

# Package: paws.compute (via r-universe)

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**Title** 'Amazon Web Services' Compute Services

**Version** 0.7.0

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

**License** Apache License (>= 2.0)

**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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## 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`.

	<ul style="list-style-type: none"> <li>• <b>sts_regional_endpoint</b>: Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	<p>Optional credentials shorthand for the config parameter</p> <ul style="list-style-type: none"> <li>• <b>creds</b>: <ul style="list-style-type: none"> <li>– <b>access_key_id</b>: AWS access key ID</li> <li>– <b>secret_access_key</b>: AWS secret access key</li> <li>– <b>session_token</b>: AWS temporary session token</li> </ul> </li> <li>• <b>profile</b>: The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous</b>: Set anonymous credentials.</li> </ul>
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

<a href="#">associate_custom_domain</a>	Associate your own domain name with the App Runner subdomain URL of your Amazon Web Services account
<a href="#">create_auto_scaling_configuration</a>	Create an App Runner automatic scaling configuration resource
<a href="#">create_connection</a>	Create an App Runner connection resource
<a href="#">create_observability_configuration</a>	Create an App Runner observability configuration resource
<a href="#">create_service</a>	Create an App Runner service
<a href="#">create_vpc_connector</a>	Create an App Runner VPC connector resource
<a href="#">create_vpc_ingress_connection</a>	Create an App Runner VPC Ingress Connection resource
<a href="#">delete_auto_scaling_configuration</a>	Delete an App Runner automatic scaling configuration resource
<a href="#">delete_connection</a>	Delete an App Runner connection
<a href="#">delete_observability_configuration</a>	Delete an App Runner observability configuration resource
<a href="#">delete_service</a>	Delete an App Runner service
<a href="#">delete_vpc_connector</a>	Delete an App Runner VPC connector resource
<a href="#">delete_vpc_ingress_connection</a>	Delete an App Runner VPC Ingress Connection resource that's associated with an App Runner service
<a href="#">describe_auto_scaling_configuration</a>	Return a full description of an App Runner automatic scaling configuration resource
<a href="#">describe_custom_domains</a>	Return a description of custom domain names that are associated with an App Runner service
<a href="#">describe_observability_configuration</a>	Return a full description of an App Runner observability configuration resource
<a href="#">describe_service</a>	Return a full description of an App Runner service
<a href="#">describe_vpc_connector</a>	Return a description of an App Runner VPC connector resource
<a href="#">describe_vpc_ingress_connection</a>	Return a full description of an App Runner VPC Ingress Connection resource
<a href="#">disassociate_custom_domain</a>	Disassociate a custom domain name from an App Runner service
<a href="#">list_auto_scaling_configurations</a>	Returns a list of active App Runner automatic scaling configurations in your Amazon Web Services account
<a href="#">list_connections</a>	Returns a list of App Runner connections that are associated with your Amazon Web Services account
<a href="#">list_observability_configurations</a>	Returns a list of active App Runner observability configurations in your Amazon Web Services account
<a href="#">list_operations</a>	Return a list of operations that occurred on an App Runner service
<a href="#">list_services</a>	Returns a list of running App Runner services in your Amazon Web Services account
<a href="#">list_services_for_auto_scaling_configuration</a>	Returns a list of the associated App Runner services using an auto scaling configuration
<a href="#">list_tags_for_resource</a>	List tags that are associated with for an App Runner resource
<a href="#">list_vpc_connectors</a>	Returns a list of App Runner VPC connectors in your Amazon Web Services account
<a href="#">list_vpc_ingress_connections</a>	Return a list of App Runner VPC Ingress Connections in your Amazon Web Services account
<a href="#">pause_service</a>	Pause an active App Runner service
<a href="#">resume_service</a>	Resume an active App Runner service
<a href="#">start_deployment</a>	Initiate a manual deployment of the latest commit in a source code repository to an App Runner service
<a href="#">tag_resource</a>	Add tags to, or update the tag values of, an App Runner resource
<a href="#">untag_resource</a>	Remove tags from an App Runner resource
<a href="#">update_default_auto_scaling_configuration</a>	Update an auto scaling configuration to be the default
<a href="#">update_service</a>	Update an App Runner service
<a href="#">update_vpc_ingress_connection</a>	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:**
      - \* **access\_key\_id:** AWS access key ID
      - \* **secret\_access\_key:** AWS secret access key
      - \* **session\_token:** AWS temporary session token
    - **profile:** The name of a profile to use. If not given, then the default profile is used.
    - **anonymous:** Set anonymous credentials.
  - **endpoint:** The complete URL to use for the constructed client.

	<ul style="list-style-type: none"> <li>• <b>region:</b> The AWS Region used in instantiating the client.</li> <li>• <b>close_connection:</b> Immediately close all HTTP connections.</li> <li>• <b>timeout:</b> The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.</li> <li>• <b>s3_force_path_style:</b> Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>.</li> <li>• <b>sts_regional_endpoint:</b> Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	<p>Optional credentials shorthand for the config parameter</p> <ul style="list-style-type: none"> <li>• <b>creds:</b> <ul style="list-style-type: none"> <li>– <b>access_key_id:</b> AWS access key ID</li> <li>– <b>secret_access_key:</b> AWS secret access key</li> <li>– <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>• <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous:</b> Set anonymous credentials.</li> </ul>
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

<a href="#">cancel_job</a>	Cancels a job in an Batch job queue
<a href="#">create_compute_environment</a>	Creates an Batch compute environment
<a href="#">create_job_queue</a>	Creates an Batch job queue
<a href="#">create_scheduling_policy</a>	Creates an Batch scheduling policy
<a href="#">delete_compute_environment</a>	Deletes an Batch compute environment
<a href="#">delete_job_queue</a>	Deletes the specified job queue
<a href="#">delete_scheduling_policy</a>	Deletes the specified scheduling policy
<a href="#">deregister_job_definition</a>	Deregisters an Batch job definition
<a href="#">describe_compute_environments</a>	Describes one or more of your compute environments
<a href="#">describe_job_definitions</a>	Describes a list of job definitions
<a href="#">describe_job_queues</a>	Describes one or more of your job queues
<a href="#">describe_jobs</a>	Describes a list of Batch jobs
<a href="#">describe_scheduling_policies</a>	Describes one or more of your scheduling policies
<a href="#">get_job_queue_snapshot</a>	Provides a list of the first 100 RUNNABLE jobs associated to a single job queue
<a href="#">list_jobs</a>	Returns a list of Batch jobs
<a href="#">list_scheduling_policies</a>	Returns a list of Batch scheduling policies
<a href="#">list_tags_for_resource</a>	Lists the tags for an Batch resource
<a href="#">register_job_definition</a>	Registers an Batch job definition
<a href="#">submit_job</a>	Submits an Batch job from a job definition
<a href="#">tag_resource</a>	Associates the specified tags to a resource with the specified resourceArn
<a href="#">terminate_job</a>	Terminates a job in a job queue
<a href="#">untag_resource</a>	Deletes specified tags from an Batch resource
<a href="#">update_compute_environment</a>	Updates an Batch compute environment
<a href="#">update_job_queue</a>	Updates a job queue
<a href="#">update_scheduling_policy</a>	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	<i>Braket</i>
--------	---------------

---

## 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.

- **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 <- 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

