

Package ‘paws.compute’

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Title 'Amazon Web Services' Compute Services

Version 0.9.0

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>,
<https://paws-r.r-universe.dev/paws.compute>

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

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'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'
 'reexports_paws.common.R'
 'serverlessapplicationrepository_service.R'
 'serverlessapplicationrepository_interfaces.R'
 'serverlessapplicationrepository_operations.R'

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apprunner

AWS App Runner

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(),
  credentials = list(),
  endpoint = NULL,
  region = NULL
)
```

Arguments

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

- **credentials:**
 - **creds:**
 - * **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.

	<ul style="list-style-type: none"> • 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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	<p>Optional credentials shorthand for the config parameter</p> <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
```

```

credentials = list(
  creds = list(
    access_key_id = "string",
    secret_access_key = "string",
    session_token = "string"
  ),
  profile = "string",
  anonymous = "logical"
),
endpoint = "string",
region = "string"
)

```

Operations

associate_custom_domain	Associate your own domain name with the App Runner subdomain URL of your application
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
create_vpc_ingress_connection	Create an App Runner VPC Ingress Connection 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
delete_vpc_ingress_connection	Delete an App Runner VPC Ingress Connection resource that's associated with an App Runner service
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 service
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
describe_vpc_ingress_connection	Return a full description of an App Runner VPC Ingress Connection 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 Web Services account
list_connections	Returns a list of App Runner connections that are associated with your Amazon Web Services account
list_observability_configurations	Returns a list of active App Runner observability configurations in your Amazon Web Services account
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_services_for_auto_scaling_configuration	Returns a list of the associated App Runner services using an auto scaling configuration
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
list_vpc_ingress_connections	Return a list of App Runner VPC Ingress Connections 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
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_default_auto_scaling_configuration	Update an auto scaling configuration to be the default
update_service	Update an App Runner service
update_vpc_ingress_connection	Update an existing App Runner VPC Ingress Connection resource

Examples

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

## End(Not run)
```

batch

AWS Batch

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 the batch computing 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. You can use Batch to efficiently provision resources, and work toward eliminating capacity constraints, reducing your overall compute costs, and delivering 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 on analyzing results and solving your specific problems instead.

Usage

```
batch(config = list(), credentials = list(), endpoint = NULL, region = NULL)
```

Arguments

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

- **credentials:**
 - **creds:**

	<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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	<p>Optional credentials shorthand for the config parameter</p> <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
  region = "string"
)

```

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
get_job_queue_snapshot	Provides a list of the first 100 RUNNABLE jobs associated to a single job queue
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(), credentials = list(), endpoint = NULL, region = NULL)
```

Arguments

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

- **credentials:**
 - **creds:**
 - * **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.

	<ul style="list-style-type: none"> • 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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    )
  )
)
```

```

    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
  region = "string"
)

```

Operations

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

Examples

```

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

## End(Not run)

```

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, Amazon EBS volumes, and Amazon ECS services on Fargate. 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(),
  credentials = list(),
  endpoint = NULL,
  region = NULL
)
```

Arguments

config	<p>Optional configuration of credentials, endpoint, and/or region.</p> <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	<p>Optional credentials shorthand for the config parameter</p> <ul style="list-style-type: none"> • creds: <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 Optional shorthand for complete URL to use for the constructed client.
- region Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
  region = "string"
)
```

Operations

[delete_recommendation_preferences](#)
[describe_recommendation_export_jobs](#)
[export_auto_scaling_group_recommendations](#)

Deletes a recommendation preference, such as enhanced infrastructure.
 Describes recommendation export jobs created in the last seven days.
 Exports optimization recommendations for Auto Scaling groups.

<code>export_ebs_volume_recommendations</code>	Exports optimization recommendations for Amazon EBS volumes
<code>export_ec2_instance_recommendations</code>	Exports optimization recommendations for Amazon EC2 instances
<code>export_ecs_service_recommendations</code>	Exports optimization recommendations for Amazon ECS services on
<code>export_idle_recommendations</code>	Export optimization recommendations for your idle resources
<code>export_lambda_function_recommendations</code>	Exports optimization recommendations for Lambda functions
<code>export_license_recommendations</code>	Export optimization recommendations for your licenses
<code>export_rds_database_recommendations</code>	Export optimization recommendations for your Amazon Relational D
<code>get_auto_scaling_group_recommendations</code>	Returns Auto Scaling group recommendations
<code>get_ebs_volume_recommendations</code>	Returns Amazon Elastic Block Store (Amazon EBS) volume recomm
<code>get_ec2_instance_recommendations</code>	Returns Amazon EC2 instance recommendations
<code>get_ec2_recommendation_projected_metrics</code>	Returns the projected utilization metrics of Amazon EC2 instance rec
<code>get_ecs_service_recommendation_projected_metrics</code>	Returns the projected metrics of Amazon ECS service recommendati
<code>get_ecs_service_recommendations</code>	Returns Amazon ECS service recommendations
<code>get_effective_recommendation_preferences</code>	Returns the recommendation preferences that are in effect for a given
<code>get_enrollment_status</code>	Returns the enrollment (opt in) status of an account to the Compute C
<code>get_enrollment_statuses_for_organization</code>	Returns the Compute Optimizer enrollment (opt-in) status of organiz
<code>get_idle_recommendations</code>	Returns idle resource recommendations
<code>get_lambda_function_recommendations</code>	Returns Lambda function recommendations
<code>get_license_recommendations</code>	Returns license recommendations for Amazon EC2 instances that run
<code>get_rds_database_recommendation_projected_metrics</code>	Returns the projected metrics of Amazon RDS recommendations
<code>get_rds_database_recommendations</code>	Returns Amazon RDS recommendations
<code>get_recommendation_preferences</code>	Returns existing recommendation preferences, such as enhanced infr
<code>get_recommendation_summaries</code>	Returns the optimization findings for an account
<code>put_recommendation_preferences</code>	Creates a new recommendation preference or updates an existing rec
<code>update_enrollment_status</code>	Updates the enrollment (opt in and opt out) status of an account to th

Examples

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

## End(Not run)
```

Description

You can access the features of Amazon Elastic Compute Cloud (Amazon EC2) programmatically. For more information, see the [Amazon EC2 Developer Guide](#).

Usage

```
ec2(config = list(), credentials = list(), endpoint = NULL, region = NULL)
```

Arguments

config	<p>Optional configuration of credentials, endpoint, and/or region.</p> <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	<p>Optional credentials shorthand for the config parameter</p> <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
  region = "string"
)

```

Operations

[accept_address_transfer](#)
[accept_capacity_reservation_billing_ownership](#)
[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](#)

Accepts an Elastic IP address transfer
 Accepts a request to assign billing of the available capacity to a reserved instance
 Accepts the Convertible Reserved Instance exchange quote
 Accepts a request to associate subnets with a transit gateway
 Accepts a transit gateway peering attachment request
 Accepts a request to attach a VPC to a transit gateway
 Accepts connection requests to your VPC endpoint
 Accept a VPC peering connection request
 Advertises an IPv4 or IPv6 address range that is available for your account
 Allocates an Elastic IP address to your Amazon account
 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 transit gateway

assign_ipv_6_addresses	Assigns the specified IPv6 addresses to the specified instance.
assign_private_ip_addresses	Assigns the specified secondary private IP addresses to the specified instance.
assign_private_nat_gateway_address	Assigns private IPv4 addresses to a private NAT gateway.
associate_address	Associates an Elastic IP address, or carrier IP address, with a running instance.
associate_capacity_reservation_billing_owner	Initiates a request to assign billing of the unused capacity to a specific user.
associate_client_vpn_target_network	Associates a target network with a Client VPN endpoint.
associate_dhcp_options	Associates a set of DHCP options (that you've previously created) with a running instance.
associate_enclave_certificate_iam_role	Associates an Identity and Access Management (IAM) role with an Amazon EC2 instance.
associate_iam_instance_profile	Associates an IAM instance profile with a running instance.
associate_instance_event_window	Associates one or more targets with an event window.
associate_ipam_byoasn	Associates your Autonomous System Number (ASN) with an Amazon IPAM resource.
associate_ipam_resource_discovery	Associates an IPAM resource discovery with a running instance.
associate_nat_gateway_address	Associates Elastic IP addresses (EIPs) and private IP addresses to a NAT gateway.
associate_route_table	Associates a subnet in your VPC or an internet gateway with a route table.
associate_security_group_vpc	Associates a security group with another VPC in your account.
associate_subnet_cidr_block	Associates a CIDR block with your subnet.
associate_transit_gateway_multicast_domain	Associates the specified subnets and transit gateway with a multicast domain.
associate_transit_gateway_policy_table	Associates the specified transit gateway attachment with a policy table.
associate_transit_gateway_route_table	Associates the specified attachment with the specified route table.
associate_trunk_interface	Associates a branch network interface with a trunk network interface.
associate_vpc_cidr_block	Associates a CIDR block with your VPC.
attach_classic_link_vpc	This action is deprecated.
attach_internet_gateway	Attaches an internet gateway or a virtual private gateway to a VPC.
attach_network_interface	Attaches a network interface to an instance.
attach_verified_access_trust_provider	Attaches the specified Amazon Web Services Verified Access trust provider to a VPC.
attach_volume	Attaches an EBS volume to a running or stopped instance.
attach_vpn_gateway	Attaches an available virtual private gateway to a VPC.
authorize_client_vpn_ingress	Adds an ingress authorization rule to a Client VPN endpoint.
authorize_security_group_egress	Adds the specified outbound (egress) rules to a security group.
authorize_security_group_ingress	Adds the specified inbound (ingress) rules to a security group.
bundle_instance	Bundles an Amazon instance store-backed Windows instance.
cancel_bundle_task	Cancels a bundling operation for an instance store-backed Windows instance.
cancel_capacity_reservation	Cancels the specified Capacity Reservation, releasing the reserved capacity.
cancel_capacity_reservation_fleets	Cancels one or more Capacity Reservation Fleets.
cancel_conversion_task	Cancels an active conversion task.
cancel_declarative_policies_report	Cancels the generation of an account status report.
cancel_export_task	Cancels an active export task.
cancel_image_launch_permission	Removes your Amazon Web Services account from the specified image launch permission.
cancel_import_task	Cancels an in-process import virtual machine or operating system image.
cancel_reserved_instances_listing	Cancels the specified Reserved Instance listing in your account.
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 with the specified instance.
copy_fpga_image	Copies the specified Amazon FPGA Image (AFI) to your account.
copy_image	Initiates an AMI copy operation.
copy_snapshot	Copies a point-in-time snapshot of an EBS volume to another account.
create_capacity_reservation	Creates a new Capacity Reservation with the specified parameters.
create_capacity_reservation_by_splitting	Create a new Capacity Reservation by splitting the specified Capacity Reservation.

