

Package ‘paws.compute’

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Title 'Amazon Web Services' Compute Services

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

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

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

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

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

- **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 <- 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	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 <- 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
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	Create an Amazon Braket job
create_quantum_task	Create a quantum task
get_device	Retrieve the devices available in Amazon Braket
get_job	Retrieve the specified Amazon Braket job
get_quantum_task	Retrieve the specified quantum task
list_tags_for_resource	Show the tags associated with this resource
search_devices	Search for devices using the specified filters
search_jobs	Search for Amazon Braket jobs that match the specified filter values
search_quantum_tasks	Search 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	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 <- 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

export_ebs_volume_recommendations	Exports optimization recommendations for Amazon EBS volumes
export_ec2_instance_recommendations	Exports optimization recommendations for Amazon EC2 instances
export_ecs_service_recommendations	Exports optimization recommendations for Amazon ECS services on Linux
export_lambda_function_recommendations	Exports optimization recommendations for Lambda functions
export_license_recommendations	Export optimization recommendations for your licenses
get_auto_scaling_group_recommendations	Returns Auto Scaling group recommendations
get_ebs_volume_recommendations	Returns Amazon Elastic Block Store (Amazon EBS) volume recommendations
get_ec2_instance_recommendations	Returns Amazon EC2 instance recommendations
get_ec2_recommendation_projected_metrics	Returns the projected utilization metrics of Amazon EC2 instance recommendations
get_ecs_service_recommendation_projected_metrics	Returns the projected metrics of Amazon ECS service recommendations
get_ecs_service_recommendations	Returns Amazon ECS service recommendations
get_effective_recommendation_preferences	Returns the recommendation preferences that are in effect for a given resource
get_enrollment_status	Returns the enrollment (opt in) status of an account to the Compute Optimizer
get_enrollment_statuses_for_organization	Returns the Compute Optimizer enrollment (opt-in) status of organizations
get_lambda_function_recommendations	Returns Lambda function recommendations
get_license_recommendations	Returns license recommendations for Amazon EC2 instances that run Windows
get_recommendation_preferences	Returns existing recommendation preferences, such as enhanced infrastructure
get_recommendation_summaries	Returns the optimization findings for an account
put_recommendation_preferences	Creates a new recommendation preference or updates an existing recommendation preference
update_enrollment_status	Updates the enrollment (opt in and opt out) status of an account to the Compute Optimizer

Examples

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

## End(Not run)
```

ec2

Amazon Elastic Compute Cloud

Description

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

To learn more, see the following resources:

- Amazon EC2: [Amazon EC2 product page](#), [Amazon EC2 documentation](#)
- Amazon EBS: [Amazon EBS product page](#), [Amazon EBS documentation](#)
- Amazon VPC: [Amazon VPC product page](#), [Amazon VPC documentation](#)
- VPN: [VPN product page](#), [VPN documentation](#)

Usage

```
ec2(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. 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 <- 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_reserved_instances_exchange_quote](#)
[accept_transit_gateway_multicast_domain_associations](#)
[accept_transit_gateway_peering_attachment](#)
[accept_transit_gateway_vpc_attachment](#)
[accept_vpc_endpoint_connections](#)
[accept_vpc_peering_connection](#)
[advertise_byoip_cidr](#)
[allocate_address](#)
[allocate_hosts](#)
[allocate_ipam_pool_cidr](#)
[apply_security_groups_to_client_vpn_target_network](#)
[assign_ipv6_addresses](#)
[assign_private_ip_addresses](#)

Accepts an Elastic IP address transfer
 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 not advertised by Amazon
 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 and a target network
 Assigns one or more IPv6 addresses to the specified interface
 Assigns one or more secondary private IP addresses to the specified interface

assign_private_nat_gateway_address
 associate_address
 associate_client_vpn_target_network
 associate_dhcp_options
 associate_enclave_certificate_iam_role
 associate_iam_instance_profile
 associate_instance_event_window
 associate_ipam_byoasn
 associate_ipam_resource_discovery
 associate_nat_gateway_address
 associate_route_table
 associate_subnet_cidr_block
 associate_transit_gateway_multicast_domain
 associate_transit_gateway_policy_table
 associate_transit_gateway_route_table
 associate_trunk_interface
 associate_vpc_cidr_block
 attach_classic_link_vpc
 attach_internet_gateway
 attach_network_interface
 attach_verified_access_trust_provider
 attach_volume
 attach_vpn_gateway
 authorize_client_vpn_ingress
 authorize_security_group_egress
 authorize_security_group_ingress
 bundle_instance
 cancel_bundle_task
 cancel_capacity_reservation
 cancel_capacity_reservation_fleets
 cancel_conversion_task
 cancel_export_task
 cancel_image_launch_permission
 cancel_import_task
 cancel_reserved_instances_listing
 cancel_spot_fleet_requests
 cancel_spot_instance_requests
 confirm_product_instance
 copy_fpga_image
 copy_image
 copy_snapshot
 create_capacity_reservation
 create_capacity_reservation_fleet
 create_carrier_gateway
 create_client_vpn_endpoint
 create_client_vpn_route
 create_coip_cidr
 create_coip_pool

Assigns one or more private IPv4 addresses to a
 Associates an Elastic IP address, or carrier IP address
 Associates a target network with a Client VPN endpoint
 Associates a set of DHCP options (that you've provided)
 Associates an Identity and Access Management (IAM) role
 Associates an IAM instance profile with a running instance
 Associates one or more targets with an event window
 Associates your Autonomous System Number (ASN) with an IPAM resource
 Associates an IPAM resource discovery with an Amazon EC2 instance
 Associates Elastic IP addresses (EIPs) and private IP addresses
 Associates a subnet in your VPC or an internet gateway with a route table
 Associates a CIDR block with your subnet
 Associates the specified subnets and transit gateway attachment
 Associates the specified transit gateway attachment with the specified
 Associates the specified attachment with the specified transit gateway
 Associates a branch network interface with a trunk network interface
 Associates a CIDR block with your VPC
 This action is deprecated
 Attaches an internet gateway or a virtual private gateway to a VPC
 Attaches a network interface to an instance
 Attaches the specified Amazon Web Services Verified Access endpoint to a VPC
 Attaches an EBS volume to a running or stopped instance
 Attaches a virtual private gateway to a VPC
 Adds an ingress authorization rule to a Client VPN endpoint
 Adds the specified outbound (egress) rules to a security group
 Adds the specified inbound (ingress) rules to a security group
 Bundles an Amazon instance store-backed Windows instance
 Cancels a bundling operation for an instance store-backed Windows instance
 Cancels the specified Capacity Reservation, releasing the reserved capacity
 Cancels one or more Capacity Reservation Fleets
 Cancels an active conversion task
 Cancels an active export task
 Removes your Amazon Web Services account from the specified Capacity Reservation
 Cancels an in-process import virtual machine or operating system image
 Cancels the specified Reserved Instance listing in your account
 Cancels the specified Spot Fleet requests
 Cancels one or more Spot Instance requests
 Determines whether a product code is associated with an Amazon EC2 instance
 Copies the specified Amazon FPGA Image (AFI) to your account
 Initiates the copy of an AMI
 Copies a point-in-time snapshot of an EBS volume to another region
 Creates a new Capacity Reservation with the specified parameters
 Creates a Capacity Reservation Fleet
 Creates a carrier gateway
 Creates a Client VPN endpoint
 Adds a route to a network to a Client VPN endpoint
 Creates a range of customer-owned IP addresses
 Creates a pool of customer-owned IP (CoIP) addresses

<code>create_customer_gateway</code>	Provides information to Amazon Web Services a
<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 set of DHCP options for your VPC
<code>create_egress_only_internet_gateway</code>	[IPv6 only] Creates an egress-only internet gatew
<code>create_fleet</code>	Creates an EC2 Fleet that contains the configurat
<code>create_flow_logs</code>	Creates one or more flow logs to capture informa
<code>create_fpga_image</code>	Creates an Amazon FPGA Image (AFI) from the
<code>create_image</code>	Creates an Amazon EBS-backed AMI from an A
<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 eve
<code>create_instance_export_task</code>	Exports a running or stopped instance to an Ama
<code>create_internet_gateway</code>	Creates an internet gateway for use with a VPC
<code>create_ipam</code>	Create an IPAM
<code>create_ipam_pool</code>	Create an IP address pool for Amazon VPC IP A
<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 w
<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 gatew
<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 interfa
<code>create_local_gateway_route_table_vpc_association</code>	Associates the specified VPC with the specified I
<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
<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 subn
<code>create_network_interface_permission</code>	Grants an Amazon Web Services-authorized acco
<code>create_placement_group</code>	Creates a placement group in which to launch ins
<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 runn
<code>create_reserved_instances_listing</code>	Creates a listing for Amazon EC2 Standard Rese
<code>create_restore_image_task</code>	Starts a task that restores an AMI from an Amaz
<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
<code>create_snapshots</code>	Creates crash-consistent snapshots of multiple E
<code>create_spot_datafeed_subscription</code>	Creates a data feed for Spot Instances, enabling y
<code>create_store_image_task</code>	Stores an AMI as a single object in an Amazon S
<code>create_subnet</code>	Creates a subnet in the specified VPC
<code>create_subnet_cidr_reservation</code>	Creates a subnet CIDR reservation
<code>create_tags</code>	Adds or overwrites only the specified tags for the
<code>create_traffic_mirror_filter</code>	Creates a Traffic Mirror filter