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

## Examples

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

## End(Not run)
```

---

computeoptimizer

*AWS Compute Optimizer*

---

## Description

Compute Optimizer is a service that analyzes the configuration and utilization metrics of your Amazon Web Services compute resources, such as Amazon EC2 instances, Amazon EC2 Auto Scaling groups, Lambda functions, 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"> <li>• <b>credentials:</b> <ul style="list-style-type: none"> <li>– <b>creds:</b> <ul style="list-style-type: none"> <li>* <b>access_key_id:</b> AWS access key ID</li> <li>* <b>secret_access_key:</b> AWS secret access key</li> <li>* <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>– <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>– <b>anonymous:</b> Set anonymous credentials.</li> </ul> </li> <li>• <b>endpoint:</b> The complete URL to use for the constructed client.</li> <li>• <b>region:</b> The AWS Region used in instantiating the client.</li> <li>• <b>close_connection:</b> Immediately close all HTTP connections.</li> <li>• <b>timeout:</b> The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.</li> <li>• <b>s3_force_path_style:</b> Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>.</li> <li>• <b>sts_regional_endpoint:</b> Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> <li>• <b>creds:</b> <ul style="list-style-type: none"> <li>– <b>access_key_id:</b> AWS access key ID</li> <li>– <b>secret_access_key:</b> AWS secret access key</li> <li>– <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>• <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous:</b> Set anonymous credentials.</li> </ul>
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](#)  
[export\\_ebs\\_volume\\_recommendations](#)  
[export\\_ec2\\_instance\\_recommendations](#)  
[export\\_ecs\\_service\\_recommendations](#)  
[export\\_lambda\\_function\\_recommendations](#)  
[export\\_license\\_recommendations](#)  
[export\\_rds\\_database\\_recommendations](#)  
[get\\_auto\\_scaling\\_group\\_recommendations](#)  
[get\\_ebs\\_volume\\_recommendations](#)  
[get\\_ec2\\_instance\\_recommendations](#)  
[get\\_ec2\\_recommendation\\_projected\\_metrics](#)

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  
 Exports optimization recommendations for Amazon EBS volumes  
 Exports optimization recommendations for Amazon EC2 instances  
 Exports optimization recommendations for Amazon ECS services on  
 Exports optimization recommendations for Lambda functions  
 Export optimization recommendations for your licenses  
 Export optimization recommendations for your Amazon Relational D  
 Returns Auto Scaling group recommendations  
 Returns Amazon Elastic Block Store (Amazon EBS) volume recomm  
 Returns Amazon EC2 instance recommendations  
 Returns the projected utilization metrics of Amazon EC2 instance re

<code>get_ecs_service_recommendation_projected_metrics</code>	Returns the projected metrics of Amazon ECS service recommendations
<code>get_ecs_service_recommendations</code>	Returns Amazon ECS service recommendations
<code>get_effective_recommendation_preferences</code>	Returns the recommendation preferences that are in effect for a given account
<code>get_enrollment_status</code>	Returns the enrollment (opt in) status of an account to the Compute Optimizer
<code>get_enrollment_statuses_for_organization</code>	Returns the Compute Optimizer enrollment (opt-in) status of organization
<code>get_lambda_function_recommendations</code>	Returns Lambda function recommendations
<code>get_license_recommendations</code>	Returns license recommendations for Amazon EC2 instances that run Linux
<code>get_rds_database_recommendation_projected_metrics</code>	Returns the projected metrics of Amazon RDS recommendations
<code>get_rds_database_recommendations</code>	Returns Amazon RDS recommendations
<code>get_recommendation_preferences</code>	Returns existing recommendation preferences, such as enhanced infrastructure
<code>get_recommendation_summaries</code>	Returns the optimization findings for an account
<code>put_recommendation_preferences</code>	Creates a new recommendation preference or updates an existing recommendation preference
<code>update_enrollment_status</code>	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

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

## Usage

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

## Arguments

`config` 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

	<ul style="list-style-type: none"> <li>– <b>profile</b>: The name of a profile to use. If not given, then the default profile is used.</li> <li>– <b>anonymous</b>: Set anonymous credentials.</li> <li>• <b>endpoint</b>: The complete URL to use for the constructed client.</li> <li>• <b>region</b>: The AWS Region used in instantiating the client.</li> <li>• <b>close_connection</b>: Immediately close all HTTP connections.</li> <li>• <b>timeout</b>: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.</li> <li>• <b>s3_force_path_style</b>: 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>.</li> <li>• <b>sts_regional_endpoint</b>: Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> <li>• <b>creds</b>: <ul style="list-style-type: none"> <li>– <b>access_key_id</b>: AWS access key ID</li> <li>– <b>secret_access_key</b>: AWS secret access key</li> <li>– <b>session_token</b>: AWS temporary session token</li> </ul> </li> <li>• <b>profile</b>: The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous</b>: Set anonymous credentials.</li> </ul>
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](#)  
[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](#)

Accepts an Elastic IP address transfer  
 Accepts the Convertible Reserved Instance exchange quote  
 Accepts a request to associate subnets with a transit gateway multicast domain  
 Accepts a transit gateway peering attachment request  
 Accepts a request to attach a VPC to a transit gateway  
 Accepts connection requests to your VPC endpoint  
 Accepts connection requests to your VPC endpoint  
 Accept a VPC peering connection request  
 Advertises an IPv4 or IPv6 address range that is available to your Amazon VPC  
 Allocates an Elastic IP address to your Amazon account  
 Allocates a Dedicated Host to your account  
 Allocate a CIDR from an IPAM pool  
 Applies a security group to the association between a Client VPN target network and a VPC  
 Assigns one or more IPv6 addresses to the specified VPC  
 Assigns one or more secondary private IP addresses to the specified VPC  
 Assigns private IPv4 addresses to a private NAT gateway  
 Associates an Elastic IP address, or carrier IP address, with a VPC  
 Associates a target network with a Client VPN endpoint  
 Associates a set of DHCP options (that you've previously created) with a VPC  
 Associates an Identity and Access Management (IAM) instance profile with a running instance  
 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 pool  
 Associates an IPAM resource discovery with an IPAM pool  
 Associates Elastic IP addresses (EIPs) and private IP addresses with a VPC  
 Associates a subnet in your VPC or an internet gateway with a transit gateway  
 Associates a CIDR block with your subnet  
 Associates the specified subnets and transit gateway with a transit gateway multicast domain  
 Associates the specified transit gateway attachment with a VPC  
 Associates the specified attachment with the specified VPC



associate_trunk_interface	Associates a branch network interface with a trunk network interface
associate_vpc_cidr_block	Associates a CIDR block with your VPC
attach_classic_link_vpc	This action is deprecated
attach_internet_gateway	Attaches an internet gateway or a virtual private gateway to a VPC
attach_network_interface	Attaches a network interface to an instance
attach_verified_access_trust_provider	Attaches the specified Amazon Web Services Verified Access Trust Provider to a VPC
attach_volume	Attaches an EBS volume to a running or stopped instance
attach_vpn_gateway	Attaches a virtual private gateway to a VPC
authorize_client_vpn_ingress	Adds an ingress authorization rule to a Client VPN endpoint
authorize_security_group_egress	Adds the specified outbound (egress) rules to a security group
authorize_security_group_ingress	Adds the specified inbound (ingress) rules to a security group
bundle_instance	Bundles an Amazon instance store-backed Windows instance
