.
name string, This user’s name.
email string, This user’s email address.
username string, This user’s username.
initials string, This user’s initials.
lastCheckedAnnouncements
  string, The date and time at which the user last checked their announcements.

featureFlags list, The feature flag settings for this user.
roles array, The roles this user has, listed by slug.
preferences list, This user’s preferences.

customBranding string, The branding of Platform for this user.
groups array, An array containing the following fields:
  • id integer, The ID of this group.
  • name string, The name of this group.
  • organizationId integer, The organization associated with this group.

organizationName string, The name of the organization the user belongs to.
organizationSlug string, The slug of the organization the user belongs to.
organizationDefaultThemeId integer, The ID of the organization’s default theme.
createdAt string, The date and time when the user was created.
signInCount integer, The number of times the user has signed in.
asumingRole boolean, Whether the user is assuming a role or not.
asumingAdmin boolean, Whether the user is assuming admin.
asumingAdminExpiration string, When the user’s admin role is set to expire.
users_post

Create a new user (must be an admin or client user admin)

Description

Create a new user (must be an admin or client user admin)

Usage

```python
users_post(
    name,  # string required. The name of this user.
    email,  # string required. The email of this user.
    primary_group_id,  # integer required. The ID of the primary group of this user.
    user,  # string required. The username of this user.
    active = NULL,  # boolean optional. The account status of this user.
    city = NULL,  # string optional. The city of this user.
    state = NULL,  # string optional. The state of this user.
    time_zone = NULL,  # string optional. The time zone of this user.
    initials = NULL,  # string optional. The initials of this user.
    department = NULL,  # string optional. The department of this user.
    title = NULL,  # string optional. The title of this user.
    prefers_sms_otp = NULL,  # boolean optional. The account status of this user.
    group_ids = NULL,  # string optional. The group IDs of this user.
    vpn_enabled = NULL,  # boolean optional. The account status of this user.
    sso_disabled = NULL,  # boolean optional. The account status of this user.
    exempt_from_org_sms_otp_disabled = NULL,  # boolean optional. The account status of this user.
    robot = NULL,  # boolean optional. The account status of this user.
    send_email = NULL
)
```

Arguments

- **name**: string required. The name of this user.
- **email**: string required. The email of this user.
- **primary_group_id**: integer required. The ID of the primary group of this user.
- **user**: string required. The username of this user.
- **active**: boolean optional. The account status of this user.
- **city**: string optional. The city of this user.
- **state**: string optional. The state of this user.
- **time_zone**: string optional. The time zone of this user.
- **initials**: string optional. The initials of this user.
- **department**: string optional. The department of this user.
title string optional. The title of this user.
prefers_sms_otp boolean optional. The preference for phone authorization of this user
group_ids array optional. An array of ids of all the groups this user is in.
vpn_enabled boolean optional. The availability of vpn for this user.
sso_disabled boolean optional. The availability of SSO for this user.
otp_required_for_login boolean optional. The two factor authentication requirement for this user.
exempt_from_org_sms_otp_disabled boolean optional. Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.
robot boolean optional. Whether the user is a robot.
send_email boolean optional. Whether the user will receive a welcome email.

Value
A list containing the following elements:

id integer, The ID of this user.
user string, The username of this user.
name string, The name of this user.
email string, The email of this user.
active boolean, The account status of this user.
primaryGroupId integer, The ID of the primary group of this user.
groups array, An array containing the following fields:

• id integer, The ID of this group.
• name string, The name of this group.
• organizationId integer, The organization associated with this group.
city string, The city of this user.
state string, The state of this user.
timeZone string, The time zone of this user.
initials string, The initials of this user.
department string, The department of this user.
title string, The title of this user.
githubUsername string, The GitHub username of this user.
prefersSmsOtp boolean, The preference for phone authorization of this user
vpnEnabled boolean, The availability of vpn for this user.
ssoDisabled boolean, The availability of SSO for this user.
otpRequiredForLogin boolean, The two factor authentication requirement for this user.
**exemptFromOrgSmsOtpDisabled**
boolean, Whether the user has SMS OTP enabled on an individual level. This field does not matter if the org does not have SMS OTP disabled.

**smsOtpAllowed**
boolean, Whether the user is allowed to receive two factor authentication codes via SMS.

**robot**
boolean, Whether the user is a robot.

**phone**
string, The phone number of this user.

**organizationSlug**
string, The slug of the organization the user belongs to.

**organizationSSODisableCanBeal**
boolean, The user’s organization’s ability to disable sso for their users.

**organizationLoginType**
string, The user’s organization’s login type.

**organizationSmsOtpDisabled**
boolean, Whether the user’s organization has SMS OTP disabled.

---

**users_post_api_keys** *Create a new API key belonging to the logged-in user*

**Description**
Create a new API key belonging to the logged-in user

**Usage**

```go
users_post_api_keys(id, expires_in, name, constraints = NULL)
```

**Arguments**

- **id**
  string required. The ID of the user or ‘me’.

- **expires_in**
  integer required. The number of seconds the key should last for.

- **name**
  string required. The name of the API key.

- **constraints**
  array optional. An array containing the following fields:

  - **constraint**
    string, The path matcher of the constraint.

  - **constraintType**
    string, The type of constraint (exact/prefix/regex/verb).

  - **getAllowed**
    boolean, Whether the constraint allows GET requests.

  - **headAllowed**
    boolean, Whether the constraint allows HEAD requests.

  - **postAllowed**
    boolean, Whether the constraint allows POST requests.