<code>create_traffic_mirror_filter_rule</code>	Creates a Traffic Mirror filter rule
<code>create_traffic_mirror_session</code>	Creates a Traffic Mirror session
<code>create_traffic_mirror_target</code>	Creates a target for your Traffic Mirror session
<code>create_transit_gateway</code>	Creates a transit gateway
<code>create_transit_gateway_connect</code>	Creates a Connect attachment from a specified transit gateway
<code>create_transit_gateway_connect_peer</code>	Creates a Connect peer for a specified transit gateway
<code>create_transit_gateway_multicast_domain</code>	Creates a multicast domain using the specified transit gateway
<code>create_transit_gateway_peering_attachment</code>	Requests a transit gateway peering attachment between two transit gateways
<code>create_transit_gateway_policy_table</code>	Creates a transit gateway policy table
<code>create_transit_gateway_prefix_list_reference</code>	Creates a reference (route) to a prefix list in a specified transit gateway
<code>create_transit_gateway_route</code>	Creates a static route for the specified transit gateway
<code>create_transit_gateway_route_table</code>	Creates a route table for the specified transit gateway
<code>create_transit_gateway_route_table_announcement</code>	Advertises a new transit gateway route table
<code>create_transit_gateway_vpc_attachment</code>	Attaches the specified VPC to the specified transit gateway
<code>create_verified_access_endpoint</code>	An Amazon Web Services Verified Access endpoint
<code>create_verified_access_group</code>	An Amazon Web Services Verified Access group
<code>create_verified_access_instance</code>	An Amazon Web Services Verified Access instance
<code>create_verified_access_trust_provider</code>	A trust provider is a third-party entity that creates and manages trust relationships
<code>create_volume</code>	Creates an EBS volume that can be attached to an Amazon EC2 instance
<code>create_vpc</code>	Creates a VPC with the specified CIDR blocks
<code>create_vpc_endpoint</code>	Creates a VPC endpoint
<code>create_vpc_endpoint_connection_notification</code>	Creates a connection notification for a specified VPC endpoint
<code>create_vpc_endpoint_service_configuration</code>	Creates a VPC endpoint service to which service endpoints can be attached
<code>create_vpc_peering_connection</code>	Requests a VPC peering connection between two VPCs
<code>create_vpn_connection</code>	Creates a VPN connection between an existing VPC and a customer gateway
<code>create_vpn_connection_route</code>	Creates a static route associated with a VPN connection
<code>create_vpn_gateway</code>	Creates a virtual private gateway
<code>delete_carrier_gateway</code>	Deletes a carrier gateway
<code>delete_client_vpn_endpoint</code>	Deletes the specified Client VPN endpoint
<code>delete_client_vpn_route</code>	Deletes a route from a Client VPN endpoint
<code>delete_coip_cidr</code>	Deletes a range of customer-owned IP addresses
<code>delete_coip_pool</code>	Deletes a pool of customer-owned IP (CoIP) addresses
<code>delete_customer_gateway</code>	Deletes the specified customer gateway
<code>delete_dhcp_options</code>	Deletes the specified set of DHCP options
<code>delete_egress_only_internet_gateway</code>	Deletes an egress-only internet gateway
<code>delete_fleets</code>	Deletes the specified EC2 Fleets
<code>delete_flow_logs</code>	Deletes one or more flow logs
<code>delete_fpga_image</code>	Deletes the specified Amazon FPGA Image (AFI)
<code>delete_instance_connect_endpoint</code>	Deletes the specified EC2 Instance Connect Endpoint
<code>delete_instance_event_window</code>	Deletes the specified event window
<code>delete_internet_gateway</code>	Deletes the specified internet gateway
<code>delete_ipam</code>	Delete an IPAM
<code>delete_ipam_pool</code>	Delete an IPAM pool
<code>delete_ipam_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 public key
<code>delete_launch_template</code>	Deletes a launch template
<code>delete_launch_template_versions</code>	Deletes one or more versions of a launch template

<code>delete_local_gateway_route</code>	Deletes the specified route from the specified local gateway
<code>delete_local_gateway_route_table</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 interface group association
<code>delete_local_gateway_route_table_vpc_association</code>	Deletes the specified association between a VPC and a local gateway route table
<code>delete_managed_prefix_list</code>	Deletes the specified managed prefix list
<code>delete_nat_gateway</code>	Deletes the specified NAT gateway
<code>delete_network_acl</code>	Deletes the specified network ACL
<code>delete_network_acl_entry</code>	Deletes the specified ingress or egress entry (rule) from a network ACL
<code>delete_network_insights_access_scope</code>	Deletes the specified Network Access Scope
<code>delete_network_insights_access_scope_analysis</code>	Deletes the specified Network Access Scope analysis
<code>delete_network_insights_analysis</code>	Deletes the specified network insights analysis
<code>delete_network_insights_path</code>	Deletes the specified path
<code>delete_network_interface</code>	Deletes the specified network interface
<code>delete_network_interface_permission</code>	Deletes a permission for a network interface
<code>delete_placement_group</code>	Deletes the specified placement group
<code>delete_public_ipv4_pool</code>	Delete a public IPv4 pool
<code>delete_queued_reserved_instances</code>	Deletes the queued purchases for the specified Reserved Instance plan
<code>delete_route</code>	Deletes the specified route from the specified route table
<code>delete_route_table</code>	Deletes the specified route table
<code>delete_security_group</code>	Deletes a security group
<code>delete_snapshot</code>	Deletes the specified snapshot
<code>delete_spot_datafeed_subscription</code>	Deletes the data feed for Spot Instances
<code>delete_subnet</code>	Deletes the specified subnet
<code>delete_subnet_cidr_reservation</code>	Deletes a subnet CIDR reservation
<code>delete_tags</code>	Deletes the specified set of tags from the specified resource
<code>delete_traffic_mirror_filter</code>	Deletes the specified Traffic Mirror filter
<code>delete_traffic_mirror_filter_rule</code>	Deletes the specified Traffic Mirror rule
<code>delete_traffic_mirror_session</code>	Deletes the specified Traffic Mirror session
<code>delete_traffic_mirror_target</code>	Deletes the specified Traffic Mirror target
<code>delete_transit_gateway</code>	Deletes the specified transit gateway
<code>delete_transit_gateway_connect</code>	Deletes the specified Connect attachment
<code>delete_transit_gateway_connect_peer</code>	Deletes the specified Connect peer
<code>delete_transit_gateway_multicast_domain</code>	Deletes the specified transit gateway multicast domain
<code>delete_transit_gateway_peering_attachment</code>	Deletes a transit gateway peering attachment
<code>delete_transit_gateway_policy_table</code>	Deletes the specified transit gateway policy table
<code>delete_transit_gateway_prefix_list_reference</code>	Deletes a reference (route) to a prefix list in a specific transit gateway
<code>delete_transit_gateway_route</code>	Deletes the specified route from the specified transit gateway
<code>delete_transit_gateway_route_table</code>	Deletes the specified transit gateway route table
<code>delete_transit_gateway_route_table_announcement</code>	Advertises to the transit gateway that a transit gateway route table is available
<code>delete_transit_gateway_vpc_attachment</code>	Deletes the specified VPC attachment
<code>delete_verified_access_endpoint</code>	Delete an Amazon Web Services Verified Access endpoint
<code>delete_verified_access_group</code>	Delete an Amazon Web Services Verified Access group
<code>delete_verified_access_instance</code>	Delete an Amazon Web Services Verified Access instance
<code>delete_verified_access_trust_provider</code>	Delete an Amazon Web Services Verified Access trust provider
<code>delete_volume</code>	Deletes the specified EBS volume
<code>delete_vpc</code>	Deletes the specified VPC
<code>delete_vpc_endpoint_connection_notifications</code>	Deletes the specified VPC endpoint connection notifications
<code>delete_vpc_endpoints</code>	Deletes the specified 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_offerings
 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
 describe_dhcp_options
 describe_egress_only_internet_gateways
 describe_elastic_gpus
 describe_export_image_tasks
 describe_export_tasks
 describe_fast_launch_images
 describe_fast_snapshot_restores
 describe_fleet_history
 describe_fleet_instances
 describe_fleets
 describe_flow_logs
 describe_fpga_image_attribute
 describe_fpga_images

