

Package ‘paws.compute’

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Title 'Amazon Web Services' Compute Services

Version 0.2.0

Description Interface to 'Amazon Web Services' compute services, including 'Elastic Compute Cloud' ('EC2'), 'Lambda' functions-as-a-service, containers, batch processing, and more <<https://aws.amazon.com/>>.

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URL <https://github.com/paws-r/paws>

BugReports <https://github.com/paws-r/paws/issues>

Imports paws.common (>= 0.5.4)

Suggests testthat

Encoding UTF-8

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Collate 'apprunner_service.R' 'apprunner_interfaces.R'
'apprunner_operations.R' 'batch_service.R' 'batch_interfaces.R'
'batch_operations.R' 'braket_service.R' 'braket_interfaces.R'
'braket_operations.R' 'computeoptimizer_service.R'
'computeoptimizer_interfaces.R' 'computeoptimizer_operations.R'
'ec2_service.R' 'ec2_interfaces.R' 'ec2_operations.R'
'ec2instanceconnect_service.R'
'ec2instanceconnect_interfaces.R'
'ec2instanceconnect_operations.R' 'ecr_service.R'
'ecr_interfaces.R' 'ecr_operations.R' 'ecrpublic_service.R'
'ecrpublic_interfaces.R' 'ecrpublic_operations.R'
'ecs_service.R' 'ecs_interfaces.R' 'ecs_operations.R'
'eks_service.R' 'eks_interfaces.R' 'eks_operations.R'
'elasticbeanstalk_service.R' 'elasticbeanstalk_interfaces.R'
'elasticbeanstalk_operations.R' 'emrcontainers_service.R'
'emrcontainers_interfaces.R' 'emrcontainers_operations.R'
'emrserverless_service.R' 'emrserverless_interfaces.R'
'emrserverless_operations.R' 'imagebuilder_service.R'
'imagebuilder_interfaces.R' 'imagebuilder_operations.R'

'lambda_service.R' 'lambda_interfaces.R' 'lambda_operations.R'
 'lightsail_service.R' 'lightsail_interfaces.R'
 'lightsail_operations.R' 'proton_service.R'
 'proton_interfaces.R' 'proton_operations.R'
 'serverlessapplicationrepository_service.R'
 'serverlessapplicationrepository_interfaces.R'
 'serverlessapplicationrepository_operations.R'

NeedsCompilation no

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Description

App Runner

App Runner is an application service that provides a fast, simple, and cost-effective way to go directly from an existing container image or source code to a running service in the Amazon Web Services Cloud in seconds. You don't need to learn new technologies, decide which compute service to use, or understand how to provision and configure Amazon Web Services resources.

App Runner connects directly to your container registry or source code repository. It provides an automatic delivery pipeline with fully managed operations, high performance, scalability, and security.

For more information about App Runner, see the [App Runner Developer Guide](#). For release information, see the [App Runner Release Notes](#).

To install the Software Development Kits (SDKs), Integrated Development Environment (IDE) Toolkits, and command line tools that you can use to access the API, see [Tools for Amazon Web Services](#).

Endpoints

For a list of Region-specific endpoints that App Runner supports, see [App Runner endpoints and quotas](#) in the *Amazon Web Services General Reference*.

Usage

```
apprunner(config = list())
```

Arguments

config	<p>Optional configuration of credentials, endpoint, and/or region.</p> <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to <code>true</code> to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
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Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the [Operations](#) section.

Service syntax

```

svc <- apprunner(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)

```

Operations

associate_custom_domain	Associate your own domain name with the App Runner subdomain URL of your App
create_auto_scaling_configuration	Create an App Runner automatic scaling configuration resource
create_connection	Create an App Runner connection resource
create_observability_configuration	Create an App Runner observability configuration resource
create_service	Create an App Runner service
create_vpc_connector	Create an App Runner VPC connector resource
delete_auto_scaling_configuration	Delete an App Runner automatic scaling configuration resource
delete_connection	Delete an App Runner connection
delete_observability_configuration	Delete an App Runner observability configuration resource
delete_service	Delete an App Runner service
delete_vpc_connector	Delete an App Runner VPC connector resource
describe_auto_scaling_configuration	Return a full description of an App Runner automatic scaling configuration resource
describe_custom_domains	Return a description of custom domain names that are associated with an App Runner
describe_observability_configuration	Return a full description of an App Runner observability configuration resource
describe_service	Return a full description of an App Runner service
describe_vpc_connector	Return a description of an App Runner VPC connector resource
disassociate_custom_domain	Disassociate a custom domain name from an App Runner service
list_auto_scaling_configurations	Returns a list of active App Runner automatic scaling configurations in your Amazon
list_connections	Returns a list of App Runner connections that are associated with your Amazon Web S
list_observability_configurations	Returns a list of active App Runner observability configurations in your Amazon Web
list_operations	Return a list of operations that occurred on an App Runner service
list_services	Returns a list of running App Runner services in your Amazon Web Services account
list_tags_for_resource	List tags that are associated with for an App Runner resource
list_vpc_connectors	Returns a list of App Runner VPC connectors in your Amazon Web Services account
pause_service	Pause an active App Runner service
resume_service	Resume an active App Runner service

start_deployment	Initiate a manual deployment of the latest commit in a source code repository or the la
tag_resource	Add tags to, or update the tag values of, an App Runner resource
untag_resource	Remove tags from an App Runner resource
update_service	Update an App Runner service

Examples

```
## Not run:
svc <- apprunner()
svc$associate_custom_domain(
  Foo = 123
)

## End(Not run)
```

batch	<i>AWS Batch</i>
-------	------------------

Description

Batch

Using Batch, you can run batch computing workloads on the Amazon Web Services Cloud. Batch computing is a common means for developers, scientists, and engineers to access large amounts of compute resources. Batch uses the advantages of this computing workload to remove the undifferentiated heavy lifting of configuring and managing required infrastructure. At the same time, it also adopts a familiar batch computing software approach. Given these advantages, Batch can help you to efficiently provision resources in response to jobs submitted, thus effectively helping you to eliminate capacity constraints, reduce compute costs, and deliver your results more quickly.

As a fully managed service, Batch can run batch computing workloads of any scale. Batch automatically provisions compute resources and optimizes workload distribution based on the quantity and scale of your specific workloads. With Batch, there's no need to install or manage batch computing software. This means that you can focus your time and energy on analyzing results and solving your specific problems.

Usage

```
batch(config = list())
```

Arguments

config Optional configuration of credentials, endpoint, and/or region.

- **access_key_id**: AWS access key ID
- **secret_access_key**: AWS secret access key

- **session_token**: AWS temporary session token
- **profile**: The name of a profile to use. If not given, then the default profile is used.
- **anonymous**: Set anonymous credentials.
- **endpoint**: The complete URL to use for the constructed client.
- **region**: The AWS Region used in instantiating the client.
- **close_connection**: Immediately close all HTTP connections.
- **timeout**: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.
- **s3_force_path_style**: Set this to true to force the request to use path-style addressing, i.e., `http://s3.amazonaws.com/BUCKET/KEY`.

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- batch(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)
```

Operations

cancel_job	Cancels a job in an Batch job queue
create_compute_environment	Creates an Batch compute environment
create_job_queue	Creates an Batch job queue
create_scheduling_policy	Creates an Batch scheduling policy
delete_compute_environment	Deletes an Batch compute environment
delete_job_queue	Deletes the specified job queue
delete_scheduling_policy	Deletes the specified scheduling policy

deregister_job_definition	Deregisters an Batch job definition
describe_compute_environments	Describes one or more of your compute environments
describe_job_definitions	Describes a list of job definitions
describe_job_queues	Describes one or more of your job queues
describe_jobs	Describes a list of Batch jobs
describe_scheduling_policies	Describes one or more of your scheduling policies
list_jobs	Returns a list of Batch jobs
list_scheduling_policies	Returns a list of Batch scheduling policies
list_tags_for_resource	Lists the tags for an Batch resource
register_job_definition	Registers an Batch job definition
submit_job	Submits an Batch job from a job definition
tag_resource	Associates the specified tags to a resource with the specified resourceArn
terminate_job	Terminates a job in a job queue
untag_resource	Deletes specified tags from an Batch resource
update_compute_environment	Updates an Batch compute environment
update_job_queue	Updates a job queue
update_scheduling_policy	Updates a scheduling policy

Examples

```
## Not run:
svc <- batch()
# This example cancels a job with the specified job ID.
svc$cancel_job(
  jobId = "1d828f65-7a4d-42e8-996d-3b900ed59dc4",
  reason = "Cancelling job."
)

## End(Not run)
```

braket

Braket

Description

The Amazon Braket API Reference provides information about the operations and structures supported in Amazon Braket.

Additional Resources:

- [Amazon Braket Developer Guide](#)

Usage

```
braket(config = list())
```

Arguments

config	<p>Optional configuration of credentials, endpoint, and/or region.</p> <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to <code>true</code> to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
--------	--

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- braket(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)
```

Operations

[cancel_job](#) Cancels an Amazon Braket job

<code>cancel_quantum_task</code>	Cancels the specified task
<code>create_job</code>	Creates an Amazon Braket job
<code>create_quantum_task</code>	Creates a quantum task
<code>get_device</code>	Retrieves the devices available in Amazon Braket
<code>get_job</code>	Retrieves the specified Amazon Braket job
<code>get_quantum_task</code>	Retrieves the specified quantum task
<code>list_tags_for_resource</code>	Shows the tags associated with this resource
<code>search_devices</code>	Searches for devices using the specified filters
<code>search_jobs</code>	Searches for Amazon Braket jobs that match the specified filter values
<code>search_quantum_tasks</code>	Searches for tasks that match the specified filter values
<code>tag_resource</code>	Add a tag to the specified resource
<code>untag_resource</code>	Remove tags from a resource

Examples

```
## Not run:
svc <- braket()
svc$cancel_job(
  Foo = 123
)

## End(Not run)
```

computeoptimizer

AWS Compute Optimizer

Description

Compute Optimizer is a service that analyzes the configuration and utilization metrics of your Amazon Web Services compute resources, such as Amazon EC2 instances, Amazon EC2 Auto Scaling groups, Lambda functions, and Amazon EBS volumes. It reports whether your resources are optimal, and generates optimization recommendations to reduce the cost and improve the performance of your workloads. Compute Optimizer also provides recent utilization metric data, in addition to projected utilization metric data for the recommendations, which you can use to evaluate which recommendation provides the best price-performance trade-off. The analysis of your usage patterns can help you decide when to move or resize your running resources, and still meet your performance and capacity requirements. For more information about Compute Optimizer, including the required permissions to use the service, see the [Compute Optimizer User Guide](#).

Usage

```
computeoptimizer(config = list())
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to <code>true</code> to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
--------	---

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- computeoptimizer(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)
```

Operations

[delete_recommendation_preferences](#)

Deletes a recommendation preference, such as enhanced infrastructure metrics

describe_recommendation_export_jobs	Describes recommendation export jobs created in the last seven days
export_auto_scaling_group_recommendations	Exports optimization recommendations for Auto Scaling groups
export_ebs_volume_recommendations	Exports optimization recommendations for Amazon EBS volumes
export_ec2_instance_recommendations	Exports optimization recommendations for Amazon EC2 instances
export_lambda_function_recommendations	Exports optimization recommendations for Lambda functions
get_auto_scaling_group_recommendations	Returns Auto Scaling group recommendations
get_ebs_volume_recommendations	Returns Amazon Elastic Block Store (Amazon EBS) volume recommendations
get_ec2_instance_recommendations	Returns Amazon EC2 instance recommendations
get_ec2_recommendation_projected_metrics	Returns the projected utilization metrics of Amazon EC2 instance recommendations
get_effective_recommendation_preferences	Returns the recommendation preferences that are in effect for a given resource
get_enrollment_status	Returns the enrollment (opt in) status of an account to the Compute Optimizer
get_enrollment_statuses_for_organization	Returns the Compute Optimizer enrollment (opt-in) status of organization members
get_lambda_function_recommendations	Returns Lambda function recommendations
get_recommendation_preferences	Returns existing recommendation preferences, such as enhanced infrastructure
get_recommendation_summaries	Returns the optimization findings for an account
put_recommendation_preferences	Creates a new recommendation preference or updates an existing recommendation preference
update_enrollment_status	Updates the enrollment (opt in and opt out) status of an account to the Compute Optimizer

Examples

```
## Not run:
svc <- computeoptimizer()
svc$delete_recommendation_preferences(
  Foo = 123
)

## End(Not run)
```

 ec2

Amazon Elastic Compute Cloud

Description

Amazon Elastic Compute Cloud (Amazon EC2) provides secure and resizable computing capacity in the Amazon Web Services Cloud. Using Amazon EC2 eliminates the need to invest in hardware up front, so you can develop and deploy applications faster. Amazon Virtual Private Cloud (Amazon VPC) enables you to provision a logically isolated section of the Amazon Web Services Cloud where you can launch Amazon Web Services resources in a virtual network that you've defined. Amazon Elastic Block Store (Amazon EBS) provides block level storage volumes for use with EC2 instances. EBS volumes are highly available and reliable storage volumes that can be attached to any running instance and used like a hard drive.

To learn more, see the following resources:

- Amazon EC2: [AmazonEC2 product page](#), [Amazon EC2 documentation](#)

- Amazon EBS: [Amazon EBS product page](#), [Amazon EBS documentation](#)
- Amazon VPC: [Amazon VPC product page](#), [Amazon VPC documentation](#)
- Amazon Web Services VPN: [Amazon Web Services VPN product page](#), [Amazon Web Services VPN documentation](#)

Usage

```
ec2(config = list())
```

Arguments

`config` Optional configuration of credentials, endpoint, and/or region.

- **access_key_id**: AWS access key ID
- **secret_access_key**: AWS secret access key
- **session_token**: AWS temporary session token
- **profile**: The name of a profile to use. If not given, then the default profile is used.
- **anonymous**: Set anonymous credentials.
- **endpoint**: The complete URL to use for the constructed client.
- **region**: The AWS Region used in instantiating the client.
- **close_connection**: Immediately close all HTTP connections.
- **timeout**: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.
- **s3_force_path_style**: Set this to `true` to force the request to use path-style addressing, i.e., `http://s3.amazonaws.com/BUCKET/KEY`.