  - **putAllowed**
    boolean, Whether the constraint allows PUT requests.

  - **patchAllowed**
    boolean, Whether the constraint allows PATCH requests.

  - **deleteAllowed**
    boolean, Whether the constraint allows DELETE requests.
Value

A list containing the following elements:

- `id` integer, The ID of the API key.
- `name` string, The name of the API key.
- `expiresAt` string, The date and time when the key expired.
- `createdAt` string, The date and time when the key was created.
- `revokedAt` string, The date and time when the key was revoked.
- `lastUsedAt` string, The date and time when the key was last used.
- `scopes` array, The scopes which the key is permissioned on.
- `useCount` integer, The number of times the key has been used.
- `expired` boolean, True if the key has expired.
- `active` boolean, True if the key has neither expired nor been revoked.
- `constraints` array, An array containing the following fields:
  - `constraint` string, The path matcher of the constraint.
  - `constraintType` string, The type of constraint (exact/prefix/regex/verb).
  - `getAllowed` boolean, Whether the constraint allows GET requests.
  - `headAllowed` boolean, Whether the constraint allows HEAD requests.
  - `postAllowed` boolean, Whether the constraint allows POST requests.
  - `putAllowed` boolean, Whether the constraint allows PUT requests.
  - `patchAllowed` boolean, Whether the constraint allows PATCH requests.
  - `deleteAllowed` boolean, Whether the constraint allows DELETE requests.
- `token` string, The API key.

---

users_post_me_favorites

Favorite an item

---

Description

Favorite an item

Usage

```
users_post_me_favorites(object_id, object_type)
```

Arguments

- `object_id` integer required. The id of the object. If specified as a query parameter, must also specify `object_type` parameter.
- `object_type` string required. The type of the object that is favorited. Valid options: Project
workflows_delete_projects

Remove a Workflow from a project

Description
Remove a Workflow from a project

Usage
workflows_delete_projects(id, project_id)

Arguments
id integer required. The ID of the Workflow.
project_id integer required. The ID of the project.

Value
An empty HTTP response

workflows_delete_shares_groups
Revoke the permissions a group has on this object

Description
Revoke the permissions a group has on this object

Usage
workflows_delete_shares_groups(id, group_id)
Arguments

id  integer required. The ID of the resource that is shared.
group_id  integer required. The ID of the group.

Value
An empty HTTP response

workflows_delete_shares_users
Revoke the permissions a user has on this object

Description
Revoke the permissions a user has on this object

Usage
workflows_delete_shares_users(id, user_id)

Arguments

id  integer required. The ID of the resource that is shared.
user_id  integer required. The ID of the user.

Value
An empty HTTP response

workflows_get
Get a Workflow

Description
Get a Workflow

Usage
workflows_get(id)

Arguments

id  integer required.
**Value**

A list containing the following elements:

- **id** (integer): The ID for this workflow.
- **name** (string): The name of this workflow.
- **description** (string): A description of the workflow.
- **definition** (string): The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.
- **valid** (boolean): The validity of the workflow definition.
- **validationErrors** (string): The errors encountered when validating the workflow definition.
- **fileId** (string): The file id for the s3 file containing the workflow configuration.
- **user** (list): A list containing the following elements:
  - **id** (integer): The ID of this user.
  - **name** (string): This user’s name.
  - **username** (string): This user’s username.
  - **initials** (string): This user’s initials.
  - **online** (boolean): Whether this user is online.
- **state** (string): The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
- **schedule** (list): A list containing the following elements:
  - **scheduled** (boolean): If the item is scheduled.
  - **scheduledDays** (array): Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** (array): Hours of the day it is scheduled on.
  - **scheduledMinutes** (array): Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** (integer): Alternative to scheduled minutes, number of times to run per hour.
- **timeZone** (string): The time zone of this workflow.
- **nextExecutionAt** (string): The time of the next scheduled execution.
- **notifications** (list): A list containing the following elements:
  - **urls** (array): URLs to receive a POST request at job completion.
  - **successEmailSubject** (string): Custom subject line for success e-mail.
  - **successEmailBody** (string): Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** (array): Addresses to notify by e-mail when the job completes successfully.
  - **failureEmailAddresses** (array): Addresses to notify by e-mail when the job fails.
  - **stallWarningMinutes** (integer): Stall warning emails will be sent after this amount of minutes.
  - **successOn** (boolean): If success email notifications are on.
• failureOn boolean, If failure email notifications are on
archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
createdAt string,
updatedAt string,

workflows_get_executions

Get a workflow execution

Description
Get a workflow execution

Usage
workflows_get_executions(id, execution_id)

Arguments

id integer required. The ID for the workflow.
execution_id integer required. The ID for the workflow execution.

Value
A list containing the following elements:
id integer, The ID for this workflow execution.
state string, The state of this workflow execution.
mistralState string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
mistralStateInfo string, The state info of this workflow as reported by mistral.
user list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
definition string, The definition of the workflow for this execution.
input list, Key-value pairs defined for this execution.
includedTasks array, The subset of workflow tasks selected to execute.
tasks array, An array containing the following fields:
workflows_get_executions_tasks

Get a task of a workflow execution

Description

Get a task of a workflow execution

Usage

workflows_get_executions_tasks(id, execution_id, task_name)

Arguments

id integer required. The ID for the workflow.
execution_id integer required. The ID for the workflow execution.
task_name string required. The URL-encoded name of the task.

