

Package ‘vtableau’

October 31, 2023

Type Package

Title R Interface for 'Tableau' Services

Version 0.3.0

Description Provides an R interface for interacting with the 'Tableau' Server.

It allows users to perform various operations such as publishing workbooks, refreshing data extracts,

and managing users using the 'Tableau' REST API (see <https://help.tableau.com/current/api/rest_api/en-us/REST/rest_api_ref.htm> for details). Additionally, it includes functions to perform manipulations on local 'Tableau' workbooks.

URL <https://github.com/vusaverse/vtableau>,
<https://vusaverse.github.io/vtableau/>

License MIT + file LICENSE

Encoding UTF-8

RoxygenNote 7.2.3

Imports data.table, dplyr, httr, jsonlite, magrittr, purrr, stringr,
tidyr, XML, xml2

Suggests knitr, rmarkdown

VignetteBuilder knitr

NeedsCompilation no

Author Tomer Iwan [aut, cre],
Ruben Korvinus [ctb],
VU Analytics [cph]

Maintainer Tomer Iwan <t.iwan@vu.nl>

Repository CRAN

Date/Publication 2023-10-31 09:10:02 UTC

R topics documented:

adjust_tableau_font_style	2
adjust_tableau_size	3

authenticate_PAT	4
authenticate_server	5
check_dashboard_names	5
download_filtered_tableau_image	6
download_tableau_crosstab_excel	7
download_tableau_data	8
download_workbooks_server	8
download_workbooks_server_pdf	9
download_workbooks_server_powerpoint	10
escape_special_chars	11
get_actions	11
get_folders	12
get_hierarchy	12
get_nodenames	13
get_parameter	13
get_revision	14
get_server_connected_apps	15
get_server_datasources	15
get_server_groups	16
get_server_info	17
get_server_jobs	18
get_server_location	19
get_server_projects	19
get_server_refresh_tasks	20
get_server_schedules	21
get_server_users	22
get_server_user_favorites	23
get_server_views	24
get_server_workbooks	25
get_tableau_data_source	26
get_variables	26
get_variable_folders	27
get_workbook_id	28
get_workbook_tabs	28
make_rootnodes	29
row_to_name	29
row_to_query	30

Index**31**

 adjust_tableau_font_style

adjust_tableau_font_style

Description

Adjust the font style of a tableau file

Usage

```
adjust_tableau_font_style(
  import_files,
  font_style = "Tableau Regular",
  save_location = NULL
)
```

Arguments

import_files	selected tableau file or folder, to change its font style. If it is only a file, make sure it is a twb file.
font_style	the name of the font style you want to use (in quotation marks "")
save_location	The location to which the adjusted tableau file will be saved (this needs to be a .twb file). If empty, the adjusted tableau file will be overwritten.

Value

tableau file with the correct font style.

adjust_tableau_size *adjust_tableau_size*

Description

Adjust the size of selected tableau file/files.

Usage

```
adjust_tableau_size(
  import_files,
  save_location = NULL,
  maxheight = NULL,
  maxwidth = NULL,
  minheight = NULL,
  minwidth = NULL
)
```

Arguments

import_files	selected tableau file or folder, to change its size. If it is only one file, make sure it is a twb file.
save_location	The location to which the adjusted tableau file will be saved (this needs to be a .twb file). If empty, the adjusted tableau file will be overwritten.
maxheight	Max height for tableau file, if NULL use system variables.
maxwidth	Max width for tableau file, if NULL use system variables.
minheight	Min height for tableau file, if NULL use system variables.
minwidth	Min width for tableau file, if NULL use system variables.

Value

tableau file with the correct size.

See Also

Other xml: [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

 authenticate_PAT

Authenticate to Tableau Server or Tableau Cloud

Description

This function authenticates to a Tableau Server or Tableau Cloud using a personal access token (PAT).