Deletes the specified VPC endpoint service confi
 Deletes a VPC peering connection
 Deletes the specified VPN connection
 Deletes the specified static route associated with
 Deletes the specified virtual private gateway
 Releases the specified address range that you pro
 Deprovisions your Autonomous System Number
 Deprovision a CIDR provisioned from an IPAM
 Deprovision a CIDR from a public IPv4 pool
 Deregisters the specified AMI
 Deregisters tag keys to prevent tags that have the
 Deregisters the specified members (network inter
 Deregisters the specified sources (network interfa
 Describes attributes of your Amazon Web Servic
 Describes the specified Elastic IP addresses or al
 Describes the attributes of the specified Elastic IP
 Describes an Elastic IP address transfer
 Describes the longer ID format settings for all re
 Describes the Availability Zones, Local Zones, a
 Describes the current Infrastructure Performance
 Describes the specified bundle tasks or all of you
 Describes the IP address ranges that were specifi
 Describes Capacity Block offerings available for
 Describes one or more Capacity Reservation Fle
 Describes one or more of your Capacity Reserva
 Describes one or more of your carrier gateways
 This action is deprecated
 Describes the authorization rules for a specified C
 Describes active client connections and connecti
 Describes one or more Client VPN endpoints in t
 Describes the routes for the specified Client VPN
 Describes the target networks associated with the
 Describes the specified customer-owned address
 Describes the specified conversion tasks or all yo
 Describes one or more of your VPN customer ga
 Describes one or more of your DHCP options set
 Describes one or more of your egress-only intern
 Describes the Elastic Graphics accelerator associ
 Describes the specified export image tasks or all
 Describes the specified export instance tasks or a
 Describe details for Windows AMIs that are con
 Describes the state of fast snapshot restores for y
 Describes the events for the specified EC2 Fleet
 Describes the running instances for the specified
 Describes the specified EC2 Fleets or all of your
 Describes one or more flow logs
 Describes the specified attribute of the specified
 Describes the Amazon FPGA Images (AFIs) ava

<code>describe_host_reservation_offerings</code>	Describes the Dedicated Host reservations that are available in the specified region.
<code>describe_host_reservations</code>	Describes reservations that are associated with Dedicated Hosts.
<code>describe_hosts</code>	Describes the specified Dedicated Hosts or all Dedicated Hosts in the specified region.
<code>describe_iam_instance_profile_associations</code>	Describes your IAM instance profile associations.
<code>describe_identity_id_format</code>	Describes the ID format settings for resources for the specified IAM user.
<code>describe_id_format</code>	Describes the ID format settings for your resources.
<code>describe_image_attribute</code>	Describes the specified attribute of the specified image.
<code>describe_images</code>	Describes the specified images (AMIs, AKIs, and SRIs).
<code>describe_import_image_tasks</code>	Displays details about an import virtual machine image task.
<code>describe_import_snapshot_tasks</code>	Describes your import snapshot tasks.
<code>describe_instance_attribute</code>	Describes the specified attribute of the specified instance.
<code>describe_instance_connect_endpoints</code>	Describes the specified EC2 Instance Connect Endpoints.
<code>describe_instance_credit_specifications</code>	Describes the credit option for CPU usage of the specified instance.
<code>describe_instance_event_notification_attributes</code>	Describes the tag keys that are registered to appear on the specified event windows.
<code>describe_instance_event_windows</code>	Describes the specified event windows or all event windows for the specified instance.
<code>describe_instances</code>	Describes the specified instances or all instances in the specified region.
<code>describe_instance_status</code>	Describes the status of the specified instances or all instances in the specified region.
<code>describe_instance_topology</code>	Describes a tree-based hierarchy that represents the topology of the specified instances.
<code>describe_instance_type_offerings</code>	Returns a list of all instance types offered in the specified region.
<code>describe_instance_types</code>	Describes the details of the instance types that are available in the specified region.
<code>describe_internet_gateways</code>	Describes one or more of your internet gateways.
<code>describe_ipam_byoasn</code>	Describes your Autonomous System Numbers (ASNs).
<code>describe_ipam_pools</code>	Get information about your IPAM pools.
<code>describe_ipam_resource_discoveries</code>	Describes IPAM resource discoveries.
<code>describe_ipam_resource_discovery_associations</code>	Describes resource discovery association with an IPAM pool.
<code>describe_ipams</code>	Get information about your IPAM pools.
<code>describe_ipam_scopes</code>	Get information about your IPAM scopes.
<code>describe_ipv6_pools</code>	Describes your IPv6 address pools.
<code>describe_key_pairs</code>	Describes the specified key pairs or all of your key pairs.
<code>describe_launch_templates</code>	Describes one or more launch templates.
<code>describe_launch_template_versions</code>	Describes one or more versions of a specified launch template.
<code>describe_local_gateway_route_tables</code>	Describes one or more local gateway route tables.
<code>describe_local_gateway_route_table_virtual_interface_group_associations</code>	Describes the associations between virtual interfaces and local gateway route tables.
<code>describe_local_gateway_route_table_vpc_associations</code>	Describes the specified associations between VPCs and local gateway route tables.
<code>describe_local_gateways</code>	Describes one or more local gateways.
<code>describe_local_gateway_virtual_interface_groups</code>	Describes the specified local gateway virtual interface groups.
<code>describe_local_gateway_virtual_interfaces</code>	Describes the specified local gateway virtual interfaces.
<code>describe_locked_snapshots</code>	Describes the lock status for a snapshot.
<code>describe_managed_prefix_lists</code>	Describes your managed prefix lists and any Amazon Managed Prefix Lists.
<code>describe_moving_addresses</code>	This action is deprecated.
<code>describe_nat_gateways</code>	Describes one or more of your NAT gateways.
<code>describe_network_acls</code>	Describes one or more of your network ACLs.
<code>describe_network_insights_access_scope_analyses</code>	Describes the specified Network Access Scope analyses.
<code>describe_network_insights_access_scopes</code>	Describes the specified Network Access Scopes.
<code>describe_network_insights_analyses</code>	Describes one or more of your network insights analyses.
<code>describe_network_insights_paths</code>	Describes one or more of your paths.
<code>describe_network_interface_attribute</code>	Describes a network interface attribute.
<code>describe_network_interface_permissions</code>	Describes the permissions for your network interfaces.

describe_network_interfaces
 describe_placement_groups
 describe_prefix_lists
 describe_principal_id_format
 describe_public_ipv4_pools
 describe_regions
 describe_replace_root_volume_tasks
 describe_reserved_instances
 describe_reserved_instances_listings
 describe_reserved_instances_modifications
 describe_reserved_instances_offerings
 describe_route_tables
 describe_scheduled_instance_availability
 describe_scheduled_instances
 describe_security_group_references
 describe_security_group_rules
 describe_security_groups
 describe_snapshot_attribute
 describe_snapshots
 describe_snapshot_tier_status
 describe_spot_datafeed_subscription
 describe_spot_fleet_instances
 describe_spot_fleet_request_history
 describe_spot_fleet_requests
 describe_spot_instance_requests
 describe_spot_price_history
 describe_stale_security_groups
 describe_store_image_tasks
 describe_subnets
 describe_tags
 describe_traffic_mirror_filters
 describe_traffic_mirror_sessions
 describe_traffic_mirror_targets
 describe_transit_gateway_attachments
 describe_transit_gateway_connect_peers
 describe_transit_gateway_connects
 describe_transit_gateway_multicast_domains
 describe_transit_gateway_peering_attachments
 describe_transit_gateway_policy_tables
 describe_transit_gateway_route_table_announcements
 describe_transit_gateway_route_tables
 describe_transit_gateways
 describe_transit_gateway_vpc_attachments
 describe_trunk_interface_associations
 describe_verified_access_endpoints
 describe_verified_access_groups
 describe_verified_access_instance_logging_configurations
 describe_verified_access_instances