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- ec2(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
```

```

        close_connection = "logical",
        timeout = "numeric",
        s3_force_path_style = "logical"
    )
)

```

Operations

[accept_reserved_instances_exchange_quote](#)
[accept_transit_gateway_multicast_domain_associations](#)
[accept_transit_gateway_peering_attachment](#)
[accept_transit_gateway_vpc_attachment](#)
[accept_vpc_endpoint_connections](#)
[accept_vpc_peering_connection](#)
[advertise_byoip_cidr](#)
[allocate_address](#)
[allocate_hosts](#)
[allocate_ipam_pool_cidr](#)
[apply_security_groups_to_client_vpn_target_network](#)
[assign_ipv6_addresses](#)
[assign_private_ip_addresses](#)
[associate_address](#)
[associate_client_vpn_target_network](#)
[associate_dhcp_options](#)
[associate_enclave_certificate_iam_role](#)
[associate_iam_instance_profile](#)
[associate_instance_event_window](#)
[associate_route_table](#)
[associate_subnet_cidr_block](#)
[associate_transit_gateway_multicast_domain](#)
[associate_transit_gateway_policy_table](#)
[associate_transit_gateway_route_table](#)
[associate_trunk_interface](#)
[associate_vpc_cidr_block](#)
[attach_classic_link_vpc](#)
[attach_internet_gateway](#)
[attach_network_interface](#)
[attach_volume](#)
[attach_vpn_gateway](#)
[authorize_client_vpn_ingress](#)
[authorize_security_group_egress](#)
[authorize_security_group_ingress](#)
[bundle_instance](#)
[cancel_bundle_task](#)
[cancel_capacity_reservation](#)
[cancel_capacity_reservation_fleets](#)
[cancel_conversion_task](#)
[cancel_export_task](#)

Accepts the Convertible Reserved Instance exchange quote
 Accepts a request to associate subnets with a transit gateway multicast domain
 Accepts a transit gateway peering attachment request
 Accepts a request to attach a VPC to a transit gateway
 Accepts one or more interface VPC endpoint connections
 Accept a VPC peering connection request
 Advertises an IPv4 or IPv6 address range that is not advertised by your VPC
 Allocates an Elastic IP address to your Amazon EC2 instance
 Allocates a Dedicated Host to your account
 Allocate a CIDR from an IPAM pool
 Applies a security group to the association between a Client VPN target network and a VPC
 Assigns one or more IPv6 addresses to the specified interface
 Assigns one or more secondary private IP addresses to the specified interface
 Associates an Elastic IP address, or carrier IP address, with a VPC
 Associates a target network with a Client VPN endpoint
 Associates a set of DHCP options (that you've previously created) with a VPC
 Associates an Identity and Access Management (IAM) role with an Amazon EC2 instance
 Associates an IAM instance profile with a running Amazon EC2 instance
 Associates one or more targets with an event window
 Associates a subnet in your VPC or an internet gateway with a transit gateway
 Associates a CIDR block with your subnet
 Associates the specified subnets and transit gateway multicast domain
 Associates the specified transit gateway attachment with a policy table
 Associates the specified attachment with the specified route table
 This API action is currently in limited preview only.
 Associates a CIDR block with your VPC
 We are retiring EC2-Classic on August 15, 2022.
 Attaches an internet gateway or a virtual private gateway to a VPC
 Attaches a network interface to an instance
 Attaches an EBS volume to a running or stopped instance
 Attaches a virtual private gateway to a VPC
 Adds an ingress authorization rule to a Client VPN endpoint
 [VPC only] Adds the specified outbound (egress) rules to a security group
 Adds the specified inbound (ingress) rules to a security group
 Bundles an Amazon instance store-backed Windows instance
 Cancels a bundling operation for an instance store-backed Windows instance
 Cancels the specified Capacity Reservation, releasing the reserved capacity
 Cancels one or more Capacity Reservation Fleets
 Cancels an active conversion task
 Cancels an active export task

cancel_import_task	Cancels an in-process import virtual machine or
cancel_reserved_instances_listing	Cancels the specified Reserved Instance listing in
cancel_spot_fleet_requests	Cancels the specified Spot Fleet requests
cancel_spot_instance_requests	Cancels one or more Spot Instance requests
confirm_product_instance	Determines whether a product code is associated
copy_fpga_image	Copies the specified Amazon FPGA Image (AFI)
copy_image	Initiates the copy of an AMI
copy_snapshot	Copies a point-in-time snapshot of an EBS volume
create_capacity_reservation	Creates a new Capacity Reservation with the spe
create_capacity_reservation_fleet	Creates a Capacity Reservation Fleet
create_carrier_gateway	Creates a carrier gateway
create_client_vpn_endpoint	Creates a Client VPN endpoint
create_client_vpn_route	Adds a route to a network to a Client VPN endpo
create_customer_gateway	Provides information to Amazon Web Services a
create_default_subnet	Creates a default subnet with a size /20 IPv4 CID
create_default_vpc	Creates a default VPC with a size /16 IPv4 CIDR
create_dhcp_options	Creates a set of DHCP options for your VPC
create_egress_only_internet_gateway	[IPv6 only] Creates an egress-only internet gatew
create_fleet	Launches an EC2 Fleet
create_flow_logs	Creates one or more flow logs to capture informa
create_fpga_image	Creates an Amazon FPGA Image (AFI) from the
create_image	Creates an Amazon EBS-backed AMI from an A
create_instance_event_window	Creates an event window in which scheduled eve
create_instance_export_task	Exports a running or stopped instance to an Ama
create_internet_gateway	Creates an internet gateway for use with a VPC
create_ipam	Create an IPAM
create_ipam_pool	Create an IP address pool for Amazon VPC IP A
create_ipam_scope	Create an IPAM scope
create_key_pair	Creates an ED25519 or 2048-bit RSA key pair w
create_launch_template	Creates a launch template
create_launch_template_version	Creates a new version of a launch template
create_local_gateway_route	Creates a static route for the specified local gatew
create_local_gateway_route_table_vpc_association	Associates the specified VPC with the specified I
create_managed_prefix_list	Creates a managed prefix list
create_nat_gateway	Creates a NAT gateway in the specified subnet
create_network_acl	Creates a network ACL in a VPC
create_network_acl_entry	Creates an entry (a rule) in a network ACL with
create_network_insights_access_scope	Creates a Network Access Scope
create_network_insights_path	Creates a path to analyze for reachability
create_network_interface	Creates a network interface in the specified subn
create_network_interface_permission	Grants an Amazon Web Services-authorized acco
create_placement_group	Creates a placement group in which to launch ins
create_public_ipv4_pool	Creates a public IPv4 address pool
create_replace_root_volume_task	Creates a root volume replacement task for an A
create_reserved_instances_listing	Creates a listing for Amazon EC2 Standard Rese
create_restore_image_task	Starts a task that restores an AMI from an Amaz
create_route	Creates a route in a route table within a VPC
create_route_table	Creates a route table for the specified VPC

<code>create_security_group</code>	Creates a security group
<code>create_snapshot</code>	Creates a snapshot of an EBS volume and stores it in Amazon S3
<code>create_snapshots</code>	Creates crash-consistent snapshots of multiple EBS volumes
<code>create_spot_datafeed_subscription</code>	Creates a data feed for Spot Instances, enabling you to track Spot Instance usage and costs
<code>create_store_image_task</code>	Stores an AMI as a single object in an Amazon S3 bucket
<code>create_subnet</code>	Creates a subnet in a specified VPC
<code>create_subnet_cidr_reservation</code>	Creates a subnet CIDR reservation
<code>create_tags</code>	Adds or overwrites only the specified tags for the specified resource
<code>create_traffic_mirror_filter</code>	Creates a Traffic Mirror filter
<code>create_traffic_mirror_filter_rule</code>	Creates a Traffic Mirror filter rule
<code>create_traffic_mirror_session</code>	Creates a Traffic Mirror session
<code>create_traffic_mirror_target</code>	Creates a target for your Traffic Mirror session
<code>create_transit_gateway</code>	Creates a transit gateway
<code>create_transit_gateway_connect</code>	Creates a Connect attachment from a specified transit gateway
<code>create_transit_gateway_connect_peer</code>	Creates a Connect peer for a specified transit gateway
<code>create_transit_gateway_multicast_domain</code>	Creates a multicast domain using the specified transit gateway
<code>create_transit_gateway_peering_attachment</code>	Requests a transit gateway peering attachment between two transit gateways
<code>create_transit_gateway_policy_table</code>	Creates a transit gateway policy table
<code>create_transit_gateway_prefix_list_reference</code>	Creates a reference (route) to a prefix list in a specified VPC
<code>create_transit_gateway_route</code>	Creates a static route for the specified transit gateway
<code>create_transit_gateway_route_table</code>	Creates a route table for the specified transit gateway
<code>create_transit_gateway_route_table_announcement</code>	Advertises a new transit gateway route table
<code>create_transit_gateway_vpc_attachment</code>	Attaches the specified VPC to the specified transit gateway
<code>create_volume</code>	Creates an EBS volume that can be attached to an EC2 instance
<code>create_vpc</code>	Creates a VPC with the specified IPv4 CIDR block
<code>create_vpc_endpoint</code>	Creates a VPC endpoint for a specified service
<code>create_vpc_endpoint_connection_notification</code>	Creates a connection notification for a specified VPC endpoint
<code>create_vpc_endpoint_service_configuration</code>	Creates a VPC endpoint service to which service endpoints can be attached
<code>create_vpc_peering_connection</code>	Requests a VPC peering connection between two VPCs
<code>create_vpn_connection</code>	Creates a VPN connection between an existing VPC and an existing VPN gateway
<code>create_vpn_connection_route</code>	Creates a static route associated with a VPN connection
<code>create_vpn_gateway</code>	Creates a virtual private gateway
<code>delete_carrier_gateway</code>	Deletes a carrier gateway
<code>delete_client_vpn_endpoint</code>	Deletes the specified Client VPN endpoint
<code>delete_client_vpn_route</code>	Deletes a route from a Client VPN endpoint
<code>delete_customer_gateway</code>	Deletes the specified customer gateway
<code>delete_dhcp_options</code>	Deletes the specified set of DHCP options
<code>delete_egress_only_internet_gateway</code>	Deletes an egress-only internet gateway
<code>delete_fleets</code>	Deletes the specified EC2 Fleet
<code>delete_flow_logs</code>	Deletes one or more flow logs
<code>delete_fpga_image</code>	Deletes the specified Amazon FPGA Image (AFI)
<code>delete_instance_event_window</code>	Deletes the specified event window
<code>delete_internet_gateway</code>	Deletes the specified internet gateway
<code>delete_ipam</code>	Delete an IPAM
<code>delete_ipam_pool</code>	Delete an IPAM pool
<code>delete_ipam_scope</code>	Delete the scope for an IPAM
<code>delete_key_pair</code>	Deletes the specified key pair, by removing the public key from the key pair
<code>delete_launch_template</code>	Deletes a launch template

<code>delete_launch_template_versions</code>	Deletes one or more versions of a launch template
<code>delete_local_gateway_route</code>	Deletes the specified route from the specified local gateway
<code>delete_local_gateway_route_table_vpc_association</code>	Deletes the specified association between a VPC and a local gateway route table
<code>delete_managed_prefix_list</code>	Deletes the specified managed prefix list
<code>delete_nat_gateway</code>	Deletes the specified NAT gateway
<code>delete_network_acl</code>	Deletes the specified network ACL
<code>delete_network_acl_entry</code>	Deletes the specified ingress or egress entry (rule) from the specified network ACL
<code>delete_network_insights_access_scope</code>	Deletes the specified Network Access Scope
<code>delete_network_insights_access_scope_analysis</code>	Deletes the specified Network Access Scope analysis
<code>delete_network_insights_analysis</code>	Deletes the specified network insights analysis
<code>delete_network_insights_path</code>	Deletes the specified path
<code>delete_network_interface</code>	Deletes the specified network interface
<code>delete_network_interface_permission</code>	Deletes a permission for a network interface
<code>delete_placement_group</code>	Deletes the specified placement group
<code>delete_public_ipv4_pool</code>	Delete a public IPv4 pool
<code>delete_queued_reserved_instances</code>	Deletes the queued purchases for the specified Reserved Instance offering
<code>delete_route</code>	Deletes the specified route from the specified route table
<code>delete_route_table</code>	Deletes the specified route table
<code>delete_security_group</code>	Deletes a security group
<code>delete_snapshot</code>	Deletes the specified snapshot
<code>delete_spot_datafeed_subscription</code>	Deletes the data feed for Spot Instances
<code>delete_subnet</code>	Deletes the specified subnet
<code>delete_subnet_cidr_reservation</code>	Deletes a subnet CIDR reservation
<code>delete_tags</code>	Deletes the specified set of tags from the specified resource
<code>delete_traffic_mirror_filter</code>	Deletes the specified Traffic Mirror filter
<code>delete_traffic_mirror_filter_rule</code>	Deletes the specified Traffic Mirror rule
<code>delete_traffic_mirror_session</code>	Deletes the specified Traffic Mirror session
<code>delete_traffic_mirror_target</code>	Deletes the specified Traffic Mirror target
<code>delete_transit_gateway</code>	Deletes the specified transit gateway
<code>delete_transit_gateway_connect</code>	Deletes the specified Connect attachment
<code>delete_transit_gateway_connect_peer</code>	Deletes the specified Connect peer
<code>delete_transit_gateway_multicast_domain</code>	Deletes the specified transit gateway multicast domain
<code>delete_transit_gateway_peering_attachment</code>	Deletes a transit gateway peering attachment
<code>delete_transit_gateway_policy_table</code>	Deletes the specified transit gateway policy table
<code>delete_transit_gateway_prefix_list_reference</code>	Deletes a reference (route) to a prefix list in a specific transit gateway
<code>delete_transit_gateway_route</code>	Deletes the specified route from the specified transit gateway route table
<code>delete_transit_gateway_route_table</code>	Deletes the specified transit gateway route table
<code>delete_transit_gateway_route_table_announcement</code>	Advertises to the transit gateway that a transit gateway route table is available
<code>delete_transit_gateway_vpc_attachment</code>	Deletes the specified VPC attachment
<code>delete_volume</code>	Deletes the specified EBS volume
<code>delete_vpc</code>	Deletes the specified VPC
<code>delete_vpc_endpoint_connection_notifications</code>	Deletes one or more VPC endpoint connection notifications
<code>delete_vpc_endpoints</code>	Deletes one or more specified VPC endpoints
<code>delete_vpc_endpoint_service_configurations</code>	Deletes one or more VPC endpoint service configurations
<code>delete_vpc_peering_connection</code>	Deletes a VPC peering connection
<code>delete_vpn_connection</code>	Deletes the specified VPN connection
<code>delete_vpn_connection_route</code>	Deletes the specified static route associated with a VPN connection
<code>delete_vpn_gateway</code>	Deletes the specified virtual private gateway

deprovision_byoip_cidr	Releases the specified address range that you pro
deprovision_ipam_pool_cidr	Deprovision a CIDR provisioned from an IPAM
deprovision_public_ipv4_pool_cidr	Deprovision a CIDR from a public IPv4 pool
deregister_image	Deregisters the specified AMI
deregister_instance_event_notification_attributes	Deregisters tag keys to prevent tags that have the
deregister_transit_gateway_multicast_group_members	Deregisters the specified members (network inter
deregister_transit_gateway_multicast_group_sources	Deregisters the specified sources (network interfa
describe_account_attributes	Describes attributes of your Amazon Web Servic
describe_addresses	Describes the specified Elastic IP addresses or al
describe_addresses_attribute	Describes the attributes of the specified Elastic IP
describe_aggregate_id_format	Describes the longer ID format settings for all re
describe_availability_zones	Describes the Availability Zones, Local Zones, a
describe_bundle_tasks	Describes the specified bundle tasks or all of you
describe_byoip_cidrs	Describes the IP address ranges that were specifi
describe_capacity_reservation_fleets	Describes one or more Capacity Reservation Fleet
describe_capacity_reservations	Describes one or more of your Capacity Reserva
describe_carrier_gateways	Describes one or more of your carrier gateways
describe_classic_link_instances	Describes one or more of your linked EC2-Class
describe_client_vpn_authorization_rules	Describes the authorization rules for a specified C
describe_client_vpn_connections	Describes active client connections and connecti
describe_client_vpn_endpoints	Describes one or more Client VPN endpoints in t
describe_client_vpn_routes	Describes the routes for the specified Client VPN
describe_client_vpn_target_networks	Describes the target networks associated with the
describe_coip_pools	Describes the specified customer-owned address
describe_conversion_tasks	Describes the specified conversion tasks or all yo
describe_customer_gateways	Describes one or more of your VPN customer ga
describe_dhcp_options	Describes one or more of your DHCP options set
describe_egress_only_internet_gateways	Describes one or more of your egress-only intern
describe_elastic_gpus	Describes the Elastic Graphics accelerator associ
describe_export_image_tasks	Describes the specified export image tasks or all
describe_export_tasks	Describes the specified export instance tasks or a
describe_fast_launch_images	Describe details for Windows AMIs that are confi
describe_fast_snapshot_restores	Describes the state of fast snapshot restores for y
describe_fleet_history	Describes the events for the specified EC2 Fleet
describe_fleet_instances	Describes the running instances for the specified
describe_fleets	Describes the specified EC2 Fleets or all of your
describe_flow_logs	Describes one or more flow logs
describe_fpga_image_attribute	Describes the specified attribute of the specified
describe_fpga_images	Describes the Amazon FPGA Images (AFIs) ava
describe_host_reservation_offerings	Describes the Dedicated Host reservations that ar
describe_host_reservations	Describes reservations that are associated with D
describe_hosts	Describes the specified Dedicated Hosts or all yo
describe_iam_instance_profile_associations	Describes your IAM instance profile associations
describe_identity_id_format	Describes the ID format settings for resources fo
describe_id_format	Describes the ID format settings for your resourc
describe_image_attribute	Describes the specified attribute of the specified
describe_images	Describes the specified images (AMIs, AKIs, and
describe_import_image_tasks	Displays details about an import virtual machine

<code>describe_import_snapshot_tasks</code>	Describes your import snapshot tasks
<code>describe_instance_attribute</code>	Describes the specified attribute of the specified instance
<code>describe_instance_credit_specifications</code>	Describes the credit option for CPU usage of the specified instance
<code>describe_instance_event_notification_attributes</code>	Describes the tag keys that are registered to appear on the specified instance
<code>describe_instance_event_windows</code>	Describes the specified event windows or all event windows for the specified instance
<code>describe_instances</code>	Describes the specified instances or all instances in the specified region
<code>describe_instance_status</code>	Describes the status of the specified instances or all instances in the specified region
<code>describe_instance_type_offerings</code>	Returns a list of all instance types offered in the specified region
<code>describe_instance_types</code>	Describes the details of the instance types that are available in the specified region
<code>describe_internet_gateways</code>	Describes one or more of your internet gateways
<code>describe_ipam_pools</code>	Get information about your IPAM pools
<code>describe_ipams</code>	Get information about your IPAM pools
<code>describe_ipam_scopes</code>	Get information about your IPAM scopes
<code>describe_ipv_6_pools</code>	Describes your IPv6 address pools
<code>describe_key_pairs</code>	Describes the specified key pairs or all of your key pairs
<code>describe_launch_templates</code>	Describes one or more launch templates
<code>describe_launch_template_versions</code>	Describes one or more versions of a specified launch template
<code>describe_local_gateway_route_tables</code>	Describes one or more local gateway route tables
<code>describe_local_gateway_route_table_virtual_interface_group_associations</code>	Describes the associations between virtual interfaces and local gateway route tables
<code>describe_local_gateway_route_table_vpc_associations</code>	Describes the specified associations between VPCs and local gateway route tables
<code>describe_local_gateways</code>	Describes one or more local gateways
<code>describe_local_gateway_virtual_interface_groups</code>	Describes the specified local gateway virtual interface groups
<code>describe_local_gateway_virtual_interfaces</code>	Describes the specified local gateway virtual interfaces
<code>describe_managed_prefix_lists</code>	Describes your managed prefix lists and any Amazon Managed Prefix Lists
<code>describe_moving_addresses</code>	Describes your Elastic IP addresses that are being moved
<code>describe_nat_gateways</code>	Describes one or more of your NAT gateways
<code>describe_network_acls</code>	Describes one or more of your network ACLs
<code>describe_network_insights_access_scope_analyses</code>	Describes the specified Network Access Scope analyses
<code>describe_network_insights_access_scopes</code>	Describes the specified Network Access Scopes
<code>describe_network_insights_analyses</code>	Describes one or more of your network insights analyses
<code>describe_network_insights_paths</code>	Describes one or more of your paths
<code>describe_network_interface_attribute</code>	Describes a network interface attribute
<code>describe_network_interface_permissions</code>	Describes the permissions for your network interfaces
<code>describe_network_interfaces</code>	Describes one or more of your network interfaces
<code>describe_placement_groups</code>	Describes the specified placement groups or all placement groups in the specified region
<code>describe_prefix_lists</code>	Describes available Amazon Web Services service prefix lists
<code>describe_principal_id_format</code>	Describes the ID format settings for the root user
<code>describe_public_ipv_4_pools</code>	Describes the specified IPv4 address pools
<code>describe_regions</code>	Describes the Regions that are enabled for your account
<code>describe_replace_root_volume_tasks</code>	Describes a root volume replacement task