cancel_bundle_task	Cancels a bundling operation for an instance store-backed Windows instance
cancel_capacity_reservation	Cancels the specified Capacity Reservation, releasing the reserved capacity
cancel_capacity_reservation_fleets	Cancels one or more Capacity Reservation Fleets
cancel_conversion_task	Cancels an active conversion task
cancel_export_task	Cancels an active export task
cancel_image_launch_permission	Removes your Amazon Web Services account from the specified image launch permission
cancel_import_task	Cancels an in-process import virtual machine or operating system image
cancel_reserved_instances_listing	Cancels the specified Reserved Instance listing in your account
cancel_spot_fleet_requests	Cancels the specified Spot Fleet requests
cancel_spot_instance_requests	Cancels one or more Spot Instance requests
confirm_product_instance	Determines whether a product code is associated with the specified instance
copy_fpga_image	Copies the specified Amazon FPGA Image (AFI) to your account
copy_image	Initiates an AMI copy operation
copy_snapshot	Copies a point-in-time snapshot of an EBS volume to your account
create_capacity_reservation	Creates a new Capacity Reservation with the specified parameters
create_capacity_reservation_by_splitting	Create a new Capacity Reservation by splitting the specified Capacity Reservation
create_capacity_reservation_fleet	Creates a Capacity Reservation Fleet
create_carrier_gateway	Creates a carrier gateway
create_client_vpn_endpoint	Creates a Client VPN endpoint
create_client_vpn_route	Adds a route to a network to a Client VPN endpoint
create_coip_cidr	Creates a range of customer-owned IP addresses
create_coip_pool	Creates a pool of customer-owned IP (CoIP) addresses
create_customer_gateway	Provides information to Amazon Web Services about a customer gateway
create_default_subnet	Creates a default subnet with a size /20 IPv4 CIDR block
create_default_vpc	Creates a default VPC with a size /16 IPv4 CIDR block
create_dhcp_options	Creates a custom set of DHCP options
create_egress_only_internet_gateway	[IPv6 only] Creates an egress-only internet gateway
create_fleet	Creates an EC2 Fleet that contains the configuration for a group of instances
create_flow_logs	Creates one or more flow logs to capture network traffic
create_fpga_image	Creates an Amazon FPGA Image (AFI) from the specified image
create_image	Creates an Amazon EBS-backed AMI from an Amazon Machine Image
create_instance_connect_endpoint	Creates an EC2 Instance Connect Endpoint
create_instance_event_window	Creates an event window in which scheduled events can occur
create_instance_export_task	Exports a running or stopped instance to an Amazon Machine Image
create_internet_gateway	Creates an internet gateway for use with a VPC
create_ipam	Create an IPAM

<code>create_ipam_external_resource_verification_token</code>	Create a verification token
<code>create_ipam_pool</code>	Create an IP address pool for Amazon VPC IP Address Manager
<code>create_ipam_resource_discovery</code>	Creates an IPAM resource discovery
<code>create_ipam_scope</code>	Create an IPAM scope
<code>create_key_pair</code>	Creates an ED25519 or 2048-bit RSA key pair with a public key
<code>create_launch_template</code>	Creates a launch template
<code>create_launch_template_version</code>	Creates a new version of a launch template
<code>create_local_gateway_route</code>	Creates a static route for the specified local gateway
<code>create_local_gateway_route_table</code>	Creates a local gateway route table
<code>create_local_gateway_route_table_virtual_interface_group_association</code>	Creates a local gateway route table virtual interface group association
<code>create_local_gateway_route_table_vpc_association</code>	Associates the specified VPC with the specified local gateway route table
<code>create_managed_prefix_list</code>	Creates a managed prefix list
<code>create_nat_gateway</code>	Creates a NAT gateway in the specified subnet
<code>create_network_acl</code>	Creates a network ACL in a VPC
<code>create_network_acl_entry</code>	Creates an entry (a rule) in a network ACL with a rule number
<code>create_network_insights_access_scope</code>	Creates a Network Access Scope
<code>create_network_insights_path</code>	Creates a path to analyze for reachability
<code>create_network_interface</code>	Creates a network interface in the specified subnet
<code>create_network_interface_permission</code>	Grants an Amazon Web Services-authorized account permission to create network interfaces
<code>create_placement_group</code>	Creates a placement group in which to launch instances
<code>create_public_ipv4_pool</code>	Creates a public IPv4 address pool
<code>create_replace_root_volume_task</code>	Replaces the EBS-backed root volume for a running instance
<code>create_reserved_instances_listing</code>	Creates a listing for Amazon EC2 Standard Reserved Instances
<code>create_restore_image_task</code>	Starts a task that restores an AMI from an Amazon S3 bucket
<code>create_route</code>	Creates a route in a route table within a VPC
<code>create_route_table</code>	Creates a route table for the specified VPC
<code>create_security_group</code>	Creates a security group
<code>create_snapshot</code>	Creates a snapshot of an EBS volume and stores it in Amazon S3
<code>create_snapshots</code>	Creates crash-consistent snapshots of multiple EBS volumes
<code>create_spot_datafeed_subscription</code>	Creates a data feed for Spot Instances, enabling you to track Spot Instance activity
<code>create_store_image_task</code>	Stores an AMI as a single object in an Amazon S3 bucket
<code>create_subnet</code>	Creates a subnet in 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 specified resource
<code>create_traffic_mirror_filter</code>	Creates a Traffic Mirror filter
<code>create_traffic_mirror_filter_rule</code>	Creates a Traffic Mirror filter rule
<code>create_traffic_mirror_session</code>	Creates a Traffic Mirror session
<code>create_traffic_mirror_target</code>	Creates a target for your Traffic Mirror session
<code>create_transit_gateway</code>	Creates a transit gateway
<code>create_transit_gateway_connect</code>	Creates a Connect attachment from a specified transit gateway
<code>create_transit_gateway_connect_peer</code>	Creates a Connect peer for a specified transit gateway
<code>create_transit_gateway_multicast_domain</code>	Creates a multicast domain using the specified transit gateway
<code>create_transit_gateway_peering_attachment</code>	Requests a transit gateway peering attachment between two transit gateways
<code>create_transit_gateway_policy_table</code>	Creates a transit gateway policy table
<code>create_transit_gateway_prefix_list_reference</code>	Creates a reference (route) to a prefix list in a specified VPC
<code>create_transit_gateway_route</code>	Creates a static route for the specified transit gateway
<code>create_transit_gateway_route_table</code>	Creates a route table for the specified transit gateway
<code>create_transit_gateway_route_table_announcement</code>	Advertises a new transit gateway route table

<code>create_transit_gateway_vpc_attachment</code>	Attaches the specified VPC to the specified transi
<code>create_verified_access_endpoint</code>	An Amazon Web Services Verified Access endpo
<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 instan
<code>create_verified_access_trust_provider</code>	A trust provider is a third-party entity that create
<code>create_volume</code>	Creates an EBS volume that can be attached to a
<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
<code>create_vpc_endpoint_service_configuration</code>	Creates a VPC endpoint service to which service
<code>create_vpc_peering_connection</code>	Requests a VPC peering connection between two
<code>create_vpn_connection</code>	Creates a VPN connection between an existing v
<code>create_vpn_connection_route</code>	Creates a static route associated with a VPN con
<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) add
<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 Endp
<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_external_resource_verification_token</code>	Delete a verification token
<code>delete_ipam_pool</code>	Delete an IPAM pool
<code>delete_ipam_resource_discovery</code>	Deletes an IPAM resource discovery
<code>delete_ipam_scope</code>	Delete the scope for an IPAM
<code>delete_key_pair</code>	Deletes the specified key pair, by removing the p
<code>delete_launch_template</code>	Deletes a launch template