Usage

```
authenticate_PAT(
  pat_name,
  pat_secret,
  content_url,
  base_url,
  api_version = 3.4
)
```

Arguments

pat_name	The name of the personal access token (PAT).
pat_secret	The secret of the personal access token (PAT).
content_url	The URL of the content to authenticate. For Tableau Server, this is typically the URL of the Tableau server followed by the site ID. For Tableau Cloud, this is usually the URL of the Tableau cloud workbook.
base_url	The base URL of the Tableau server or Tableau cloud. For Tableau Server, this is usually the URL of the Tableau server. For Tableau Cloud, this is usually the URL of the Tableau cloud, and it must contain the pod name, such as 10az, 10ay, or us-east-1. For example, the base URL to sign in to a site in the 10ay pod would be: https://10ay.online.tableau.com .
api_version	the api version to use. Default is 3.4

Value

A list containing the base URL, the access token, the site ID, and the user ID.

authenticate_server *Authenticate on the Tableau server.*

Description

Authenticates the user on the Tableau server and retrieves the necessary authentication variables for running other Tableau REST API methods.

Usage

```
authenticate_server(username, password, base_url, api_version = 3.4)
```

Arguments

username	The username on the Tableau server.
password	The password on the Tableau server.
base_url	The base URL of the Tableau server.
api_version	The API version to use (default: 3.4).

Value

A list containing the authentication variables: base_url, token, site_id, and user_id.

See Also

Other Tableau REST API: [download_filtered_tableau_image\(\)](#), [download_tableau_crosstab_excel\(\)](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

check_dashboard_names *check_dashboard_names*

Description

Check the names of dashboards in tableau, according to the style guide. The wrong dashboards will be returned together with the reason why it is a wrong name

Usage

```
check_dashboard_names(import_files)
```

Arguments

`import_files` selected tableau file or folder, to check the names of the dashboards. If it is only one file, make sure it is a twb file.

Value

the wrongly named dashboards

See Also

Other xml: `adjust_tableau_size()`, `get_actions()`, `get_folders()`, `get_hierarchy()`, `get_nodenames()`, `get_parameter()`, `get_revision()`, `get_server_location()`, `get_tableau_data_source()`, `get_variable_folders()`, `get_variables()`, `get_workbook_id()`, `get_workbook_tabs()`, `make_rootnodes()`

`download_filtered_tableau_image`

Download filtered Tableau views to PNG images from a dataframe.

Description

Downloads PNG images of filtered Tableau views based on the provided dataframe containing filter columns and filter values.

Usage

```
download_filtered_tableau_image(
  tableau,
  df,
  view_id,
  path_to_save,
  api_version = "3.8"
)
```

Arguments

`tableau` A list containing the Tableau authentication variables: ‘base_url’, ‘token’, ‘user_id’, and ‘site_id’.

`df` Dataframe containing filter columns and filter values.

`view_id` The ID of the view to download.

`path_to_save` The directory to write the images to.

`api_version` The API version to use (default: 3.8).

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_tableau_crosstab_excel\(\)](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

download_tableau_crosstab_excel

Download Tableau view crosstab as Excel

Description

Downloads the crosstab data from a Tableau view in Excel format.

Usage

```
download_tableau_crosstab_excel(
    tableau,
    view_id,
    path_to_save,
    api_version = 3.16
)
```

Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
view_id	The ID of the view to download.
path_to_save	The directory to write the crosstab Excel file to.
api_version	The API version to use (default: 3.16).

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

download_tableau_data *Download Tableau view data as Excel*

Description

Downloads the data from a Tableau view in Excel format.

Usage

```
download_tableau_data(tableau, view_id, path_to_save, api_version = 3.8)
```

Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
view_id	The ID of the view to download.
path_to_save	The directory to write the data Excel file to.
api_version	The API version to use (default: 3.8).

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

download_workbooks_server

Download workbook from Tableau Server.

Description

Downloads a workbook from the Tableau Server using the provided authentication credentials and saves it to the specified path.

Usage

```
download_workbooks_server(
    tableau,
    api_version = 3.4,
    workbook_id,
    path_to_save,
    include_extract = FALSE
)
```


Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
api_version	The API version to use (default: 3.4).
workbook_id	The identifier of the workbook to download.
path_to_save	The file path to save the downloaded workbook.
include_extract	Logical indicating whether to include the extract file (default: FALSE).

Value

NULL.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

download_workbooks_server_pdf

Download workbook PDF from Tableau Server.

Description

Downloads a PDF version of a workbook from the Tableau Server using the provided authentication credentials and saves it to the specified path.

Usage

```
download_workbooks_server_pdf(  
  tableau,  
  api_version = 3.4,  
  workbook_id,  
  path_to_save  
)
```

Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
api_version	The API version to use (default: 3.4).
workbook_id	The identifier of the workbook to download.
path_to_save	The file path to save the downloaded PDF file.