<code>describe_reserved_instances</code>	Describes one or more of the Reserved Instances
<code>describe_reserved_instances_listings</code>	Describes your account's Reserved Instance listings
<code>describe_reserved_instances_modifications</code>	Describes the modifications made to your Reserved Instances
<code>describe_reserved_instances_offerings</code>	Describes Reserved Instance offerings that are available in the specified region
<code>describe_route_tables</code>	Describes one or more of your route tables
<code>describe_scheduled_instance_availability</code>	Finds available schedules that meet the specified criteria
<code>describe_scheduled_instances</code>	Describes the specified Scheduled Instances or all Scheduled Instances in the specified region
<code>describe_security_group_references</code>	[VPC only] Describes the VPCs on the other side of the security group

describe_security_group_rules	Describes one or more of your security group rules
describe_security_groups	Describes the specified security groups or all of your security groups
describe_snapshot_attribute	Describes the specified attribute of the specified snapshot
describe_snapshots	Describes the specified EBS snapshots available to you
describe_snapshot_tier_status	Describes the storage tier status of one or more Amazon EBS snapshots
describe_spot_datafeed_subscription	Describes the data feed for Spot Instances
describe_spot_fleet_instances	Describes the running instances for the specified Spot Fleet
describe_spot_fleet_request_history	Describes the events for the specified Spot Fleet request
describe_spot_fleet_requests	Describes your Spot Fleet requests
describe_spot_instance_requests	Describes the specified Spot Instance requests
describe_spot_price_history	Describes the Spot price history
describe_stale_security_groups	[VPC only] Describes the stale security group rules
describe_store_image_tasks	Describes the progress of the AMI store tasks
describe_subnets	Describes one or more of your subnets
describe_tags	Describes the specified tags for your EC2 resources
describe_traffic_mirror_filters	Describes one or more Traffic Mirror filters
describe_traffic_mirror_sessions	Describes one or more Traffic Mirror sessions
describe_traffic_mirror_targets	Information about one or more Traffic Mirror targets
describe_transit_gateway_attachments	Describes one or more attachments between resources
describe_transit_gateway_connect_peers	Describes one or more Connect peers
describe_transit_gateway_connects	Describes one or more Connect attachments
describe_transit_gateway_multicast_domains	Describes one or more transit gateway multicast domains
describe_transit_gateway_peering_attachments	Describes your transit gateway peering attachments
describe_transit_gateway_policy_tables	Describes one or more transit gateway route policies
describe_transit_gateway_route_table_announcements	Describes one or more transit gateway route table announcements
describe_transit_gateway_route_tables	Describes one or more transit gateway route tables
describe_transit_gateways	Describes one or more transit gateways
describe_transit_gateway_vpc_attachments	Describes one or more VPC attachments
describe_trunk_interface_associations	This API action is currently in limited preview or experimental
describe_volume_attribute	Describes the specified attribute of the specified volume
describe_volumes	Describes the specified EBS volumes or all of your EBS volumes
describe_volumes_modifications	Describes the most recent volume modification records
describe_volume_status	Describes the status of the specified volumes
describe_vpc_attribute	Describes the specified attribute of the specified VPC
describe_vpc_classic_link	Describes the ClassicLink status of one or more VPCs
describe_vpc_classic_link_dns_support	We are retiring EC2-Classic on August 15, 2022
describe_vpc_endpoint_connection_notifications	Describes the connection notifications for VPC endpoints
describe_vpc_endpoint_connections	Describes the VPC endpoint connections to your VPC
describe_vpc_endpoints	Describes one or more of your VPC endpoints
describe_vpc_endpoint_service_configurations	Describes the VPC endpoint service configurations
describe_vpc_endpoint_service_permissions	Describes the principals (service consumers) that can use the service
describe_vpc_endpoint_services	Describes available services to which you can create VPC endpoints
describe_vpc_peering_connections	Describes one or more of your VPC peering connections
describe_vpces	Describes one or more of your VPCs
describe_vpn_connections	Describes one or more of your VPN connections
describe_vpn_gateways	Describes one or more of your virtual private gateways
detach_classic_link_vpc	We are retiring EC2-Classic on August 15, 2022
detach_internet_gateway	Detaches an internet gateway from a VPC, disabling it

<code>detach_network_interface</code>	Detaches a network interface from an instance
<code>detach_volume</code>	Detaches an EBS volume from an instance
<code>detach_vpn_gateway</code>	Detaches a virtual private gateway from a VPC
<code>disable_ebs_encryption_by_default</code>	Disables EBS encryption by default for your account
<code>disable_fast_launch</code>	Discontinue faster launching for a Windows AMI
<code>disable_fast_snapshot_restores</code>	Disables fast snapshot restores for the specified snapshot
<code>disable_image_deprecation</code>	Cancel the deprecation of the specified AMI
<code>disable_ipam_organization_admin_account</code>	Disable the IPAM account
<code>disable_serial_console_access</code>	Disables access to the EC2 serial console of all instances
<code>disable_transit_gateway_route_table_propagation</code>	Disables the specified resource attachment from a transit gateway
<code>disable_vgw_route_propagation</code>	Disables a virtual private gateway (VGW) from propagating routes
<code>disable_vpc_classic_link</code>	Disables ClassicLink for a VPC
<code>disable_vpc_classic_link_dns_support</code>	Disables ClassicLink DNS support for a VPC
<code>disassociate_address</code>	Disassociates an Elastic IP address from the instance
<code>disassociate_client_vpn_target_network</code>	Disassociates a target network from the specified client VPN
<code>disassociate_enclave_certificate_iam_role</code>	Disassociates an IAM role from an Enclave Certificate
<code>disassociate_iam_instance_profile</code>	Disassociates an IAM instance profile from a running instance
<code>disassociate_instance_event_window</code>	Disassociates one or more targets from an event window
<code>disassociate_route_table</code>	Disassociates a subnet or gateway from a route table
<code>disassociate_subnet_cidr_block</code>	Disassociates a CIDR block from a subnet
<code>disassociate_transit_gateway_multicast_domain</code>	Disassociates the specified subnets from the transit gateway
<code>disassociate_transit_gateway_policy_table</code>	Removes the association between an attachment and a policy table
<code>disassociate_transit_gateway_route_table</code>	Disassociates a resource attachment from a transit gateway
<code>disassociate_trunk_interface</code>	This API action is currently in limited preview of the Amazon EC2 console
<code>disassociate_vpc_cidr_block</code>	Disassociates a CIDR block from a VPC
<code>enable_ebs_encryption_by_default</code>	Enables EBS encryption by default for your account
<code>enable_fast_launch</code>	When you enable faster launching for a Windows AMI, you can launch instances faster
<code>enable_fast_snapshot_restores</code>	Enables fast snapshot restores for the specified snapshot
<code>enable_image_deprecation</code>	Enables deprecation of the specified AMI at the end of its lifecycle
<code>enable_ipam_organization_admin_account</code>	Enable an Organizations member account as the IPAM account
<code>enable_serial_console_access</code>	Enables access to the EC2 serial console of all instances
<code>enable_transit_gateway_route_table_propagation</code>	Enables the specified attachment to propagate routes
<code>enable_vgw_route_propagation</code>	Enables a virtual private gateway (VGW) to propagate routes
<code>enable_volume_io</code>	Enables I/O operations for a volume that had I/O throttling
<code>enable_vpc_classic_link</code>	We are retiring EC2-Classic on August 15, 2022
<code>enable_vpc_classic_link_dns_support</code>	We are retiring EC2-Classic on August 15, 2022
<code>export_client_vpn_client_certificate_revocation_list</code>	Downloads the client certificate revocation list for a Client VPN
<code>export_client_vpn_client_configuration</code>	Downloads the contents of the Client VPN endpoint
<code>export_image</code>	Exports an Amazon Machine Image (AMI) to a new region
<code>export_transit_gateway_routes</code>	Exports routes from the specified transit gateway
<code>get_associated_enclave_certificate_iam_roles</code>	Returns the IAM roles that are associated with the Enclave Certificate
<code>get_associated_ipv6_pool_cidrs</code>	Gets information about the IPv6 CIDR block associated with the pool
<code>get_capacity_reservation_usage</code>	Gets usage information about a Capacity Reservation
<code>get_coip_pool_usage</code>	Describes the allocations from the specified customer pool
<code>get_console_output</code>	Gets the console output for the specified instance
<code>get_console_screenshot</code>	Retrieve a JPG-format screenshot of a running instance
<code>get_default_credit_specification</code>	Describes the default credit option for CPU usage
<code>get_ebs_default_kms_key_id</code>	Describes the default KMS key for EBS encryption

<code>get_ebs_encryption_by_default</code>	Describes whether EBS encryption by default is
<code>get_flow_logs_integration_template</code>	Generates a CloudFormation template that stream
<code>get_groups_for_capacity_reservation</code>	Lists the resource groups to which a Capacity Re
<code>get_host_reservation_purchase_preview</code>	Preview a reservation purchase with configuratio
<code>get_instance_types_from_instance_requirements</code>	Returns a list of instance types with the specified
<code>get_instance_uefi_data</code>	A binary representation of the UEFI variable stor
<code>get_ipam_address_history</code>	Retrieve historical information about a CIDR with
<code>get_ipam_pool_allocations</code>	Get a list of all the CIDR allocations in an IPAM
<code>get_ipam_pool_cidrs</code>	Get the CIDRs provisioned to an IPAM pool
<code>get_ipam_resource_cidrs</code>	Get information about the resources in a scope
<code>get_launch_template_data</code>	Retrieves the configuration data of the specified i
<code>get_managed_prefix_list_associations</code>	Gets information about the resources that are ass
<code>get_managed_prefix_list_entries</code>	Gets information about the entries for a specified
<code>get_network_insights_access_scope_analysis_findings</code>	Gets the findings for the specified Network Acces
<code>get_network_insights_access_scope_content</code>	Gets the content for the specified Network Acces
<code>get_password_data</code>	Retrieves the encrypted administrator password f
<code>get_reserved_instances_exchange_quote</code>	Returns a quote and exchange information for ex
<code>get_serial_console_access_status</code>	Retrieves the access status of your account to the
<code>get_spot_placement_scores</code>	Calculates the Spot placement score for a Region
<code>get_subnet_cidr_reservations</code>	Gets information about the subnet CIDR reservat
<code>get_transit_gateway_attachment_propagations</code>	Lists the route tables to which the specified resou
<code>get_transit_gateway_multicast_domain_associations</code>	Gets information about the associations for the tr
<code>get_transit_gateway_policy_table_associations</code>	Gets a list of the transit gateway policy table asso
<code>get_transit_gateway_policy_table_entries</code>	Returns a list of transit gateway policy table entr
<code>get_transit_gateway_prefix_list_references</code>	Gets information about the prefix list references
<code>get_transit_gateway_route_table_associations</code>	Gets information about the associations for the sp
<code>get_transit_gateway_route_table_propagations</code>	Gets information about the route table propagatio
<code>get_vpn_connection_device_sample_configuration</code>	Download an Amazon Web Services-provided sam
<code>get_vpn_connection_device_types</code>	Obtain a list of customer gateway devices for wh
<code>import_client_vpn_client_certificate_revocation_list</code>	Uploads a client certificate revocation list to the s
<code>import_image</code>	Import single or multi-volume disk images or EE
<code>import_instance</code>	Creates an import instance task using metadata fr
<code>import_key_pair</code>	Imports the public key from an RSA or ED25519
<code>import_snapshot</code>	Imports a disk into an EBS snapshot
<code>import_volume</code>	Creates an import volume task using metadata fr
<code>list_images_in_recycle_bin</code>	Lists one or more AMIs that are currently in the
<code>list_snapshots_in_recycle_bin</code>	Lists one or more snapshots that are currently in
<code>modify_address_attribute</code>	Modifies an attribute of the specified Elastic IP a
<code>modify_availability_zone_group</code>	Changes the opt-in status of the Local Zone and
<code>modify_capacity_reservation</code>	Modifies a Capacity Reservation's capacity and t
<code>modify_capacity_reservation_fleet</code>	Modifies a Capacity Reservation Fleet
<code>modify_client_vpn_endpoint</code>	Modifies the specified Client VPN endpoint
<code>modify_default_credit_specification</code>	Modifies the default credit option for CPU usage
<code>modify_ebs_default_kms_key_id</code>	Changes the default KMS key for EBS encryption
<code>modify_fleet</code>	Modifies the specified EC2 Fleet
<code>modify_fpga_image_attribute</code>	Modifies the specified attribute of the specified A
<code>modify_hosts</code>	Modify the auto-placement setting of a Dedicated
<code>modify_identity_id_format</code>	Modifies the ID format of a resource for a specif

<code>modify_id_format</code>	Modifies the ID format for the specified resource
<code>modify_image_attribute</code>	Modifies the specified attribute of the specified Amazon Machine Image
<code>modify_instance_attribute</code>	Modifies the specified attribute of the specified instance
<code>modify_instance_capacity_reservation_attributes</code>	Modifies the Capacity Reservation settings for a specified instance
<code>modify_instance_credit_specification</code>	Modifies the credit option for CPU usage on a running instance
<code>modify_instance_event_start_time</code>	Modifies the start time for a scheduled Amazon Linux instance
<code>modify_instance_event_window</code>	Modifies the specified event window
<code>modify_instance_maintenance_options</code>	Modifies the recovery behavior of your instance
<code>modify_instance_metadata_options</code>	Modify the instance metadata parameters on a running instance
<code>modify_instance_placement</code>	Modifies the placement attributes for a specified instance
<code>modify_ipam</code>	Modify the configurations of an IPAM
<code>modify_ipam_pool</code>	Modify the configurations of an IPAM pool
<code>modify_ipam_resource_cidr</code>	Modify a resource CIDR
<code>modify_ipam_scope</code>	Modify an IPAM scope
<code>modify_launch_template</code>	Modifies a launch template
<code>modify_managed_prefix_list</code>	Modifies the specified managed prefix list
<code>modify_network_interface_attribute</code>	Modifies the specified network interface attribute
<code>modify_private_dns_name_options</code>	Modifies the options for instance hostnames for a specified instance
<code>modify_reserved_instances</code>	Modifies the Availability Zone, instance count, instance type, and other attributes of a reserved instance
<code>modify_security_group_rules</code>	Modifies the rules of a security group
<code>modify_snapshot_attribute</code>	Adds or removes permission settings for the specified Amazon EBS snapshot
<code>modify_snapshot_tier</code>	Archives an Amazon EBS snapshot
<code>modify_spot_fleet_request</code>	Modifies the specified Spot Fleet request
<code>modify_subnet_attribute</code>	Modifies a subnet attribute
<code>modify_traffic_mirror_filter_network_services</code>	Allows or restricts mirroring network services
<code>modify_traffic_mirror_filter_rule</code>	Modifies the specified Traffic Mirror rule
<code>modify_traffic_mirror_session</code>	Modifies a Traffic Mirror session
<code>modify_transit_gateway</code>	Modifies the specified transit gateway
<code>modify_transit_gateway_prefix_list_reference</code>	Modifies a reference (route) to a prefix list in a specified transit gateway
<code>modify_transit_gateway_vpc_attachment</code>	Modifies the specified VPC attachment
<code>modify_volume</code>	You can modify several parameters of an existing Amazon EBS volume
<code>modify_volume_attribute</code>	Modifies a volume attribute
<code>modify_vpc_attribute</code>	Modifies the specified attribute of the specified VPC
<code>modify_vpc_endpoint</code>	Modifies attributes of a specified VPC endpoint
<code>modify_vpc_endpoint_connection_notification</code>	Modifies a connection notification for VPC endpoint
<code>modify_vpc_endpoint_service_configuration</code>	Modifies the attributes of your VPC endpoint service
<code>modify_vpc_endpoint_service_payer_responsibility</code>	Modifies the payer responsibility for your VPC endpoint service
<code>modify_vpc_endpoint_service_permissions</code>	Modifies the permissions for your VPC endpoint service
<code>modify_vpc_peering_connection_options</code>	We are retiring EC2-Classic on August 15, 2022. This action is deprecated. For more information, see Retiring EC2-Classic .
<code>modify_vpc_tenancy</code>	Modifies the instance tenancy attribute of the specified instance
<code>modify_vpn_connection</code>	Modifies the customer gateway or the target gateway
<code>modify_vpn_connection_options</code>	Modifies the connection options for your Site-to-Site VPN
<code>modify_vpn_tunnel_certificate</code>	Modifies the VPN tunnel endpoint certificate
<code>modify_vpn_tunnel_options</code>	Modifies the options for a VPN tunnel in an Amazon Virtual Private Cloud
<code>monitor_instances</code>	Enables detailed monitoring for a running instance
<code>move_address_to_vpc</code>	Moves an Elastic IP address from the EC2-Classic network to a VPC
<code>move_byoip_cidr_to_ipam</code>	Move an BYOIP IPv4 CIDR to IPAM from a public IP address range
<code>provision_byoip_cidr</code>	Provisions an IPv4 or IPv6 address range for use with Amazon EC2

provision_ipam_pool_cidr
 provision_public_ipv4_pool_cidr
 purchase_host_reservation
 purchase_reserved_instances_offering
 purchase_scheduled_instances
 reboot_instances
 register_image
 register_instance_event_notification_attributes
 register_transit_gateway_multicast_group_members
 register_transit_gateway_multicast_group_sources
 reject_transit_gateway_multicast_domain_associations
 reject_transit_gateway_peering_attachment
 reject_transit_gateway_vpc_attachment
 reject_vpc_endpoint_connections
 reject_vpc_peering_connection
 release_address
 release_hosts
 release_ipam_pool_allocation
 replace_iam_instance_profile_association
 replace_network_acl_association
 replace_network_acl_entry
 replace_route
 replace_route_table_association
 replace_transit_gateway_route
 report_instance_status
 request_spot_fleet
 request_spot_instances
 reset_address_attribute
 reset_ebs_default_kms_key_id
 reset_fpga_image_attribute
 reset_image_attribute
 reset_instance_attribute
 reset_network_interface_attribute
 reset_snapshot_attribute
 restore_address_to_classic
 restore_image_from_recycle_bin
 restore_managed_prefix_list_version
 restore_snapshot_from_recycle_bin
 restore_snapshot_tier
 revoke_client_vpn_ingress
 revoke_security_group_egress
 revoke_security_group_ingress
 run_instances
 run_scheduled_instances
 search_local_gateway_routes
 search_transit_gateway_multicast_groups
 search_transit_gateway_routes
 send_diagnostic_interrupt

Provision a CIDR to an IPAM pool
 Provision a CIDR to a public IPv4 pool
 Purchase a reservation with configurations that m
 Purchases a Reserved Instance for use with your
 Purchases the Scheduled Instances with the speci
 Requests a reboot of the specified instances
 Registers an AMI
 Registers a set of tag keys to include in scheduled
 Registers members (network interfaces) with the
 Registers sources (network interfaces) with the s
 Rejects a request to associate cross-account subn
 Rejects a transit gateway peering attachment req
 Rejects a request to attach a VPC to a transit gate
 Rejects one or more VPC endpoint connection re
 Rejects a VPC peering connection request
 Releases the specified Elastic IP address
 When you no longer want to use an On-Demand
 Release an allocation within an IPAM pool
 Replaces an IAM instance profile for the specifie
 Changes which network ACL a subnet is associa
 Replaces an entry (rule) in a network ACL
 Replaces an existing route within a route table in
 Changes the route table associated with a given s
 Replaces the specified route in the specified trans
 Submits feedback about the status of an instance
 Creates a Spot Fleet request
 Creates a Spot Instance request
 Resets the attribute of the specified IP address
 Resets the default KMS key for EBS encryption
 Resets the specified attribute of the specified Am
 Resets an attribute of an AMI to its default value
 Resets an attribute of an instance to its default va
 Resets a network interface attribute
 Resets permission settings for the specified snap
 Restores an Elastic IP address that was previousl
 Restores an AMI from the Recycle Bin
 Restores the entries from a previous version of a
 Restores a snapshot from the Recycle Bin
 Restores an archived Amazon EBS snapshot for
 Removes an ingress authorization rule from a CL
 [VPC only] Removes the specified outbound (eg
 Removes the specified inbound (ingress) rules fr
 Launches the specified number of instances using
 Launches the specified Scheduled Instances
 Searches for routes in the specified local gateway
 Searches one or more transit gateway multicast g
 Searches for routes in the specified transit gatewa
 Sends a diagnostic interrupt to the specified Ama

<code>start_instances</code>	Starts an Amazon EBS-backed instance that you
<code>start_network_insights_access_scope_analysis</code>	Starts analyzing the specified Network Access S
<code>start_network_insights_analysis</code>	Starts analyzing the specified path
<code>start_vpc_endpoint_service_private_dns_verification</code>	Initiates the verification process to prove that the
<code>stop_instances</code>	Stops an Amazon EBS-backed instance
<code>terminate_client_vpn_connections</code>	Terminates active Client VPN endpoint connectio
<code>terminate_instances</code>	Shuts down the specified instances
<code>unassign_ipv6_addresses</code>	Unassigns one or more IPv6 addresses IPv4 Pref
<code>unassign_private_ip_addresses</code>	Unassigns one or more secondary private IP addr
<code>unmonitor_instances</code>	Disables detailed monitoring for a running instar
<code>update_security_group_rule_descriptions_egress</code>	[VPC only] Updates the description of an egress
<code>update_security_group_rule_descriptions_ingress</code>	Updates the description of an ingress (inbound) s
<code>withdraw_byoip_cidr</code>	Stops advertising an address range that is provisi

Examples