Value

A list containing the following elements:

name string, The name of the task.
mistralState string, The state of this task. One of idle, waiting, running, delayed, success, or error
mistralStateInfo string, Extra info associated with the state of the task.
runs array, An array containing the following fields:
  • id integer, The ID of the run.
  • jobId integer, The ID of the job associated with the run.
  • state string, The state of the run.
  • createdAt string, The time that the run was queued.

startedAt string, The time this execution started.
finishedAt string, The time this execution finished.
createdAt string, The time this execution was created.
updatedAt string, The time this execution was last updated.
workflows_get_git_commits

Get file contents at commit_hash

Description

Get file contents at commit_hash

Usage

workflows_get_git_commits(id, commit_hash)

Arguments

id integer required. The ID of the file.
commit_hash string required. The SHA (full or shortened) of the desired git commit.

Value

A list containing the following elements:

content string, The file’s contents.
type string, The file’s type.
size integer, The file’s size.
fileHash string, The SHA of the file.
Description

List Workflows

Usage

workflows_list(
    hidden = NULL,
    archived = NULL,
    author = NULL,
    state = NULL,
    scheduled = NULL,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)

Arguments

hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

archived string optional. The archival status of the requested item(s).

author string optional. Author of the workflow. It accepts a comma-separated list of author ids.

state array optional. State of the most recent execution. One or more of queued, running, succeeded, failed, cancelled, idle, and scheduled.

scheduled boolean optional. If the workflow is scheduled.

limit integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.

page_num integer optional. Page number of the results to return. Defaults to the first page, 1.

order string optional. The field on which to order the result set. Defaults to updated_at. Must be one of: updated_at, name, created_at.

order_dir string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.

Value

An array containing the following fields:

id integer, The ID for this workflow.
name     string, The name of this workflow.
description     string, A description of the workflow.
valid     boolean, The validity of the workflow definition.
fileId     string, The file id for the s3 file containing the workflow configuration.
user     list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
state     string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
schedule     list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
timeZone     string, The time zone of this workflow.
nextExecutionAt     string, The time of the next scheduled execution.
archived     string, The archival status of the requested item(s).
createdAt     string,
updatedAt     string,

workflows_list_executions

List workflow executions

Description
List workflow executions

Usage

workflows_list_executions(
    id,
    limit = NULL,
    page_num = NULL,
    order = NULL,
    order_dir = NULL
)
Arguments

<table>
<thead>
<tr>
<th>Argument</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID for this workflow.</td>
</tr>
<tr>
<td>limit</td>
<td>integer optional. Number of results to return. Defaults to 20. Maximum allowed is 50.</td>
</tr>
<tr>
<td>page_num</td>
<td>integer optional. Page number of the results to return. Defaults to the first page, 1.</td>
</tr>
<tr>
<td>order</td>
<td>string optional. The field on which to order the result set. Defaults to id. Must be one of: id, updated_at, created_at.</td>
</tr>
<tr>
<td>order_dir</td>
<td>string optional. Direction in which to sort, either asc (ascending) or desc (descending) defaulting to desc.</td>
</tr>
</tbody>
</table>

Value

An array containing the following fields:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID for this workflow execution.</td>
</tr>
<tr>
<td>state</td>
<td>string, The state of this workflow execution.</td>
</tr>
<tr>
<td>mistralState</td>
<td>string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled</td>
</tr>
<tr>
<td>mistralStateInfo</td>
<td>string, The state info of this workflow as reported by mistral.</td>
</tr>
<tr>
<td>user</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>startedAt</td>
<td>string, The time this execution started.</td>
</tr>
<tr>
<td>finishedAt</td>
<td>string, The time this execution finished.</td>
</tr>
<tr>
<td>createdAt</td>
<td>string, The time this execution was created.</td>
</tr>
<tr>
<td>updatedAt</td>
<td>string, The time this execution was last updated.</td>
</tr>
</tbody>
</table>

workflows_list_git  Get the git metadata attached to an item

Description

Get the git metadata attached to an item

Usage

workflows_list_git(id)
Arguments

id  

integer required. The ID of the file.

Value

A list containing the following elements:

- **gitRef** string, A git reference specifying an unambiguous version of the file. Can be a branch name, or the full or shortened SHA of a commit.
- **gitBranch** string, The git branch that the file is on.
- **gitPath** string, The path of the file in the repository.
- **gitRepo** list, A list containing the following elements:
  - **id** integer, The ID for this git repository.
  - **repoUrl** string, The URL for this git repository.
  - **createdAt** string,
  - **updatedAt** string,
- **pullFromGit** boolean, Automatically pull latest commit from git. Only works for scripts.

Get the git commits for an item

Get the git commits for an item

workflows_list_git_commits(id)

Arguments

id

integer required. The ID of the file.

Value

A list containing the following elements:

- **commitHash** string, The SHA of the commit.
- **authorName** string, The name of the commit’s author.
- **date** string, The commit’s timestamp.
- **message** string, The commit message.
workflows_list_projects

List the projects a Workflow belongs to

Description
List the projects a Workflow belongs to

Usage
workflows_list_projects(id, hidden = NULL)

Arguments
id integer required. The ID of the Workflow.
hidden boolean optional. If specified to be true, returns hidden items. Defaults to false, returning non-hidden items.

Value
An array containing the following fields:
id integer, The ID for this project.
author list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
name string, The name of this project.
description string, A description of the project.
users array, An array containing the following fields:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.
autoShare boolean,
createdAt string,
updatedAt string,
archived string, The archival status of the requested item(s).
workflows_list_shares  List users and groups permissioned on this object

Description

List users and groups permissioned on this object

Usage

workflows_list_shares(id)

Arguments

id  integer required. The ID of the resource that is shared.