Value

NULL.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

download_workbooks_server_powerpoint

Download workbook PowerPoint from Tableau Server.

Description

Downloads a PowerPoint version of a workbook from the Tableau Server using the provided authentication credentials and saves it to the specified path.

Usage

```
download_workbooks_server_powerpoint(
    tableau,
    api_version = 3.8,
    workbook_id,
    path_to_save
)
```

Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
api_version	The API version to use (default: 3.8).
workbook_id	The identifier of the workbook to download.
path_to_save	The file path to save the downloaded PowerPoint file.

Value

NULL.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

escape_special_chars *Escape characters for url*

Description

Escape characters for url

Usage

```
escape_special_chars(url)
```

Arguments

url the url

Value

escaped string

get_actions *Get Workbook actions*

Description

Get Workbook actions

Usage

```
get_actions(wb)
```

Arguments

wb The path to the Tableau workbook [.twb].

Value

Dataframe containing the workbook actions.

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

Examples

```
## Not run:
# Get Workbook actions
actions <- get_actions(wb = "path/to/workbook.twb")
head(actions)

## End(Not run)
```

get_folders	<i>Get folder structure workbook</i>
-------------	--------------------------------------

Description

Get folder structure workbook

Usage

```
get_folders(wb)
```

Arguments

wb The path to the Tableau workbook file [.twb].

Value

A dataframe containing the folder names and the variables stored inside.

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

get_hierarchy	<i>Get Workbook drilldown hierarchies</i>
---------------	-------------------------------------------

Description

Get Workbook drilldown hierarchies

Usage

```
get_hierarchy(wb)
```

Arguments

wb The path to the Tableau workbook [.twb].

Value

Dataframe containing the workbook hierarchy drill downs.

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

get_nodenames	<i>Get all nodenames</i>
---------------	--------------------------

Description

Get all nodenames

Usage

```
get_nodenames(proc)
```

Arguments

proc	The rootnode
------	--------------

Value

nodenames

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

get_parameter	<i>Get all parameters in workbook.</i>
---------------	----------------------------------------

Description

Get all parameters in workbook.

Usage

```
get_parameter(wb)
```

Arguments

wb The path to the tableau workbook [.twb].

Value

Dataframe

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

get_revision	<i>Get the revision number</i>
--------------	--------------------------------

Description

Get the revision number

Usage

```
get_revision(wb)
```

Arguments

wb The path to the Tableau workbook file [.twb].

Value

The revision number

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

`get_server_connected_apps`*Get connected applications from Tableau Server.*

Description

Retrieves information about connected applications from the Tableau Server using the provided authentication credentials.

Usage

```
get_server_connected_apps(tableau, api_version = 3.14, page_size = 100)
```

Arguments

<code>tableau</code>	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
<code>api_version</code>	The API version to use (default: 3.14).
<code>page_size</code>	The number of records to retrieve per page (default: 100).

Value

A data frame containing the connected applications information.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

`get_server_datasources`*Get datasources from Tableau Server.*

Description

Retrieves information about datasources from the Tableau Server using the provided authentication credentials.

Usage

```
get_server_datasources(
    tableau,
    api_version = 3.4,
    page_size = 100,
    include_metadata = FALSE
)
```

Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
api_version	The API version to use (default: 3.4).
page_size	The number of records to retrieve per page (default: 100).
include_metadata	Logical indicating whether to include metadata columns in the result (default: FALSE).

Value

A data frame containing the datasource information.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

get_server_groups	<i>Get groups from Tableau Server.</i>
-------------------	----------------------------------------

Description

Retrieves a list of groups from the Tableau Server using the provided authentication credentials.

Usage

```
get_server_groups(
    tableau,
    api_version = 3.4,
    page_size = 100,
    include_metadata = FALSE
)
```


Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
api_version	The API version to use (default: 3.4).
page_size	The number of records to retrieve per page (default: 100).
include_metadata	Logical indicating whether to include metadata columns in the result (default: FALSE).

Value

A data frame containing the groups information.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

get_server_info	<i>Get datasources from Tableau Server.</i>
-----------------	---------------------------------------------

Description

Retrieves information about the Tableau server site using the provided authentication credentials.

Usage

```
get_server_info(
  tableau,
  api_version = 3.4,
  page_size = 100,
  include_metadata = FALSE
)
```

Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
api_version	The API version to use (default: 3.4).
page_size	The number of records to retrieve per page (default: 100).
include_metadata	Logical indicating whether to include metadata columns in the result (default: FALSE).