```
## Not run:
svc <- ec2()
# This example allocates an Elastic IP address to use with an instance in
# a VPC.
svc$allocate_address(
  Domain = "vpc"
)

## End(Not run)
```

ec2instanceconnect *AWS EC2 Instance Connect*

Description

Amazon EC2 Instance Connect enables system administrators to publish one-time use SSH public keys to EC2, providing users a simple and secure way to connect to their instances.

Usage

```
ec2instanceconnect(config = list())
```

Arguments

`config` Optional configuration of credentials, endpoint, and/or region.

- **access_key_id**: AWS access key ID
- **secret_access_key**: AWS secret access key
- **session_token**: AWS temporary session token

- **profile:** The name of a profile to use. If not given, then the default profile is used.
- **anonymous:** Set anonymous credentials.
- **endpoint:** The complete URL to use for the constructed client.
- **region:** The AWS Region used in instantiating the client.
- **close_connection:** Immediately close all HTTP connections.
- **timeout:** The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.
- **s3_force_path_style:** Set this to true to force the request to use path-style addressing, i.e., `http://s3.amazonaws.com/BUCKET/KEY`.

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- ec2instanceconnect(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)
```

Operations

send_serial_console_ssh_public_key	Pushes an SSH public key to the specified EC2 instance
send_ssh_public_key	Pushes an SSH public key to the specified EC2 instance for use by the specified user

Examples

```
## Not run:
```

```

svc <- ec2instanceconnect()
# The following example pushes a sample SSH public key to the EC2 instance
# i-abcd1234 in AZ us-west-2b for use by the instance OS user ec2-user.
svc$send_ssh_public_key(
  AvailabilityZone = "us-west-2a",
  InstanceId = "i-abcd1234",
  InstanceOSUser = "ec2-user",
  SSHPublicKey = "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQ3F1Hqj2eqCdrGHuA6d. . ."
)

## End(Not run)

```

 ecr

Amazon EC2 Container Registry

Description

Amazon Elastic Container Registry

Amazon Elastic Container Registry (Amazon ECR) is a managed container image registry service. Customers can use the familiar Docker CLI, or their preferred client, to push, pull, and manage images. Amazon ECR provides a secure, scalable, and reliable registry for your Docker or Open Container Initiative (OCI) images. Amazon ECR supports private repositories with resource-based permissions using IAM so that specific users or Amazon EC2 instances can access repositories and images.

Amazon ECR has service endpoints in each supported Region. For more information, see [Amazon ECR endpoints](#) in the *Amazon Web Services General Reference*.