Value

An array containing the following fields:

readers  list, A list containing the following elements:
  • users array,
  • groups array,

writers  list, A list containing the following elements:
  • users array,
  • groups array,

owners  list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares  integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

totalGroupShares  integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.
workflows_patch

**Description**

Update some attributes of this Workflow

**Usage**

```
workflows_patch(
  id,
  name = NULL,
  description = NULL,
  definition = NULL,
  schedule = NULL,
  time_zone = NULL,
  notifications = NULL
)
```

**Arguments**

- **id** integer required. The ID for this workflow.
- **name** string optional. The name of this workflow.
- **description** string optional. A description of the workflow.
- **definition** string optional. The definition of the workflow in YAML format. Must not be specified if `fromJobChain` is specified.
- **schedule** list optional. A list containing the following elements:
  - scheduled boolean, If the item is scheduled.
  - scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  - scheduledHours array, Hours of the day it is scheduled on.
  - scheduledMinutes array, Minutes of the day it is scheduled on.
  - scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.
- **time_zone** string optional. The time zone of this workflow.
- **notifications** list optional. A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
workflows_patch

- stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
- successOn boolean, If success email notifications are on
- failureOn boolean, If failure email notifications are on

Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID for this workflow.</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of this workflow.</td>
</tr>
<tr>
<td>description</td>
<td>string, A description of the workflow.</td>
</tr>
<tr>
<td>definition</td>
<td>string, The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.</td>
</tr>
<tr>
<td>valid</td>
<td>boolean, The validity of the workflow definition.</td>
</tr>
<tr>
<td>validationErrors</td>
<td>string, The errors encountered when validating the workflow definition.</td>
</tr>
<tr>
<td>fileId</td>
<td>string, The file id for the s3 file containing the workflow configuration.</td>
</tr>
<tr>
<td>user</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• id integer, The ID of this user.</td>
</tr>
<tr>
<td></td>
<td>• name string, This user’s name.</td>
</tr>
<tr>
<td></td>
<td>• username string, This user’s username.</td>
</tr>
<tr>
<td></td>
<td>• initials string, This user’s initials.</td>
</tr>
<tr>
<td></td>
<td>• online boolean, Whether this user is online.</td>
</tr>
<tr>
<td>state</td>
<td>string, The state of the workflow. State is &quot;running&quot; if any execution is running, otherwise reflects most recent execution state.</td>
</tr>
<tr>
<td>schedule</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• scheduled boolean, If the item is scheduled.</td>
</tr>
<tr>
<td></td>
<td>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</td>
</tr>
<tr>
<td></td>
<td>• scheduledHours array, Hours of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledMinutes array, Minutes of the day it is scheduled on.</td>
</tr>
<tr>
<td></td>
<td>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.</td>
</tr>
<tr>
<td>timeZone</td>
<td>string, The time zone of this workflow.</td>
</tr>
<tr>
<td>nextExecutionAt</td>
<td>string, The time of the next scheduled execution.</td>
</tr>
<tr>
<td>notifications</td>
<td>list, A list containing the following elements:</td>
</tr>
<tr>
<td></td>
<td>• urls array, URLs to receive a POST request at job completion</td>
</tr>
<tr>
<td></td>
<td>• successEmailSubject string, Custom subject line for success e-mail.</td>
</tr>
<tr>
<td></td>
<td>• successEmailBody string, Custom body text for success e-mail, written in Markdown.</td>
</tr>
<tr>
<td></td>
<td>• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.</td>
</tr>
</tbody>
</table>
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on
• failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
createdAt string,
updatedAt string,

workflows_post Create a Workflow

Description
Create a Workflow

Usage
workflows_post(
    name,
    description = NULL,
    from_job_chain = NULL,
    definition = NULL,
    schedule = NULL,
    time_zone = NULL,
    notifications = NULL,
    hidden = NULL
)

Arguments
name string required. The name of this workflow.
description string optional. A description of the workflow.
from_job_chain integer optional. If specified, create a workflow from the job chain this job is in, and inherit the schedule from the root of the chain.
definition string optional. The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.
schedule list optional. A list containing the following elements:
    • scheduled boolean, If the item is scheduled.
    • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
    • scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

time_zone
string optional. The time zone of this workflow.

notifications
list optional. A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on
  • failureOn boolean, If failure email notifications are on

hidden
boolean optional. The hidden status of the item.

Value
A list containing the following elements:

id
integer, The ID for this workflow.

name
string, The name of this workflow.

description
string, A description of the workflow.

definition
string, The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.

valid
boolean, The validity of the workflow definition.

validationErrors
string, The errors encountered when validating the workflow definition.

fileId
string, The file id for the s3 file containing the workflow configuration.

user
list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

state
string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.

schedule
list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
• scheduledDays array, Day based on numeric value starting at 0 for Sunday.
• scheduledHours array, Hours of the day it is scheduled on.
• scheduledMinutes array, Minutes of the day it is scheduled on.
• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

timeZone string, The time zone of this workflow.
nextExecutionAt string, The time of the next scheduled execution.

notifications list, A list containing the following elements:
• urls array, URLs to receive a POST request at job completion
• successEmailSubject string, Custom subject line for success e-mail.
• successEmailBody string, Custom body text for success e-mail, written in Markdown.
• successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
• failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
• stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
• successOn boolean, If success email notifications are on
• failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).
hidden boolean, The hidden status of the item.
createdAt string,
updatedAt string,
Value