<code>create_capacity_reservation_fleet</code>	Creates a Capacity Reservation Fleet
<code>create_carrier_gateway</code>	Creates a carrier gateway
<code>create_client_vpn_endpoint</code>	Creates a Client VPN endpoint
<code>create_client_vpn_route</code>	Adds a route to a network to a Client VPN endpoint
<code>create_coip_cidr</code>	Creates a range of customer-owned IP addresses
<code>create_coip_pool</code>	Creates a pool of customer-owned IP (CoIP) addresses
<code>create_customer_gateway</code>	Provides information to Amazon Web Services about a customer gateway
<code>create_default_subnet</code>	Creates a default subnet with a size /20 IPv4 CIDR
<code>create_default_vpc</code>	Creates a default VPC with a size /16 IPv4 CIDR
<code>create_dhcp_options</code>	Creates a custom set of DHCP options
<code>create_egress_only_internet_gateway</code>	[IPv6 only] Creates an egress-only internet gateway
<code>create_fleet</code>	Creates an EC2 Fleet that contains the configuration for a fleet
<code>create_flow_logs</code>	Creates one or more flow logs to capture information about network traffic
<code>create_fpga_image</code>	Creates an Amazon FPGA Image (AFI) from the specified image
<code>create_image</code>	Creates an Amazon EBS-backed AMI from an Amazon EC2 instance
<code>create_instance_connect_endpoint</code>	Creates an EC2 Instance Connect Endpoint
<code>create_instance_event_window</code>	Creates an event window in which scheduled events can occur
<code>create_instance_export_task</code>	Exports a running or stopped instance to an Amazon S3 bucket
<code>create_internet_gateway</code>	Creates an internet gateway for use with a VPC
<code>create_ipam</code>	Create an IPAM
<code>create_ipam_external_resource_verification_token</code>	Create a verification token
<code>create_ipam_pool</code>	Create an IP address pool for Amazon VPC IP Address Management
<code>create_ipam_resource_discovery</code>	Creates an IPAM resource discovery
<code>create_ipam_scope</code>	Create an IPAM scope
<code>create_key_pair</code>	Creates an ED25519 or 2048-bit RSA key pair with a public key
<code>create_launch_template</code>	Creates a launch template
<code>create_launch_template_version</code>	Creates a new version of a launch template
<code>create_local_gateway_route</code>	Creates a static route for the specified local gateway
<code>create_local_gateway_route_table</code>	Creates a local gateway route table
<code>create_local_gateway_route_table_virtual_interface_group_association</code>	Creates a local gateway route table virtual interface group association
<code>create_local_gateway_route_table_vpc_association</code>	Associates the specified VPC with the specified local gateway route table
<code>create_managed_prefix_list</code>	Creates a managed prefix list
<code>create_nat_gateway</code>	Creates a NAT gateway in the specified subnet
<code>create_network_acl</code>	Creates a network ACL in a VPC
<code>create_network_acl_entry</code>	Creates an entry (a rule) in a network ACL with a rule number
<code>create_network_insights_access_scope</code>	Creates a Network Access Scope
<code>create_network_insights_path</code>	Creates a path to analyze for reachability
<code>create_network_interface</code>	Creates a network interface in the specified subnet
<code>create_network_interface_permission</code>	Grants an Amazon Web Services-authorized account permission to use a network interface
<code>create_placement_group</code>	Creates a placement group in which to launch instances
<code>create_public_ipv4_pool</code>	Creates a public IPv4 address pool
<code>create_replace_root_volume_task</code>	Replaces the EBS-backed root volume for a running instance
<code>create_reserved_instances_listing</code>	Creates a listing for Amazon EC2 Standard Reserved Instances
<code>create_restore_image_task</code>	Starts a task that restores an AMI from an Amazon S3 bucket
<code>create_route</code>	Creates a route in a route table within a VPC
<code>create_route_table</code>	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

create_snapshots	Creates crash-consistent snapshots of multiple EC2 instances
create_spot_datafeed_subscription	Creates a data feed for Spot Instances, enabling you to track Spot Instance usage
create_store_image_task	Stores an AMI as a single object in an Amazon S3 bucket
create_subnet	Creates a subnet in the specified VPC
create_subnet_cidr_reservation	Creates a subnet CIDR reservation
create_tags	Adds or overwrites only the specified tags for the specified resource
create_traffic_mirror_filter	Creates a Traffic Mirror filter
create_traffic_mirror_filter_rule	Creates a Traffic Mirror filter rule
create_traffic_mirror_session	Creates a Traffic Mirror session
create_traffic_mirror_target	Creates a target for your Traffic Mirror session
create_transit_gateway	Creates a transit gateway
create_transit_gateway_connect	Creates a Connect attachment from a specified transit gateway
create_transit_gateway_connect_peer	Creates a Connect peer for a specified transit gateway
create_transit_gateway_multicast_domain	Creates a multicast domain using the specified transit gateway
create_transit_gateway_peering_attachment	Requests a transit gateway peering attachment between two transit gateways
create_transit_gateway_policy_table	Creates a transit gateway policy table
create_transit_gateway_prefix_list_reference	Creates a reference (route) to a prefix list in a specified VPC
create_transit_gateway_route	Creates a static route for the specified transit gateway
create_transit_gateway_route_table	Creates a route table for the specified transit gateway
create_transit_gateway_route_table_announcement	Advertises a new transit gateway route table
create_transit_gateway_vpc_attachment	Attaches the specified VPC to the specified transit gateway
create_verified_access_endpoint	An Amazon Web Services Verified Access endpoint
create_verified_access_group	An Amazon Web Services Verified Access group
create_verified_access_instance	An Amazon Web Services Verified Access instance
create_verified_access_trust_provider	A trust provider is a third-party entity that creates and manages trust relationships
create_volume	Creates an EBS volume that can be attached to an EC2 instance
create_vpc	Creates a VPC with the specified CIDR blocks
create_vpc_block_public_access_exclusion	Create a VPC Block Public Access (BPA) exclusion
create_vpc_endpoint	Creates a VPC endpoint
create_vpc_endpoint_connection_notification	Creates a connection notification for a specified VPC endpoint
create_vpc_endpoint_service_configuration	Creates a VPC endpoint service to which service endpoints can be attached
create_vpc_peering_connection	Requests a VPC peering connection between two VPCs
create_vpn_connection	Creates a VPN connection between an existing VPC and a customer gateway
create_vpn_connection_route	Creates a static route associated with a VPN connection
create_vpn_gateway	Creates a virtual private gateway
delete_carrier_gateway	Deletes a carrier gateway
delete_client_vpn_endpoint	Deletes the specified Client VPN endpoint
delete_client_vpn_route	Deletes a route from a Client VPN endpoint
delete_coip_cidr	Deletes a range of customer-owned IP addresses
delete_coip_pool	Deletes a pool of customer-owned IP (CoIP) addresses
delete_customer_gateway	Deletes the specified customer gateway
delete_dhcp_options	Deletes the specified set of DHCP options
delete_egress_only_internet_gateway	Deletes an egress-only internet gateway
delete_fleets	Deletes the specified EC2 Fleets
delete_flow_logs	Deletes one or more flow logs
delete_fpga_image	Deletes the specified Amazon FPGA Image (AFI)
delete_instance_connect_endpoint	Deletes the specified EC2 Instance Connect Endpoint
delete_instance_event_window	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_external_resource_verification_token</code>	Delete a verification token
<code>delete_ipam_pool</code>	Delete an IPAM pool
<code>delete_ipam_resource_discovery</code>	Deletes an IPAM resource discovery
<code>delete_ipam_scope</code>	Delete the scope for an IPAM
<code>delete_key_pair</code>	Deletes the specified key pair, by removing the p
<code>delete_launch_template</code>	Deletes a launch template
<code>delete_launch_template_versions</code>	Deletes one or more versions of a launch templ
<code>delete_local_gateway_route</code>	Deletes the specified route from the specified loc
<code>delete_local_gateway_route_table</code>	Deletes a local gateway route table
<code>delete_local_gateway_route_table_virtual_interface_group_association</code>	Deletes a local gateway route table virtual interfa
<code>delete_local_gateway_route_table_vpc_association</code>	Deletes the specified association between a VPC
<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
<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 ana
<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 R
<code>delete_route</code>	Deletes the specified route from the specified rou
<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 specifie
<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 d
<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 sp
<code>delete_transit_gateway_route</code>	Deletes the specified route from the specified tra
<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 ga

delete_transit_gateway_vpc_attachment
 delete_verified_access_endpoint
 delete_verified_access_group
 delete_verified_access_instance
 delete_verified_access_trust_provider
 delete_volume
 delete_vpc
 delete_vpc_block_public_access_exclusion
 delete_vpc_endpoint_connection_notifications
 delete_vpc_endpoints
 delete_vpc_endpoint_service_configurations
 delete_vpc_peering_connection
 delete_vpn_connection
 delete_vpn_connection_route
 delete_vpn_gateway
 deprovision_byoip_cidr
 deprovision_ipam_byoasn
 deprovision_ipam_pool_cidr
 deprovision_public_ipv4_pool_cidr
 deregister_image
 deregister_instance_event_notification_attributes
 deregister_transit_gateway_multicast_group_members
 deregister_transit_gateway_multicast_group_sources
 describe_account_attributes
 describe_addresses
 describe_addresses_attribute
 describe_address_transfers
 describe_aggregate_id_format
 describe_availability_zones
 describe_aws_network_performance_metric_subscriptions
 describe_bundle_tasks
 describe_byoip_cidrs
 describe_capacity_block_extension_history
 describe_capacity_block_extension_offerings
 describe_capacity_block_offerings
 describe_capacity_reservation_billing_requests
 describe_capacity_reservation_fleets
 describe_capacity_reservations
 describe_carrier_gateways
 describe_classic_link_instances
 describe_client_vpn_authorization_rules
 describe_client_vpn_connections
 describe_client_vpn_endpoints
 describe_client_vpn_routes
 describe_client_vpn_target_networks
 describe_coip_pools
 describe_conversion_tasks
 describe_customer_gateways