Value

A data frame containing the server site information.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

get_server_jobs

Get server jobs from Tableau server.

Description

Retrieves a list of server jobs from the Tableau server using the provided authentication credentials.

Usage

```
get_server_jobs(
  tableau,
  api_version = "3.4",
  page_size = 100,
  include_metadata = FALSE
)
```

Arguments

tableau	A list containing the Tableau authentication variables: base_url, token, user_id, and site_id.
api_version	The API version to use (default: "3.4").
page_size	The number of jobs to retrieve per page (default: 100).
include_metadata	Logical indicating whether to include metadata columns in the result (default: FALSE).

Value

A data frame containing the server jobs information.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

get_server_location *Get the server location.*

Description

Get the server location.

Usage

```
get_server_location(wb)
```

Arguments

wb The path to the Tableau workbook [.twb].

Value

The server location of the workbook.

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

get_server_projects *Get projects from Tableau server.*

Description

Retrieves a list of projects from the Tableau server using the provided authentication credentials.

Usage

```
get_server_projects(  
  tableau,  
  api_version = "3.4",  
  page_size = 100,  
  include_metadata = FALSE  
)
```

Arguments

tableau	A list containing the Tableau authentication variables: base_url, token, site_id, and user_id.
api_version	The API version to use (default: "3.4").
page_size	The number of projects to retrieve per page (default: 100).
include_metadata	Logical indicating whether to include metadata columns in the result (default: FALSE).

Value

A data frame containing the projects information.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross_download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_refresh_tasks\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

get_server_refresh_tasks

Get extract refresh tasks from Tableau Server.

Description

Retrieves a list of extract refresh tasks from the Tableau Server using the provided authentication credentials.

Usage

```
get_server_refresh_tasks(tableau, api_version = 3.4, page_size = 100)
```

Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
api_version	The API version to use (default: 3.4).
page_size	The number of records to retrieve per page (default: 100).

Value

A data frame containing the extract refresh tasks information.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

get_server_schedules *Get schedules from Tableau server.*

Description

Retrieves a list of schedules from the Tableau server using the provided authentication credentials.

Usage

```
get_server_schedules(
    tableau,
    api_version = 3.4,
    page_size = 100,
    include_metadata = FALSE
)
```

Arguments

tableau	A list containing the Tableau authentication variables: 'base_url' and 'token'.
api_version	The API version to use (default: 3.4).
page_size	The number of records to retrieve per page (default: 100).
include_metadata	Logical indicating whether to include metadata columns in the result (default: FALSE).

Value

A data frame containing the schedules information.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tas](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

get_server_users	<i>Get users from Tableau server.</i>
------------------	---------------------------------------

Description

Retrieves a list of users from the Tableau server using the provided authentication credentials.

Usage

```
get_server_users(  
    tableau,  
    api_version = "3.4",  
    page_size = 100,  
    include_metadata = FALSE  
)
```

Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
api_version	The API version to use (default: 3.4).
page_size	The number of users to retrieve per page (default: 100).
include_metadata	Logical indicating whether to include metadata columns in the result (default: FALSE).

Value

A data frame containing the users information.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tas](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

`get_server_user_favorites`*Get favorites for a user from Tableau Server.*

Description

Retrieves a list of favorite projects, data sources, views, workbooks, and flows for a specific user on Tableau Server.

Usage

```
get_server_user_favorites(  
    tableau,  
    user_id,  
    api_version = 3.4,  
    page_size = 100,  
    page_number = 1  
)
```

Arguments

<code>tableau</code>	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
<code>user_id</code>	The ID of the user for which you want to retrieve the favorites.
<code>api_version</code>	The API version to use (default: 3.4).
<code>page_size</code>	The number of items to return in one response (default: 100).
<code>page_number</code>	The offset for paging (default: 1).

Value

A data frame containing the favorites for the specified user.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tas](#), [get_server_schedules\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#), [get_server_workbooks\(\)](#)

get_server_views	<i>Get views from Tableau server.</i>
------------------	---------------------------------------

Description

Retrieves a list of views from the Tableau server using the provided authentication credentials.