A list containing the following elements:

- **id** integer, The ID for this workflow.
- **name** string, The name of this workflow.
- **description** string, A description of the workflow.
- **definition** string, The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.
- **valid** boolean, The validity of the workflow definition.
- **validationErrors** string, The errors encountered when validating the workflow definition.
- **fileId** string, The file id for the s3 file containing the workflow configuration.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
- **schedule** list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
  - **scheduledRunsPerHour** integer, Alternative to scheduled minutes, number of times to run per hour.
- **timeZone** string, The time zone of this workflow.
- **nextExecutionAt** string, The time of the next scheduled execution.
- **notifications** list, A list containing the following elements:
  - **urls** array, URLs to receive a POST request at job completion.
  - **successEmailSubject** string, Custom subject line for success e-mail.
  - **successEmailBody** string, Custom body text for success e-mail, written in Markdown.
  - **successEmailAddresses** array, Addresses to notify by e-mail when the job completes successfully.
  - **failureEmailAddresses** array, Addresses to notify by e-mail when the job fails.
  - **stallWarningMinutes** integer, Stall warning emails will be sent after this amount of minutes.
  - **successOn** boolean, If success email notifications are on
**Workflows Post Executions**

*Execute a workflow*

**Description**

Execute a workflow

**Usage**

```python
workflows_post_executions(
    id,
    target_task = NULL,
    input = NULL,
    included_tasks = NULL
)
```

**Arguments**

- **id** integer required. The ID for the workflow.
- **target_task** string optional. For a reverse workflow, the name of the task to target.
- **input** list optional. Key-value pairs to send to this execution as inputs.
- **included_tasks** array optional. If specified, executes only the subset of workflow tasks included.

**Value**

A list containing the following elements:

- **id** integer, The ID for this workflow execution.
- **state** string, The state of this workflow execution.
- **mistralState** string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled
- **mistralStateInfo** string, The state info of this workflow as reported by mistral.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

definition string, The definition of the workflow for this execution.
input list, Key-value pairs defined for this execution.
includedTasks array, The subset of workflow tasks selected to execute.
tasks array, An array containing the following fields:
• name string, The name of the task.
• mistralState string, The state of this task. One of idle, waiting, running,
delayed, success, or error
• mistralStateInfo string, Extra info associated with the state of the task.
• runs array, The runs associated with this task, in descending order by id.
• executions array, The executions run by this task, in descending order by id.
startedAt string, The time this execution started.
finishedAt string, The time this execution finished.
createdAt string, The time this execution was created.
updatedAt string, The time this execution was last updated.

workflows_post_executions_cancel

Cancel a workflow execution

Description

Cancel a workflow execution

Usage

workflows_post_executions_cancel(id, execution_id)

Arguments

id integer required. The ID for the workflow.
execution_id integer required. The ID for the workflow execution.

Value

A list containing the following elements:

id integer, The ID for this workflow execution.
state string, The state of this workflow execution.
mistralState string, The state of this workflow as reported by mistral. One of running, paused,
success, error, or cancelled
mistralStateInfo
string, The state info of this workflow as reported by mistral.

user
list, A list containing the following elements:
  • id integer, The ID of this user.
  • name string, This user’s name.
  • username string, This user’s username.
  • initials string, This user’s initials.
  • online boolean, Whether this user is online.

definition
string, The definition of the workflow for this execution.

input
list, Key-value pairs defined for this execution.

includedTasks
array, The subset of workflow tasks selected to execute.

tasks
array, An array containing the following fields:
  • name string, The name of the task.
  • mistralState string, The state of this task. One of idle, waiting, running,
    delayed, success, or error
  • mistralStateInfo string, Extra info associated with the state of the task.
  • runs array, The runs associated with this task, in descending order by id.
  • executions array, The executions run by this task, in descending order by id.

startedAt
string, The time this execution started.

finishedAt
string, The time this execution finished.

createdAt
string, The time this execution was created.

updatedAt
string, The time this execution was last updated.

---

workflows_post_executions_resume

*Resume a paused workflow execution*

**Description**
Resume a paused workflow execution

**Usage**

workflows_post_executions_resume(id, execution_id)

**Arguments**

- **id** integer required. The ID for the workflow.
- **execution_id** integer required. The ID for the workflow execution.
workflows_post_executions_retry

Retry a failed task, or all failed tasks in an execution

Description

Retry a failed task, or all failed tasks in an execution

Usage

workflows_post_executions_retry(id, execution_id, task_name = NULL)
Arguments

id
integer required. The ID for the workflow.

execution_id
integer required. The ID for the workflow execution.

task_name
string optional. If specified, the name of the task to be retried. If not specified, all failed tasks in the execution will be retried.