Describes one or more of your network interface
 Describes the specified placement groups or all o
 Describes available Amazon Web Services servic
 Describes the ID format settings for the root user
 Describes the specified IPv4 address pools
 Describes the Regions that are enabled for your a
 Describes a root volume replacement task
 Describes one or more of the Reserved Instances
 Describes your account's Reserved Instance listin
 Describes the modifications made to your Reserv
 Describes Reserved Instance offerings that are av
 Describes one or more of your route tables
 Finds available schedules that meet the specified
 Describes the specified Scheduled Instances or a
 Describes the VPCs on the other side of a VPC p
 Describes one or more of your security group rul
 Describes the specified security groups or all of y
 Describes the specified attribute of the specified
 Describes the specified EBS snapshots available
 Describes the storage tier status of one or more A
 Describes the data feed for Spot Instances
 Describes the running instances for the specified
 Describes the events for the specified Spot Fleet
 Describes your Spot Fleet requests
 Describes the specified Spot Instance requests
 Describes the Spot price history
 Describes the stale security group rules for secur
 Describes the progress of the AMI store tasks
 Describes one or more of your subnets
 Describes the specified tags for your EC2 resourc
 Describes one or more Traffic Mirror filters
 Describes one or more Traffic Mirror sessions
 Information about one or more Traffic Mirror tar
 Describes one or more attachments between reso
 Describes one or more Connect peers
 Describes one or more Connect attachments
 Describes one or more transit gateway multicast
 Describes your transit gateway peering attachme
 Describes one or more transit gateway route poli
 Describes one or more transit gateway route tabl
 Describes one or more transit gateway route tabl
 Describes one or more transit gateways
 Describes one or more VPC attachments
 Describes one or more network interface trunk as
 Describes the specified Amazon Web Services V
 Describes the specified Verified Access groups
 Describes the specified Amazon Web Services V
 Describes the specified Amazon Web Services V

describe_verified_access_trust_providers	Describes the specified Amazon Web Services Verified Access trust providers
describe_volume_attribute	Describes the specified attribute of the specified volume
describe_volumes	Describes the specified EBS volumes or all of your account's EBS volumes
describe_volumes_modifications	Describes the most recent volume modification records for the specified volume
describe_volume_status	Describes the status of the specified volumes
describe_vpc_attribute	Describes the specified attribute of the specified VPC
describe_vpc_classic_link	This action is deprecated
describe_vpc_classic_link_dns_support	This action is deprecated
describe_vpc_endpoint_connection_notifications	Describes the connection notifications for VPC endpoint connections
describe_vpc_endpoint_connections	Describes the VPC endpoint connections to your VPC
describe_vpc_endpoints	Describes your VPC endpoints
describe_vpc_endpoint_service_configurations	Describes the VPC endpoint service configurations
describe_vpc_endpoint_service_permissions	Describes the principals (service consumers) that are authorized to use the specified VPC endpoint service
describe_vpc_endpoint_services	Describes available services to which you can create VPC endpoint connections
describe_vpc_peering_connections	Describes one or more of your VPC peering connections
describe_vpcs	Describes one or more of your VPCs
describe_vpn_connections	Describes one or more of your VPN connections
describe_vpn_gateways	Describes one or more of your virtual private gateways
detach_classic_link_vpc	This action is deprecated
detach_internet_gateway	Detaches an internet gateway from a VPC, disabling it
detach_network_interface	Detaches a network interface from an instance
detach_verified_access_trust_provider	Detaches the specified Amazon Web Services Verified Access trust provider
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_aws_network_performance_metric_subscription	Disables Infrastructure Performance metric subscription
disable_ebs_encryption_by_default	Disables EBS encryption by default for your account
disable_fast_launch	Discontinue Windows fast launch for a Windows instance
disable_fast_snapshot_restores	Disables fast snapshot restores for the specified snapshot
disable_image	Sets the AMI state to disabled and removes all launch permissions
disable_image_block_public_access	Disables block public access for AMIs at the account level
disable_image_deprecation	Cancels the deprecation of the specified AMI
disable_ipam_organization_admin_account	Disable the IPAM account
disable_serial_console_access	Disables access to the EC2 serial console of all instances
disable_snapshot_block_public_access	Disables the block public access for snapshots
disable_transit_gateway_route_table_propagation	Disables the specified resource attachment from the specified route table
disable_vgw_route_propagation	Disables a virtual private gateway (VGW) from propagating routes to the specified route table
disable_vpc_classic_link	This action is deprecated
disable_vpc_classic_link_dns_support	This action is deprecated
disassociate_address	Disassociates an Elastic IP address from the instance
disassociate_client_vpn_target_network	Disassociates a target network from the specified client VPN connection
disassociate_enclave_certificate_iam_role	Disassociates an IAM role from an Certificate Manger (CM) enclave
disassociate_iam_instance_profile	Disassociates an IAM instance profile from a running instance
disassociate_instance_event_window	Disassociates one or more targets from an event window
disassociate_ipam_byoasn	Remove the association between your Autonomous System (AS) and Amazon IPAM
disassociate_ipam_resource_discovery	Disassociates a resource discovery from an Amazon IPAM
disassociate_nat_gateway_address	Disassociates secondary Elastic IP addresses (EIPs) from a NAT gateway
disassociate_route_table	Disassociates a subnet or gateway from a route table

disassociate_subnet_cidr_block	Disassociates a CIDR block from a subnet
disassociate_transit_gateway_multicast_domain	Disassociates the specified subnets from the transit gateway
disassociate_transit_gateway_policy_table	Removes the association between an attachment and a policy table
disassociate_transit_gateway_route_table	Disassociates a resource attachment from a transit gateway
disassociate_trunk_interface	Removes an association between a branch network and a trunk network
disassociate_vpc_cidr_block	Disassociates a CIDR block from a VPC
enable_address_transfer	Enables Elastic IP address transfer
enable_aws_network_performance_metric_subscription	Enables Infrastructure Performance subscriptions
enable_ebs_encryption_by_default	Enables EBS encryption by default for your account
enable_fast_launch	When you enable Windows fast launch for a Windows instance, you can enable fast launch for a Windows instance
enable_fast_snapshot_restores	Enables fast snapshot restores for the specified snapshot
enable_image	Re-enables a disabled AMI
enable_image_block_public_access	Enables block public access for AMIs at the account level
enable_image_deprecation	Enables deprecation of the specified AMI at the account level
enable_ipam_organization_admin_account	Enable an Organizations member account as the administrator
enable_reachability_analyzer_organization_sharing	Establishes a trust relationship between Reachability Analyzer and the specified organization
enable_serial_console_access	Enables access to the EC2 serial console of all instances in the specified VPC
enable_snapshot_block_public_access	Enables or modifies the block public access for snapshots
enable_transit_gateway_route_table_propagation	Enables the specified attachment to propagate routes
enable_vgw_route_propagation	Enables a virtual private gateway (VGW) to propagate routes
enable_volume_io	Enables I/O operations for a volume that had I/O throttling
enable_vpc_classic_link	This action is deprecated
enable_vpc_classic_link_dns_support	This action is deprecated
export_client_vpn_client_certificate_revocation_list	Downloads the client certificate revocation list for a Client VPN endpoint
export_client_vpn_client_configuration	Downloads the contents of the Client VPN endpoint configuration
export_image	Exports an Amazon Machine Image (AMI) to a new region
export_transit_gateway_routes	Exports routes from the specified transit gateway
get_associated_enclave_certificate_iam_roles	Returns the IAM roles that are associated with the specified enclave certificate
get_associated_ipv6_pool_cidrs	Gets information about the IPv6 CIDR block associated with the specified pool
get_aws_network_performance_data	Gets network performance data
get_capacity_reservation_usage	Gets usage information about a Capacity Reservation
get_coip_pool_usage	Describes the allocations from the specified customer IP pool
get_console_output	Gets the console output for the specified instance
get_console_screenshot	Retrieve a JPG-format screenshot of a running instance
get_default_credit_specification	Describes the default credit option for CPU usage
get_ebs_default_kms_key_id	Describes the default KMS key for EBS encryption
get_ebs_encryption_by_default	Describes whether EBS encryption by default is enabled
get_flow_logs_integration_template	Generates a CloudFormation template that streamlines flow log creation
get_groups_for_capacity_reservation	Lists the resource groups to which a Capacity Reservation is associated
get_host_reservation_purchase_preview	Preview a reservation purchase with configuration
get_image_block_public_access_state	Gets the current state of block public access for an AMI
get_instance_types_from_instance_requirements	Returns a list of instance types with the specified requirements
get_instance_uefi_data	A binary representation of the UEFI variable store
get_ipam_address_history	Retrieve historical information about a CIDR with IPAM
get_ipam_discovered_accounts	Gets IPAM discovered accounts
get_ipam_discovered_public_addresses	Gets the public IP addresses that have been discovered
get_ipam_discovered_resource_cidrs	Returns the resource CIDRs that are monitored and reported
get_ipam_pool_allocations	Get a list of all the CIDR allocations in an IPAM pool