<code>delete_launch_template_versions</code>	Deletes one or more versions of a launch templat
<code>delete_local_gateway_route</code>	Deletes the specified route from the specified loc
<code>delete_local_gateway_route_table</code>	Deletes a local gateway route table
<code>delete_local_gateway_route_table_virtual_interface_group_association</code>	Deletes a local gateway route table virtual interfa
<code>delete_local_gateway_route_table_vpc_association</code>	Deletes the specified association between a VPC
<code>delete_managed_prefix_list</code>	Deletes the specified managed prefix list
<code>delete_nat_gateway</code>	Deletes the specified NAT gateway
<code>delete_network_acl</code>	Deletes the specified network ACL
<code>delete_network_acl_entry</code>	Deletes the specified ingress or egress entry (rule
<code>delete_network_insights_access_scope</code>	Deletes the specified Network Access Scope
<code>delete_network_insights_access_scope_analysis</code>	Deletes the specified Network Access Scope ana
<code>delete_network_insights_analysis</code>	Deletes the specified network insights analysis
<code>delete_network_insights_path</code>	Deletes the specified path

<code>delete_network_interface</code>	Deletes the specified network interface
<code>delete_network_interface_permission</code>	Deletes a permission for a network interface
<code>delete_placement_group</code>	Deletes the specified placement group
<code>delete_public_ipv4_pool</code>	Delete a public IPv4 pool
<code>delete_queued_reserved_instances</code>	Deletes the queued purchases for the specified R
<code>delete_route</code>	Deletes the specified route from the specified rou
<code>delete_route_table</code>	Deletes the specified route table
<code>delete_security_group</code>	Deletes a security group
<code>delete_snapshot</code>	Deletes the specified snapshot
<code>delete_spot_datafeed_subscription</code>	Deletes the data feed for Spot Instances
<code>delete_subnet</code>	Deletes the specified subnet
<code>delete_subnet_cidr_reservation</code>	Deletes a subnet CIDR reservation
<code>delete_tags</code>	Deletes the specified set of tags from the specifie
<code>delete_traffic_mirror_filter</code>	Deletes the specified Traffic Mirror filter
<code>delete_traffic_mirror_filter_rule</code>	Deletes the specified Traffic Mirror rule
<code>delete_traffic_mirror_session</code>	Deletes the specified Traffic Mirror session
<code>delete_traffic_mirror_target</code>	Deletes the specified Traffic Mirror target
<code>delete_transit_gateway</code>	Deletes the specified transit gateway
<code>delete_transit_gateway_connect</code>	Deletes the specified Connect attachment
<code>delete_transit_gateway_connect_peer</code>	Deletes the specified Connect peer
<code>delete_transit_gateway_multicast_domain</code>	Deletes the specified transit gateway multicast do
<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 spe
<code>delete_transit_gateway_route</code>	Deletes the specified route from the specified tran
<code>delete_transit_gateway_route_table</code>	Deletes the specified transit gateway route table
<code>delete_transit_gateway_route_table_announcement</code>	Advertises to the transit gateway that a transit ga
<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
<code>delete_verified_access_group</code>	Delete an Amazon Web Services Verified Access
<code>delete_verified_access_instance</code>	Delete an Amazon Web Services Verified Access
<code>delete_verified_access_trust_provider</code>	Delete an Amazon Web Services Verified Access
<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 n
<code>delete_vpc_endpoints</code>	Deletes the specified VPC endpoints
<code>delete_vpc_endpoint_service_configurations</code>	Deletes the specified VPC endpoint service confi
<code>delete_vpc_peering_connection</code>	Deletes a VPC peering connection
<code>delete_vpn_connection</code>	Deletes the specified VPN connection
<code>delete_vpn_connection_route</code>	Deletes the specified static route associated with
<code>delete_vpn_gateway</code>	Deletes the specified virtual private gateway
<code>deprovision_byoip_cidr</code>	Releases the specified address range that you pro
<code>deprovision_ipam_byoasn</code>	Deprovisions your Autonomous System Number
<code>deprovision_ipam_pool_cidr</code>	Deprovision a CIDR provisioned from an IPAM
<code>deprovision_public_ipv4_pool_cidr</code>	Deprovision a CIDR from a public IPv4 pool
<code>deregister_image</code>	Deregisters the specified AMI
<code>deregister_instance_event_notification_attributes</code>	Deregisters tag keys to prevent tags that have the
<code>deregister_transit_gateway_multicast_group_members</code>	Deregisters the specified members (network inter

[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](#)  
[describe\\_host\\_reservation\\_offerings](#)  
[describe\\_host\\_reservations](#)  
[describe\\_hosts](#)  
[describe\\_iam\\_instance\\_profile\\_associations](#)  
[describe\\_identity\\_id\\_format](#)  
[describe\\_id\\_format](#)  
[describe\\_image\\_attribute](#)  
[describe\\_images](#)  
[describe\\_import\\_image\\_tasks](#)  
[describe\\_import\\_snapshot\\_tasks](#)  
[describe\\_instance\\_attribute](#)  
[describe\\_instance\\_connect\\_endpoints](#)

Deregisters the specified sources (network interfaces) for the specified transit gateway.  
 Describes attributes of your Amazon Web Services account.  
 Describes the specified Elastic IP addresses or all of your Elastic IP addresses.  
 Describes the attributes of the specified Elastic IP address.  
 Describes an Elastic IP address transfer.  
 Describes the longer ID format settings for all resources.  
 Describes the Availability Zones, Local Zones, and Outposts in your region.  
 Describes the current Infrastructure Performance Metrics subscriptions for your account.  
 Describes the specified bundle tasks or all of your bundle tasks.  
 Describes the IP address ranges that were specified in your account.  
 Describes Capacity Block offerings available for your account.  
 Describes one or more Capacity Reservation Fleets in your account.  
 Describes one or more of your Capacity Reservations.  
 Describes one or more of your carrier gateways.  
 This action is deprecated.  
 Describes the authorization rules for a specified Client VPN connection.  
 Describes active client connections and connections in the process of being established.  
 Describes one or more Client VPN endpoints in your account.  
 Describes the routes for the specified Client VPN connection.  
 Describes the target networks associated with the specified Client VPN connection.  
 Describes the specified customer-owned address pools.  
 Describes the specified conversion tasks or all of your conversion tasks.  
 Describes one or more of your VPN customer gateways.  
 Describes your DHCP option sets.  
 Describes your egress-only internet gateways.  
 Amazon Elastic Graphics reached end of life on 12/31/2023. For more information, see [Amazon Elastic Graphics End of Life](#).  
 Describes the specified export image tasks or all of your export image tasks.  
 Describes the specified export instance tasks or all of your export instance tasks.  
 Describe details for Windows AMIs that are configured for fast launch.  
 Describes the state of fast snapshot restores for your account.  
 Describes the events for the specified EC2 Fleet or all of your EC2 Fleets.  
 Describes the running instances for the specified EC2 Fleet or all of your EC2 Fleets.  
 Describes the specified EC2 Fleet or all of your EC2 Fleets.  
 Describes one or more flow logs.  
 Describes the specified attribute of the specified Amazon FPGA Image (AFI).  
 Describes the Amazon FPGA Images (AFIs) available in your account.  
 Describes the Dedicated Host reservations that are associated with the specified EC2 instance.  
 Describes reservations that are associated with Dedicated Hosts.  
 Describes the specified Dedicated Hosts or all of your Dedicated Hosts.  
 Describes your IAM instance profile associations.  
 Describes the ID format settings for resources for your account.  
 Describes the ID format settings for your resources.  
 Describes the specified attribute of the specified image.  
 Describes the specified images (AMIs, AKIs, and Snapshots) in your account.  
 Displays details about an import virtual machine image task.  
 Describes your import snapshot tasks.  
 Describes the specified attribute of the specified instance.  