Deletes the specified VPC attachment
 Delete an Amazon Web Services Verified Access endpoint
 Delete an Amazon Web Services Verified Access group
 Delete an Amazon Web Services Verified Access instance
 Delete an Amazon Web Services Verified Access trust provider
 Deletes the specified EBS volume
 Deletes the specified VPC
 Delete a VPC Block Public Access (BPA) exclusion
 Deletes the specified VPC endpoint connection notifications
 Deletes the specified VPC endpoints
 Deletes the specified VPC endpoint service configurations
 Deletes a VPC peering connection
 Deletes the specified VPN connection
 Deletes the specified static route associated with a VPC
 Deletes the specified virtual private gateway
 Releases the specified address range that you provisioned
 Deprovisions your Autonomous System Number (ASN)
 Deprovision a CIDR provisioned from an IPAM pool
 Deprovision a CIDR from a public IPv4 pool
 Deregisters the specified AMI
 Deregisters tag keys to prevent tags that have the specified key
 Deregisters the specified members (network interfaces) of a VPC
 Deregisters the specified sources (network interfaces) of a VPC
 Describes attributes of your Amazon Web Services account
 Describes the specified Elastic IP addresses or all of your Elastic IP addresses
 Describes the attributes of the specified Elastic IP address
 Describes an Elastic IP address transfer
 Describes the longer ID format settings for all regions
 Describes the Availability Zones, Local Zones, and Outposts
 Describes the current Infrastructure Performance Metrics
 Describes the specified bundle tasks or all of your bundle tasks
 Describes the IP address ranges that were specified for your BYOIP
 Describes the events for the specified Capacity Block extension
 Describes Capacity Block extension offerings available for your region
 Describes Capacity Block offerings available for your region
 Describes a request to assign the billing of the unreserved IP address
 Describes one or more Capacity Reservation Fleets
 Describes one or more of your Capacity Reservations
 Describes one or more of your carrier gateways
 This action is deprecated
 Describes the authorization rules for a specified Client VPN connection
 Describes active client connections and connections in the process of being established
 Describes one or more Client VPN endpoints in a VPC
 Describes the routes for the specified Client VPN connection
 Describes the target networks associated with the specified Client VPN connection
 Describes the specified customer-owned address pools
 Describes the specified conversion tasks or all of your conversion tasks
 Describes one or more of your VPN customer gateways

describe_declarative_policies_reports	Describes the metadata of an account status report
describe_dhcp_options	Describes your DHCP option sets
describe_egress_only_internet_gateways	Describes your egress-only internet gateways
describe_elastic_gpus	Describes Amazon Elastic Graphics that have reached end of life on your account
describe_export_image_tasks	Describes the specified export image tasks or all export image tasks
describe_export_tasks	Describes the specified export instance tasks or all export instance tasks
describe_fast_launch_images	Describe details for Windows AMIs that are compatible with Fast Launch
describe_fast_snapshot_restores	Describes the state of fast snapshot restores for your account
describe_fleet_history	Describes the events for the specified EC2 Fleet or all of your EC2 Fleets
describe_fleet_instances	Describes the running instances for the specified EC2 Fleet or all of your EC2 Fleets
describe_fleets	Describes the specified EC2 Fleet or all of your EC2 Fleets
describe_flow_logs	Describes one or more flow logs
describe_fpga_image_attribute	Describes the specified attribute of the specified Amazon FPGA Image (AFI)
describe_fpga_images	Describes the Amazon FPGA Images (AFIs) available in your account
describe_host_reservation_offerings	Describes the Dedicated Host reservations that are available in your account
describe_host_reservations	Describes reservations that are associated with Dedicated Hosts
describe_hosts	Describes the specified Dedicated Hosts or all of your Dedicated Hosts
describe_iam_instance_profile_associations	Describes your IAM instance profile associations
describe_identity_id_format	Describes the ID format settings for resources for your account
describe_id_format	Describes the ID format settings for your resources
describe_image_attribute	Describes the specified attribute of the specified image
describe_images	Describes the specified images (AMIs, AKIs, and S3 images)
describe_import_image_tasks	Displays details about an import virtual machine image task
describe_import_snapshot_tasks	Describes your import snapshot tasks
describe_instance_attribute	Describes the specified attribute of the specified instance
describe_instance_connect_endpoints	Describes the specified EC2 Instance Connect Endpoints
describe_instance_credit_specifications	Describes the credit option for CPU usage of the specified instance
describe_instance_event_notification_attributes	Describes the tag keys that are registered to appear on instance event notifications
describe_instance_event_windows	Describes the specified event windows or all event windows
describe_instance_image_metadata	Describes the AMI that was used to launch an instance
describe_instances	Describes the specified instances or all instances
describe_instance_status	Describes the status of the specified instances or all instances
describe_instance_topology	Describes a tree-based hierarchy that represents the topology of your instances
describe_instance_type_offerings	Lists the instance types that are offered for the specified region and availability zone
describe_instance_types	Describes the specified instance types
describe_internet_gateways	Describes your internet gateways
describe_ipam_byoasn	Describes your Autonomous System Numbers (ASNs) that are associated with your IPAM
describe_ipam_external_resource_verification_tokens	Describe verification tokens
describe_ipam_pools	Get information about your IPAM pools
describe_ipam_resource_discoveries	Describes IPAM resource discoveries
describe_ipam_resource_discovery_associations	Describes resource discovery association with an IPAM pool
describe_ipams	Get information about your IPAM pools
describe_ipam_scopes	Get information about your IPAM scopes
describe_ipv6_pools	Describes your IPv6 address pools
describe_key_pairs	Describes the specified key pairs or all of your key pairs
describe_launch_templates	Describes one or more launch templates
describe_launch_template_versions	Describes one or more versions of a specified launch template
describe_local_gateway_route_tables	Describes one or more local gateway route tables

describe_local_gateway_route_table_virtual_interface_group_associations	Describes the associations between virtual interface groups and local gateway route tables
describe_local_gateway_route_table_vpc_associations	Describes the specified associations between VPCs and local gateway route tables
describe_local_gateways	Describes one or more local gateways
describe_local_gateway_virtual_interface_groups	Describes the specified local gateway virtual interface groups
describe_local_gateway_virtual_interfaces	Describes the specified local gateway virtual interfaces
describe_locked_snapshots	Describes the lock status for a snapshot
describe_mac_hosts	Describes the specified EC2 Mac Dedicated Hosts
describe_managed_prefix_lists	Describes your managed prefix lists and any Amazon Route 53 hosted zones
describe_moving_addresses	This action is deprecated
describe_nat_gateways	Describes your NAT gateways
describe_network_acls	Describes your network ACLs
describe_network_insights_access_scope_analyses	Describes the specified Network Access Scope analyses
describe_network_insights_access_scopes	Describes the specified Network Access Scopes
describe_network_insights_analyses	Describes one or more of your network insights analyses
describe_network_insights_paths	Describes one or more of your paths
describe_network_interface_attribute	Describes a network interface attribute
describe_network_interface_permissions	Describes the permissions for your network interfaces
describe_network_interfaces	Describes the specified network interfaces or all of your network interfaces
describe_placement_groups	Describes the specified placement groups or all of your placement groups
describe_prefix_lists	Describes available Amazon Web Services service prefix lists
describe_principal_id_format	Describes the ID format settings for the root user
describe_public_ipv4_pools	Describes the specified IPv4 address pools
describe_regions	Describes the Regions that are enabled for your account
describe_replace_root_volume_tasks	Describes a root volume replacement task
describe_reserved_instances	Describes one or more of the Reserved Instances
describe_reserved_instances_listings	Describes your account's Reserved Instance listings
describe_reserved_instances_modifications	Describes the modifications made to your Reserved Instances
describe_reserved_instances_offerings	Describes Reserved Instance offerings that are available
describe_route_tables	Describes your route tables
describe_scheduled_instance_availability	Finds available schedules that meet the specified criteria
describe_scheduled_instances	Describes the specified Scheduled Instances or all of your Scheduled Instances
describe_security_group_references	Describes the VPCs on the other side of a VPC peering connection
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_security_group_vpc_associations	Describes security group VPC associations made by you
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	Describes the stale security group rules for security groups
describe_store_image_tasks	Describes the progress of the AMI store tasks
describe_subnets	Describes your subnets
describe_tags	Describes the specified tags for your EC2 resources

describe_traffic_mirror_filter_rules	Describe traffic mirror filters that determine the t
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 tar
describe_transit_gateway_attachments	Describes one or more attachments between reso
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
describe_transit_gateway_peering_attachments	Describes your transit gateway peering attachme
describe_transit_gateway_policy_tables	Describes one or more transit gateway route poli
describe_transit_gateway_route_table_announcements	Describes one or more transit gateway route tabl
describe_transit_gateway_route_tables	Describes one or more transit gateway route tabl
describe_transit_gateways	Describes one or more transit gateways
describe_transit_gateway_vpc_attachments	Describes one or more VPC attachments
describe_trunk_interface_associations	Describes one or more network interface trunk as
describe_verified_access_endpoints	Describes the specified Amazon Web Services V
describe_verified_access_groups	Describes the specified Verified Access groups
describe_verified_access_instance_logging_configurations	Describes the specified Amazon Web Services V
describe_verified_access_instances	Describes the specified Amazon Web Services V
describe_verified_access_trust_providers	Describes the specified Amazon Web Services V
describe_volume_attribute	Describes the specified attribute of the specified
describe_volumes	Describes the specified EBS volumes or all of yo
describe_volumes_modifications	Describes the most recent volume modification r
describe_volume_status	Describes the status of the specified volumes
describe_vpc_attribute	Describes the specified attribute of the specified
describe_vpc_block_public_access_exclusions	Describe VPC Block Public Access (BPA) exclu
describe_vpc_block_public_access_options	Describe VPC Block Public Access (BPA) option
describe_vpc_classic_link	This action is deprecated
describe_vpc_classic_link_dns_support	This action is deprecated
describe_vpc_endpoint_associations	Describes the VPC resources, VPC endpoint serv
describe_vpc_endpoint_connection_notifications	Describes the connection notifications for VPC e
describe_vpc_endpoint_connections	Describes the VPC endpoint connections to your
describe_vpc_endpoints	Describes your VPC endpoints
describe_vpc_endpoint_service_configurations	Describes the VPC endpoint service configuratio
describe_vpc_endpoint_service_permissions	Describes the principals (service consumers) tha
describe_vpc_endpoint_services	Describes available services to which you can cr
describe_vpc_peering_connections	Describes your VPC peering connections
describe_vpcs	Describes your VPCs
describe_vpn_connections	Describes one or more of your VPN connections
describe_vpn_gateways	Describes one or more of your virtual private gat
detach_classic_link_vpc	This action is deprecated
detach_internet_gateway	Detaches an internet gateway from a VPC, disab
detach_network_interface	Detaches a network interface from an instance
detach_verified_access_trust_provider	Detaches the specified Amazon Web Services Ve
detach_volume	Detaches an EBS volume from an instance
detach_vpn_gateway	Detaches a virtual private gateway from a VPC
disable_address_transfer	Disables Elastic IP address transfer
disable_allowed_images_settings	Disables Allowed AMIs for your account in the s