Value

A list containing the following elements:

id
integer, The ID for this workflow execution.

state
string, The state of this workflow execution.

mistralState
string, The state of this workflow as reported by mistral. One of running, paused, success, error, or cancelled

mistralStateInfo
string, The state info of this workflow as reported by mistral.

user
list, A list containing the following elements:

• id integer, The ID of this user.
• name string, This user’s name.
• username string, This user’s username.
• initials string, This user’s initials.
• online boolean, Whether this user is online.

definition
string, The definition of the workflow for this execution.

input
list, Key-value pairs defined for this execution.

includedTasks
array, The subset of workflow tasks selected to execute.

tasks
array, An array containing the following fields:

• name string, The name of the task.
• mistralState string, The state of this task. One of idle, waiting, running, delayed, success, or error
• mistralStateInfo string, Extra info associated with the state of the task.
• runs array, The runs associated with this task, in descending order by id.
• executions array, The executions run by this task, in descending order by id.

startedAt
string, The time this execution started.

finishedAt
string, The time this execution finished.

createdAt
string, The time this execution was created.

updatedAt
string, The time this execution was last updated.
workflows_post_git_commits

Commit and push a new version of the file

Description
Commit and push a new version of the file

Usage
workflows_post_git_commits(id, content, message, file_hash)

Arguments
- id: integer required. The ID of the file.
- content: string required. The contents to commit to the file.
- message: string required. A commit message describing the changes being made.
- file_hash: string required. The full SHA of the file being replaced.

Value
A list containing the following elements:
- content: string, The file's contents.
- type: string, The file's type.
- size: integer, The file's size.

workflows_put

Replace all attributes of this Workflow

Description
Replace all attributes of this Workflow

Usage
workflows_put(
    id,
    name,
    description = NULL,
    definition = NULL,
    schedule = NULL,
    time_zone = NULL,
    notifications = NULL
)
# workflows_put

## Arguments

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer required. The ID for this workflow.</td>
<td></td>
</tr>
<tr>
<td>name</td>
<td>string required. The name of this workflow.</td>
<td></td>
</tr>
<tr>
<td>description</td>
<td>string optional. A description of the workflow.</td>
<td></td>
</tr>
<tr>
<td>definition</td>
<td>string optional. The definition of the workflow in YAML format. Must not be</td>
<td></td>
</tr>
<tr>
<td></td>
<td>specified if 'fromJobChain' is specified.</td>
<td></td>
</tr>
<tr>
<td>schedule</td>
<td>list optional. A list containing the following elements:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• scheduled boolean, If the item is scheduled.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• scheduledDays array, Day based on numeric value starting at 0 for Sunday.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• scheduledHours array, Hours of the day it is scheduled on.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• scheduledMinutes array, Minutes of the day it is scheduled on.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• scheduledRunsPerHour integer, Alternative to scheduled minutes, number of</td>
<td></td>
</tr>
<tr>
<td></td>
<td>times to run per hour.</td>
<td></td>
</tr>
<tr>
<td>time_zone</td>
<td>string optional. The time zone of this workflow.</td>
<td></td>
</tr>
<tr>
<td>notifications</td>
<td>list optional. A list containing the following elements:</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• urls array, URLs to receive a POST request at job completion</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• successEmailSubject string, Custom subject line for success e-mail.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• successEmailBody string, Custom body text for success e-mail, written in</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Markdown.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• successEmailAddresses array, Addresses to notify by e-mail when the job</td>
<td></td>
</tr>
<tr>
<td></td>
<td>completes successfully.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• failureEmailAddresses array, Addresses to notify by e-mail when the job</td>
<td></td>
</tr>
<tr>
<td></td>
<td>fails.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• stallWarningMinutes integer, Stall warning emails will be sent after this</td>
<td></td>
</tr>
<tr>
<td></td>
<td>amount of minutes.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• successOn boolean, If success email notifications are on</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• failureOn boolean, If failure email notifications are on</td>
<td></td>
</tr>
</tbody>
</table>

## Value

A list containing the following elements:

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>id</td>
<td>integer, The ID for this workflow.</td>
</tr>
<tr>
<td>name</td>
<td>string, The name of this workflow.</td>
</tr>
<tr>
<td>description</td>
<td>string, A description of the workflow.</td>
</tr>
<tr>
<td>definition</td>
<td>string, The definition of the workflow in YAML format. Must not be specified</td>
</tr>
<tr>
<td></td>
<td>if ‘fromJobChain’ is specified.</td>
</tr>
<tr>
<td>valid</td>
<td>boolean, The validity of the workflow definition.</td>
</tr>
<tr>
<td>validationErrors</td>
<td>string, The errors encountered when validating the workflow definition.</td>
</tr>
<tr>
<td>fileId</td>
<td>string, The file id for the s3 file containing the workflow configuration.</td>
</tr>
<tr>
<td>user</td>
<td>list, A list containing the following elements:</td>
</tr>
</tbody>
</table>
id integer, The ID of this user.
name string, This user’s name.
username string, This user’s username.
initials string, This user’s initials.
online boolean, Whether this user is online.

state string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.

schedule list, A list containing the following elements:
  • scheduled boolean, If the item is scheduled.
  • scheduledDays array, Day based on numeric value starting at 0 for Sunday.
  • scheduledHours array, Hours of the day it is scheduled on.
  • scheduledMinutes array, Minutes of the day it is scheduled on.
  • scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

timeZone string, The time zone of this workflow.

nextExecutionAt string, The time of the next scheduled execution.

notifications list, A list containing the following elements:
  • urls array, URLs to receive a POST request at job completion
  • successEmailSubject string, Custom subject line for success e-mail.
  • successEmailBody string, Custom body text for success e-mail, written in Markdown.
  • successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  • failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  • stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  • successOn boolean, If success email notifications are on
  • failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).

hidden boolean, The hidden status of the item.

createdAt string,
updatedAt string,
**workflows_put_archive**  
*Update the archive status of this object*

**Description**

Update the archive status of this object

**Usage**

```
workflows_put_archive(id, status)
```

**Arguments**

- **id** integer required. The ID of the object.
- **status** boolean required. The desired archived status of the object.