 Describes the specified EC2 Instance Connect Endpoint or all of your 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 instance
<code>describe_instance_event_windows</code>	Describes the specified event windows or all event windows for the specified instance
<code>describe_instances</code>	Describes the specified instances or all instances in your account
<code>describe_instance_status</code>	Describes the status of the specified instances or all instances in your account
<code>describe_instance_topology</code>	Describes a tree-based hierarchy that represents the topology of the specified instances
<code>describe_instance_type_offerings</code>	Lists the instance types that are offered for the specified region and availability zone
<code>describe_instance_types</code>	Describes the specified instance types
<code>describe_internet_gateways</code>	Describes your internet gateways
<code>describe_ipam_byoasn</code>	Describes your Autonomous System Numbers (ASNs) that are associated with your IPAM pools
<code>describe_ipam_external_resource_verification_tokens</code>	Describe verification tokens
<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 Amazon Route 53
<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_mac_hosts</code>	Describes the specified EC2 Mac Dedicated Hosts
<code>describe_managed_prefix_lists</code>	Describes your managed prefix lists and any Amazon Route 53 Managed Prefix Lists
<code>describe_moving_addresses</code>	This action is deprecated
<code>describe_nat_gateways</code>	Describes your NAT gateways
<code>describe_network_acls</code>	Describes your network ACLs
<code>describe_network_insights_access_scope_analyses</code>	Describes the specified Network Access Scope analyses
<code>describe_network_insights_access_scopes</code>	Describes the specified Network Access Scopes
<code>describe_network_insights_analyses</code>	Describes one or more of your network insights analyses
<code>describe_network_insights_paths</code>	Describes one or more of your paths
<code>describe_network_interface_attribute</code>	Describes a network interface attribute
<code>describe_network_interface_permissions</code>	Describes the permissions for your network interfaces
<code>describe_network_interfaces</code>	Describes one or more of your network interfaces
<code>describe_placement_groups</code>	Describes the specified placement groups or all placement groups in your account
<code>describe_prefix_lists</code>	Describes available Amazon Web Services service prefix lists
<code>describe_principal_id_format</code>	Describes the ID format settings for the root user
<code>describe_public_ipv4_pools</code>	Describes the specified IPv4 address pools
<code>describe_regions</code>	Describes the Regions that are enabled for your account
<code>describe_replace_root_volume_tasks</code>	Describes a root volume replacement task
<code>describe_reserved_instances</code>	Describes one or more of the Reserved Instances in your account
<code>describe_reserved_instances_listings</code>	Describes your account's Reserved Instance listings
<code>describe_reserved_instances_modifications</code>	Describes the modifications made to your Reserved Instances

<a href="#">describe_reserved_instances_offerings</a>	Describes Reserved Instance offerings that are available
<a href="#">describe_route_tables</a>	Describes your route tables
<a href="#">describe_scheduled_instance_availability</a>	Finds available schedules that meet the specified criteria
<a href="#">describe_scheduled_instances</a>	Describes the specified Scheduled Instances or all of your Scheduled Instances
<a href="#">describe_security_group_references</a>	Describes the VPCs on the other side of a VPC peering connection
<a href="#">describe_security_group_rules</a>	Describes one or more of your security group rules
<a href="#">describe_security_groups</a>	Describes the specified security groups or all of your security groups
<a href="#">describe_snapshot_attribute</a>	Describes the specified attribute of the specified EBS snapshots
<a href="#">describe_snapshots</a>	Describes the specified EBS snapshots available to you
<a href="#">describe_snapshot_tier_status</a>	Describes the storage tier status of one or more Amazon EBS snapshots
<a href="#">describe_spot_datafeed_subscription</a>	Describes the data feed for Spot Instances
<a href="#">describe_spot_fleet_instances</a>	Describes the running instances for the specified Spot Fleet
<a href="#">describe_spot_fleet_request_history</a>	Describes the events for the specified Spot Fleet request
<a href="#">describe_spot_fleet_requests</a>	Describes your Spot Fleet requests
<a href="#">describe_spot_instance_requests</a>	Describes the specified Spot Instance requests
<a href="#">describe_spot_price_history</a>	Describes the Spot price history
<a href="#">describe_stale_security_groups</a>	Describes the stale security group rules for security groups
<a href="#">describe_store_image_tasks</a>	Describes the progress of the AMI store tasks
<a href="#">describe_subnets</a>	Describes your subnets
<a href="#">describe_tags</a>	Describes the specified tags for your EC2 resources
<a href="#">describe_traffic_mirror_filter_rules</a>	Describe traffic mirror filters that determine the traffic to be mirrored
<a href="#">describe_traffic_mirror_filters</a>	Describes one or more Traffic Mirror filters
<a href="#">describe_traffic_mirror_sessions</a>	Describes one or more Traffic Mirror sessions
<a href="#">describe_traffic_mirror_targets</a>	Information about one or more Traffic Mirror targets
<a href="#">describe_transit_gateway_attachments</a>	Describes one or more attachments between resources
<a href="#">describe_transit_gateway_connect_peers</a>	Describes one or more Connect peers
<a href="#">describe_transit_gateway_connects</a>	Describes one or more Connect attachments
<a href="#">describe_transit_gateway_multicast_domains</a>	Describes one or more transit gateway multicast domains
<a href="#">describe_transit_gateway_peering_attachments</a>	Describes your transit gateway peering attachments
<a href="#">describe_transit_gateway_policy_tables</a>	Describes one or more transit gateway route policy tables
<a href="#">describe_transit_gateway_route_table_announcements</a>	Describes one or more transit gateway route table announcements
<a href="#">describe_transit_gateway_route_tables</a>	Describes one or more transit gateway route tables
<a href="#">describe_transit_gateways</a>	Describes one or more transit gateways
<a href="#">describe_transit_gateway_vpc_attachments</a>	Describes one or more VPC attachments
<a href="#">describe_trunk_interface_associations</a>	Describes one or more network interface trunk associations
<a href="#">describe_verified_access_endpoints</a>	Describes the specified Amazon Web Services Verified Access endpoints
<a href="#">describe_verified_access_groups</a>	Describes the specified Verified Access groups
<a href="#">describe_verified_access_instance_logging_configurations</a>	Describes the specified Amazon Web Services Verified Access instance logging configurations
<a href="#">describe_verified_access_instances</a>	Describes the specified Amazon Web Services Verified Access instances
<a href="#">describe_verified_access_trust_providers</a>	Describes the specified Amazon Web Services Verified Access trust providers
<a href="#">describe_volume_attribute</a>	Describes the specified attribute of the specified EBS volumes
<a href="#">describe_volumes</a>	Describes the specified EBS volumes or all of your EBS volumes
<a href="#">describe_volumes_modifications</a>	Describes the most recent volume modification records
<a href="#">describe_volume_status</a>	Describes the status of the specified volumes
<a href="#">describe_vpc_attribute</a>	Describes the specified attribute of the specified VPC
<a href="#">describe_vpc_classic_link</a>	This action is deprecated
<a href="#">describe_vpc_classic_link_dns_support</a>	This action is deprecated
<a href="#">describe_vpc_endpoint_connection_notifications</a>	Describes the connection notifications for VPC endpoints

<code>describe_vpc_endpoint_connections</code>	Describes the VPC endpoint connections to your
<code>describe_vpc_endpoints</code>	Describes your VPC endpoints
<code>describe_vpc_endpoint_service_configurations</code>	Describes the VPC endpoint service configurations
<code>describe_vpc_endpoint_service_permissions</code>	Describes the principals (service consumers) that