Usage

```
ecr(config = list())
```

Arguments

config	<p>Optional configuration of credentials, endpoint, and/or region.</p> <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to true to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
--------	---

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- ecr(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)
```

Operations

batch_check_layer_availability	Checks the availability of one or more image layers in a repository
batch_delete_image	Deletes a list of specified images within a repository
batch_get_image	Gets detailed information for an image
batch_get_repository_scanning_configuration	Gets the scanning configuration for one or more repositories
complete_layer_upload	Informs Amazon ECR that the image layer upload has completed for a specified image
create_pull_through_cache_rule	Creates a pull through cache rule
create_repository	Creates a repository
delete_lifecycle_policy	Deletes the lifecycle policy associated with the specified repository
delete_pull_through_cache_rule	Deletes a pull through cache rule
delete_registry_policy	Deletes the registry permissions policy
delete_repository	Deletes a repository
delete_repository_policy	Deletes the repository policy associated with the specified repository
describe_image_replication_status	Returns the replication status for a specified image
describe_images	Returns metadata about the images in a repository
describe_image_scan_findings	Returns the scan findings for the specified image
describe_pull_through_cache_rules	Returns the pull through cache rules for a registry
describe_registry	Describes the settings for a registry
describe_repositories	Describes image repositories in a registry
get_authorization_token	Retrieves an authorization token
get_download_url_for_layer	Retrieves the pre-signed Amazon S3 download URL corresponding to an image layer

get_lifecycle_policy	Retrieves the lifecycle policy for the specified repository
get_lifecycle_policy_preview	Retrieves the results of the lifecycle policy preview request for the specified repository
get_registry_policy	Retrieves the permissions policy for a registry
get_registry_scanning_configuration	Retrieves the scanning configuration for a registry
get_repository_policy	Retrieves the repository policy for the specified repository
initiate_layer_upload	Notifies Amazon ECR that you intend to upload an image layer
list_images	Lists all the image IDs for the specified repository
list_tags_for_resource	List the tags for an Amazon ECR resource
put_image	Creates or updates the image manifest and tags associated with an image
put_image_scanning_configuration	The PutImageScanningConfiguration API is being deprecated, in favor of put_registry_scanning_configuration
put_image_tag_mutability	Updates the image tag mutability settings for the specified repository
put_lifecycle_policy	Creates or updates the lifecycle policy for the specified repository
put_registry_policy	Creates or updates the permissions policy for your registry
put_registry_scanning_configuration	Creates or updates the scanning configuration for your private registry
put_replication_configuration	Creates or updates the replication configuration for a registry
set_repository_policy	Applies a repository policy to the specified repository to control access permissions
start_image_scan	Starts an image vulnerability scan
start_lifecycle_policy_preview	Starts a preview of a lifecycle policy for the specified repository
tag_resource	Adds specified tags to a resource with the specified ARN
untag_resource	Deletes specified tags from a resource
upload_layer_part	Uploads an image layer part to Amazon ECR

Examples

```
## Not run:
svc <- ecr()
# This example deletes images with the tags precise and trusty in a
# repository called ubuntu in the default registry for an account.
svc$batch_delete_image(
  imageIds = list(
    list(
      imageTag = "precise"
    )
  ),
  repositoryName = "ubuntu"
)

## End(Not run)
```

Description

Amazon Elastic Container Registry (Amazon ECR) is a managed container image registry service. Amazon ECR provides both public and private registries to host your container images. You can use the familiar Docker CLI, or their preferred client, to push, pull, and manage images. Amazon ECR provides a secure, scalable, and reliable registry for your Docker or Open Container Initiative (OCI) images. Amazon ECR supports public repositories with this API. For information about the Amazon ECR API for private repositories, see [Amazon Elastic Container Registry API Reference](#).

Usage

```
ecrpublic(config = list())
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to true to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
--------	--

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- ecrpublic(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
```

```

    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)

```

Operations

batch_check_layer_availability	Checks the availability of one or more image layers within a repository in a public registry
batch_delete_image	Deletes a list of specified images within a repository in a public registry
complete_layer_upload	Notifies Amazon ECR that the image layer upload has completed for a specified public registry
create_repository	Creates a repository in a public registry
delete_repository	Deletes a repository in a public registry
delete_repository_policy	Deletes the repository policy associated with the specified repository
describe_images	Returns metadata about the images in a repository in a public registry
describe_image_tags	Returns the image tag details for a repository in a public registry
describe_registries	Returns details for a public registry
describe_repositories	Describes repositories in a public registry
get_authorization_token	Retrieves an authorization token
get_registry_catalog_data	Retrieves catalog metadata for a public registry
get_repository_catalog_data	Retrieve catalog metadata for a repository in a public registry
get_repository_policy	Retrieves the repository policy for the specified repository
initiate_layer_upload	Notifies Amazon ECR that you intend to upload an image layer
list_tags_for_resource	List the tags for an Amazon ECR Public resource
put_image	Creates or updates the image manifest and tags associated with an image
put_registry_catalog_data	Create or updates the catalog data for a public registry
put_repository_catalog_data	Creates or updates the catalog data for a repository in a public registry
set_repository_policy	Applies a repository policy to the specified public repository to control access permissions
tag_resource	Associates the specified tags to a resource with the specified resourceArn
untag_resource	Deletes specified tags from a resource
upload_layer_part	Uploads an image layer part to Amazon ECR

Examples

```

## Not run:
svc <- ecrpublic()
svc$batch_check_layer_availability(
  Foo = 123
)

## End(Not run)

```

Description

Amazon Elastic Container Service

Amazon Elastic Container Service (Amazon ECS) is a highly scalable, fast, container management service. It makes it easy to run, stop, and manage Docker containers. You can host your cluster on a serverless infrastructure that's managed by Amazon ECS by launching your services or tasks on Fargate. For more control, you can host your tasks on a cluster of Amazon Elastic Compute Cloud (Amazon EC2) or External (on-premises) instances that you manage.

Amazon ECS makes it easy to launch and stop container-based applications with simple API calls. This makes it easy to get the state of your cluster from a centralized service, and gives you access to many familiar Amazon EC2 features.

You can use Amazon ECS to schedule the placement of containers across your cluster based on your resource needs, isolation policies, and availability requirements. With Amazon ECS, you don't need to operate your own cluster management and configuration management systems. You also don't need to worry about scaling your management infrastructure.

Usage

```
ecs(config = list())
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to <code>true</code> to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
--------	---

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```

svc <- ecs(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)

```

Operations

create_capacity_provider	Creates a new capacity provider
create_cluster	Creates a new Amazon ECS cluster
create_service	Runs and maintains your desired number of tasks from a specified task definition
create_task_set	Create a task set in the specified cluster and service
delete_account_setting	Disables an account setting for a specified IAM user, IAM role, or the root user for an account
delete_attributes	Deletes one or more custom attributes from an Amazon ECS resource
delete_capacity_provider	Deletes the specified capacity provider
delete_cluster	Deletes the specified cluster
delete_service	Deletes a specified service within a cluster
delete_task_set	Deletes a specified task set within a service
deregister_container_instance	Deregisters an Amazon ECS container instance from the specified cluster
deregister_task_definition	Deregisters the specified task definition by family and revision
describe_capacity_providers	Describes one or more of your capacity providers
describe_clusters	Describes one or more of your clusters
describe_container_instances	Describes one or more container instances
describe_services	Describes the specified services running in your cluster
describe_task_definition	Describes a task definition
describe_tasks	Describes a specified task or tasks
describe_task_sets	Describes the task sets in the specified cluster and service
discover_poll_endpoint	This action is only used by the Amazon ECS agent, and it is not intended for use outside the agent
execute_command	Runs a command remotely on a container within a task
list_account_settings	Lists the account settings for a specified principal
list_attributes	Lists the attributes for Amazon ECS resources within a specified target type and cluster
list_clusters	Returns a list of existing clusters
list_container_instances	Returns a list of container instances in a specified cluster
list_services	Returns a list of services

<code>list_tags_for_resource</code>	List the tags for an Amazon ECS resource
<code>list_task_definition_families</code>	Returns a list of task definition families that are registered to your account
<code>list_task_definitions</code>	Returns a list of task definitions that are registered to your account
<code>list_tasks</code>	Returns a list of tasks
<code>put_account_setting</code>	Modifies an account setting
<code>put_account_setting_default</code>	Modifies an account setting for all IAM users on an account for whom no individual account settings are specified
<code>put_attributes</code>	Create or update an attribute on an Amazon ECS resource
<code>put_cluster_capacity_providers</code>	Modifies the available capacity providers and the default capacity provider strategy for a cluster
<code>register_container_instance</code>	This action is only used by the Amazon ECS agent, and it is not intended for use outside of the Amazon ECS agent
<code>register_task_definition</code>	Registers a new task definition from the supplied family and containerDefinitions
<code>run_task</code>	Starts a new task using the specified task definition
<code>start_task</code>	Starts a new task from the specified task definition on the specified container instance or task set
<code>stop_task</code>	Stops a running task
<code>submit_attachment_state_changes</code>	This action is only used by the Amazon ECS agent, and it is not intended for use outside of the Amazon ECS agent
<code>submit_container_state_change</code>	This action is only used by the Amazon ECS agent, and it is not intended for use outside of the Amazon ECS agent
<code>submit_task_state_change</code>	This action is only used by the Amazon ECS agent, and it is not intended for use outside of the Amazon ECS agent
<code>tag_resource</code>	Associates the specified tags to a resource with the specified resourceArn
<code>untag_resource</code>	Deletes specified tags from a resource
<code>update_capacity_provider</code>	Modifies the parameters for a capacity provider
<code>update_cluster</code>	Updates the cluster
<code>update_cluster_settings</code>	Modifies the settings to use for a cluster
<code>update_container_agent</code>	Updates the Amazon ECS container agent on a specified container instance
<code>update_container_instances_state</code>	Modifies the status of an Amazon ECS container instance
<code>update_service</code>	Modifies the parameters of a service
<code>update_service_primary_task_set</code>	Modifies which task set in a service is the primary task set
<code>update_task_set</code>	Modifies a task set

Examples

```
## Not run:
svc <- ecs()
# This example creates a cluster in your default region.
svc$create_cluster(
  clusterName = "my_cluster"
)

## End(Not run)
```

Description

Amazon Elastic Kubernetes Service (Amazon EKS) is a managed service that makes it easy for you to run Kubernetes on Amazon Web Services without needing to stand up or maintain your own Kubernetes control plane. Kubernetes is an open-source system for automating the deployment, scaling, and management of containerized applications.

Amazon EKS runs up-to-date versions of the open-source Kubernetes software, so you can use all the existing plugins and tooling from the Kubernetes community. Applications running on Amazon EKS are fully compatible with applications running on any standard Kubernetes environment, whether running in on-premises data centers or public clouds. This means that you can easily migrate any standard Kubernetes application to Amazon EKS without any code modification required.

Usage

```
eks(config = list())
```

Arguments

<code>config</code>	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to <code>true</code> to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
---------------------	---

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- eks(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
```

```

    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
  region = "string",
  close_connection = "logical",
  timeout = "numeric",
  s3_force_path_style = "logical"
)
)

```

Operations

associate_encryption_config	Associate encryption configuration to an existing cluster
associate_identity_provider_config	Associate an identity provider configuration to a cluster
create_addon	Creates an Amazon EKS add-on
create_cluster	Creates an Amazon EKS control plane
create_fargate_profile	Creates an Fargate profile for your Amazon EKS cluster
create_nodegroup	Creates a managed node group for an Amazon EKS cluster
delete_addon	Delete an Amazon EKS add-on
delete_cluster	Deletes the Amazon EKS cluster control plane
delete_fargate_profile	Deletes an Fargate profile
delete_nodegroup	Deletes an Amazon EKS node group for a cluster
deregister_cluster	Deregisters a connected cluster to remove it from the Amazon EKS control plane
describe_addon	Describes an Amazon EKS add-on
describe_addon_versions	Describes the Kubernetes versions that the add-on can be used with
describe_cluster	Returns descriptive information about an Amazon EKS cluster
describe_fargate_profile	Returns descriptive information about an Fargate profile
describe_identity_provider_config	Returns descriptive information about an identity provider configuration
describe_nodegroup	Returns descriptive information about an Amazon EKS node group
describe_update	Returns descriptive information about an update against your Amazon EKS cluster or managed node group
disassociate_identity_provider_config	Disassociates an identity provider configuration from a cluster
list_addons	Lists the available add-ons
list_clusters	Lists the Amazon EKS clusters in your Amazon Web Services account in the specified region
list_fargate_profiles	Lists the Fargate profiles associated with the specified cluster in your Amazon Web Services account
list_identity_provider_configs	A list of identity provider configurations
list_nodegroups	Lists the Amazon EKS managed node groups associated with the specified cluster in your Amazon Web Services account
list_tags_for_resource	List the tags for an Amazon EKS resource
list_updates	Lists the updates associated with an Amazon EKS cluster or managed node group in your Amazon Web Services account
register_cluster	Connects a Kubernetes cluster to the Amazon EKS control plane
tag_resource	Associates the specified tags to a resource with the specified resourceArn
untag_resource	Deletes specified tags from a resource
update_addon	Updates an Amazon EKS add-on
update_cluster_config	Updates an Amazon EKS cluster configuration
update_cluster_version	Updates an Amazon EKS cluster to the specified Kubernetes version
update_nodegroup_config	Updates an Amazon EKS managed node group configuration
update_nodegroup_version	Updates the Kubernetes version or AMI version of an Amazon EKS managed node group

Examples

```
## Not run:
svc <- eks()
# The following example creates an Amazon EKS cluster called prod.
svc$create_cluster(
  version = "1.10",
  name = "prod",
  clientRequestToken = "1d2129a1-3d38-460a-9756-e5b91fddb951",
  resourcesVpcConfig = list(
    securityGroupIds = list(
      "sg-6979fe18"
    ),
    subnetIds = list(
      "subnet-6782e71e",
      "subnet-e7e761ac"
    )
  ),
  roleArn = "arn:aws:iam::012345678910:role/eks-service-role-AWSServiceRole..."
)

## End(Not run)
```

elasticbeanstalk

AWS Elastic Beanstalk

Description

AWS Elastic Beanstalk makes it easy for you to create, deploy, and manage scalable, fault-tolerant applications running on the Amazon Web Services cloud.

For more information about this product, go to the [AWS Elastic Beanstalk details page](#). The location of the latest AWS Elastic Beanstalk WSDL is <https://elasticbeanstalk.s3.amazonaws.com/doc/2010-12-01/AWSElasticBeanstalk.wsdl>. To install the Software Development Kits (SDKs), Integrated Development Environment (IDE) Toolkits, and command line tools that enable you to access the API, go to [Tools for Amazon Web Services](#).

Endpoints

For a list of region-specific endpoints that AWS Elastic Beanstalk supports, go to [Regions and Endpoints](#) in the *Amazon Web Services Glossary*.