<code>disable_aws_network_performance_metric_subscription</code>	Disables Infrastructure Performance metric subscription
<code>disable_ebs_encryption_by_default</code>	Disables EBS encryption by default for your account
<code>disable_fast_launch</code>	Discontinue Windows fast launch for a Windows instance
<code>disable_fast_snapshot_restores</code>	Disables fast snapshot restores for the specified snapshot
<code>disable_image</code>	Sets the AMI state to disabled and removes all launch permissions
<code>disable_image_block_public_access</code>	Disables block public access for AMIs at the account level
<code>disable_image_deprecation</code>	Cancel the deprecation of the specified AMI
<code>disable_image_deregistration_protection</code>	Disables deregistration protection for an 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_snapshot_block_public_access</code>	Disables the block public access for snapshots
<code>disable_transit_gateway_route_table_propagation</code>	Disables the specified resource attachment from propagating routes
<code>disable_vgw_route_propagation</code>	Disables a virtual private gateway (VGW) from propagating routes
<code>disable_vpc_classic_link</code>	This action is deprecated
<code>disable_vpc_classic_link_dns_support</code>	This action is deprecated
<code>disassociate_address</code>	Disassociates an Elastic IP address from the instance
<code>disassociate_capacity_reservation_billing_owner</code>	Cancel a pending request to assign billing of the reservation to another account
<code>disassociate_client_vpn_target_network</code>	Disassociates a target network from the specified client VPN connection
<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_ipam_byoasn</code>	Remove the association between your Autonomous System (AS) and Amazon IPAM
<code>disassociate_ipam_resource_discovery</code>	Disassociates a resource discovery from an Amazon IPAM
<code>disassociate_nat_gateway_address</code>	Disassociates secondary Elastic IP addresses (EIPs) from a NAT gateway
<code>disassociate_route_table</code>	Disassociates a subnet or gateway from a route table
<code>disassociate_security_group_vpc</code>	Disassociates a security group from a VPC
<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 multicast domain
<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>	Removes an association between a branch network interface and a trunk network interface
<code>disassociate_vpc_cidr_block</code>	Disassociates a CIDR block from a VPC
<code>enable_address_transfer</code>	Enables Elastic IP address transfer
<code>enable_allowed_images_settings</code>	Enables Allowed AMIs for your account in the specified region
<code>enable_aws_network_performance_metric_subscription</code>	Enables Infrastructure Performance subscriptions
<code>enable_ebs_encryption_by_default</code>	Enables EBS encryption by default for your account
<code>enable_fast_launch</code>	When you enable Windows fast launch for a Windows instance
<code>enable_fast_snapshot_restores</code>	Enables fast snapshot restores for the specified snapshot
<code>enable_image</code>	Re-enables a disabled AMI
<code>enable_image_block_public_access</code>	Enables block public access for AMIs at the account level
<code>enable_image_deprecation</code>	Enables deprecation of the specified AMI at the account level
<code>enable_image_deregistration_protection</code>	Enables deregistration protection for an AMI
<code>enable_ipam_organization_admin_account</code>	Enable an Organizations member account as the IPAM account
<code>enable_reachability_analyzer_organization_sharing</code>	Establishes a trust relationship between Reachability Analyzer and Organizations
<code>enable_serial_console_access</code>	Enables access to the EC2 serial console of all instances
<code>enable_snapshot_block_public_access</code>	Enables or modifies the block public access for snapshots
<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
<code>enable_vpc_classic_link</code>	This action is deprecated
<code>enable_vpc_classic_link_dns_support</code>	This action is deprecated
<code>export_client_vpn_client_certificate_revocation_list</code>	Downloads the client certificate revocation list for
<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
<code>export_transit_gateway_routes</code>	Exports routes from the specified transit gateway
<code>export_verified_access_instance_client_configuration</code>	Exports the client configuration for a Verified Access
<code>get_allowed_images_settings</code>	Gets the current state of the Allowed AMIs setting
<code>get_associated_enclave_certificate_iam_roles</code>	Returns the IAM roles that are associated with the
<code>get_associated_ipv6_pool_cidrs</code>	Gets information about the IPv6 CIDR block associated
<code>get_aws_network_performance_data</code>	Gets network performance data
<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
<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_declarative_policies_report_summary</code>	Retrieves a summary of the account status report
<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 streamlines
<code>get_groups_for_capacity_reservation</code>	Lists the resource groups to which a Capacity Reservation
<code>get_host_reservation_purchase_preview</code>	Preview a reservation purchase with configuration
<code>get_image_block_public_access_state</code>	Gets the current state of block public access for a
<code>get_instance_metadata_defaults</code>	Gets the default instance metadata service (IMDS)
<code>get_instance_tpm_ek_public_key</code>	Gets the public endorsement key associated with the
<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 store
<code>get_ipam_address_history</code>	Retrieve historical information about a CIDR with
<code>get_ipam_discovered_accounts</code>	Gets IPAM discovered accounts
<code>get_ipam_discovered_public_addresses</code>	Gets the public IP addresses that have been discovered
<code>get_ipam_discovered_resource_cidrs</code>	Returns the resource CIDRs that are monitored and
<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>	Returns resource CIDRs managed by IPAM in a
<code>get_launch_template_data</code>	Retrieves the configuration data of the specified
<code>get_managed_prefix_list_associations</code>	Gets information about the resources that are associated
<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 Access
<code>get_network_insights_access_scope_content</code>	Gets the content for the specified Network Access
<code>get_password_data</code>	Retrieves the encrypted administrator password for
<code>get_reserved_instances_exchange_quote</code>	Returns a quote and exchange information for exchanging
<code>get_security_groups_for_vpc</code>	Gets security groups that can be associated by the
<code>get_serial_console_access_status</code>	Retrieves the access status of your account to the
<code>get_snapshot_block_public_access_state</code>	Gets the current state of block public access for s
<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 reservation
<code>get_transit_gateway_attachment_propagations</code>	Lists the route tables to which the specified resource

<code>get_transit_gateway_multicast_domain_associations</code>	Gets information about the associations for the transit gateway multicast domain.
<code>get_transit_gateway_policy_table_associations</code>	Gets a list of the transit gateway policy table associations.
<code>get_transit_gateway_policy_table_entries</code>	Returns a list of transit gateway policy table entries.
<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 specified transit gateway route table.
<code>get_transit_gateway_route_table_propagations</code>	Gets information about the route table propagations.
<code>get_verified_access_endpoint_policy</code>	Get the Verified Access policy associated with the specified endpoint.
<code>get_verified_access_endpoint_targets</code>	Gets the targets for the specified network CIDR block.
<code>get_verified_access_group_policy</code>	Shows the contents of the Verified Access policy.
<code>get_vpn_connection_device_sample_configuration</code>	Download an Amazon Web Services-provided sample configuration.
<code>get_vpn_connection_device_types</code>	Obtain a list of customer gateway devices for which you can create a VPN connection.
<code>get_vpn_tunnel_replacement_status</code>	Get details of available tunnel endpoint maintenance.
<code>import_client_vpn_client_certificate_revocation_list</code>	Uploads a client certificate revocation list to the specified VPN connection.
<code>import_image</code>	To import your virtual machines (VMs) with a custom image.
<code>import_instance</code>	We recommend that you use the <code>ImportImageAction</code> to import your VMs.
<code>import_key_pair</code>	We recommend that you use the <code>ImportImageAction</code> to import your VMs.
<code>import_snapshot</code>	Imports the public key from an RSA or ED25519 key pair.
<code>import_volume</code>	Imports a disk into an EBS snapshot.
<code>list_images_in_recycle_bin</code>	This API action supports only single-volume VMs.
<code>list_snapshots_in_recycle_bin</code>	Lists one or more AMIs that are currently in the recycle bin.
<code>lock_snapshot</code>	Lists one or more snapshots that are currently in the recycle bin.
<code>modify_address_attribute</code>	Locks an Amazon EBS snapshot in either government or standard availability.
<code>modify_availability_zone_group</code>	Modifies an attribute of the specified Elastic IP address.
<code>modify_capacity_reservation</code>	Changes the opt-in status of the specified zone group.
<code>modify_capacity_reservation_fleet</code>	Modifies a Capacity Reservation's capacity, instance type, or platform.
<code>modify_client_vpn_endpoint</code>	Modifies a Capacity Reservation Fleet.
<code>modify_default_credit_specification</code>	Modifies the specified Client VPN endpoint.
<code>modify_ebs_default_kms_key_id</code>	Modifies the default credit option for CPU usage on a running instance.
<code>modify_fleet</code>	Modifies the default KMS key for EBS encryption.
<code>modify_fpga_image_attribute</code>	Changes the default KMS key for EBS encryption.
<code>modify_hosts</code>	Modifies the specified EC2 Fleet.
<code>modify_identity_id_format</code>	Modifies the specified attribute of the specified Amazon Machine Image (AMI).
<code>modify_id_format</code>	Modify the auto-placement setting of a Dedicated Host.
<code>modify_image_attribute</code>	Modifies the ID format of a resource for a specific region.
<code>modify_instance_attribute</code>	Modifies the ID format for the specified resource.
<code>modify_instance_capacity_reservation_attributes</code>	Modifies the specified attribute of the specified Amazon Machine Image (AMI).
<code>modify_instance_cpu_options</code>	Modifies the specified attribute of the specified instance.
<code>modify_instance_credit_specification</code>	Modifies the Capacity Reservation settings for a Capacity Reservation.
<code>modify_instance_event_start_time</code>	By default, all vCPUs for the instance type are active.
<code>modify_instance_event_window</code>	Modifies the credit option for CPU usage on a running instance.
<code>modify_instance_maintenance_options</code>	Modifies the start time for a scheduled Amazon Linux update.
<code>modify_instance_metadata_defaults</code>	Modifies the specified event window.
<code>modify_instance_metadata_options</code>	Modifies the recovery behavior of your instance.
<code>modify_instance_network_performance_options</code>	Modifies the default instance metadata service (IMDS) version.
<code>modify_instance_placement</code>	Modify the instance metadata parameters on a running instance.
<code>modify_ipam</code>	Change the configuration of the network performance mode.
<code>modify_ipam_pool</code>	Modifies the placement attributes for a specified instance.
<code>modify_ipam_resource_cidr</code>	Modifies the configurations of an IPAM pool.
	Modify the configurations of an IPAM pool.
	Modify a resource CIDR.