<code>describe_vpc_endpoint_services</code>	Describes available services to which you can cr
<code>describe_vpc_peering_connections</code>	Describes your VPC peering connections
<code>describe_vpcs</code>	Describes your VPCs
<code>describe_vpn_connections</code>	Describes one or more of your VPN connections
<code>describe_vpn_gateways</code>	Describes one or more of your virtual private gat
<code>detach_classic_link_vpc</code>	This action is deprecated
<code>detach_internet_gateway</code>	Detaches an internet gateway from a VPC, disab
<code>detach_network_interface</code>	Detaches a network interface from an instance
<code>detach_verified_access_trust_provider</code>	Detaches the specified Amazon Web Services Ve
<code>detach_volume</code>	Detaches an EBS volume from an instance
<code>detach_vpn_gateway</code>	Detaches a virtual private gateway from a VPC
<code>disable_address_transfer</code>	Disables Elastic IP address transfer
<code>disable_aws_network_performance_metric_subscription</code>	Disables Infrastructure Performance metric subsc
<code>disable_ebs_encryption_by_default</code>	Disables EBS encryption by default for your acco
<code>disable_fast_launch</code>	Discontinue Windows fast launch for a Windows
<code>disable_fast_snapshot_restores</code>	Disables fast snapshot restores for the specified s
<code>disable_image</code>	Sets the AMI state to disabled and removes all la
<code>disable_image_block_public_access</code>	Disables block public access for AMIs at the acc
<code>disable_image_deprecation</code>	Cancel the deprecation of the specified AMI
<code>disable_image_deregistration_protection</code>	Disables deregistration protection for an AMI
<code>disable_ipam_organization_admin_account</code>	Disable the IPAM account
<code>disable_serial_console_access</code>	Disables access to the EC2 serial console of all in
<code>disable_snapshot_block_public_access</code>	Disables the block public access for snapshots se
<code>disable_transit_gateway_route_table_propagation</code>	Disables the specified resource attachment from
<code>disable_vgw_route_propagation</code>	Disables a virtual private gateway (VGW) from p
<code>disable_vpc_classic_link</code>	This action is deprecated
<code>disable_vpc_classic_link_dns_support</code>	This action is deprecated
<code>disassociate_address</code>	Disassociates an Elastic IP address from the insta
<code>disassociate_client_vpn_target_network</code>	Disassociates a target network from the specified
<code>disassociate_enclave_certificate_iam_role</code>	Disassociates an IAM role from an Certificate M
<code>disassociate_iam_instance_profile</code>	Disassociates an IAM instance profile from a run
<code>disassociate_instance_event_window</code>	Disassociates one or more targets from an event
<code>disassociate_ipam_byoasn</code>	Remove the association between your Autonomo
<code>disassociate_ipam_resource_discovery</code>	Disassociates a resource discovery from an Ama
<code>disassociate_nat_gateway_address</code>	Disassociates secondary Elastic IP addresses (ED
<code>disassociate_route_table</code>	Disassociates a subnet or gateway from a route ta
<code>disassociate_subnet_cidr_block</code>	Disassociates a CIDR block from a subnet
<code>disassociate_transit_gateway_multicast_domain</code>	Disassociates the specified subnets from the trans
<code>disassociate_transit_gateway_policy_table</code>	Removes the association between an an attachme
<code>disassociate_transit_gateway_route_table</code>	Disassociates a resource attachment from a trans
<code>disassociate_trunk_interface</code>	Removes an association between a branch netwo
<code>disassociate_vpc_cidr_block</code>	Disassociates a CIDR block from a VPC
<code>enable_address_transfer</code>	Enables Elastic IP address transfer
<code>enable_aws_network_performance_metric_subscription</code>	Enables Infrastructure Performance subscriptions



enable\_ebs\_encryption\_by\_default  
 enable\_fast\_launch  
 enable\_fast\_snapshot\_restores  
 enable\_image  
 enable\_image\_block\_public\_access  
 enable\_image\_deprecation  
 enable\_image\_deregistration\_protection  
 enable\_ipam\_organization\_admin\_account  
 enable\_reachability\_analyzer\_organization\_sharing  
 enable\_serial\_console\_access  
 enable\_snapshot\_block\_public\_access  
 enable\_transit\_gateway\_route\_table\_propagation  
 enable\_vgw\_route\_propagation  
 enable\_volume\_io  
 enable\_vpc\_classic\_link  
 enable\_vpc\_classic\_link\_dns\_support  
 export\_client\_vpn\_client\_certificate\_revocation\_list  
 export\_client\_vpn\_client\_configuration  
 export\_image  
 export\_transit\_gateway\_routes  
 get\_associated\_enclave\_certificate\_iam\_roles  
 get\_associated\_ipv\_6\_pool\_cidrs  
 get\_aws\_network\_performance\_data  
 get\_capacity\_reservation\_usage  
 get\_coip\_pool\_usage  
 get\_console\_output  
 get\_console\_screenshot  
 get\_default\_credit\_specification  
 get\_ebs\_default\_kms\_key\_id  
 get\_ebs\_encryption\_by\_default  
 get\_flow\_logs\_integration\_template  
 get\_groups\_for\_capacity\_reservation  
 get\_host\_reservation\_purchase\_preview  
 get\_image\_block\_public\_access\_state  
 get\_instance\_metadata\_defaults  
 get\_instance\_tpm\_ek\_public\_key  
 get\_instance\_types\_from\_instance\_requirements  
 get\_instance\_uefi\_data  
 get\_ipam\_address\_history  
 get\_ipam\_discovered\_accounts  
 get\_ipam\_discovered\_public\_addresses  
 get\_ipam\_discovered\_resource\_cidrs  
 get\_ipam\_pool\_allocations  
 get\_ipam\_pool\_cidrs  
 get\_ipam\_resource\_cidrs  
 get\_launch\_template\_data  
 get\_managed\_prefix\_list\_associations  
 get\_managed\_prefix\_list\_entries

Enables EBS encryption by default for your account  
 When you enable Windows fast launch for a Windows instance  
 Enables fast snapshot restores for the specified snapshot  
 Re-enables a disabled AMI  
 Enables block public access for AMIs at the account level  
 Enables deprecation of the specified AMI at the account level  
 Enables deregistration protection for an AMI  
 Enable an Organizations member account as the administrator  
 Establishes a trust relationship between Reachability Analyzer and your account  
 Enables access to the EC2 serial console of all instances in the account  
 Enables or modifies the block public access for snapshots  
 Enables the specified attachment to propagate routes  
 Enables a virtual private gateway (VGW) to propagate routes  
 Enables I/O operations for a volume that had I/O throttling  
 This action is deprecated  
 This action is deprecated  
 Downloads the client certificate revocation list for a Client VPN endpoint  
 Downloads the contents of the Client VPN endpoint configuration  
 Exports an Amazon Machine Image (AMI) to a virtual private cloud (VPC)  
 Exports routes from the specified transit gateway to a VPC  
 Returns the IAM roles that are associated with the specified instance profile  
 Gets information about the IPv6 CIDR block associated with the specified IPAM pool  
 Gets network performance data  
 Gets usage information about a Capacity Reservation  
 Describes the allocations from the specified customer managed IPAM pool  
 Gets the console output for the specified instance  
 Retrieve a JPG-format screenshot of a running instance  
 Describes the default credit option for CPU usage  
 Describes the default KMS key for EBS encryption  
 Describes whether EBS encryption by default is enabled for the account  
 Generates a CloudFormation template that streams logs to Amazon CloudWatch  
 Lists the resource groups to which a Capacity Reservation is associated  
 Preview a reservation purchase with configuration options  
 Gets the current state of block public access for an AMI  
 Gets the default instance metadata service (IMDS) version  
 Gets the public endorsement key associated with the specified instance profile  
 Returns a list of instance types with the specified characteristics  
 A binary representation of the UEFI variable stored in the instance  
 Retrieve historical information about a CIDR with IPAM  
 Gets IPAM discovered accounts  
 Gets the public IP addresses that have been discovered by IPAM  
 Returns the resource CIDRs that are monitored by IPAM  
 Get a list of all the CIDR allocations in an IPAM pool  
 Get the CIDRs provisioned to an IPAM pool  
 Returns resource CIDRs managed by IPAM in a VPC  
 Retrieves the configuration data of the specified instance profile  