Usage

```
elasticbeanstalk(config = list())
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to <code>true</code> to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
--------	---

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- elasticbeanstalk(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)
```

Operations

[abort_environment_update](#)

Cancels in-progress environment configuration update or application version

apply_environment_managed_action	Applies a scheduled managed action immediately
associate_environment_operations_role	Add or change the operations role used by an environment
check_dns_availability	Checks if the specified CNAME is available
compose_environments	Create or update a group of environments that each run a separate component
create_application	Creates an application that has one configuration template named default
create_application_version	Creates an application version for the specified application
create_configuration_template	Creates an AWS Elastic Beanstalk configuration template, associated with a solution stack
create_environment	Launches an AWS Elastic Beanstalk environment for the specified application
create_platform_version	Create a new version of your custom platform
create_storage_location	Creates a bucket in Amazon S3 to store application versions, logs, and other data
delete_application	Deletes the specified application along with all associated versions and configurations
delete_application_version	Deletes the specified version from the specified application
delete_configuration_template	Deletes the specified configuration template
delete_environment_configuration	Deletes the draft configuration associated with the running environment
delete_platform_version	Deletes the specified version of a custom platform
describe_account_attributes	Returns attributes related to AWS Elastic Beanstalk that are associated with your account
describe_applications	Returns the descriptions of existing applications
describe_application_versions	Retrieve a list of application versions
describe_configuration_options	Describes the configuration options that are used in a particular configuration set
describe_configuration_settings	Returns a description of the settings for the specified configuration set, that is, the environment configuration
describe_environment_health	Returns information about the overall health of the specified environment
describe_environment_managed_action_history	Lists an environment's completed and failed managed actions
describe_environment_managed_actions	Lists an environment's upcoming and in-progress managed actions
describe_environment_resources	Returns AWS resources for this environment
describe_environments	Returns descriptions for existing environments
describe_events	Returns list of event descriptions matching criteria up to the last 6 weeks
describe_instances_health	Retrieves detailed information about the health of instances in your AWS Elastic Beanstalk environment
describe_platform_version	Describes a platform version
disassociate_environment_operations_role	Disassociate the operations role from an environment
list_available_solution_stacks	Returns a list of the available solution stack names, with the public version number
list_platform_branches	Lists the platform branches available for your account in an AWS Region
list_platform_versions	Lists the platform versions available for your account in an AWS Region
list_tags_for_resource	Return the tags applied to an AWS Elastic Beanstalk resource
rebuild_environment	Deletes and recreates all of the AWS resources (for example: the Auto Scaling group, EC2 instances, and Elastic Load Balancing load balancer)
request_environment_info	Initiates a request to compile the specified type of information of the deployment
restart_app_server	Causes the environment to restart the application container server running on the instances
retrieve_environment_info	Retrieves the compiled information from a RequestEnvironmentInfo request
swap_environment_cname_es	Swaps the CNAMEs of two environments
terminate_environment	Terminates the specified environment
update_application	Updates the specified application to have the specified properties
update_application_resource_lifecycle	Modifies lifecycle settings for an application
update_application_version	Updates the specified application version to have the specified properties
update_configuration_template	Updates the specified configuration template to have the specified properties
update_environment	Updates the environment description, deploys a new application version, updates the configuration template, and updates the environment configuration
update_tags_for_resource	Update the list of tags applied to an AWS Elastic Beanstalk resource
validate_configuration_settings	Takes a set of configuration settings and either a configuration template or environment configuration

Examples

```
## Not run:
svc <- elasticbeanstalk()
# The following code aborts a running application version deployment for
# an environment named my-env:
svc$abort_environment_update(
  EnvironmentName = "my-env"
)

## End(Not run)
```

 emrcontainers

Amazon EMR Containers

Description

Amazon EMR on EKS provides a deployment option for Amazon EMR that allows you to run open-source big data frameworks on Amazon Elastic Kubernetes Service (Amazon EKS). With this deployment option, you can focus on running analytics workloads while Amazon EMR on EKS builds, configures, and manages containers for open-source applications. For more information about Amazon EMR on EKS concepts and tasks, see [What is Amazon EMR on EKS](#).

Amazon EMR containers is the API name for Amazon EMR on EKS. The `emr-containers` prefix is used in the following scenarios:

- It is the prefix in the CLI commands for Amazon EMR on EKS. For example, `aws emr-containers start-job-run`.
- It is the prefix before IAM policy actions for Amazon EMR on EKS. For example, "Action": ["emr-containers:StartJobRun"]. For more information, see [Policy actions for Amazon EMR on EKS](#).
- It is the prefix used in Amazon EMR on EKS service endpoints. For example, `emr-containers.us-east-2.amazonaws.com`. For more information, see [Amazon EMR on EKS Service Endpoints](#).

Usage

```
emrcontainers(config = list())
```

Arguments

<code>config</code>	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client.
---------------------	---

- **close_connection:** Immediately close all HTTP connections.
- **timeout:** The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.
- **s3_force_path_style:** Set this to `true` to force the request to use path-style addressing, i.e., `http://s3.amazonaws.com/BUCKET/KEY`.

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- emrcontainers(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)
```

Operations

cancel_job_run	Cancel a job run
create_managed_endpoint	Create a managed endpoint
create_virtual_cluster	Create a virtual cluster
delete_managed_endpoint	Delete a managed endpoint
delete_virtual_cluster	Delete a virtual cluster
describe_job_run	Display detailed information about a job run
describe_managed_endpoint	Display detailed information about a managed endpoint
describe_virtual_cluster	Display detailed information about a specified virtual cluster
list_job_runs	List job runs based on a set of parameters
list_managed_endpoints	List managed endpoints based on a set of parameters
list_tags_for_resource	List the tags assigned to the resources
list_virtual_clusters	List information about the specified virtual cluster
start_job_run	Start a job run

<code>tag_resource</code>	Assigns tags to resources
<code>untag_resource</code>	Removes tags from resources

Examples

```
## Not run:
svc <- emrcontainers()
svc$cancel_job_run(
  Foo = 123
)

## End(Not run)
```

emrserverless	<i>EMR Serverless</i>
---------------	-----------------------

Description

Amazon EMR Serverless is a new deployment option for Amazon EMR. EMR Serverless provides a serverless runtime environment that simplifies running analytics applications using the latest open source frameworks such as Apache Spark and Apache Hive. With EMR Serverless, you don't have to configure, optimize, secure, or operate clusters to run applications with these frameworks.

The API reference to Amazon EMR Serverless is `emr-serverless`. The `emr-serverless` prefix is used in the following scenarios:

- It is the prefix in the CLI commands for Amazon EMR Serverless. For example, `aws emr-serverless start-job-run`.
- It is the prefix before IAM policy actions for Amazon EMR Serverless. For example, "Action": ["emr-serverless:StartJobRun"]. For more information, see [Policy actions for Amazon EMR Serverless](#).
- It is the prefix used in Amazon EMR Serverless service endpoints. For example, `emr-serverless.us-east-2.amazonaws.com`.

Usage

```
emrserverless(config = list())
```

Arguments

<code>config</code>	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials.
---------------------	--

- **endpoint:** The complete URL to use for the constructed client.
- **region:** The AWS Region used in instantiating the client.
- **close_connection:** Immediately close all HTTP connections.
- **timeout:** The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.
- **s3_force_path_style:** Set this to `true` to force the request to use path-style addressing, i.e., `http://s3.amazonaws.com/BUCKET/KEY`.

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- emrserverless(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)
```

Operations

cancel_job_run	Cancels a job run
create_application	Creates an application
delete_application	Deletes an application
get_application	Displays detailed information about a specified application
get_job_run	Displays detailed information about a job run
list_applications	Lists applications based on a set of parameters
list_job_runs	Lists job runs based on a set of parameters
list_tags_for_resource	Lists the tags assigned to the resources
start_application	Starts a specified application and initializes initial capacity if configured
start_job_run	Starts a job run
stop_application	Stops a specified application and releases initial capacity if configured

tag_resource	Assigns tags to resources
untag_resource	Removes tags from resources
update_application	Updates a specified application

Examples

```
## Not run:
svc <- emrserverless()
svc$cancel_job_run(
  Foo = 123
)

## End(Not run)
```

imagebuilder	<i>EC2 Image Builder</i>
--------------	--------------------------

Description

EC2 Image Builder is a fully managed Amazon Web Services service that makes it easier to automate the creation, management, and deployment of customized, secure, and up-to-date "golden" server images that are pre-installed and pre-configured with software and settings to meet specific IT standards.

Usage

```
imagebuilder(config = list())
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to true to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
--------	--

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- imagebuilder(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)
```

Operations

cancel_image_creation	CancelImageCreation cancels the creation of Image
create_component	Creates a new component that can be used to build, validate, test, and assess your image
create_container_recipe	Creates a new container recipe
create_distribution_configuration	Creates a new distribution configuration
create_image	Creates a new image
create_image_pipeline	Creates a new image pipeline
create_image_recipe	Creates a new image recipe
create_infrastructure_configuration	Creates a new infrastructure configuration
delete_component	Deletes a component build version
delete_container_recipe	Deletes a container recipe
delete_distribution_configuration	Deletes a distribution configuration
delete_image	Deletes an Image Builder image resource
delete_image_pipeline	Deletes an image pipeline
delete_image_recipe	Deletes an image recipe
delete_infrastructure_configuration	Deletes an infrastructure configuration
get_component	Gets a component object
get_component_policy	Gets a component policy
get_container_recipe	Retrieves a container recipe
get_container_recipe_policy	Retrieves the policy for a container recipe
get_distribution_configuration	Gets a distribution configuration

<code>get_image</code>	Gets an image
<code>get_image_pipeline</code>	Gets an image pipeline
<code>get_image_policy</code>	Gets an image policy
<code>get_image_recipe</code>	Gets an image recipe
<code>get_image_recipe_policy</code>	Gets an image recipe policy
<code>get_infrastructure_configuration</code>	Gets an infrastructure configuration
<code>import_component</code>	Imports a component and transforms its data into a component document
<code>import_vm_image</code>	When you export your virtual machine (VM) from its virtualization environment, that p
<code>list_component_build_versions</code>	Returns the list of component build versions for the specified semantic version
<code>list_components</code>	Returns the list of component build versions for the specified semantic version
<code>list_container_recipes</code>	Returns a list of container recipes
<code>list_distribution_configurations</code>	Returns a list of distribution configurations
<code>list_image_build_versions</code>	Returns a list of image build versions
<code>list_image_packages</code>	List the Packages that are associated with an Image Build Version, as determined by Ar
<code>list_image_pipeline_images</code>	Returns a list of images created by the specified pipeline
<code>list_image_pipelines</code>	Returns a list of image pipelines
<code>list_image_recipes</code>	Returns a list of image recipes
<code>list_images</code>	Returns the list of images that you have access to
<code>list_infrastructure_configurations</code>	Returns a list of infrastructure configurations
<code>list_tags_for_resource</code>	Returns the list of tags for the specified resource
<code>put_component_policy</code>	Applies a policy to a component
<code>put_container_recipe_policy</code>	Applies a policy to a container image
<code>put_image_policy</code>	Applies a policy to an image
<code>put_image_recipe_policy</code>	Applies a policy to an image recipe
<code>start_image_pipeline_execution</code>	Manually triggers a pipeline to create an image
<code>tag_resource</code>	Adds a tag to a resource
<code>untag_resource</code>	Removes a tag from a resource
<code>update_distribution_configuration</code>	Updates a new distribution configuration
<code>update_image_pipeline</code>	Updates an image pipeline
<code>update_infrastructure_configuration</code>	Updates a new infrastructure configuration

Examples

```
## Not run:
svc <- imagebuilder()
svc$cancel_image_creation(
  Foo = 123
)

## End(Not run)
```

Description

Lambda

Overview

Lambda is a compute service that lets you run code without provisioning or managing servers. Lambda runs your code on a high-availability compute infrastructure and performs all of the administration of the compute resources, including server and operating system maintenance, capacity provisioning and automatic scaling, code monitoring and logging. With Lambda, you can run code for virtually any type of application or backend service. For more information about the Lambda service, see [What is Lambda](#) in the **Lambda Developer Guide**.

The *Lambda API Reference* provides information about each of the API methods, including details about the parameters in each API request and response.

You can use Software Development Kits (SDKs), Integrated Development Environment (IDE) Toolkits, and command line tools to access the API. For installation instructions, see [Tools for Amazon Web Services](#).

For a list of Region-specific endpoints that Lambda supports, see Lambda endpoints and quotas in the *Amazon Web Services General Reference*.

When making the API calls, you will need to authenticate your request by providing a signature. Lambda supports signature version 4. For more information, see [Signature Version 4 signing process](#) in the *Amazon Web Services General Reference*.

CA certificates

Because Amazon Web Services SDKs use the CA certificates from your computer, changes to the certificates on the Amazon Web Services servers can cause connection failures when you attempt to use an SDK. You can prevent these failures by keeping your computer's CA certificates and operating system up-to-date. If you encounter this issue in a corporate environment and do not manage your own computer, you might need to ask an administrator to assist with the update process. The following list shows minimum operating system and Java versions:

- Microsoft Windows versions that have updates from January 2005 or later installed contain at least one of the required CAs in their trust list.
- Mac OS X 10.4 with Java for Mac OS X 10.4 Release 5 (February 2007), Mac OS X 10.5 (October 2007), and later versions contain at least one of the required CAs in their trust list.
- Red Hat Enterprise Linux 5 (March 2007), 6, and 7 and CentOS 5, 6, and 7 all contain at least one of the required CAs in their default trusted CA list.
- Java 1.4.2_12 (May 2006), 5 Update 2 (March 2005), and all later versions, including Java 6 (December 2006), 7, and 8, contain at least one of the required CAs in their default trusted CA list.

When accessing the Lambda management console or Lambda API endpoints, whether through browsers or programmatically, you will need to ensure your client machines support any of the following CAs:

- Amazon Root CA 1
- Starfield Services Root Certificate Authority - G2
- Starfield Class 2 Certification Authority

Root certificates from the first two authorities are available from [Amazon trust services](#), but keeping your computer up-to-date is the more straightforward solution. To learn more about ACM-provided certificates, see [Amazon Web Services Certificate Manager FAQs](#).