<code>modify_ipam_resource_discovery</code>	Modifies a resource discovery
<code>modify_ipam_scope</code>	Modify an IPAM scope
<code>modify_launch_template</code>	Modifies a launch template
<code>modify_local_gateway_route</code>	Modifies the specified local gateway route
<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 t
<code>modify_reserved_instances</code>	Modifies the configuration of your Reserved Inst
<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 spec
<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 sp
<code>modify_transit_gateway_vpc_attachment</code>	Modifies the specified VPC attachment
<code>modify_verified_access_endpoint</code>	Modifies the configuration of the specified Amaz
<code>modify_verified_access_endpoint_policy</code>	Modifies the specified Amazon Web Services Ve
<code>modify_verified_access_group</code>	Modifies the specified Amazon Web Services Ve
<code>modify_verified_access_group_policy</code>	Modifies the specified Amazon Web Services Ve
<code>modify_verified_access_instance</code>	Modifies the configuration of the specified Amaz
<code>modify_verified_access_instance_logging_configuration</code>	Modifies the logging configuration for the specif
<code>modify_verified_access_trust_provider</code>	Modifies the configuration of the specified Amaz
<code>modify_volume</code>	You can modify several parameters of an existing
<code>modify_volume_attribute</code>	Modifies a volume attribute
<code>modify_vpc_attribute</code>	Modifies the specified attribute of the specified V
<code>modify_vpc_block_public_access_exclusion</code>	Modify VPC Block Public Access (BPA) exclusi
<code>modify_vpc_block_public_access_options</code>	Modify VPC Block Public Access (BPA) options
<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 endp
<code>modify_vpc_endpoint_service_configuration</code>	Modifies the attributes of the specified VPC endp
<code>modify_vpc_endpoint_service_payer_responsibility</code>	Modifies the payer responsibility for your VPC e
<code>modify_vpc_endpoint_service_permissions</code>	Modifies the permissions for your VPC endpoint
<code>modify_vpc_peering_connection_options</code>	Modifies the VPC peering connection options on
<code>modify_vpc_tenancy</code>	Modifies the instance tenancy attribute of the spe
<code>modify_vpn_connection</code>	Modifies the customer gateway or the target gate
<code>modify_vpn_connection_options</code>	Modifies the connection options for your Site-to-
<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 Ama
<code>monitor_instances</code>	Enables detailed monitoring for a running instan
<code>move_address_to_vpc</code>	This action is deprecated
<code>move_byoip_cidr_to_ipam</code>	Move a BYOIPv4 CIDR to IPAM from a public
<code>move_capacity_reservation_instances</code>	Move available capacity from a source Capacity
<code>provision_byoip_cidr</code>	Provisions an IPv4 or IPv6 address range for use
<code>provision_ipam_byoasn</code>	Provisions your Autonomous System Number (A

provision_ipam_pool_cidr
 provision_public_ipv4_pool_cidr
 purchase_capacity_block
 purchase_capacity_block_extension
 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_capacity_reservation_billing_ownership
 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_image_criteria_in_allowed_images_settings
 replace_network_acl_association
 replace_network_acl_entry
 replace_route
 replace_route_table_association
 replace_transit_gateway_route
 replace_vpn_tunnel
 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

Provision a CIDR to an IPAM pool
 Provision a CIDR to a public IPv4 pool
 Purchase the Capacity Block for use with your account
 Purchase the Capacity Block extension for use with your account
 Purchase a reservation with configurations that meet your needs
 Purchases a Reserved Instance for use with your account
 You can no longer purchase Scheduled Instances
 Requests a reboot of the specified instances
 Registers an AMI
 Registers a set of tag keys to include in scheduled reservations
 Registers members (network interfaces) with the specified transit gateway
 Registers sources (network interfaces) with the specified transit gateway
 Rejects a request to assign billing of the available capacity to another account
 Rejects a request to associate cross-account subnets with a transit gateway
 Rejects a transit gateway peering attachment request
 Rejects a request to attach a VPC to a transit gateway
 Rejects VPC endpoint connection requests to your account
 Rejects a VPC peering connection request
 Releases the specified Elastic IP address
 When you no longer want to use an On-Demand Instance, you can release it
 Release an allocation within an IPAM pool
 Replaces an IAM instance profile for the specified instance
 Sets or replaces the criteria for Allowed AMIs
 Changes which network ACL a subnet is associated with
 Replaces an entry (rule) in a network ACL
 Replaces an existing route within a route table in a VPC
 Changes the route table associated with a given subnet
 Replaces the specified route in the specified transit gateway
 Trigger replacement of specified VPN tunnel
 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 AMI
 Resets an attribute of an AMI to its default value
 Resets an attribute of an instance to its default value
 Resets a network interface attribute
 Resets permission settings for the specified snapshot
 This action is deprecated
 Restores an AMI from the Recycle Bin
 Restores the entries from a previous version of a managed prefix list
 Restores a snapshot from the Recycle Bin
 Restores an archived Amazon EBS snapshot for use with your account
 Removes an ingress authorization rule from a CloudFront distribution
 Removes the specified outbound (egress) rules from a security group
 Removes the specified inbound (ingress) rules from a security group
 Launches the specified number of instances using the specified AMI

run_scheduled_instances	Launches the specified Scheduled Instances
search_local_gateway_routes	Searches for routes in the specified local gateway
search_transit_gateway_multicast_groups	Searches one or more transit gateway multicast groups
search_transit_gateway_routes	Searches for routes in the specified transit gateway
send_diagnostic_interrupt	Sends a diagnostic interrupt to the specified Amazon EC2 instance
start_declarative_policies_report	Generates an account status report
start_instances	Starts an Amazon EBS-backed instance that you can connect to
start_network_insights_access_scope_analysis	Starts analyzing the specified Network Access Scope
start_network_insights_analysis	Starts analyzing the specified path
start_vpc_endpoint_service_private_dns_verification	Initiates the verification process to prove that the specified VPC endpoint service is available
stop_instances	Stops an Amazon EBS-backed instance
terminate_client_vpn_connections	Terminates active Client VPN endpoint connections
terminate_instances	Shuts down the specified instances
unassign_ipv6_addresses	Unassigns the specified IPv6 addresses or Prefixes
unassign_private_ip_addresses	Unassigns the specified secondary private IP addresses
unassign_private_nat_gateway_address	Unassigns secondary private IPv4 addresses from a NAT gateway
unlock_snapshot	Unlocks a snapshot that is locked in governance
unmonitor_instances	Disables detailed monitoring for a running instance
update_security_group_rule_descriptions_egress	Updates the description of an egress (outbound) security group rule
update_security_group_rule_descriptions_ingress	Updates the description of an ingress (inbound) security group rule
withdraw_byoip_cidr	Stops advertising an address range that is provisioned by you

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

This is the *Amazon EC2 Instance Connect API Reference*. It provides descriptions, syntax, and usage examples for each of the actions for Amazon EC2 Instance Connect. 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.

To view the Amazon EC2 Instance Connect content in the *Amazon EC2 User Guide*, see [Connect to your Linux instance using EC2 Instance Connect](#).

For Amazon EC2 APIs, see the [Amazon EC2 API Reference](#).

Usage

```
ec2instanceconnect(
    config = list(),
    credentials = list(),
    endpoint = NULL,
    region = NULL
)
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
  region = "string"
)

```

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 Elastic Container Registry***Description**

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(), credentials = list(), endpoint = NULL, region = NULL)
```

Arguments

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

- **credentials:**

- **creds:**

- * **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`.

- **sts_regional_endpoint:** Set sts regional endpoint resolver to regional or legacy <https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html>

credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
```

```

    region = "string"
)

```

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	Notifies Amazon ECR that the image layer upload has completed for a specified repository
create_pull_through_cache_rule	Creates a pull through cache rule
create_repository	Creates a repository
create_repository_creation_template	Creates a repository creation template
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_creation_template	Deletes a repository creation template
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
describe_repository_creation_templates	Returns details about the repository creation templates in a registry
get_account_setting	Retrieves the account setting value for the specified setting name
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_account_setting	Allows you to change the basic scan type version or registry policy scope
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_image_tag_mutability
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 a basic 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
update_pull_through_cache_rule	Updates an existing pull through cache rule
update_repository_creation_template	Updates an existing repository creation template
upload_layer_part	Uploads an image layer part to Amazon ECR
validate_pull_through_cache_rule	Validates an existing pull through cache rule for an upstream registry that requires authentication

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)
```

ecrpublic

Amazon Elastic Container Registry Public

Description

Amazon Elastic Container Registry Public (Amazon ECR Public) is a managed container image registry service. Amazon ECR provides both public and private registries to host your container images. You can use the Docker CLI or your 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(),
  credentials = list(),
  endpoint = NULL,
  region = NULL
)
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
sts_regional_endpoint = "string"
),
credentials = list(
    creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
),
endpoint = "string",
region = "string"
)

```

Operations

batch_check_layer_availability	Checks the availability of one or more image layers that are within a repository in a public registry
batch_delete_image	Deletes a list of specified images that are within a repository in a public registry
complete_layer_upload	Notifies Amazon ECR that the image layer upload is complete 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 that's associated with the specified repository
describe_images	Returns metadata that's related to 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 that are 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 that are associated with an image
put_registry_catalog_data	Create or update 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)
```

 ecs

Amazon EC2 Container Service

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(), credentials = list(), endpoint = NULL, region = NULL)
```