<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 l
<code>get_managed_prefix_list_associations</code>	Gets information about the resources that are ass
<code>get_managed_prefix_list_entries</code>	Gets information about the entries for a specified
<code>get_network_insights_access_scope_analysis_findings</code>	Gets the findings for the specified Network Acces
<code>get_network_insights_access_scope_content</code>	Gets the content for the specified Network Acces
<code>get_password_data</code>	Retrieves the encrypted administrator password f
<code>get_reserved_instances_exchange_quote</code>	Returns a quote and exchange information for ex
<code>get_security_groups_for_vpc</code>	Gets security groups that can be associated by th
<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 reservat
<code>get_transit_gateway_attachment_propagations</code>	Lists the route tables to which the specified resou
<code>get_transit_gateway_multicast_domain_associations</code>	Gets information about the associations for the tr
<code>get_transit_gateway_policy_table_associations</code>	Gets a list of the transit gateway policy table asso
<code>get_transit_gateway_policy_table_entries</code>	Returns a list of transit gateway policy table entr
<code>get_transit_gateway_prefix_list_references</code>	Gets information about the prefix list references
<code>get_transit_gateway_route_table_associations</code>	Gets information about the associations for the sp
<code>get_transit_gateway_route_table_propagations</code>	Gets information about the route table propagatio
<code>get_verified_access_endpoint_policy</code>	Get the Verified Access policy associated with th
<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 sa
<code>get_vpn_connection_device_types</code>	Obtain a list of customer gateway devices for wh
<code>get_vpn_tunnel_replacement_status</code>	Get details of available tunnel endpoint mainten
<code>import_client_vpn_client_certificate_revocation_list</code>	Uploads a client certificate revocation list to the s
<code>import_image</code>	To import your virtual machines (VMs) with a co
<code>import_instance</code>	We recommend that you use the ImportImage AP
<code>import_key_pair</code>	Imports the public key from an RSA or ED25519
<code>import_snapshot</code>	Imports a disk into an EBS snapshot
<code>import_volume</code>	Creates an import volume task using metadata fr
<code>list_images_in_recycle_bin</code>	Lists one or more AMIs that are currently in the
<code>list_snapshots_in_recycle_bin</code>	Lists one or more snapshots that are currently in
<code>lock_snapshot</code>	Locks an Amazon EBS snapshot in either govern
<code>modify_address_attribute</code>	Modifies an attribute of the specified Elastic IP a
<code>modify_availability_zone_group</code>	Changes the opt-in status of the Local Zone and
<code>modify_capacity_reservation</code>	Modifies a Capacity Reservation's capacity and t
<code>modify_capacity_reservation_fleet</code>	Modifies a Capacity Reservation Fleet
<code>modify_client_vpn_endpoint</code>	Modifies the specified Client VPN endpoint
<code>modify_default_credit_specification</code>	Modifies the default credit option for CPU usage
<code>modify_ebs_default_kms_key_id</code>	Changes the default KMS key for EBS encryption
<code>modify_fleet</code>	Modifies the specified EC2 Fleet
<code>modify_fpga_image_attribute</code>	Modifies the specified attribute of the specified A
<code>modify_hosts</code>	Modify the auto-placement setting of a Dedicated
<code>modify_identity_id_format</code>	Modifies the ID format of a resource for a specifi
<code>modify_id_format</code>	Modifies the ID format for the specified resource
<code>modify_image_attribute</code>	Modifies the specified attribute of the specified A

modify_instance_attribute	Modifies the specified attribute of the specified instance
modify_instance_capacity_reservation_attributes	Modifies the Capacity Reservation settings for a reservation
modify_instance_credit_specification	Modifies the credit option for CPU usage on a running instance
modify_instance_event_start_time	Modifies the start time for a scheduled Amazon EC2 maintenance event
modify_instance_event_window	Modifies the specified event window
modify_instance_maintenance_options	Modifies the recovery behavior of your instance during a scheduled maintenance event
modify_instance_metadata_options	Modify the instance metadata parameters on a running instance
modify_instance_placement	Modifies the placement attributes for a specified instance
modify_ipam	Modify the configurations of an IPAM
modify_ipam_pool	Modify the configurations of an IPAM pool
modify_ipam_resource_cidr	Modify a resource CIDR
modify_ipam_resource_discovery	Modifies a resource discovery
modify_ipam_scope	Modify an IPAM scope
modify_launch_template	Modifies a launch template
modify_local_gateway_route	Modifies the specified local gateway route
modify_managed_prefix_list	Modifies the specified managed prefix list
modify_network_interface_attribute	Modifies the specified network interface attribute
modify_private_dns_name_options	Modifies the options for instance hostnames for a running instance
modify_reserved_instances	Modifies the configuration of your Reserved Instance
modify_security_group_rules	Modifies the rules of a security group
modify_snapshot_attribute	Adds or removes permission settings for the specified Amazon EBS snapshot
modify_snapshot_tier	Archives an Amazon EBS snapshot
modify_spot_fleet_request	Modifies the specified Spot Fleet request
modify_subnet_attribute	Modifies a subnet attribute
modify_traffic_mirror_filter_network_services	Allows or restricts mirroring network services
modify_traffic_mirror_filter_rule	Modifies the specified Traffic Mirror rule
modify_traffic_mirror_session	Modifies a Traffic Mirror session
modify_transit_gateway	Modifies the specified transit gateway
modify_transit_gateway_prefix_list_reference	Modifies a reference (route) to a prefix list in a specific VPC
modify_transit_gateway_vpc_attachment	Modifies the specified VPC attachment
modify_verified_access_endpoint	Modifies the configuration of the specified Amazon Verified Access endpoint
modify_verified_access_endpoint_policy	Modifies the specified Amazon Web Services Verified Access endpoint policy
modify_verified_access_group	Modifies the specified Amazon Web Services Verified Access group
modify_verified_access_group_policy	Modifies the specified Amazon Web Services Verified Access group policy
modify_verified_access_instance	Modifies the configuration of the specified Amazon Verified Access instance
modify_verified_access_instance_logging_configuration	Modifies the logging configuration for the specified Amazon Verified Access instance
modify_verified_access_trust_provider	Modifies the configuration of the specified Amazon Verified Access trust provider
modify_volume	You can modify several parameters of an existing Amazon EBS volume
modify_volume_attribute	Modifies a volume attribute
modify_vpc_attribute	Modifies the specified attribute of the specified VPC
modify_vpc_endpoint	Modifies attributes of a specified VPC endpoint
modify_vpc_endpoint_connection_notification	Modifies a connection notification for VPC endpoint
modify_vpc_endpoint_service_configuration	Modifies the attributes of your VPC endpoint service
modify_vpc_endpoint_service_payer_responsibility	Modifies the payer responsibility for your VPC endpoint service
modify_vpc_endpoint_service_permissions	Modifies the permissions for your VPC endpoint service
modify_vpc_peering_connection_options	Modifies the VPC peering connection options on a VPC peering connection
modify_vpc_tenancy	Modifies the instance tenancy attribute of the specified VPC
modify_vpn_connection	Modifies the customer gateway or the target gateway of a VPN connection