Usage

```
lambda(config = list())
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to true to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
--------	--

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- lambda(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
```

```

        s3_force_path_style = "logical"
    )
)

```

Operations

<code>add_layer_version_permission</code>	Adds permissions to the resource-based policy of a version of an Lambda layer
<code>add_permission</code>	Grants an Amazon Web Services service, account, or organization permission to use a Lambda function
<code>create_alias</code>	Creates an alias for a Lambda function version
<code>create_code_signing_config</code>	Creates a code signing configuration
<code>create_event_source_mapping</code>	Creates a mapping between an event source and an Lambda function
<code>create_function</code>	Creates a Lambda function
<code>create_function_url_config</code>	Creates a Lambda function URL with the specified configuration parameters
<code>delete_alias</code>	Deletes a Lambda function alias
<code>delete_code_signing_config</code>	Deletes the code signing configuration
<code>delete_event_source_mapping</code>	Deletes an event source mapping
<code>delete_function</code>	Deletes a Lambda function
<code>delete_function_code_signing_config</code>	Removes the code signing configuration from the function
<code>delete_function_concurrency</code>	Removes a concurrent execution limit from a function
<code>delete_function_event_invoke_config</code>	Deletes the configuration for asynchronous invocation for a function, version, or alias
<code>delete_function_url_config</code>	Deletes a Lambda function URL
<code>delete_layer_version</code>	Deletes a version of an Lambda layer
<code>delete_provisioned_concurrency_config</code>	Deletes the provisioned concurrency configuration for a function
<code>get_account_settings</code>	Retrieves details about your account's limits and usage in an Amazon Web Services account
<code>get_alias</code>	Returns details about a Lambda function alias
<code>get_code_signing_config</code>	Returns information about the specified code signing configuration
<code>get_event_source_mapping</code>	Returns details about an event source mapping
<code>get_function</code>	Returns information about the function or function version, with a link to download the code
<code>get_function_code_signing_config</code>	Returns the code signing configuration for the specified function
<code>get_function_concurrency</code>	Returns details about the reserved concurrency configuration for a function
<code>get_function_configuration</code>	Returns the version-specific settings of a Lambda function or version
<code>get_function_event_invoke_config</code>	Retrieves the configuration for asynchronous invocation for a function, version, or alias
<code>get_function_url_config</code>	Returns details about a Lambda function URL
<code>get_layer_version</code>	Returns information about a version of an Lambda layer, with a link to download the code
<code>get_layer_version_by_arn</code>	Returns information about a version of an Lambda layer, with a link to download the code
<code>get_layer_version_policy</code>	Returns the permission policy for a version of an Lambda layer
<code>get_policy</code>	Returns the resource-based IAM policy for a function, version, or alias
<code>get_provisioned_concurrency_config</code>	Retrieves the provisioned concurrency configuration for a function's alias or version
<code>invoke</code>	Invokes a Lambda function
<code>invoke_async</code>	For asynchronous function invocation, use Invoke
<code>list_aliases</code>	Returns a list of aliases for a Lambda function
<code>list_code_signing_configs</code>	Returns a list of code signing configurations
<code>list_event_source_mappings</code>	Lists event source mappings
<code>list_function_event_invoke_configs</code>	Retrieves a list of configurations for asynchronous invocation for a function
<code>list_functions</code>	Returns a list of Lambda functions, with the version-specific configuration of each
<code>list_functions_by_code_signing_config</code>	List the functions that use the specified code signing configuration
<code>list_function_url_configs</code>	Returns a list of Lambda function URLs for the specified function
<code>list_layers</code>	Lists Lambda layers and shows information about the latest version of each

list_layer_versions	Lists the versions of an Lambda layer
list_provisioned_concurrency_configs	Retrieves a list of provisioned concurrency configurations for a function
list_tags	Returns a function's tags
list_versions_by_function	Returns a list of versions, with the version-specific configuration of each
publish_layer_version	Creates an Lambda layer from a ZIP archive
publish_version	Creates a version from the current code and configuration of a function
put_function_code_signing_config	Update the code signing configuration for the function
put_function_concurrency	Sets the maximum number of simultaneous executions for a function, and reserves
put_function_event_invoke_config	Configures options for asynchronous invocation on a function, version, or alias
put_provisioned_concurrency_config	Adds a provisioned concurrency configuration to a function's alias or version
remove_layer_version_permission	Removes a statement from the permissions policy for a version of an Lambda layer
remove_permission	Revokes function-use permission from an Amazon Web Services service or another
tag_resource	Adds tags to a function
untag_resource	Removes tags from a function
update_alias	Updates the configuration of a Lambda function alias
update_code_signing_config	Update the code signing configuration
update_event_source_mapping	Updates an event source mapping
update_function_code	Updates a Lambda function's code
update_function_configuration	Modify the version-specific settings of a Lambda function
update_function_event_invoke_config	Updates the configuration for asynchronous invocation for a function, version, or al
update_function_url_config	Updates the configuration for a Lambda function URL

Examples

```
## Not run:
svc <- lambda()
svc$add_layer_version_permission(
  Foo = 123
)

## End(Not run)
```

lightsail

Amazon Lightsail

Description

Amazon Lightsail is the easiest way to get started with Amazon Web Services (Amazon Web Services) for developers who need to build websites or web applications. It includes everything you need to launch your project quickly - instances (virtual private servers), container services, storage buckets, managed databases, SSD-based block storage, static IP addresses, load balancers, content delivery network (CDN) distributions, DNS management of registered domains, and resource snapshots (backups) - for a low, predictable monthly price.

You can manage your Lightsail resources using the Lightsail console, Lightsail API, AWS Command Line Interface (AWS CLI), or SDKs. For more information about Lightsail concepts and tasks, see the Amazon Lightsail Developer Guide.

This API Reference provides detailed information about the actions, data types, parameters, and errors of the Lightsail service. For more information about the supported Amazon Web Services Regions, endpoints, and service quotas of the Lightsail service, see [Amazon Lightsail Endpoints and Quotas](#) in the *Amazon Web Services General Reference*.

Usage

```
lightsail(config = list())
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to <code>true</code> to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
--------	---

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- lightsail(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
```

```

    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)

```

Operations

allocate_static_ip	Allocates a static IP address
attach_certificate_to_distribution	Attaches an SSL/TLS certificate to your Amazon Lightsail content delivery
attach_disk	Attaches a block storage disk to a running or stopped Lightsail instance and
attach_instances_to_load_balancer	Attaches one or more Lightsail instances to a load balancer
attach_load_balancer_tls_certificate	Attaches a Transport Layer Security (TLS) certificate to your load balancer
attach_static_ip	Attaches a static IP address to a specific Amazon Lightsail instance
close_instance_public_ports	Closes ports for a specific Amazon Lightsail instance
copy_snapshot	Copies a manual snapshot of an instance or disk as another manual snapshot
create_bucket	Creates an Amazon Lightsail bucket
create_bucket_access_key	Creates a new access key for the specified Amazon Lightsail bucket
create_certificate	Creates an SSL/TLS certificate for an Amazon Lightsail content delivery ne
create_cloud_formation_stack	Creates an AWS CloudFormation stack, which creates a new Amazon EC2
create_contact_method	Creates an email or SMS text message contact method
create_container_service	Creates an Amazon Lightsail container service
create_container_service_deployment	Creates a deployment for your Amazon Lightsail container service
create_container_service_registry_login	Creates a temporary set of log in credentials that you can use to log in to the
create_disk	Creates a block storage disk that can be attached to an Amazon Lightsail ins
create_disk_from_snapshot	Creates a block storage disk from a manual or automatic snapshot of a disk
create_disk_snapshot	Creates a snapshot of a block storage disk
create_distribution	Creates an Amazon Lightsail content delivery network (CDN) distribution
create_domain	Creates a domain resource for the specified domain (e
create_domain_entry	Creates one of the following domain name system (DNS) records in a doma
create_instances	Creates one or more Amazon Lightsail instances
create_instances_from_snapshot	Creates one or more new instances from a manual or automatic snapshot of
create_instance_snapshot	Creates a snapshot of a specific virtual private server, or instance
create_key_pair	Creates a custom SSH key pair that you can use with an Amazon Lightsail i
create_load_balancer	Creates a Lightsail load balancer
create_load_balancer_tls_certificate	Creates an SSL/TLS certificate for an Amazon Lightsail load balancer
create_relational_database	Creates a new database in Amazon Lightsail
create_relational_database_from_snapshot	Creates a new database from an existing database snapshot in Amazon Ligh
create_relational_database_snapshot	Creates a snapshot of your database in Amazon Lightsail
delete_alarm	Deletes an alarm
delete_auto_snapshot	Deletes an automatic snapshot of an instance or disk
delete_bucket	Deletes a Amazon Lightsail bucket
delete_bucket_access_key	Deletes an access key for the specified Amazon Lightsail bucket
delete_certificate	Deletes an SSL/TLS certificate for your Amazon Lightsail content delivery
delete_contact_method	Deletes a contact method

<code>delete_container_image</code>	Deletes a container image that is registered to your Amazon Lightsail container service
<code>delete_container_service</code>	Deletes your Amazon Lightsail container service
<code>delete_disk</code>	Deletes the specified block storage disk
<code>delete_disk_snapshot</code>	Deletes the specified disk snapshot
<code>delete_distribution</code>	Deletes your Amazon Lightsail content delivery network (CDN) distribution
<code>delete_domain</code>	Deletes the specified domain recordset and all of its domain records
<code>delete_domain_entry</code>	Deletes a specific domain entry
<code>delete_instance</code>	Deletes an Amazon Lightsail instance
<code>delete_instance_snapshot</code>	Deletes a specific snapshot of a virtual private server (or instance)
<code>delete_key_pair</code>	Deletes the specified key pair by removing the public key from Amazon Lightsail
<code>delete_known_host_keys</code>	Deletes the known host key or certificate used by the Amazon Lightsail browser
<code>delete_load_balancer</code>	Deletes a Lightsail load balancer and all its associated SSL/TLS certificates
<code>delete_load_balancer_tls_certificate</code>	Deletes an SSL/TLS certificate associated with a Lightsail load balancer
<code>delete_relational_database</code>	Deletes a database in Amazon Lightsail
<code>delete_relational_database_snapshot</code>	Deletes a database snapshot in Amazon Lightsail
<code>detach_certificate_from_distribution</code>	Detaches an SSL/TLS certificate from your Amazon Lightsail content delivery network
<code>detach_disk</code>	Detaches a stopped block storage disk from a Lightsail instance
<code>detach_instances_from_load_balancer</code>	Detaches the specified instances from a Lightsail load balancer
<code>detach_static_ip</code>	Detaches a static IP from the Amazon Lightsail instance to which it is attached
<code>disable_add_on</code>	Disables an add-on for an Amazon Lightsail resource
<code>download_default_key_pair</code>	Downloads the regional Amazon Lightsail default key pair
<code>enable_add_on</code>	Enables or modifies an add-on for an Amazon Lightsail resource
<code>export_snapshot</code>	Exports an Amazon Lightsail instance or block storage disk snapshot to Amazon S3
<code>get_active_names</code>	Returns the names of all active (not deleted) resources
<code>get_alarms</code>	Returns information about the configured alarms
<code>get_auto_snapshots</code>	Returns the available automatic snapshots for an instance or disk
<code>get_blueprints</code>	Returns the list of available instance images, or blueprints
<code>get_bucket_access_keys</code>	Returns the existing access key IDs for the specified Amazon Lightsail bucket
<code>get_bucket_bundles</code>	Returns the bundles that you can apply to a Amazon Lightsail bucket
<code>get_bucket_metric_data</code>	Returns the data points of a specific metric for an Amazon Lightsail bucket
<code>get_buckets</code>	Returns information about one or more Amazon Lightsail buckets
<code>get_bundles</code>	Returns the bundles that you can apply to an Amazon Lightsail instance
<code>get_certificates</code>	Returns information about one or more Amazon Lightsail SSL/TLS certificates
<code>get_cloud_formation_stack_records</code>	Returns the CloudFormation stack record created as a result of the create operation
<code>get_contact_methods</code>	Returns information about the configured contact methods
<code>get_container_api_metadata</code>	Returns information about Amazon Lightsail containers, such as the current version
<code>get_container_images</code>	Returns the container images that are registered to your Amazon Lightsail container service
<code>get_container_log</code>	Returns the log events of a container of your Amazon Lightsail container service
<code>get_container_service_deployments</code>	Returns the deployments for your Amazon Lightsail container service
<code>get_container_service_metric_data</code>	Returns the data points of a specific metric of your Amazon Lightsail container service
<code>get_container_service_powers</code>	Returns the list of powers that can be specified for your Amazon Lightsail container service
<code>get_container_services</code>	Returns information about one or more of your Amazon Lightsail container services
<code>get_disk</code>	Returns information about a specific block storage disk
<code>get_disks</code>	Returns information about all block storage disks in your AWS account and region
<code>get_disk_snapshot</code>	Returns information about a specific block storage disk snapshot
<code>get_disk_snapshots</code>	Returns information about all block storage disk snapshots in your AWS account and region
<code>get_distribution_bundles</code>	Returns the bundles that can be applied to your Amazon Lightsail content delivery network
<code>get_distribution_latest_cache_reset</code>	Returns the timestamp and status of the last cache reset of a specific Amazon Lightsail content delivery network

<code>get_distribution_metric_data</code>	Returns the data points of a specific metric for an Amazon Lightsail content
<code>get_distributions</code>	Returns information about one or more of your Amazon Lightsail content d
<code>get_domain</code>	Returns information about a specific domain recordset
<code>get_domains</code>	Returns a list of all domains in the user's account
<code>get_export_snapshot_records</code>	Returns all export snapshot records created as a result of the export snapsho
<code>get_instance</code>	Returns information about a specific Amazon Lightsail instance, which is a
<code>get_instance_access_details</code>	Returns temporary SSH keys you can use to connect to a specific virtual pri
<code>get_instance_metric_data</code>	Returns the data points for the specified Amazon Lightsail instance metric, p
<code>get_instance_port_states</code>	Returns the firewall port states for a specific Amazon Lightsail instance, the
<code>get_instances</code>	Returns information about all Amazon Lightsail virtual private servers, or in
<code>get_instance_snapshot</code>	Returns information about a specific instance snapshot
<code>get_instance_snapshots</code>	Returns all instance snapshots for the user's account
<code>get_instance_state</code>	Returns the state of a specific instance
<code>get_key_pair</code>	Returns information about a specific key pair
<code>get_key_pairs</code>	Returns information about all key pairs in the user's account
<code>get_load_balancer</code>	Returns information about the specified Lightsail load balancer
<code>get_load_balancer_metric_data</code>	Returns information about health metrics for your Lightsail load balancer
<code>get_load_balancers</code>	Returns information about all load balancers in an account
<code>get_load_balancer_tls_certificates</code>	Returns information about the TLS certificates that are associated with the s
<code>get_load_balancer_tls_policies</code>	Returns a list of TLS security policies that you can apply to Lightsail load b
<code>get_operation</code>	Returns information about a specific operation
<code>get_operations</code>	Returns information about all operations
<code>get_operations_for_resource</code>	Gets operations for a specific resource (e
<code>get_regions</code>	Returns a list of all valid regions for Amazon Lightsail
<code>get_relational_database</code>	Returns information about a specific database in Amazon Lightsail
<code>get_relational_database_blueprints</code>	Returns a list of available database blueprints in Amazon Lightsail
<code>get_relational_database_bundles</code>	Returns the list of bundles that are available in Amazon Lightsail
<code>get_relational_database_events</code>	Returns a list of events for a specific database in Amazon Lightsail
<code>get_relational_database_log_events</code>	Returns a list of log events for a database in Amazon Lightsail
<code>get_relational_database_log_streams</code>	Returns a list of available log streams for a specific database in Amazon Lig
<code>get_relational_database_master_user_password</code>	Returns the current, previous, or pending versions of the master user passwo
<code>get_relational_database_metric_data</code>	Returns the data points of the specified metric for a database in Amazon Lig
<code>get_relational_database_parameters</code>	Returns all of the runtime parameters offered by the underlying database so
<code>get_relational_databases</code>	Returns information about all of your databases in Amazon Lightsail
<code>get_relational_database_snapshot</code>	Returns information about a specific database snapshot in Amazon Lightsai
<code>get_relational_database_snapshots</code>	Returns information about all of your database snapshots in Amazon Lights
<code>get_static_ip</code>	Returns information about an Amazon Lightsail static IP
<code>get_static_ips</code>	Returns information about all static IPs in the user's account
<code>import_key_pair</code>	Imports a public SSH key from a specific key pair
<code>is_vpc_peered</code>	Returns a Boolean value indicating whether your Lightsail VPC is peered
<code>open_instance_public_ports</code>	Opens ports for a specific Amazon Lightsail instance, and specifies the IP a
<code>peer_vpc</code>	Peers the Lightsail VPC with the user's default VPC
<code>put_alarm</code>	Creates or updates an alarm, and associates it with the specified metric
<code>put_instance_public_ports</code>	Opens ports for a specific Amazon Lightsail instance, and specifies the IP a
<code>reboot_instance</code>	Restarts a specific instance
<code>reboot_relational_database</code>	Restarts a specific database in Amazon Lightsail
<code>register_container_image</code>	Registers a container image to your Amazon Lightsail container service
<code>release_static_ip</code>	Deletes a specific static IP from your account