Usage

```
get_server_views(  
    tableau,  
    api_version = "3.4",  
    page_size = 100,  
    include_statistics = TRUE,  
    include_metadata = FALSE  
)
```

Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
api_version	The API version to use (default: 3.4).
page_size	The number of views to retrieve per page (default: 100).
include_statistics	Logical indicating whether to include usage statistics in the result (default: TRUE).
include_metadata	Logical indicating whether to include metadata columns in the result (default: FALSE).

Value

A data frame containing the views information.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tas](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_workbooks\(\)](#)

get_server_workbooks *Get workbooks from Tableau server.*

Description

Retrieves a list of workbooks from the Tableau server using the provided authentication credentials.

Usage

```
get_server_workbooks(  
    tableau,  
    api_version = "3.4",  
    page_size = 100,  
    include_metadata = FALSE  
)
```

Arguments

tableau	A list containing the Tableau authentication variables: 'base_url', 'token', 'user_id', and 'site_id'.
api_version	The API version to use (default: 3.4).
page_size	The number of workbooks to retrieve per page (default: 100).
include_metadata	Logical indicating whether to include metadata columns in the result (default: FALSE).

Value

A data frame containing the workbooks information.

See Also

Other Tableau REST API: [authenticate_server\(\)](#), [download_filtered_tableau_image\(\)](#), [download_tableau_cross](#), [download_tableau_data\(\)](#), [download_workbooks_server_pdf\(\)](#), [download_workbooks_server_powerpoint\(\)](#), [download_workbooks_server\(\)](#), [get_server_connected_apps\(\)](#), [get_server_datasources\(\)](#), [get_server_groups\(\)](#), [get_server_info\(\)](#), [get_server_jobs\(\)](#), [get_server_projects\(\)](#), [get_server_refresh_tas](#), [get_server_schedules\(\)](#), [get_server_user_favorites\(\)](#), [get_server_users\(\)](#), [get_server_views\(\)](#)

`get_tableau_data_source`*Get Tableau data source*

Description

Search XML for data source of Tableau workbook

Usage

```
get_tableau_data_source(dashboard)
```

Arguments

dashboard Path to Tableau twb file.

Value

Data source of the workbook

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

Examples

```
## Not run:  
# Get Tableau data source  
data_source <- get_tableau_data_source(dashboard = "path/to/workbook.twb")  
print(data_source)  
  
## End(Not run)
```

`get_variables`*Get variable names from workbook.*

Description

Get variable names from workbook.

Usage

```
get_variables(wb)
```

Arguments

wb The path to the Tableau workbook file [.twb].

Value

Dataframe

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

get_variable_folders *Get folder names*

Description

Get folder names

Usage

```
get_variable_folders(wb)
```

Arguments

wb The path to the Tableau workbook file [.twb].

Value

Dataframe containing the variable folder names

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

get_workbook_id	<i>Get workbook ID name.</i>
-----------------	------------------------------

Description

Get workbook ID name.

Usage

```
get_workbook_id(wb)
```

Arguments

wb The path to the Tableau workbook [.twb].

Value

The ID name of the workbook.

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_tabs\(\)](#), [make_rootnodes\(\)](#)

get_workbook_tabs	<i>Get workbook tabs</i>
-------------------	--------------------------

Description

Get workbook tabs

Usage

```
get_workbook_tabs(wb)
```

Arguments

wb The path to the Tableau workbook file [.twb].

Value

Dataframe

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [make_rootnodes\(\)](#)

make_rootnodes	<i>make_rootnodes</i>
----------------	-----------------------

Description

make_rootnodes

Usage

make_rootnodes(wb)

Arguments

wb The path to the tableau workbook file [.twb].

Value

The rootnodes.

See Also

Other xml: [adjust_tableau_size\(\)](#), [check_dashboard_names\(\)](#), [get_actions\(\)](#), [get_folders\(\)](#), [get_hierarchy\(\)](#), [get_nodenames\(\)](#), [get_parameter\(\)](#), [get_revision\(\)](#), [get_server_location\(\)](#), [get_tableau_data_source\(\)](#), [get_variable_folders\(\)](#), [get_variables\(\)](#), [get_workbook_id\(\)](#), [get_workbook_tabs\(\)](#)

row_to_name	<i>Concat row to name</i>
-------------	---------------------------

Description

Concat row to name

Usage

row_to_name(row)