**Value**

A list containing the following elements:

- **id** integer, The ID for this workflow.
- **name** string, The name of this workflow.
- **description** string, A description of the workflow.
- **definition** string, The definition of the workflow in YAML format. Must not be specified if ‘fromJobChain’ is specified.
- **valid** boolean, The validity of the workflow definition.
- **validationErrors** string, The errors encountered when validating the workflow definition.
- **fileId** string, The file id for the s3 file containing the workflow configuration.
- **user** list, A list containing the following elements:
  - **id** integer, The ID of this user.
  - **name** string, This user’s name.
  - **username** string, This user’s username.
  - **initials** string, This user’s initials.
  - **online** boolean, Whether this user is online.
- **state** string, The state of the workflow. State is "running" if any execution is running, otherwise reflects most recent execution state.
- **schedule** list, A list containing the following elements:
  - **scheduled** boolean, If the item is scheduled.
  - **scheduledDays** array, Day based on numeric value starting at 0 for Sunday.
  - **scheduledHours** array, Hours of the day it is scheduled on.
  - **scheduledMinutes** array, Minutes of the day it is scheduled on.
- scheduledRunsPerHour integer, Alternative to scheduled minutes, number of times to run per hour.

timeZone string, The time zone of this workflow.

nextExecutionAt string, The time of the next scheduled execution.

notifications list, A list containing the following elements:
  - urls array, URLs to receive a POST request at job completion
  - successEmailSubject string, Custom subject line for success e-mail.
  - successEmailBody string, Custom body text for success e-mail, written in Markdown.
  - successEmailAddresses array, Addresses to notify by e-mail when the job completes successfully.
  - failureEmailAddresses array, Addresses to notify by e-mail when the job fails.
  - stallWarningMinutes integer, Stall warning emails will be sent after this amount of minutes.
  - successOn boolean, If success email notifications are on
  - failureOn boolean, If failure email notifications are on

archived string, The archival status of the requested item(s).

hidden boolean, The hidden status of the item.

createdAt string,

updatedAt string,

---

**workflows_put_git**  
*Attach an item to a file in a git repo*

**Description**

Attach an item to a file in a git repo

**Usage**

```python
workflows_put_git(
    id,
    git_ref = NULL,
    git_branch = NULL,
    git_path = NULL,
    git_repo_url = NULL,
    pull_from_git = NULL)
```
Add a Workflow to a project

Add a Workflow to a project

workflows_put_projects

workflows_put_projects(id, project_id)

Arguments

- id: integer required. The ID of the Workflow.
- project_id: integer required. The ID of the project.

Value

An empty HTTP response
workflows_put_shares_groups

Set the permissions groups has on this object

Description

Set the permissions groups has on this object

Usage

`workflows_put_shares_groups(
  id,
  group_ids,
  permission_level,
  share_email_body = NULL,
  send_shared_email = NULL
)

Arguments

id integer required. The ID of the resource that is shared.
group_ids array required. An array of one or more group IDs.
permission_level string required. Options are: "read", "write", or "manage".
share_email_body string optional. Custom body text for e-mail sent on a share.
send_shared_email boolean optional. Send email to the recipients of a share.

Value

A list containing the following elements:

readers list, A list containing the following elements:
  • users array,
  • groups array,

writers list, A list containing the following elements:
  • users array,
  • groups array,

owners list, A list containing the following elements:
  • users array,
  • groups array,

totalUserShares integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.
workflows_put_shares_users

```
  totalGroupShares
    integer. For owners, the number of total groups shared. For writers and readers,
    the number of visible groups shared.
```
- groups array,

`totalUserShares` integer, For owners, the number of total users shared. For writers and readers, the number of visible users shared.

`totalGroupShares` integer, For owners, the number of total groups shared. For writers and readers, the number of visible groups shared.

---

### write_chunks

**Description**

Split a file into chunks of a given chunk size, returning a list of file names.

**Usage**

```r
write_chunks(file, chunk_size)
```

**Arguments**

- `file`: name of the file
- `chunk_size`: size of the chunk in bytes.

---

### write_civis

**Description**

Uploads a data frame, a csv file, or file on S3 to Redshift based on the first argument.

A default database can be set using `options(civis.default_db = "my_database")`. If there is only one database available, this database will automatically be used as the default.

**Usage**

```r
write_civis(x, ...)
```

---

```r
# S3 method for class 'data.frame'
write_civis(  
x,  
tablename,  
database = NULL,  
if_exists = "fail",  
distkey = NULL,
```
write_civis

sortkey1 = NULL,
sortkey2 = NULL,
max_errors = NULL,
verbose = FALSE,
hidden = TRUE,
diststyle = NULL,
header = TRUE,
credential_id = NULL,
import_args = NULL,
...