reset_distribution_cache	Deletes currently cached content from your Amazon Lightsail content delivery network (CDN)
send_contact_method_verification	Sends a verification request to an email contact method to ensure it's owned by you
set_ip_address_type	Sets the IP address type for an Amazon Lightsail resource
set_resource_access_for_bucket	Sets the Amazon Lightsail resources that can access the specified Lightsail bucket
start_instance	Starts a specific Amazon Lightsail instance from a stopped state
start_relational_database	Starts a specific database from a stopped state in Amazon Lightsail
stop_instance	Stops a specific Amazon Lightsail instance that is currently running
stop_relational_database	Stops a specific database that is currently running in Amazon Lightsail
tag_resource	Adds one or more tags to the specified Amazon Lightsail resource
test_alarm	Tests an alarm by displaying a banner on the Amazon Lightsail console
unpeer_vpc	Unpeers the Lightsail VPC from the user's default VPC
untag_resource	Deletes the specified set of tag keys and their values from the specified Amazon Lightsail resource
update_bucket	Updates an existing Amazon Lightsail bucket
update_bucket_bundle	Updates the bundle, or storage plan, of an existing Amazon Lightsail bucket
update_container_service	Updates the configuration of your Amazon Lightsail container service, such as the number of containers
update_distribution	Updates an existing Amazon Lightsail content delivery network (CDN) distribution
update_distribution_bundle	Updates the bundle of your Amazon Lightsail content delivery network (CDN) distribution
update_domain_entry	Updates a domain recordset after it is created
update_load_balancer_attribute	Updates the specified attribute for a load balancer
update_relational_database	Allows the update of one or more attributes of a database in Amazon Lightsail
update_relational_database_parameters	Allows the update of one or more parameters of a database in Amazon Lightsail

Examples

```
## Not run:
svc <- lightsail()
svc$allocate_static_ip(
  Foo = 123
)

## End(Not run)
```

proton

AWS Proton

Description

This is the Proton Service API Reference. It provides descriptions, syntax and usage examples for each of the **actions** and **data types** for the Proton service.

The documentation for each action shows the Query API request parameters and the XML response.

Alternatively, you can use the Amazon Web Services CLI to access an API. For more information, see the [Amazon Web Services Command Line Interface User Guide](#).

The Proton service is a two-pronged automation framework. Administrators create service templates to provide standardized infrastructure and deployment tooling for serverless and container

based applications. Developers, in turn, select from the available service templates to automate their application or service deployments.

Because administrators define the infrastructure and tooling that Proton deploys and manages, they need permissions to use all of the listed API operations.

When developers select a specific infrastructure and tooling set, Proton deploys their applications. To monitor their applications that are running on Proton, developers need permissions to the service *create*, *list*, *update* and *delete* API operations and the service instance *list* and *update* API operations.

To learn more about Proton administration, see the [Proton Administrator Guide](#).

To learn more about deploying serverless and containerized applications on Proton, see the [Proton User Guide](#).

Ensuring Idempotency

When you make a mutating API request, the request typically returns a result before the asynchronous workflows of the operation are complete. Operations might also time out or encounter other server issues before they're complete, even if the request already returned a result. This might make it difficult to determine whether the request succeeded. Moreover, you might need to retry the request multiple times to ensure that the operation completes successfully. However, if the original request and the subsequent retries are successful, the operation occurs multiple times. This means that you might create more resources than you intended.

Idempotency ensures that an API request action completes no more than one time. With an idempotent request, if the original request action completes successfully, any subsequent retries complete successfully without performing any further actions. However, the result might contain updated information, such as the current creation status.

The following lists of APIs are grouped according to methods that ensure idempotency.

Idempotent create APIs with a client token

The API actions in this list support idempotency with the use of a *client token*. The corresponding Amazon Web Services CLI commands also support idempotency using a client token. A client token is a unique, case-sensitive string of up to 64 ASCII characters. To make an idempotent API request using one of these actions, specify a client token in the request. We recommend that you *don't* reuse the same client token for other API requests. If you don't provide a client token for these APIs, a default client token is automatically provided by SDKs.

Given a request action that has succeeded:

If you retry the request using the same client token and the same parameters, the retry succeeds without performing any further actions other than returning the original resource detail data in the response.

If you retry the request using the same client token, but one or more of the parameters are different, the retry throws a `ValidationException` with an `IdempotentParameterMismatch` error.

Client tokens expire eight hours after a request is made. If you retry the request with the expired token, a new resource is created.

If the original resource is deleted and you retry the request, a new resource is created.

Idempotent create APIs with a client token:

- `CreateEnvironmentTemplateVersion`
- `CreateServiceTemplateVersion`

- CreateEnvironmentAccountConnection

Idempotent create APIs

Given a request action that has succeeded:

If you retry the request with an API from this group, and the original resource *hasn't* been modified, the retry succeeds without performing any further actions other than returning the original resource detail data in the response.

If the original resource has been modified, the retry throws a `ConflictException`.

If you retry with different input parameters, the retry throws a `ValidationException` with an `IdempotentParameterMismatch` error.

Idempotent create APIs:

- CreateEnvironmentTemplate
- CreateServiceTemplate
- CreateEnvironment
- CreateService

Idempotent delete APIs

Given a request action that has succeeded:

When you retry the request with an API from this group and the resource was deleted, its metadata is returned in the response.

If you retry and the resource doesn't exist, the response is empty.

In both cases, the retry succeeds.

Idempotent delete APIs:

- DeleteEnvironmentTemplate
- DeleteEnvironmentTemplateVersion
- DeleteServiceTemplate
- DeleteServiceTemplateVersion
- DeleteEnvironmentAccountConnection

Asynchronous idempotent delete APIs

Given a request action that has succeeded:

If you retry the request with an API from this group, if the original request delete operation status is `DELETE_IN_PROGRESS`, the retry returns the resource detail data in the response without performing any further actions.

If the original request delete operation is complete, a retry returns an empty response.

Asynchronous idempotent delete APIs:

- DeleteEnvironment
- DeleteService

Usage

```
proton(config = list())
```


Arguments

config	<p>Optional configuration of credentials, endpoint, and/or region.</p> <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to <code>true</code> to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
--------	--

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- proton(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)
```

Operations

[accept_environment_account_connection](#)

In a management account, an environment account connection request is accep

cancel_component_deployment	Attempts to cancel a component deployment (for a component that is in the IN
cancel_environment_deployment	Attempts to cancel an environment deployment on an UpdateEnvironment actio
cancel_service_instance_deployment	Attempts to cancel a service instance deployment on an UpdateServiceInstance
cancel_service_pipeline_deployment	Attempts to cancel a service pipeline deployment on an UpdateServicePipeline
create_component	Create an Proton component
create_environment	Deploy a new environment
create_environment_account_connection	Create an environment account connection in an environment account so that e
create_environment_template	Create an environment template for Proton
create_environment_template_version	Create a new major or minor version of an environment template
create_repository	Create and register a link to a repository that can be used with self-managed pr
create_service	Create an Proton service
create_service_template	Create a service template
create_service_template_version	Create a new major or minor version of a service template
create_template_sync_config	Set up a template to create new template versions automatically
delete_component	Delete an Proton component resource
delete_environment	Delete an environment
delete_environment_account_connection	In an environment account, delete an environment account connection
delete_environment_template	If no other major or minor versions of an environment template exist, delete the
delete_environment_template_version	If no other minor versions of an environment template exist, delete a major ver
delete_repository	De-register and unlink your repository
delete_service	Delete a service, with its instances and pipeline
delete_service_template	If no other major or minor versions of the service template exist, delete the serv
delete_service_template_version	If no other minor versions of a service template exist, delete a major version of
delete_template_sync_config	Delete a template sync configuration
get_account_settings	Get detail data for the Proton pipeline service role
get_component	Get detailed data for a component
get_environment	Get detailed data for an environment
get_environment_account_connection	In an environment account, get the detailed data for an environment account co
get_environment_template	Get detailed data for an environment template
get_environment_template_version	Get detailed data for a major or minor version of an environment template
get_repository	Get detail data for a repository
get_repository_sync_status	Get the sync status of a repository used for Proton template sync
get_service	Get detailed data for a service
get_service_instance	Get detailed data for a service instance
get_service_template	Get detailed data for a service template
get_service_template_version	Get detailed data for a major or minor version of a service template
get_template_sync_config	Get detail data for a template sync configuration
get_template_sync_status	Get the status of a template sync
list_component_outputs	Get a list of component Infrastructure as Code (IaC) outputs
list_component_provisioned_resources	List provisioned resources for a component with details
list_components	List components with summary data
list_environment_account_connections	View a list of environment account connections
list_environment_outputs	List the infrastructure as code outputs for your environment
list_environment_provisioned_resources	List the provisioned resources for your environment
list_environments	List environments with detail data summaries
list_environment_templates	List environment templates
list_environment_template_versions	List major or minor versions of an environment template with detail data
list_repositories	List repositories with detail data

<code>list_repository_sync_definitions</code>	List repository sync definitions with detail data
<code>list_service_instance_outputs</code>	Get a list service of instance Infrastructure as Code (IaC) outputs
<code>list_service_instance_provisioned_resources</code>	List provisioned resources for a service instance with details
<code>list_service_instances</code>	List service instances with summary data
<code>list_service_pipeline_outputs</code>	Get a list of service pipeline Infrastructure as Code (IaC) outputs
<code>list_service_pipeline_provisioned_resources</code>	List provisioned resources for a service and pipeline with details
<code>list_services</code>	List services with summaries of detail data
<code>list_service_templates</code>	List service templates with detail data
<code>list_service_template_versions</code>	List major or minor versions of a service template with detail data
<code>list_tags_for_resource</code>	List tags for a resource
<code>notify_resource_deployment_status_change</code>	Notify Proton of status changes to a provisioned resource when you use self-m
<code>reject_environment_account_connection</code>	In a management account, reject an environment account connection from anot
<code>tag_resource</code>	Tag a resource
<code>untag_resource</code>	Remove a customer tag from a resource
<code>update_account_settings</code>	Update the Proton service pipeline role or repository settings
<code>update_component</code>	Update a component
<code>update_environment</code>	Update an environment
<code>update_environment_account_connection</code>	In an environment account, update an environment account connection to use a
<code>update_environment_template</code>	Update an environment template
<code>update_environment_template_version</code>	Update a major or minor version of an environment template
<code>update_service</code>	Edit a service description or use a spec to add and delete service instances
<code>update_service_instance</code>	Update a service instance
<code>update_service_pipeline</code>	Update the service pipeline
<code>update_service_template</code>	Update a service template
<code>update_service_template_version</code>	Update a major or minor version of a service template
<code>update_template_sync_config</code>	Update template sync configuration parameters, except for the templateName a

Examples

```
## Not run:
svc <- proton()
svc$accept_environment_account_connection(
  Foo = 123
)

## End(Not run)
```

Description

The AWS Serverless Application Repository makes it easy for developers and enterprises to quickly find and deploy serverless applications in the AWS Cloud. For more information about serverless applications, see [Serverless Computing and Applications](#) on the AWS website.

The AWS Serverless Application Repository is deeply integrated with the AWS Lambda console, so that developers of all levels can get started with serverless computing without needing to learn anything new. You can use category keywords to browse for applications such as web and mobile backends, data processing applications, or chatbots. You can also search for applications by name, publisher, or event source. To use an application, you simply choose it, configure any required fields, and deploy it with a few clicks.

You can also easily publish applications, sharing them publicly with the community at large, or privately within your team or across your organization. To publish a serverless application (or app), you can use the AWS Management Console, AWS Command Line Interface (AWS CLI), or AWS SDKs to upload the code. Along with the code, you upload a simple manifest file, also known as the AWS Serverless Application Model (AWS SAM) template. For more information about AWS SAM, see [AWS Serverless Application Model \(AWS SAM\)](#) on the AWS Labs GitHub repository.

The AWS Serverless Application Repository Developer Guide contains more information about the two developer experiences available:

- **Consuming Applications** – Browse for applications and view information about them, including source code and readme files. Also install, configure, and deploy applications of your choosing.
- **Publishing Applications** – Configure and upload applications to make them available to other developers, and publish new versions of applications.

Usage

```
serverlessapplicationrepository(config = list())
```

Arguments

config	<p>Optional configuration of credentials, endpoint, and/or region.</p> <ul style="list-style-type: none"> • access_key_id: AWS access key ID • secret_access_key: AWS secret access key • session_token: AWS temporary session token • profile: The name of a profile to use. If not given, then the default profile is used. • anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to true to force the request to use path-style addressing, i.e., <code>http://s3.amazonaws.com/BUCKET/KEY</code>.
--------	---

Value

A client for the service. You can call the service's operations using syntax like `svc$operation(...)`, where `svc` is the name you've assigned to the client. The available operations are listed in the Operations section.

Service syntax

```
svc <- serverlessapplicationrepository(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
      ),
      profile = "string",
      anonymous = "logical"
    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical"
  )
)
```

Operations

create_application	Creates an application, optionally including an AWS SAM file to create the first application
create_application_version	Creates an application version
create_cloud_formation_change_set	Creates an AWS CloudFormation change set for the given application
create_cloud_formation_template	Creates an AWS CloudFormation template
delete_application	Deletes the specified application
get_application	Gets the specified application
get_application_policy	Retrieves the policy for the application
get_cloud_formation_template	Gets the specified AWS CloudFormation template
list_application_dependencies	Retrieves the list of applications nested in the containing application
list_applications	Lists applications owned by the requester
list_application_versions	Lists versions for the specified application
put_application_policy	Sets the permission policy for an application
unshare_application	Unshares an application from an AWS Organization
update_application	Updates the specified application

Examples

```
## Not run:
```

```
svc <- serverlessapplicationrepository()
svc$create_application(
  Foo = 123
)

## End(Not run)
```

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