<code>modify_vpn_connection_options</code>	Modifies the connection options for your Site-to-Site VPN connection
<code>modify_vpn_tunnel_certificate</code>	Modifies the VPN tunnel endpoint certificate
<code>modify_vpn_tunnel_options</code>	Modifies the options for a VPN tunnel in an Amazon Virtual Private Cloud (Amazon VPC)
<code>monitor_instances</code>	Enables detailed monitoring for a running instance
<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 IP address range
<code>provision_byoip_cidr</code>	Provisions an IPv4 or IPv6 address range for use with your Amazon Virtual Private Cloud (Amazon VPC)
<code>provision_ipam_byoasn</code>	Provisions your Autonomous System Number (ASN) to IPAM
<code>provision_ipam_pool_cidr</code>	Provision a CIDR to an IPAM pool
<code>provision_public_ipv4_pool_cidr</code>	Provision a CIDR to a public IPv4 pool
<code>purchase_capacity_block</code>	Purchase the Capacity Block for use with your Amazon EC2 instances
<code>purchase_host_reservation</code>	Purchase a reservation with configurations that match your Amazon EC2 instances
<code>purchase_reserved_instances_offering</code>	Purchases a Reserved Instance for use with your Amazon EC2 instances
<code>purchase_scheduled_instances</code>	You can no longer purchase Scheduled Instances
<code>reboot_instances</code>	Requests a reboot of the specified instances
<code>register_image</code>	Registers an AMI
<code>register_instance_event_notification_attributes</code>	Registers a set of tag keys to include in scheduled maintenance events
<code>register_transit_gateway_multicast_group_members</code>	Registers members (network interfaces) with the specified transit gateway
<code>register_transit_gateway_multicast_group_sources</code>	Registers sources (network interfaces) with the specified transit gateway
<code>reject_transit_gateway_multicast_domain_associations</code>	Rejects a request to associate cross-account subnets with a transit gateway
<code>reject_transit_gateway_peering_attachment</code>	Rejects a transit gateway peering attachment request
<code>reject_transit_gateway_vpc_attachment</code>	Rejects a request to attach a VPC to a transit gateway
<code>reject_vpc_endpoint_connections</code>	Rejects VPC endpoint connection requests to your Amazon Virtual Private Cloud (Amazon VPC)
<code>reject_vpc_peering_connection</code>	Rejects a VPC peering connection request
<code>release_address</code>	Releases the specified Elastic IP address
<code>release_hosts</code>	When you no longer want to use an On-Demand Capacity Block, you can release the hosts
<code>release_ipam_pool_allocation</code>	Release an allocation within an IPAM pool
<code>replace_iam_instance_profile_association</code>	Replaces an IAM instance profile for the specified Amazon EC2 instance
<code>replace_network_acl_association</code>	Changes which network ACL a subnet is associated with
<code>replace_network_acl_entry</code>	Replaces an entry (rule) in a network ACL
<code>replace_route</code>	Replaces an existing route within a route table in an Amazon Virtual Private Cloud (Amazon VPC)
<code>replace_route_table_association</code>	Changes the route table associated with a given subnet
<code>replace_transit_gateway_route</code>	Replaces the specified route in the specified transit gateway
<code>replace_vpn_tunnel</code>	Trigger replacement of specified VPN tunnel
<code>report_instance_status</code>	Submits feedback about the status of an instance
<code>request_spot_fleet</code>	Creates a Spot Fleet request
<code>request_spot_instances</code>	Creates a Spot Instance request
<code>reset_address_attribute</code>	Resets the attribute of the specified IP address
<code>reset_ebs_default_kms_key_id</code>	Resets the default KMS key for EBS encryption
<code>reset_fpga_image_attribute</code>	Resets the specified attribute of the specified Amazon Machine Image (AMI)
<code>reset_image_attribute</code>	Resets an attribute of an AMI to its default value
<code>reset_instance_attribute</code>	Resets an attribute of an instance to its default value
<code>reset_network_interface_attribute</code>	Resets a network interface attribute
<code>reset_snapshot_attribute</code>	Resets permission settings for the specified snapshot
<code>restore_address_to_classic</code>	This action is deprecated
<code>restore_image_from_recycle_bin</code>	Restores an AMI from the Recycle Bin
<code>restore_managed_prefix_list_version</code>	Restores the entries from a previous version of a managed prefix list
<code>restore_snapshot_from_recycle_bin</code>	Restores a snapshot from the Recycle Bin

restore_snapshot_tier	Restores an archived Amazon EBS snapshot for
revoke_client_vpn_ingress	Removes an ingress authorization rule from a CL
revoke_security_group_egress	Removes the specified outbound (egress) rules fr
revoke_security_group_ingress	Removes the specified inbound (ingress) rules fr
run_instances	Launches the specified number of instances using
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 g
search_transit_gateway_routes	Searches for routes in the specified transit gatewa
send_diagnostic_interrupt	Sends a diagnostic interrupt to the specified Ama
start_instances	Starts an Amazon EBS-backed instance that you
start_network_insights_access_scope_analysis	Starts analyzing the specified Network Access Sc
start_network_insights_analysis	Starts analyzing the specified path
start_vpc_endpoint_service_private_dns_verification	Initiates the verification process to prove that the
stop_instances	Stops an Amazon EBS-backed instance
terminate_client_vpn_connections	Terminates active Client VPN endpoint connectio
terminate_instances	Shuts down the specified instances
unassign_ipv6_addresses	Unassigns one or more IPv6 addresses IPv4 Pref
unassign_private_ip_addresses	Unassigns one or more secondary private IP addr
unassign_private_nat_gateway_address	Unassigns secondary private IPv4 addresses from
unlock_snapshot	Unlocks a snapshot that is locked in governance
unmonitor_instances	Disables detailed monitoring for a running instar
update_security_group_rule_descriptions_egress	Updates the description of an egress (outbound)
update_security_group_rule_descriptions_ingress	Updates the description of an ingress (inbound) s
withdraw_byoip_cidr	Stops advertising an address range that is provis

Examples

```
## Not run:
svc <- ec2()
# This example allocates an Elastic IP address.
svc$allocate_address()

## End(Not run)
```

ec2instanceconnect *AWS EC2 Instance Connect*

Description

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

Usage

```
ec2instanceconnect(
    config = list(),
    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",

```



```

Instance0SUser = "ec2-user",
SSHPublicKey = "ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQ3F1Hqj2eqCdrGHuA6d..."
)

## End(Not run)

```

 ecr

 Amazon EC2 Container Registry

Description

Amazon Elastic Container Registry

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

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

Usage

```
ecr(config = list(), 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`.

	<ul style="list-style-type: none"> • 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 <- 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
delete_lifecycle_policy	Deletes the lifecycle policy associated with the specified repository
delete_pull_through_cache_rule	Deletes a pull through cache rule
delete_registry_policy	Deletes the registry permissions policy
delete_repository	Deletes a repository
delete_repository_policy	Deletes the repository policy associated with the specified repository
describe_image_replication_status	Returns the replication status for a specified image
describe_images	Returns metadata about the images in a repository
describe_image_scan_findings	Returns the scan findings for the specified image
describe_pull_through_cache_rules	Returns the pull through cache rules for a registry
describe_registry	Describes the settings for a registry
describe_repositories	Describes image repositories in a registry
get_authorization_token	Retrieves an authorization token
get_download_url_for_layer	Retrieves the pre-signed Amazon S3 download URL corresponding to an image layer
get_lifecycle_policy	Retrieves the lifecycle policy for the specified repository
get_lifecycle_policy_preview	Retrieves the results of the lifecycle policy preview request for the specified repository
get_registry_policy	Retrieves the permissions policy for a registry
get_registry_scanning_configuration	Retrieves the scanning configuration for a registry
get_repository_policy	Retrieves the repository policy for the specified repository
initiate_layer_upload	Notifies Amazon ECR that you intend to upload an image layer
list_images	Lists all the image IDs for the specified repository
list_tags_for_resource	List the tags for an Amazon ECR resource
put_image	Creates or updates the image manifest and tags associated with an image
put_image_scanning_configuration	The PutImageScanningConfiguration API is being deprecated, in favor of put_registry_scanning_configuration
put_image_tag_mutability	Updates the image tag mutability settings for the specified repository
put_lifecycle_policy	Creates or updates the lifecycle policy for the specified repository
put_registry_policy	Creates or updates the permissions policy for your registry
put_registry_scanning_configuration	Creates or updates the scanning configuration for your private registry
put_replication_configuration	Creates or updates the replication configuration for a registry
set_repository_policy	Applies a repository policy to the specified repository to control access permissions
start_image_scan	Starts an image vulnerability scan
start_lifecycle_policy_preview	Starts a preview of a lifecycle policy for the specified repository
tag_resource	Adds specified tags to a resource with the specified ARN
untag_resource	Deletes specified tags from a resource

[update_pull_through_cache_rule](#)
[upload_layer_part](#)
[validate_pull_through_cache_rule](#)

Updates an existing pull through cache rule
 Uploads an image layer part to Amazon ECR
 Validates an existing pull through cache rule for an upstream registry that req

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 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 <- 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_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_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 <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 <- 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

associate_access_policy	Associates an access policy and its scope to an access entry
associate_encryption_config	Associates an encryption configuration to an existing cluster
associate_identity_provider_config	Associates an identity provider configuration to a cluster
create_access_entry	Creates an access entry
create_addon	Creates an Amazon EKS add-on
create_cluster	Creates an Amazon EKS control plane
create_eks_anywhere_subscription	Creates an EKS Anywhere subscription
create_fargate_profile	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_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 g
<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	Cancels in-progress environment configuration update or application version update
apply_environment_managed_action	Applies a scheduled managed action immediately
associate_environment_operations_role	Add or change the operations role used by an environment
check_dns_availability	Checks if the specified CNAME is available
compose_environments	Create or update a group of environments that each run a separate component
create_application	Creates an application that has one configuration template named default and one version
create_application_version	Creates an application version for the specified application
create_configuration_template	Creates an AWS Elastic Beanstalk configuration template, associated with a specific environment
create_environment	Launches an AWS Elastic Beanstalk environment for the specified application and configuration template
create_platform_version	Create a new version of your custom platform
create_storage_location	Creates a bucket in Amazon S3 to store application versions, logs, and other artifacts
delete_application	Deletes the specified application along with all associated versions and configurations
delete_application_version	Deletes the specified version from the specified application
delete_configuration_template	Deletes the specified configuration template
delete_environment_configuration	Deletes the draft configuration associated with the running environment
delete_platform_version	Deletes the specified version of a custom platform
describe_account_attributes	Returns attributes related to AWS Elastic Beanstalk that are associated with the account
describe_applications	Returns the descriptions of existing applications
describe_application_versions	Retrieve a list of application versions
describe_configuration_options	Describes the configuration options that are used in a particular configuration

<code>describe_configuration_settings</code>	Returns a description of the settings for the specified configuration set, that
<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 E
<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
<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 Scal
<code>request_environment_info</code>	Initiates a request to compile the specified type of information of the deploy
<code>restart_app_server</code>	Causes the environment to restart the application container server running o
<code>retrieve_environment_info</code>	Retrieves the compiled information from a RequestEnvironmentInfo request
<code>swap_environment_cnam_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 propertie
<code>update_environment</code>	Updates the environment description, deploys a new application version, up
<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 e

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)
```