Arguments

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

- **credentials:**
 - **creds:**
 - * **access_key_id:** AWS access key ID

	<ul style="list-style-type: none"> * 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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
        sts_regional_endpoint = "string"
    ),
    credentials = list(
        creds = list(
            access_key_id = "string",
            secret_access_key = "string",
            session_token = "string"
        ),
        profile = "string",
        anonymous = "logical"
    ),
    endpoint = "string",
    region = "string"
)

```

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 user, 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_definitions	Deletes one or more task definitions
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_service_deployments	Describes one or more of your service deployments
describe_service_revisions	Describes one or more service revisions
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
execute_command	Runs a command remotely on a container within a task
get_task_protection	Retrieves the protection status of tasks in an Amazon ECS service
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_service_deployments	This operation lists all the service deployments that meet the specified filter criteria
list_services	Returns a list of services
list_services_by_namespace	This operation lists all of the services that are associated with a Cloud Map namespace
list_tags_for_resource	List the tags for an Amazon ECS resource
list_task_definition_families	Returns a list of task definition families that are registered to your account
list_task_definitions	Returns a list of task definitions that are registered to your account
list_tasks	Returns a list of tasks
put_account_setting	Modifies an account setting
put_account_setting_default	Modifies an account setting for all users on an account for whom no individual account s
put_attributes	Create or update an attribute on an Amazon ECS resource
put_cluster_capacity_providers	Modifies the available capacity providers and the default capacity provider strategy for a
register_container_instance	This action is only used by the Amazon ECS agent, and it is not intended for use outside
register_task_definition	Registers a new task definition from the supplied family and containerDefinitions
run_task	Starts a new task using the specified task definition
start_task	Starts a new task from the specified task definition on the specified container instance or i
stop_task	Stops a running task
submit_attachment_state_changes	This action is only used by the Amazon ECS agent, and it is not intended for use outside
submit_container_state_change	This action is only used by the Amazon ECS agent, and it is not intended for use outside
submit_task_state_change	This action is only used by the Amazon ECS agent, and it is not intended for use outside
tag_resource	Associates the specified tags to a resource with the specified resourceArn
untag_resource	Deletes specified tags from a resource
update_capacity_provider	Modifies the parameters for a capacity provider
update_cluster	Updates the cluster
update_cluster_settings	Modifies the settings to use for a cluster
update_container_agent	Updates the Amazon ECS container agent on a specified container instance
update_container_instances_state	Modifies the status of an Amazon ECS container instance
update_service	Modifies the parameters of a service
update_service_primary_task_set	Modifies which task set in a service is the primary task set
update_task_protection	Updates the protection status of a task
update_task_set	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 setup 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(), credentials = list(), endpoint = NULL, region = NULL)
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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 Optional shorthand for complete URL to use for the constructed client.
- region Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
  region = "string"
)
```

Operations

<code>associate_access_policy</code>	Associates an access policy and its scope to an access entry
<code>associate_encryption_config</code>	Associates an encryption configuration to an existing cluster
<code>associate_identity_provider_config</code>	Associates an identity provider configuration to a cluster
<code>create_access_entry</code>	Creates an access entry
<code>create_addon</code>	Creates an Amazon EKS add-on
<code>create_cluster</code>	Creates an Amazon EKS control plane
<code>create_eks_anywhere_subscription</code>	Creates an EKS Anywhere subscription
<code>create_fargate_profile</code>	Creates an Fargate profile for your Amazon EKS cluster
<code>create_nodegroup</code>	Creates a managed node group for an Amazon EKS cluster
<code>create_pod_identity_association</code>	Creates an EKS Pod Identity association between a service account in an Amazon EK
<code>delete_access_entry</code>	Deletes an access entry
<code>delete_addon</code>	Deletes an Amazon EKS add-on
<code>delete_cluster</code>	Deletes an Amazon EKS cluster control plane
<code>delete_eks_anywhere_subscription</code>	Deletes an expired or inactive subscription
<code>delete_fargate_profile</code>	Deletes an Fargate profile
<code>delete_nodegroup</code>	Deletes a managed node group
<code>delete_pod_identity_association</code>	Deletes a EKS Pod Identity association
<code>deregister_cluster</code>	Deregisters a connected cluster to remove it from the Amazon EKS control plane
<code>describe_access_entry</code>	Describes an access entry
<code>describe_addon</code>	Describes an Amazon EKS add-on
<code>describe_addon_configuration</code>	Returns configuration options
<code>describe_addon_versions</code>	Describes the versions for an add-on
<code>describe_cluster</code>	Describes an Amazon EKS cluster
<code>describe_cluster_versions</code>	Lists available Kubernetes versions for Amazon EKS clusters
<code>describe_eks_anywhere_subscription</code>	Returns descriptive information about a subscription
<code>describe_fargate_profile</code>	Describes an Fargate profile
<code>describe_identity_provider_config</code>	Describes an identity provider configuration
<code>describe_insight</code>	Returns details about an insight that you specify using its ID
<code>describe_nodegroup</code>	Describes a managed node group
<code>describe_pod_identity_association</code>	Returns descriptive information about an EKS Pod Identity association
<code>describe_update</code>	Describes an update to an Amazon EKS resource
<code>disassociate_access_policy</code>	Disassociates an access policy from an access entry
<code>disassociate_identity_provider_config</code>	Disassociates an identity provider configuration from a cluster
<code>list_access_entries</code>	Lists the access entries for your cluster
<code>list_access_policies</code>	Lists the available access policies
<code>list_addons</code>	Lists the installed add-ons
<code>list_associated_access_policies</code>	Lists the access policies associated with an access entry
<code>list_clusters</code>	Lists the Amazon EKS clusters in your Amazon Web Services account in the specifie
<code>list_eks_anywhere_subscriptions</code>	Displays the full description of the subscription
<code>list_fargate_profiles</code>	Lists the Fargate profiles associated with the specified cluster in your Amazon Web S
<code>list_identity_provider_configs</code>	Lists the identity provider configurations for your cluster
<code>list_insights</code>	Returns a list of all insights checked for against the specified cluster
<code>list_nodegroups</code>	Lists the managed node groups associated with the specified cluster in your Amazon
<code>list_pod_identity_associations</code>	List the EKS Pod Identity associations in a cluster
<code>list_tags_for_resource</code>	List the tags for an Amazon EKS resource
<code>list_updates</code>	Lists the updates associated with an Amazon EKS resource in your Amazon Web Ser
<code>register_cluster</code>	Connects a Kubernetes cluster to the Amazon EKS control plane
<code>tag_resource</code>	Associates the specified tags to an Amazon EKS resource with the specified resource.

<code>untag_resource</code>	Deletes specified tags from an Amazon EKS resource
<code>update_access_entry</code>	Updates an access entry
<code>update_addon</code>	Updates an Amazon EKS add-on
<code>update_cluster_config</code>	Updates an Amazon EKS cluster configuration
<code>update_cluster_version</code>	Updates an Amazon EKS cluster to the specified Kubernetes version
<code>update_eks_anywhere_subscription</code>	Update an EKS Anywhere Subscription
<code>update_nodegroup_config</code>	Updates an Amazon EKS managed node group configuration
<code>update_nodegroup_version</code>	Updates the Kubernetes version or AMI version of an Amazon EKS managed node group
<code>update_pod_identity_association</code>	Updates a EKS Pod Identity association

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(),
  credentials = list(),
  endpoint = NULL,
  region = NULL
)
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
  region = "string"
)
```

Operations

[abort_environment_update](#)

[apply_environment_managed_action](#)

[associate_environment_operations_role](#)

[check_dns_availability](#)

[compose_environments](#)

[create_application](#)

[create_application_version](#)

[create_configuration_template](#)

Cancels in-progress environment configuration update or application version

Applies a scheduled managed action immediately

Add or change the operations role used by an environment

Checks if the specified CNAME is available

Create or update a group of environments that each run a separate component

Creates an application that has one configuration template named default and one

Creates an application version for the specified application

Creates an AWS Elastic Beanstalk configuration template, associated with a

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

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 EKSService Endpoints](#).

Usage

```

emrcontainers(
  config = list(),
  credentials = list(),
  endpoint = NULL,
  region = NULL
)

```

Arguments

- | | |
|---------------------|--|
| <code>config</code> | Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <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. |
|---------------------|--|

	<ul style="list-style-type: none"> • 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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
```

```

credentials = list(
  creds = list(
    access_key_id = "string",
    secret_access_key = "string",
    session_token = "string"
  ),
  profile = "string",
  anonymous = "logical"
),
endpoint = "string",
region = "string"
)

```

Operations

cancel_job_run	Cancels a job run
create_job_template	Creates a job template
create_managed_endpoint	Creates a managed endpoint
create_security_configuration	Creates a security configuration
create_virtual_cluster	Creates a virtual cluster
delete_job_template	Deletes a job template
delete_managed_endpoint	Deletes a managed endpoint
delete_virtual_cluster	Deletes a virtual cluster
describe_job_run	Displays detailed information about a job run
describe_job_template	Displays detailed information about a specified job template
describe_managed_endpoint	Displays detailed information about a managed endpoint
describe_security_configuration	Displays detailed information about a specified security configuration
describe_virtual_cluster	Displays detailed information about a specified virtual cluster
get_managed_endpoint_session_credentials	Generate a session token to connect to a managed endpoint
list_job_runs	Lists job runs based on a set of parameters
list_job_templates	Lists job templates based on a set of parameters
list_managed_endpoints	Lists managed endpoints based on a set of parameters
list_security_configurations	Lists security configurations based on a set of parameters
list_tags_for_resource	Lists the tags assigned to the resources
list_virtual_clusters	Lists information about the specified virtual cluster
start_job_run	Starts a job run
tag_resource	Assigns tags to resources
untag_resource	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. Amazon 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 Amazon 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:S... 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(),
  credentials = list(),
  endpoint = NULL,
  region = NULL
)
```

Arguments

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

- **credentials:**
 - **creds:**
 - * **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.

	<ul style="list-style-type: none"> • 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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
```

```

        secret_access_key = "string",
        session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
),
endpoint = "string",
region = "string"
)

```

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_dashboard_for_job_run	Creates and returns a URL that you can use to access the application UIs for a job run
get_job_run	Displays detailed information about a job run
list_applications	Lists applications based on a set of parameters
list_job_run_attempts	Lists all attempt of a job run
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)

```

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(),
  credentials = list(),
  endpoint = NULL,
  region = NULL
)
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
  region = "string"
)
```

Operations

cancel_image_creation	CancelImageCreation cancels the creation of Image
cancel_lifecycle_execution	Cancel a specific image lifecycle policy runtime instance
create_component	Creates a new component that can be used to build, validate, test, and assess your ima
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