 Gets information about the resources that are associated with the specified prefix list  
 Gets information about the entries for a specified prefix list

get\_network\_insights\_access\_scope\_analysis\_findings  
 get\_network\_insights\_access\_scope\_content  
 get\_password\_data  
 get\_reserved\_instances\_exchange\_quote  
 get\_security\_groups\_for\_vpc  
 get\_serial\_console\_access\_status  
 get\_snapshot\_block\_public\_access\_state  
 get\_spot\_placement\_scores  
 get\_subnet\_cidr\_reservations  
 get\_transit\_gateway\_attachment\_propagations  
 get\_transit\_gateway\_multicast\_domain\_associations  
 get\_transit\_gateway\_policy\_table\_associations  
 get\_transit\_gateway\_policy\_table\_entries  
 get\_transit\_gateway\_prefix\_list\_references  
 get\_transit\_gateway\_route\_table\_associations  
 get\_transit\_gateway\_route\_table\_propagations  
 get\_verified\_access\_endpoint\_policy  
 get\_verified\_access\_group\_policy  
 get\_vpn\_connection\_device\_sample\_configuration  
 get\_vpn\_connection\_device\_types  
 get\_vpn\_tunnel\_replacement\_status  
 import\_client\_vpn\_client\_certificate\_revocation\_list  
 import\_image  
 import\_instance  
 import\_key\_pair  
 import\_snapshot  
 import\_volume  
 list\_images\_in\_recycle\_bin  
 list\_snapshots\_in\_recycle\_bin  
 lock\_snapshot  
 modify\_address\_attribute  
 modify\_availability\_zone\_group  
 modify\_capacity\_reservation  
 modify\_capacity\_reservation\_fleet  
 modify\_client\_vpn\_endpoint  
 modify\_default\_credit\_specification  
 modify\_ebs\_default\_kms\_key\_id  
 modify\_fleet  
 modify\_fpga\_image\_attribute  
 modify\_hosts  
 modify\_identity\_id\_format  
 modify\_id\_format  
 modify\_image\_attribute  
 modify\_instance\_attribute  
 modify\_instance\_capacity\_reservation\_attributes  
 modify\_instance\_credit\_specification  
 modify\_instance\_event\_start\_time  
 modify\_instance\_event\_window

Gets the findings for the specified Network Access  
 Gets the content for the specified Network Access  
 Retrieves the encrypted administrator password f  
 Returns a quote and exchange information for ex  
 Gets security groups that can be associated by th  
 Retrieves the access status of your account to the  
 Gets the current state of block public access for s  
 Calculates the Spot placement score for a Region  
 Gets information about the subnet CIDR reservat  
 Lists the route tables to which the specified resou  
 Gets information about the associations for the tr  
 Gets a list of the transit gateway policy table asso  
 Returns a list of transit gateway policy table entri  
 Gets information about the prefix list references  
 Gets information about the associations for the sp  
 Gets information about the route table propagatio  
 Get the Verified Access policy associated with th  
 Shows the contents of the Verified Access policy  
 Download an Amazon Web Services-provided sa  
 Obtain a list of customer gateway devices for wh  
 Get details of available tunnel endpoint maintenanc  
 Uploads a client certificate revocation list to the s  
 To import your virtual machines (VMs) with a co  
 We recommend that you use the ImportImage API  
 Imports the public key from an RSA or ED25519  
 Imports a disk into an EBS snapshot  
 Creates an import volume task using metadata fro  
 Lists one or more AMIs that are currently in the  
 Lists one or more snapshots that are currently in  
 Locks an Amazon EBS snapshot in either govern  
 Modifies an attribute of the specified Elastic IP a  
 Changes the opt-in status of the specified zone gr  
 Modifies a Capacity Reservation's capacity, insta  
 Modifies a Capacity Reservation Fleet  
 Modifies the specified Client VPN endpoint  
 Modifies the default credit option for CPU usage  
 Changes the default KMS key for EBS encryption  
 Modifies the specified EC2 Fleet  
 Modifies the specified attribute of the specified A  
 Modify the auto-placement setting of a Dedicated  
 Modifies the ID format of a resource for a specifi  
 Modifies the ID format for the specified resource  
 Modifies the specified attribute of the specified A  
 Modifies the specified attribute of the specified in  
 Modifies the Capacity Reservation settings for a  
 Modifies the credit option for CPU usage on a ru  
 Modifies the start time for a scheduled Amazon I  
 Modifies the specified event window

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

move_address_to_vpc	This action is deprecated
move_byoip_cidr_to_ipam	Move a BYOIPv4 CIDR to IPAM from a public IP address
move_capacity_reservation_instances	Move available capacity from a source Capacity Reservation to a target Capacity Reservation
provision_byoip_cidr	Provisions an IPv4 or IPv6 address range for use with your own IP address space
provision_ipam_byoasn	Provisions your Autonomous System Number (ASN) to IPAM
provision_ipam_pool_cidr	Provision a CIDR to an IPAM pool
provision_public_ipv4_pool_cidr	Provision a CIDR to a public IPv4 pool
purchase_capacity_block	Purchase the Capacity Block for use with your account
purchase_host_reservation	Purchase a reservation with configurations that match your requirements
purchase_reserved_instances_offering	Purchases a Reserved Instance for use with your account
purchase_scheduled_instances	You can no longer purchase Scheduled Instances
reboot_instances	Requests a reboot of the specified instances
register_image	Registers an AMI
register_instance_event_notification_attributes	Registers a set of tag keys to include in scheduled events
register_transit_gateway_multicast_group_members	Registers members (network interfaces) with the specified transit gateway
register_transit_gateway_multicast_group_sources	Registers sources (network interfaces) with the specified transit gateway
reject_transit_gateway_multicast_domain_associations	Rejects a request to associate cross-account subnets with a transit gateway
reject_transit_gateway_peering_attachment	Rejects a transit gateway peering attachment request
reject_transit_gateway_vpc_attachment	Rejects a request to attach a VPC to a transit gateway
reject_vpc_endpoint_connections	Rejects VPC endpoint connection requests to your VPC
reject_vpc_peering_connection	Rejects a VPC peering connection request
release_address	Releases the specified Elastic IP address
release_hosts	When you no longer want to use an On-Demand Capacity Block, you can release the hosts
release_ipam_pool_allocation	Release an allocation within an IPAM pool
replace_iam_instance_profile_association	Replaces an IAM instance profile for the specified instance
replace_network_acl_association	Changes which network ACL a subnet is associated with
replace_network_acl_entry	Replaces an entry (rule) in a network ACL
replace_route	Replaces an existing route within a route table
replace_route_table_association	Changes the route table associated with a given subnet
replace_transit_gateway_route	Replaces the specified route in the specified transit gateway
replace_vpn_tunnel	Trigger replacement of specified VPN tunnel
report_instance_status	Submits feedback about the status of an instance
request_spot_fleet	Creates a Spot Fleet request
request_spot_instances	Creates a Spot Instance request
reset_address_attribute	Resets the attribute of the specified IP address
reset_ebs_default_kms_key_id	Resets the default KMS key for EBS encryption
reset_fpga_image_attribute	Resets the specified attribute of the specified Amazon FPGA Image (AFI)
reset_image_attribute	Resets an attribute of an AMI to its default value
reset_instance_attribute	Resets an attribute of an instance to its default value
reset_network_interface_attribute	Resets a network interface attribute
reset_snapshot_attribute	Resets permission settings for the specified snapshot
restore_address_to_classic	This action is deprecated
restore_image_from_recycle_bin	Restores an AMI from the Recycle Bin
restore_managed_prefix_list_version	Restores the entries from a previous version of a managed prefix list
restore_snapshot_from_recycle_bin	Restores a snapshot from the Recycle Bin
restore_snapshot_tier	Restores an archived Amazon EBS snapshot for use with your account
revoke_client_vpn_ingress	Removes an ingress authorization rule from a Client VPN connection
revoke_security_group_egress	Removes the specified outbound (egress) rules from a security group

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

## Examples

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

## End(Not run)
```