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 shared id="EMR-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

`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-endpoints.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_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_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_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)

```

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

<code>config</code>	<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 <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
<code>credentials</code>	<p>Optional credentials shorthand for the <code>config</code> 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 <- 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_runs	Lists job runs based on a set of parameters
list_tags_for_resource	Lists the tags assigned to the resources
start_application	Starts a specified application and initializes initial capacity if configured
start_job_run	Starts a job run
stop_application	Stops a specified application and releases initial capacity if configured
tag_resource	Assigns tags to resources
untag_resource	Removes tags from resources
update_application	Updates a specified application

Examples

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

## End(Not run)
```

imagebuilder

EC2 Image Builder

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
create_infrastructure_configuration	Creates a new infrastructure configuration
create_lifecycle_policy	Create a lifecycle policy resource
create_workflow	Create a new workflow or a new version of an existing workflow
delete_component	Deletes a component build version
delete_container_recipe	Deletes a container recipe
delete_distribution_configuration	Deletes a distribution configuration
delete_image	Deletes an Image Builder image resource
delete_image_pipeline	Deletes an image pipeline
delete_image_recipe	Deletes an image recipe
delete_infrastructure_configuration	Deletes an infrastructure configuration
delete_lifecycle_policy	Delete the specified lifecycle policy resource
delete_workflow	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_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
<code>import_component</code>	Imports a component and transforms its data into a component document
<code>import_vm_image</code>	When you export your virtual machine (VM) from its virtualization environment, this operation imports the VM image into Amazon Image Builder.
<code>list_component_build_versions</code>	Returns the list of component build versions for the specified semantic version
<code>list_components</code>	Returns the list of 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 associated recipe
<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
<code>list_tags_for_resource</code>	Returns the list of tags for the specified resource
<code>list_waiting_workflow_steps</code>	Get a list of workflow steps that are waiting for action for workflows in your Amazon Web Services account
<code>list_workflow_build_versions</code>	Returns a list of build versions for a specific workflow resource
<code>list_workflow_executions</code>	Returns a list of workflow runtime instance metadata objects for a specific image build version
<code>list_workflows</code>	Lists workflow build versions based on filtering parameters
<code>list_workflow_step_executions</code>	Returns runtime data for each step in a runtime instance of the workflow that you specified
<code>put_component_policy</code>	Applies a policy to a component
<code>put_container_recipe_policy</code>	Applies a policy to a container image
<code>put_image_policy</code>	Applies a policy to an image
<code>put_image_recipe_policy</code>	Applies a policy to an image recipe
<code>send_workflow_step_action</code>	Pauses or resumes image creation when the associated workflow runs a WaitForAction step
<code>start_image_pipeline_execution</code>	Manually triggers a pipeline to create an image
<code>start_resource_state_update</code>	Begin asynchronous resource state update for lifecycle changes to the specified image
<code>tag_resource</code>	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.

- **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 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 <- 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 an Amazon Web Service, Amazon Web Services account, or Amazon Web S
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 ali
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
get_alias	Returns details about a Lambda function alias
get_code_signing_config	Returns information about the specified code signing configuration
get_event_source_mapping	Returns details about an event source mapping
get_function	Returns information about the function or function version, with a link to download
get_function_code_signing_config	Returns the code signing configuration for the specified function
get_function_concurrency	Returns details about the reserved concurrency configuration for a function
get_function_configuration	Returns the version-specific settings of a Lambda function or version
get_function_event_invoke_config	Retrieves the configuration for asynchronous invocation for a function, version, or a
get_function_url_config	Returns details about a Lambda function URL
get_layer_version	Returns information about a version of an Lambda layer, with a link to download th
get_layer_version_by_arn	Returns information about a version of an Lambda layer, with a link to download th
get_layer_version_policy	Returns the permission policy for a version of an Lambda layer
get_policy	Returns the resource-based IAM policy for a function, version, or alias
get_provisioned_concurrency_config	Retrieves the provisioned concurrency configuration for a function's alias or versio
get_runtime_management_config	Retrieves the runtime management configuration for a function's version
invoke	Invokes a Lambda function
invoke_async	For asynchronous function invocation, use Invoke
invoke_with_response_stream	Configure your Lambda functions to stream response payloads back to clients
list_aliases	Returns a list of aliases for a Lambda function
list_code_signing_configs	Returns a list of code signing configurations

list_event_source_mappings	Lists event source mappings
list_function_event_invoke_configs	Retrieves a list of configurations for asynchronous invocation for a function
list_functions	Returns a list of Lambda functions, with the version-specific configuration of each
list_functions_by_code_signing_config	List the functions that use the specified code signing configuration
list_function_url_configs	Returns a list of Lambda function URLs for the specified function
list_layers	Lists Lambda layers and shows information about the latest version of each
list_layer_versions	Lists the versions of an Lambda layer
list_provisioned_concurrency_configs	Retrieves a list of provisioned concurrency configurations for a function
list_tags	Returns a function's tags
list_versions_by_function	Returns a list of versions, with the version-specific configuration of each
publish_layer_version	Creates an Lambda layer from a ZIP archive
publish_version	Creates a version from the current code and configuration of a function
put_function_code_signing_config	Update the code signing configuration for the function
put_function_concurrency	Sets the maximum number of simultaneous executions for a function, and reserves
put_function_event_invoke_config	Configures options for asynchronous invocation on a function, version, or alias
put_provisioned_concurrency_config	Adds a provisioned concurrency configuration to a function's alias or version
put_runtime_management_config	Sets the runtime management configuration for a function's version
remove_layer_version_permission	Removes a statement from the permissions policy for a version of an Lambda layer
remove_permission	Revokes function-use permission from an Amazon Web Service or another Amazon
tag_resource	Adds tags to a function
untag_resource	Removes tags from a function
update_alias	Updates the configuration of a Lambda function alias
update_code_signing_config	Update the code signing configuration
update_event_source_mapping	Updates an event source mapping
update_function_code	Updates a Lambda function's code
update_function_configuration	Modify the version-specific settings of a Lambda function
update_function_event_invoke_config	Updates the configuration for asynchronous invocation for a function, version, or al
update_function_url_config	Updates the configuration for a Lambda function URL