<code>create_infrastructure_configuration</code>	Creates a new infrastructure configuration
<code>create_lifecycle_policy</code>	Create a lifecycle policy resource
<code>create_workflow</code>	Create a new workflow or a new version of an existing workflow
<code>delete_component</code>	Deletes a component build version
<code>delete_container_recipe</code>	Deletes a container recipe
<code>delete_distribution_configuration</code>	Deletes a distribution configuration
<code>delete_image</code>	Deletes an Image Builder image resource
<code>delete_image_pipeline</code>	Deletes an image pipeline
<code>delete_image_recipe</code>	Deletes an image recipe
<code>delete_infrastructure_configuration</code>	Deletes an infrastructure configuration
<code>delete_lifecycle_policy</code>	Delete the specified lifecycle policy resource
<code>delete_workflow</code>	Deletes a specific workflow resource
<code>get_component</code>	Gets a component object
<code>get_component_policy</code>	Gets a component policy
<code>get_container_recipe</code>	Retrieves a container recipe
<code>get_container_recipe_policy</code>	Retrieves the policy for a container recipe
<code>get_distribution_configuration</code>	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>get_lifecycle_execution</code>	Get the runtime information that was logged for a specific runtime instance of the lifecycle
<code>get_lifecycle_policy</code>	Get details for the specified image lifecycle policy
<code>get_marketplace_resource</code>	Verify the subscription and perform resource dependency checks on the requested Amazon Marketplace resource
<code>get_workflow</code>	Get a workflow resource object
<code>get_workflow_execution</code>	Get the runtime information that was logged for a specific runtime instance of the workflow
<code>get_workflow_step_execution</code>	Get the runtime information that was logged for a specific runtime instance of the workflow step
<code>import_component</code>	Imports a component and transforms its data into a component document
<code>import_disk_image</code>	Import a Windows operating system image from a verified Microsoft ISO disk file
<code>import_vm_image</code>	When you export your virtual machine (VM) from its virtualization environment, this action imports the VM image as an Image Builder image resource
<code>list_component_build_versions</code>	Returns the list of component build versions for the specified component version Amazon Resource Name (ARN)
<code>list_components</code>	Returns the list of components that can be filtered by name, or by using the listed filters
<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 the specified image build version
<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_image_scan_finding_aggregations</code>	Returns a list of image scan aggregations for your account
<code>list_image_scan_findings</code>	Returns a list of image scan findings for your account
<code>list_infrastructure_configurations</code>	Returns a list of infrastructure configurations
<code>list_lifecycle_execution_resources</code>	List resources that the runtime instance of the image lifecycle identified for lifecycle
<code>list_lifecycle_executions</code>	Get the lifecycle runtime history for the specified resource
<code>list_lifecycle_policies</code>	Get a list of lifecycle policies in your Amazon Web Services account

list_tags_for_resource	Returns the list of tags for the specified resource
list_waiting_workflow_steps	Get a list of workflow steps that are waiting for action for workflows in your Amazon
list_workflow_build_versions	Returns a list of build versions for a specific workflow resource
list_workflow_executions	Returns a list of workflow runtime instance metadata objects for a specific image build
list_workflows	Lists workflow build versions based on filtering parameters
list_workflow_step_executions	Returns runtime data for each step in a runtime instance of the workflow that you spe
put_component_policy	Applies a policy to a component
put_container_recipe_policy	Applies a policy to a container image
put_image_policy	Applies a policy to an image
put_image_recipe_policy	Applies a policy to an image recipe
send_workflow_step_action	Pauses or resumes image creation when the associated workflow runs a WaitForAction
start_image_pipeline_execution	Manually triggers a pipeline to create an image
start_resource_state_update	Begin asynchronous resource state update for lifecycle changes to the specified image
tag_resource	Adds a tag to a resource
untag_resource	Removes a tag from a resource
update_distribution_configuration	Updates a new distribution configuration
update_image_pipeline	Updates an image pipeline
update_infrastructure_configuration	Updates a new infrastructure configuration
update_lifecycle_policy	Update the specified lifecycle policy

Examples

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

## End(Not run)
```

lambda

AWS Lambda

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(), credentials = list(), endpoint = NULL, region = NULL)
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
sts_regional_endpoint = "string"
),
credentials = list(
    creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
),
endpoint = "string",
region = "string"
)

```

Operations

add_layer_version_permission	Adds permissions to the resource-based policy of a version of an Lambda layer
add_permission	Grants a principal permission to use a function
create_alias	Creates an alias for a Lambda function version
create_code_signing_config	Creates a code signing configuration
create_event_source_mapping	Creates a mapping between an event source and an Lambda function
create_function	Creates a Lambda function
create_function_url_config	Creates a Lambda function URL with the specified configuration parameters
delete_alias	Deletes a Lambda function alias
delete_code_signing_config	Deletes the code signing configuration
delete_event_source_mapping	Deletes an event source mapping
delete_function	Deletes a Lambda function
delete_function_code_signing_config	Removes the code signing configuration from the function
delete_function_concurrency	Removes a concurrent execution limit from a function
delete_function_event_invoke_config	Deletes the configuration for asynchronous invocation for a function, version, or alias
delete_function_url_config	Deletes a Lambda function URL
delete_layer_version	Deletes a version of an Lambda layer
delete_provisioned_concurrency_config	Deletes the provisioned concurrency configuration for a function
get_account_settings	Retrieves details about your account's limits and usage in an Amazon Web Services account
get_alias	Returns details about a Lambda function alias
get_code_signing_config	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_recursion_config</code>	Returns your function's recursive loop detection configuration
<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>get_runtime_management_config</code>	Retrieves the runtime management configuration for a function's version
<code>invoke</code>	Invokes a Lambda function
<code>invoke_async</code>	For asynchronous function invocation, use <code>InvokeAsync</code>
<code>invoke_with_response_stream</code>	Configure your Lambda functions to stream response payloads back to clients
<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
<code>list_layer_versions</code>	Lists the versions of an Lambda layer
<code>list_provisioned_concurrency_configs</code>	Retrieves a list of provisioned concurrency configurations for a function
<code>list_tags</code>	Returns a function, event source mapping, or code signing configuration's tags
<code>list_versions_by_function</code>	Returns a list of versions, with the version-specific configuration of each
<code>publish_layer_version</code>	Creates an Lambda layer from a ZIP archive
<code>publish_version</code>	Creates a version from the current code and configuration of a function
<code>put_function_code_signing_config</code>	Update the code signing configuration for the function
<code>put_function_concurrency</code>	Sets the maximum number of simultaneous executions for a function, and reserves the number of concurrent executions for the function
<code>put_function_event_invoke_config</code>	Configures options for asynchronous invocation on a function, version, or alias
<code>put_function_recursion_config</code>	Sets your function's recursive loop detection configuration
<code>put_provisioned_concurrency_config</code>	Adds a provisioned concurrency configuration to a function's alias or version
<code>put_runtime_management_config</code>	Sets the runtime management configuration for a function's version
<code>remove_layer_version_permission</code>	Removes a statement from the permissions policy for a version of an Lambda layer
<code>remove_permission</code>	Revokes function-use permission from an Amazon Web Services service or another AWS resource
<code>tag_resource</code>	Adds tags to a function, event source mapping, or code signing configuration
<code>untag_resource</code>	Removes tags from a function, event source mapping, or code signing configuration
<code>update_alias</code>	Updates the configuration of a Lambda function alias
<code>update_code_signing_config</code>	Update the code signing configuration
<code>update_event_source_mapping</code>	Updates an event source mapping
<code>update_function_code</code>	Updates a Lambda function's code
<code>update_function_configuration</code>	Modify the version-specific settings of a Lambda function
<code>update_function_event_invoke_config</code>	Updates the configuration for asynchronous invocation for a function, version, or alias
<code>update_function_url_config</code>	Updates the configuration for a Lambda function URL

Examples

```
## Not run:
svc <- lambda()
# The following example grants permission for the account 223456789012 to
# use version 1 of a layer named my-layer.
svc$add_layer_version_permission(
  Action = "lambda:GetLayerVersion",
  LayerName = "my-layer",
  Principal = "223456789012",
  StatementId = "xaccount",
  VersionNumber = 1L
)

## 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, Command Line Interface (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(),
  credentials = list(),
  endpoint = NULL,
  region = NULL
)
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
sts_regional_endpoint = "string"
),
credentials = list(
  creds = list(
    access_key_id = "string",
    secret_access_key = "string",
    session_token = "string"
  ),
  profile = "string",
  anonymous = "logical"
),
endpoint = "string",
region = "string"
)

```

Operations

allocate_static_ip	Allocates a static IP address
attach_certificate_to_distribution	Attaches an SSL/TLS certificate to your Amazon Lightsail content delivery network
attach_disk	Attaches a block storage disk to a running or stopped Lightsail instance and makes it available to the instance
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 network
create_cloud_formation_stack	Creates an AWS CloudFormation stack, which creates a new Amazon EC2 instance
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 container registry
create_disk	Creates a block storage disk that can be attached to an Amazon Lightsail instance
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 (example
create_domain_entry	Creates one of the following domain name system (DNS) records in a domain
create_gui_session_access_details	Creates two URLs that are used to access a virtual computer's graphical user interface
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 an instance
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 instance
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 Lightsail
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 network
delete_contact_method	Deletes a contact method
delete_container_image	Deletes a container image that is registered to your Amazon Lightsail content delivery network
delete_container_service	Deletes your Amazon Lightsail container service
delete_disk	Deletes the specified block storage disk
delete_disk_snapshot	Deletes the specified disk snapshot
delete_distribution	Deletes your Amazon Lightsail content delivery network (CDN) distribution
delete_domain	Deletes the specified domain recordset and all of its domain records
delete_domain_entry	Deletes a specific domain entry
delete_instance	Deletes an Amazon Lightsail instance
delete_instance_snapshot	Deletes a specific snapshot of a virtual private server (or instance)
delete_key_pair	Deletes the specified key pair by removing the public key from Amazon Lightsail
delete_known_host_keys	Deletes the known host key or certificate used by the Amazon Lightsail browser
delete_load_balancer	Deletes a Lightsail load balancer and all its associated SSL/TLS certificates
delete_load_balancer_tls_certificate	Deletes an SSL/TLS certificate associated with a Lightsail load balancer
delete_relational_database	Deletes a database in Amazon Lightsail
delete_relational_database_snapshot	Deletes a database snapshot in Amazon Lightsail
detach_certificate_from_distribution	Detaches an SSL/TLS certificate from your Amazon Lightsail content delivery network
detach_disk	Detaches a stopped block storage disk from a Lightsail instance
detach_instances_from_load_balancer	Detaches the specified instances from a Lightsail load balancer
detach_static_ip	Detaches a static IP from the Amazon Lightsail instance to which it is attached
disable_add_on	Disables an add-on for an Amazon Lightsail resource
download_default_key_pair	Downloads the regional Amazon Lightsail default key pair
enable_add_on	Enables or modifies an add-on for an Amazon Lightsail resource
export_snapshot	Exports an Amazon Lightsail instance or block storage disk snapshot to Amazon S3
get_active_names	Returns the names of all active (not deleted) resources
get_alarms	Returns information about the configured alarms
get_auto_snapshots	Returns the available automatic snapshots for an instance or disk
get_blueprints	Returns the list of available instance images, or blueprints
get_bucket_access_keys	Returns the existing access key IDs for the specified Amazon Lightsail bucket
get_bucket_bundles	Returns the bundles that you can apply to a Amazon Lightsail bucket
get_bucket_metric_data	Returns the data points of a specific metric for an Amazon Lightsail bucket