## S3 method for class 'character'
write_civis(
  x,
  tablename,
  database = NULL,
  if_exists = "fail",
distkey = NULL,
  sortkey1 = NULL,
  sortkey2 = NULL,
  max_errors = NULL,
  verbose = FALSE,
  hidden = TRUE,
diststyle = NULL,
  header = TRUE,
credential_id = NULL,
  import_args = NULL,
...
)

## S3 method for class 'numeric'
write_civis(
  x,
  tablename,
  database = NULL,
  if_exists = "fail",
distkey = NULL,
  sortkey1 = NULL,
  sortkey2 = NULL,
  max_errors = NULL,
  verbose = FALSE,
delimiter = ",",
  hidden = TRUE,
diststyle = NULL,
  header = TRUE,
credential_id = NULL,
  import_args = NULL,
Arguments

- `x`: data frame, file path of a csv, or the id of a csv file on S3 to upload to platform.
- `...`: arguments passed to `write.csv`.
- `tablename`: string, Name of table and schema "schema.tablename".
- `database`: string, Name of database where data frame is to be uploaded. If no database is specified, uses `options(civis.default_db)`.
- `if_exists`: string, optional, String indicating action to take if table already exists. Must be either "fail", "drop", "truncate" or "append". Defaults to "fail".
- `distkey`: string, optional, Column name designating the distkey.
- `sortkey1`: string, optional, Column name designating the first sortkey.
- `sortkey2`: string, optional, Column name designating the second (compound) sortkey.
- `max_errors`: int, optional, Maximum number of rows with errors to remove before failing.
- `verbose`: bool, Set to TRUE to print intermediate progress indicators.
- `hidden`: bool, if TRUE (default), this job will not appear in the Civis UI.
- `diststyle`: string optional. The diststyle to use for the table. One of "even", "all", or "key".
- `header`: bool, if TRUE (default) the first row is a header.
- `credential_id`: integer, the id of the credential to be used when performing the database import. If NULL (default), the default credential of the current user will be used.
- `import_args`: list of additional arguments for `imports_post_files`.
- `delimiter`: string, optional. Which delimiter to use. One of ',', '	', '\t' or '|'.

Methods (by class)

- `data.frame`: Upload a data frame to Civis Platform (Redshift).
- `character`: Upload a csv to Civis Platform (Redshift).
- `numeric`: Upload a csv file from the files endpoint to Civis Platform (Redshift)

See Also

- `refresh_table` to update table meta-data.
- Other io: `download_civis()`, `query_civis_file()`, `query_civis()`, `read_civis()`, `write_civis_file()`

Examples

```r
## Not run:
df <- read.csv(local_file)

# Create new table, fail if already exists
write_civis(df, "schema.my_table", "my_database")
```
# Create new table, append if already exists
write_civis(df, "schema.my_table", "my_database", if_exists="append")

# Create new table with additional options
write_civis(df, "schema.my_table", "my_database",
            distkey="id",
            sortkey1="added_date",
            credential_id = 1,
            header = FALSE)

# Create new table directly from a saved csv
write_civis("my/file/path.csv", "schema.my_table", "my_database")

# Create new table from a file_id
id <- write_civis_file("my/file/path.csv", name = "path.csv")
write_civis(id, "schema.my_table", "my_database")

## End(Not run)

write_civis_file

**Upload a R object or file to Civis Platform (Files endpoint)**

**Description**

Uploads a data frame, R object or file to the files endpoint on Civis Platform (Amazon S3). It returns the id of the file for use with `read_civis` or `download_civis`.

Data frames are uploaded as CSVs with `write.csv`. R objects are serialized with `saveRDS`. Files are uploaded as-is. Objects or files larger than 50mb are chunked and can be uploaded in parallel if a `plan` has been set. Files larger than 5TB cannot be uploaded.

**Usage**

```r
write_civis_file(x, ...)

## Default S3 method:
write_civis_file(x, name = "r-object.rds", expires_at = NULL, ...)

## S3 method for class 'data.frame'
write_civis_file(
  x,
  name = "data.csv",
  expires_at = NULL,
  row.names = FALSE,
  ...
)

## S3 method for class 'character'
write_civis_file(x, name = x, expires_at = NULL, ...)
```
Arguments

x         R object or path of file to upload.
...       arguments passed to saveRDS or write.csv for data frames.
name      string, Name of the file or object.
expires_at string, The date and time the object will expire on in the format “YYYY-MM-DD HH:MM:SS”. expires_at = NULL allows files to be kept indefinitely.
row.names default FALSE. Either a logical value indicating whether the row names of x are to be written along with x, or a character vector of row names to be written.

Details

Data frames are uploaded as CSVs using write.csv, with row.names = FALSE by default. Additional arguments to write.csv can be passed through ....

By default, R objects are serialized using saveRDS before uploading the object to the files endpoint. If given a filepath, the file is uploaded as-is.

Value

The file id which can be used to later retrieve the file using read_civis.

Methods (by class)

• default: Serialize R object
• data.frame: Upload a data frame as a csv
• character: Upload any file

See Also

Other io: download_civis(), query_civis_file(), query_civis(), read_civis(), write_civis()

Examples

```r
## Not run:
data(iris)
file_id <- write_civis_file(iris)
read_civis(file_id)

file_id <- write_civis_file("path/to/my.csv")
read_civis(file_id)
read_civis(file_id, using = readr::read_csv)

file_id <- write_civis_file(list(a = 1))
read_civis(file_id, using = readRDS)

# Does not expire
file_id <- write_civis_file(iris, expires_at = NULL)

# Expires on a given date and time
```
file_id <- write_civis_file(iris, expires_at = "2030-01-01")
file_id <- write_civis_file(iris, expires_at = "12:00:00")
file_id <- write_civis_file(iris, expires_at = "2030-01-01 12:00:00")

# Upload a large file in parallel.
library(future)
plan(multisession)
file_id <- write_civis_file("my_large_file")

## End(Not run)

---

**write_job_output** Add a file as a run output if called from a container job

**Description**
Add a file as a run output if called from a container job

**Usage**
write_job_output(filename)

**Arguments**
- **filename** string, name of the file to add as a run output civis::scripts_post_*_runs_outputs.

**Details**
Only posts if running on Civis Platform.

**Value**
Returns the filename if not running on platform.
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