Examples

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

## End(Not run)
```

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.

- **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 <- 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 (CDN) distribution
attach_disk	Attaches a block storage disk to a running or stopped Lightsail instance and starts 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 (CDN) distribution
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 (e.g., example.com)
create_domain_entry	Creates one of the following domain name system (DNS) records in a domain: A, AAAA, CNAME, MX, NS, TXT, or SRV
create_gui_session_access_details	Creates two URLs that are used to access a virtual computer's graphical user interface (GUI)
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 (CDN) distribution
delete_contact_method	Deletes a contact method
delete_container_image	Deletes a container image that is registered to your Amazon Lightsail container service
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

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

<code>get_export_snapshot_records</code>	Returns all export snapshot records created as a result of the export snapshot
<code>get_instance</code>	Returns information about a specific Amazon Lightsail instance, which is a
<code>get_instance_access_details</code>	Returns temporary SSH keys you can use to connect to a specific virtual private
<code>get_instance_metric_data</code>	Returns the data points for the specified Amazon Lightsail instance metric, the
<code>get_instance_port_states</code>	Returns the firewall port states for a specific Amazon Lightsail instance, the
<code>get_instances</code>	Returns information about all Amazon Lightsail virtual private servers, or in
<code>get_instance_snapshot</code>	Returns information about a specific instance snapshot
<code>get_instance_snapshots</code>	Returns all instance snapshots for the user's account
<code>get_instance_state</code>	Returns the state of a specific instance
<code>get_key_pair</code>	Returns information about a specific key pair
<code>get_key_pairs</code>	Returns information about all key pairs in the user's account
<code>get_load_balancer</code>	Returns information about the specified Lightsail load balancer
<code>get_load_balancer_metric_data</code>	Returns information about health metrics for your Lightsail load balancer
<code>get_load_balancers</code>	Returns information about all load balancers in an account
<code>get_load_balancer_tls_certificates</code>	Returns information about the TLS certificates that are associated with the s
<code>get_load_balancer_tls_policies</code>	Returns a list of TLS security policies that you can apply to Lightsail load b
<code>get_operation</code>	Returns information about a specific operation
<code>get_operations</code>	Returns information about all operations
<code>get_operations_for_resource</code>	Gets operations for a specific resource (e
<code>get_regions</code>	Returns a list of all valid regions for Amazon Lightsail
<code>get_relational_database</code>	Returns information about a specific database in Amazon Lightsail
<code>get_relational_database_blueprints</code>	Returns a list of available database blueprints in Amazon Lightsail
<code>get_relational_database_bundles</code>	Returns the list of bundles that are available in Amazon Lightsail
<code>get_relational_database_events</code>	Returns a list of events for a specific database in Amazon Lightsail
<code>get_relational_database_log_events</code>	Returns a list of log events for a database in Amazon Lightsail
<code>get_relational_database_log_streams</code>	Returns a list of available log streams for a specific database in Amazon Lig
<code>get_relational_database_master_user_password</code>	Returns the current, previous, or pending versions of the master user passwo
<code>get_relational_database_metric_data</code>	Returns the data points of the specified metric for a database in Amazon Lig
<code>get_relational_database_parameters</code>	Returns all of the runtime parameters offered by the underlying database sof
<code>get_relational_databases</code>	Returns information about all of your databases in Amazon Lightsail
<code>get_relational_database_snapshot</code>	Returns information about a specific database snapshot in Amazon Lightsai
<code>get_relational_database_snapshots</code>	Returns information about all of your database snapshots in Amazon Lights
<code>get_static_ip</code>	Returns information about an Amazon Lightsail static IP
<code>get_static_ips</code>	Returns information about all static IPs in the user's account
<code>import_key_pair</code>	Imports a public SSH key from a specific key pair
<code>is_vpc_peered</code>	Returns a Boolean value indicating whether your Lightsail VPC is peered
<code>open_instance_public_ports</code>	Opens ports for a specific Amazon Lightsail instance, and specifies the IP ad
<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 ad
<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 deliv
<code>send_contact_method_verification</code>	Sends a verification request to an email contact method to ensure it's owned
<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 l

start_gui_session	Initiates a graphical user interface (GUI) session that's used to access a virtual console
start_instance	Starts a specific Amazon Lightsail instance from a stopped state
start_relational_database	Starts a specific database from a stopped state in Amazon Lightsail
stop_gui_session	Terminates a web-based NICE DCV session that's used to access a virtual console
stop_instance	Stops a specific Amazon Lightsail instance that is currently running
stop_relational_database	Stops a specific database that is currently running in Amazon Lightsail
tag_resource	Adds one or more tags to the specified Amazon Lightsail resource
test_alarm	Tests an alarm by displaying a banner on the Amazon Lightsail console
unpeer_vpc	Unpeers the Lightsail VPC from the user's default VPC
untag_resource	Deletes the specified set of tag keys and their values from the specified Amazon Lightsail resource
update_bucket	Updates an existing Amazon Lightsail bucket
update_bucket_bundle	Updates the bundle, or storage plan, of an existing Amazon Lightsail bucket
update_container_service	Updates the configuration of your Amazon Lightsail container service, such as the container engine
update_distribution	Updates an existing Amazon Lightsail content delivery network (CDN) distribution
update_distribution_bundle	Updates the bundle of your Amazon Lightsail content delivery network (CDN) distribution
update_domain_entry	Updates a domain recordset after it is created
update_instance_metadata_options	Modifies the Amazon Lightsail instance metadata parameters on a running instance
update_load_balancer_attribute	Updates the specified attribute for a load balancer
update_relational_database	Allows the update of one or more attributes of a database in Amazon Lightsail
update_relational_database_parameters	Allows the update of one or more parameters of a database in Amazon Lightsail

Examples

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

## End(Not run)
```

proton

AWS Proton

Description

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

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

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

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

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

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

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

To learn more about Proton, 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. <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 <- 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 a Proton component.
create_environment	Deploy a new environment.
create_environment_account_connection	Create an environment account connection in an environment account so that it can be used to create other resources.
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 a 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 link to a repository.
delete_component	Delete a 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
delete_environment_template_version	If no other minor versions of an environment template exist, delete a major ver
delete_repository	De-register and unlink your repository
delete_service	Delete a service, with its instances and pipeline
delete_service_sync_config	Delete the Proton Ops file
delete_service_template	If no other major or minor versions of the service template exist, delete the serv
delete_service_template_version	If no other minor versions of a service template exist, delete a major version of
delete_template_sync_config	Delete a template sync configuration
get_account_settings	Get detail data for 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 co
get_environment_template	Get detailed data for an environment template
get_environment_template_version	Get detailed data for a major or minor version of an environment template
get_repository	Get detail data for a 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
get_template_sync_config	Get detail data for a template sync configuration
get_template_sync_status	Get the status of a template sync
list_component_outputs	Get a list of component Infrastructure as Code (IaC) outputs
list_component_provisioned_resources	List provisioned resources for a component with details
list_components	List components with summary data
list_deployments	List deployments
list_environment_account_connections	View a list of environment account connections
list_environment_outputs	List the infrastructure as code outputs for your environment
list_environment_provisioned_resources	List the provisioned resources for your environment
list_environments	List environments with detail data summaries
list_environment_templates	List environment templates
list_environment_template_versions	List major or minor versions of an environment template with detail data
list_repositories	List linked repositories with detail data
list_repository_sync_definitions	List repository sync definitions with detail data
list_service_instance_outputs	Get a list service of instance Infrastructure as Code (IaC) outputs
list_service_instance_provisioned_resources	List provisioned resources for a service instance with details
list_service_instances	List service instances with summary data
list_service_pipeline_outputs	Get a list of service pipeline Infrastructure as Code (IaC) outputs
list_service_pipeline_provisioned_resources	List provisioned resources for a service and pipeline with details
list_services	List services with summaries of detail data
list_service_templates	List service templates with detail data
list_service_template_versions	List major or minor versions of a service template with detail data

list_tags_for_resource	List tags for a resource
notify_resource_deployment_status_change	Notify Proton of status changes to a provisioned resource when you use self-managed resources
reject_environment_account_connection	In a management account, reject an environment account connection from another account
tag_resource	Tag a resource
untag_resource	Remove a customer tag from a resource
update_account_settings	Update Proton settings that are used for multiple services in the Amazon Web Services account
update_component	Update a component
update_environment	Update an environment
update_environment_account_connection	In an environment account, update an environment account connection to use a different management account
update_environment_template	Update an environment template
update_environment_template_version	Update a major or minor version of an environment template
update_service	Edit a service description or use a spec to add and delete service instances
update_service_instance	Update a service instance
update_service_pipeline	Update the service pipeline
update_service_sync_blocker	Update the service sync blocker by resolving it
update_service_sync_config	Update the Proton Ops config file
update_service_template	Update a service template
update_service_template_version	Update a major or minor version of a service template
update_template_sync_config	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.

- **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 <- 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 applica
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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