Arguments

row row of dataframe

Value

name of the row

row_to_query

Dataframe row to query

Description

Dataframe row to query

Usage

```
row_to_query(row)
```

Arguments

row row of dataframe

Value

Query to the api call

Index

* Tableau REST API

- authenticate_server, 5
- download_filtered_tableau_image, 6
- download_tableau_crosstab_excel, 7
- download_tableau_data, 8
- download_workbooks_server, 8
- download_workbooks_server_pdf, 9
- download_workbooks_server_powerpoint, 10
- get_server_connected_apps, 15
- get_server_datasources, 15
- get_server_groups, 16
- get_server_info, 17
- get_server_jobs, 18
- get_server_projects, 19
- get_server_refresh_tasks, 20
- get_server_schedules, 21
- get_server_user_favorites, 23
- get_server_users, 22
- get_server_views, 24
- get_server_workbooks, 25

* xml

- adjust_tableau_size, 3
- check_dashboard_names, 5
- get_actions, 11
- get_folders, 12
- get_hierarchy, 12
- get_nodenames, 13
- get_parameter, 13
- get_revision, 14
- get_server_location, 19
- get_tableau_data_source, 26
- get_variable_folders, 27
- get_variables, 26
- get_workbook_id, 28
- get_workbook_tabs, 28
- make_rootnodes, 29

adjust_tableau_font_style, 2

- adjust_tableau_size, 3, 6, 11–14, 19, 26–29
- authenticate_PAT, 4
- authenticate_server, 5, 7–10, 15–25
- check_dashboard_names, 4, 5, 11–14, 19, 26–29
- download_filtered_tableau_image, 5, 6, 7–10, 15–25
- download_tableau_crosstab_excel, 5, 7, 7, 8–10, 15–25
- download_tableau_data, 5, 7, 8, 9, 10, 15–25
- download_workbooks_server, 5, 7, 8, 8, 10, 15–25
- download_workbooks_server_pdf, 5, 7–9, 9, 10, 15–25
- download_workbooks_server_powerpoint, 5, 7–10, 10, 15–25
- escape_special_chars, 11
- get_actions, 4, 6, 11, 12–14, 19, 26–29
- get_folders, 4, 6, 11, 12, 13, 14, 19, 26–29
- get_hierarchy, 4, 6, 11, 12, 12, 13, 14, 19, 26–29
- get_nodenames, 4, 6, 11–13, 13, 14, 19, 26–29
- get_parameter, 4, 6, 11–13, 13, 14, 19, 26–29
- get_revision, 4, 6, 11–14, 14, 19, 26–29
- get_server_connected_apps, 5, 7–10, 15, 16–25
- get_server_datasources, 5, 7–10, 15, 15, 17–25
- get_server_groups, 5, 7–10, 15, 16, 16, 18–25
- get_server_info, 5, 7–10, 15–17, 17, 19–25
- get_server_jobs, 5, 7–10, 15–18, 18, 20–25
- get_server_location, 4, 6, 11–14, 19, 26–29
- get_server_projects, 5, 7–10, 15–19, 19, 21–25

`get_server_refresh_tasks`, [5](#), [7–10](#), [15–20](#),
[20](#), [21–25](#)
`get_server_schedules`, [5](#), [7–10](#), [15–21](#), [21](#),
[22–25](#)
`get_server_user_favorites`, [5](#), [7–10](#),
[15–22](#), [23](#), [24](#), [25](#)
`get_server_users`, [5](#), [7–10](#), [15–21](#), [22](#),
[23–25](#)
`get_server_views`, [5](#), [7–10](#), [15–23](#), [24](#), [25](#)
`get_server_workbooks`, [5](#), [7–10](#), [15–24](#), [25](#)
`get_tableau_data_source`, [4](#), [6](#), [11–14](#), [19](#),
[26](#), [27–29](#)
`get_variable_folders`, [4](#), [6](#), [11–14](#), [19](#), [26](#),
[27](#), [27](#), [28](#), [29](#)
`get_variables`, [4](#), [6](#), [11–14](#), [19](#), [26](#), [26](#), [27–29](#)
`get_workbook_id`, [4](#), [6](#), [11–14](#), [19](#), [26](#), [27](#), [28](#),
[29](#)
`get_workbook_tabs`, [4](#), [6](#), [11–14](#), [19](#), [26–28](#),
[28](#), [29](#)

`make_rootnodes`, [4](#), [6](#), [11–14](#), [19](#), [26–29](#), [29](#)

`row_to_name`, [29](#)
`row_to_query`, [30](#)