get_buckets	Returns information about one or more Amazon Lightsail buckets
get_bundles	Returns the bundles that you can apply to an Amazon Lightsail instance wh
get_certificates	Returns information about one or more Amazon Lightsail SSL/TLS certifica
get_cloud_formation_stack_records	Returns the CloudFormation stack record created as a result of the create cl
get_contact_methods	Returns information about the configured contact methods
get_container_api_metadata	Returns information about Amazon Lightsail containers, such as the current
get_container_images	Returns the container images that are registered to your Amazon Lightsail c
get_container_log	Returns the log events of a container of your Amazon Lightsail container se
get_container_service_deployments	Returns the deployments for your Amazon Lightsail container service
get_container_service_metric_data	Returns the data points of a specific metric of your Amazon Lightsail contai
get_container_service_powers	Returns the list of powers that can be specified for your Amazon Lightsail c
get_container_services	Returns information about one or more of your Amazon Lightsail container
get_cost_estimate	Retrieves information about the cost estimate for a specified resource
get_disk	Returns information about a specific block storage disk
get_disks	Returns information about all block storage disks in your AWS account and
get_disk_snapshot	Returns information about a specific block storage disk snapshot
get_disk_snapshots	Returns information about all block storage disk snapshots in your AWS acc
get_distribution_bundles	Returns the bundles that can be applied to your Amazon Lightsail content d
get_distribution_latest_cache_reset	Returns the timestamp and status of the last cache reset of a specific Amazo
get_distribution_metric_data	Returns the data points of a specific metric for an Amazon Lightsail content
get_distributions	Returns information about one or more of your Amazon Lightsail content d
get_domain	Returns information about a specific domain recordset
get_domains	Returns a list of all domains in the user's account
get_export_snapshot_records	Returns all export snapshot records created as a result of the export snapsho
get_instance	Returns information about a specific Amazon Lightsail instance, which is a
get_instance_access_details	Returns temporary SSH keys you can use to connect to a specific virtual pri
get_instance_metric_data	Returns the data points for the specified Amazon Lightsail instance metric, ,
get_instance_port_states	Returns the firewall port states for a specific Amazon Lightsail instance, the
get_instances	Returns information about all Amazon Lightsail virtual private servers, or in
get_instance_snapshot	Returns information about a specific instance snapshot
get_instance_snapshots	Returns all instance snapshots for the user's account
get_instance_state	Returns the state of a specific instance
get_key_pair	Returns information about a specific key pair
get_key_pairs	Returns information about all key pairs in the user's account
get_load_balancer	Returns information about the specified Lightsail load balancer
get_load_balancer_metric_data	Returns information about health metrics for your Lightsail load balancer
get_load_balancers	Returns information about all load balancers in an account
get_load_balancer_tls_certificates	Returns information about the TLS certificates that are associated with the s
get_load_balancer_tls_policies	Returns a list of TLS security policies that you can apply to Lightsail load b
get_operation	Returns information about a specific operation
get_operations	Returns information about all operations
get_operations_for_resource	Gets operations for a specific resource (an instance or a static IP)
get_regions	Returns a list of all valid regions for Amazon Lightsail
get_relational_database	Returns information about a specific database in Amazon Lightsail
get_relational_database_blueprints	Returns a list of available database blueprints in Amazon Lightsail
get_relational_database_bundles	Returns the list of bundles that are available in Amazon Lightsail
get_relational_database_events	Returns a list of events for a specific database in Amazon Lightsail
get_relational_database_log_events	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 Lightsail
<code>get_relational_database_master_user_password</code>	Returns the current, previous, or pending versions of the master user password for a specific database in Amazon Lightsail
<code>get_relational_database_metric_data</code>	Returns the data points of the specified metric for a database in Amazon Lightsail
<code>get_relational_database_parameters</code>	Returns all of the runtime parameters offered by the underlying database software
<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 Lightsail
<code>get_relational_database_snapshots</code>	Returns information about all of your database snapshots in Amazon Lightsail
<code>get_setup_history</code>	Returns detailed information for five of the most recent SetupInstanceHttpRequests
<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 with the user's default VPC
<code>open_instance_public_ports</code>	Opens ports for a specific Amazon Lightsail instance, and specifies the IP addresses
<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 addresses
<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
<code>reset_distribution_cache</code>	Deletes currently cached content from your Amazon Lightsail content delivery network (CDN)
<code>send_contact_method_verification</code>	Sends a verification request to an email contact method to ensure it's owned by you
<code>set_ip_address_type</code>	Sets the IP address type for an Amazon Lightsail resource
<code>set_resource_access_for_bucket</code>	Sets the Amazon Lightsail resources that can access the specified Lightsail bucket
<code>setup_instance_https</code>	Creates an SSL/TLS certificate that secures traffic for your website
<code>start_gui_session</code>	Initiates a graphical user interface (GUI) session that's used to access a virtual machine
<code>start_instance</code>	Starts a specific Amazon Lightsail instance from a stopped state
<code>start_relational_database</code>	Starts a specific database from a stopped state in Amazon Lightsail
<code>stop_gui_session</code>	Terminates a web-based Amazon DCV session that's used to access a virtual machine
<code>stop_instance</code>	Stops a specific Amazon Lightsail instance that is currently running
<code>stop_relational_database</code>	Stops a specific database that is currently running in Amazon Lightsail
<code>tag_resource</code>	Adds one or more tags to the specified Amazon Lightsail resource
<code>test_alarm</code>	Tests an alarm by displaying a banner on the Amazon Lightsail console
<code>unpeer_vpc</code>	Unpeers the Lightsail VPC from the user's default VPC
<code>untag_resource</code>	Deletes the specified set of tag keys and their values from the specified Amazon Lightsail resource
<code>update_bucket</code>	Updates an existing Amazon Lightsail bucket
<code>update_bucket_bundle</code>	Updates the bundle, or storage plan, of an existing Amazon Lightsail bucket
<code>update_container_service</code>	Updates the configuration of your Amazon Lightsail container service, such as the container engine
<code>update_distribution</code>	Updates an existing Amazon Lightsail content delivery network (CDN) distribution
<code>update_distribution_bundle</code>	Updates the bundle of your Amazon Lightsail content delivery network (CDN) distribution
<code>update_domain_entry</code>	Updates a domain recordset after it is created
<code>update_instance_metadata_options</code>	Modifies the Amazon Lightsail instance metadata parameters on a running instance
<code>update_load_balancer_attribute</code>	Updates the specified attribute for a load balancer
<code>update_relational_database</code>	Allows the update of one or more attributes of a database in Amazon Lightsail
<code>update_relational_database_parameters</code>	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, 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(), credentials = list(), endpoint = NULL, region = NULL)
```

Arguments

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

- **credentials:**

- **creds:**

- * **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`.

- **sts_regional_endpoint:** Set sts regional endpoint resolver to regional or legacy <https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html>

`credentials` Optional credentials shorthand for the `config` parameter

- **creds:**

- **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 Optional shorthand for complete URL to use for the constructed client.
- region Optional shorthand for AWS Region used in instantiating the client.

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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
  region = "string"
)
```

Operations

accept_environment_account_connection	In a management account, an environment account connection request is accepted
cancel_component_deployment	Attempts to cancel a component deployment (for a component that is in the IN state)
cancel_environment_deployment	Attempts to cancel an environment deployment on an UpdateEnvironment action
cancel_service_instance_deployment	Attempts to cancel a service instance deployment on an UpdateServiceInstance action
cancel_service_pipeline_deployment	Attempts to cancel a service pipeline deployment on an UpdateServicePipeline action
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 environment can be managed
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
create_service	Create an Proton service
create_service_instance	Create a service instance
create_service_sync_config	Create the Proton Ops configuration file
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 by tracking a linked repository
delete_component	Delete an Proton component resource
delete_deployment	Delete the deployment
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 template
delete_environment_template_version	If no other minor versions of an environment template exist, delete a major version
delete_repository	De-register and unlink your repository
delete_service	Delete a service, with its instances and pipeline
delete_service_sync_config	Delete the Proton Ops file
delete_service_template	If no other major or minor versions of the service template exist, delete the template
delete_service_template_version	If no other minor versions of a service template exist, delete a major version of the template
delete_template_sync_config	Delete a template sync configuration
get_account_settings	Get detail data for Proton account-wide settings
get_component	Get detailed data for a component
get_deployment	Get detailed data for a deployment
get_environment	Get detailed data for an environment
get_environment_account_connection	In an environment account, get the detailed data for an environment account connection
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 linked repository
get_repository_sync_status	Get the sync status of a repository used for Proton template sync
get_resources_summary	Get counts of Proton resources
get_service	Get detailed data for a service
get_service_instance	Get detailed data for a service instance
get_service_instance_sync_status	Get the status of the synced service instance
get_service_sync_blocker_summary	Get detailed data for the service sync blocker summary
get_service_sync_config	Get detailed information for the service sync configuration
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

<code>get_template_sync_config</code>	Get detail data for a template sync configuration
<code>get_template_sync_status</code>	Get the status of a template sync
<code>list_component_outputs</code>	Get a list of component Infrastructure as Code (IaC) outputs
<code>list_component_provisioned_resources</code>	List provisioned resources for a component with details
<code>list_components</code>	List components with summary data
<code>list_deployments</code>	List deployments
<code>list_environment_account_connections</code>	View a list of environment account connections
<code>list_environment_outputs</code>	List the infrastructure as code outputs for your environment
<code>list_environment_provisioned_resources</code>	List the provisioned resources for your environment
<code>list_environments</code>	List environments with detail data summaries
<code>list_environment_templates</code>	List environment templates
<code>list_environment_template_versions</code>	List major or minor versions of an environment template with detail data
<code>list_repositories</code>	List linked 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-managed resources
<code>reject_environment_account_connection</code>	In a management account, reject an environment account connection from another account
<code>tag_resource</code>	Tag a resource
<code>untag_resource</code>	Remove a customer tag from a resource
<code>update_account_settings</code>	Update Proton settings that are used for multiple services in the Amazon Web Services account
<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 different account
<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_sync_blocker</code>	Update the service sync blocker by resolving it
<code>update_service_sync_config</code>	Update the Proton Ops config file
<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 parameter

Examples

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

```
    Foo = 123
)

## End(Not run)
```

```
serverlessapplicationrepository
    AWSServerlessApplicationRepository
```

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(),
    credentials = list(),
    endpoint = NULL,
    region = NULL
)
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <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>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> • creds: <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	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

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",
sts_regional_endpoint = "string"
),
credentials = list(
    creds = list(
        access_key_id = "string",
        secret_access_key = "string",
        session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
),
endpoint = "string",
region = "string"
)

```

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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