---

ec2instanceconnect      *AWS EC2 Instance Connect*

---

## Description

This is the *Amazon EC2 Instance Connect API Reference*. It provides descriptions, syntax, and usage examples for each of the actions for Amazon EC2 Instance Connect. Amazon EC2 Instance Connect enables system administrators to publish one-time use SSH public keys to EC2, providing users a simple and secure way to connect to their instances.

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

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

**Usage**

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

**Arguments**

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

<a href="#">send_serial_console_ssh_public_key</a>	Pushes an SSH public key to the specified EC2 instance
<a href="#">send_ssh_public_key</a>	Pushes an SSH public key to the specified EC2 instance for use by the specified user

**Examples**

```

## Not run:
svc <- ec2instanceconnect()
# The following example pushes a sample SSH public key to the EC2 instance
# i-abcd1234 in AZ us-west-2b for use by the instance OS user ec2-user.
svc$send_ssh_public_key(
  AvailabilityZone = "us-west-2a",
  InstanceId = "i-abcd1234",

```

```

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

## End(Not run)

```

---

 ecr

 Amazon EC2 Container Registry
 

---

## Description

Amazon Elastic Container Registry

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

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

## Usage

```
ecr(config = list(), 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"> <li>• <b>sts_regional_endpoint</b>: Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	<p>Optional credentials shorthand for the config parameter</p> <ul style="list-style-type: none"> <li>• <b>creds</b>: <ul style="list-style-type: none"> <li>– <b>access_key_id</b>: AWS access key ID</li> <li>– <b>secret_access_key</b>: AWS secret access key</li> <li>– <b>session_token</b>: AWS temporary session token</li> </ul> </li> <li>• <b>profile</b>: The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous</b>: Set anonymous credentials.</li> </ul>
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

<a href="#">batch_check_layer_availability</a>	Checks the availability of one or more image layers in a repository
<a href="#">batch_delete_image</a>	Deletes a list of specified images within a repository
<a href="#">batch_get_image</a>	Gets detailed information for an image
<a href="#">batch_get_repository_scanning_configuration</a>	Gets the scanning configuration for one or more repositories
<a href="#">complete_layer_upload</a>	Notifies Amazon ECR that the image layer upload has completed for a specified repository
<a href="#">create_pull_through_cache_rule</a>	Creates a pull through cache rule
<a href="#">create_repository</a>	Creates a repository
<a href="#">create_repository_creation_template</a>	Creates a repository creation template
<a href="#">delete_lifecycle_policy</a>	Deletes the lifecycle policy associated with the specified repository
<a href="#">delete_pull_through_cache_rule</a>	Deletes a pull through cache rule
<a href="#">delete_registry_policy</a>	Deletes the registry permissions policy
<a href="#">delete_repository</a>	Deletes a repository
<a href="#">delete_repository_creation_template</a>	Deletes a repository creation template
<a href="#">delete_repository_policy</a>	Deletes the repository policy associated with the specified repository
<a href="#">describe_image_replication_status</a>	Returns the replication status for a specified image
<a href="#">describe_images</a>	Returns metadata about the images in a repository
<a href="#">describe_image_scan_findings</a>	Returns the scan findings for the specified image
<a href="#">describe_pull_through_cache_rules</a>	Returns the pull through cache rules for a registry
<a href="#">describe_registry</a>	Describes the settings for a registry
<a href="#">describe_repositories</a>	Describes image repositories in a registry
<a href="#">describe_repository_creation_templates</a>	Returns details about the repository creation templates in a registry
<a href="#">get_account_setting</a>	Retrieves the basic scan type version name
<a href="#">get_authorization_token</a>	Retrieves an authorization token
<a href="#">get_download_url_for_layer</a>	Retrieves the pre-signed Amazon S3 download URL corresponding to an image layer
<a href="#">get_lifecycle_policy</a>	Retrieves the lifecycle policy for the specified repository
<a href="#">get_lifecycle_policy_preview</a>	Retrieves the results of the lifecycle policy preview request for the specified repository
<a href="#">get_registry_policy</a>	Retrieves the permissions policy for a registry
<a href="#">get_registry_scanning_configuration</a>	Retrieves the scanning configuration for a registry
<a href="#">get_repository_policy</a>	Retrieves the repository policy for the specified repository
<a href="#">initiate_layer_upload</a>	Notifies Amazon ECR that you intend to upload an image layer
<a href="#">list_images</a>	Lists all the image IDs for the specified repository
<a href="#">list_tags_for_resource</a>	List the tags for an Amazon ECR resource
<a href="#">put_account_setting</a>	Allows you to change the basic scan type version by setting the name parameter
<a href="#">put_image</a>	Creates or updates the image manifest and tags associated with an image
<a href="#">put_image_scanning_configuration</a>	The PutImageScanningConfiguration API is being deprecated, in favor of <a href="#">put_image_tag_mutability</a>
<a href="#">put_image_tag_mutability</a>	Updates the image tag mutability settings for the specified repository
<a href="#">put_lifecycle_policy</a>	Creates or updates the lifecycle policy for the specified repository
<a href="#">put_registry_policy</a>	Creates or updates the permissions policy for your registry
<a href="#">put_registry_scanning_configuration</a>	Creates or updates the scanning configuration for your private registry
<a href="#">put_replication_configuration</a>	Creates or updates the replication configuration for a registry

<a href="#">set_repository_policy</a>	Applies a repository policy to the specified repository to control access permissions
<a href="#">start_image_scan</a>	Starts an image vulnerability scan
<a href="#">start_lifecycle_policy_preview</a>	Starts a preview of a lifecycle policy for the specified repository
<a href="#">tag_resource</a>	Adds specified tags to a resource with the specified ARN
<a href="#">untag_resource</a>	Deletes specified tags from a resource
<a href="#">update_pull_through_cache_rule</a>	Updates an existing pull through cache rule
<a href="#">update_repository_creation_template</a>	Updates an existing repository creation template
<a href="#">upload_layer_part</a>	Uploads an image layer part to Amazon ECR
<a href="#">validate_pull_through_cache_rule</a>	Validates an existing pull through cache rule for an upstream registry that requires authentication

## Examples

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

## End(Not run)
```

---

ecrpublic

*Amazon Elastic Container Registry Public*

---

## Description

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

## Usage

```
ecrpublic(
  config = list(),
  credentials = list(),
```

```

    endpoint = NULL,
    region = NULL
)

```

## Arguments

config	Optional configuration of credentials, endpoint, and/or region. <ul style="list-style-type: none"> <li>• <b>credentials:</b> <ul style="list-style-type: none"> <li>– <b>creds:</b> <ul style="list-style-type: none"> <li>* <b>access_key_id:</b> AWS access key ID</li> <li>* <b>secret_access_key:</b> AWS secret access key</li> <li>* <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>– <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>– <b>anonymous:</b> Set anonymous credentials.</li> </ul> </li> <li>• <b>endpoint:</b> The complete URL to use for the constructed client.</li> <li>• <b>region:</b> The AWS Region used in instantiating the client.</li> <li>• <b>close_connection:</b> Immediately close all HTTP connections.</li> <li>• <b>timeout:</b> The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.</li> <li>• <b>s3_force_path_style:</b> 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>.</li> <li>• <b>sts_regional_endpoint:</b> Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> <li>• <b>creds:</b> <ul style="list-style-type: none"> <li>– <b>access_key_id:</b> AWS access key ID</li> <li>– <b>secret_access_key:</b> AWS secret access key</li> <li>– <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>• <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous:</b> Set anonymous credentials.</li> </ul>
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**

<a href="#">batch_check_layer_availability</a>	Checks the availability of one or more image layers that are within a repository in a public registry
<a href="#">batch_delete_image</a>	Deletes a list of specified images that are within a repository in a public registry
<a href="#">complete_layer_upload</a>	Informs Amazon ECR that the image layer upload is complete for a specified public registry
<a href="#">create_repository</a>	Creates a repository in a public registry
<a href="#">delete_repository</a>	Deletes a repository in a public registry
<a href="#">delete_repository_policy</a>	Deletes the repository policy that's associated with the specified repository
<a href="#">describe_images</a>	Returns metadata that's related to the images in a repository in a public registry
<a href="#">describe_image_tags</a>	Returns the image tag details for a repository in a public registry
<a href="#">describe_registries</a>	Returns details for a public registry
<a href="#">describe_repositories</a>	Describes repositories that are in a public registry
<a href="#">get_authorization_token</a>	Retrieves an authorization token
<a href="#">get_registry_catalog_data</a>	Retrieves catalog metadata for a public registry
<a href="#">get_repository_catalog_data</a>	Retrieve catalog metadata for a repository in a public registry

<a href="#">get_repository_policy</a>	Retrieves the repository policy for the specified repository
<a href="#">initiate_layer_upload</a>	Notifies Amazon ECR that you intend to upload an image layer
<a href="#">list_tags_for_resource</a>	List the tags for an Amazon ECR Public resource
<a href="#">put_image</a>	Creates or updates the image manifest and tags that are associated with an image
<a href="#">put_registry_catalog_data</a>	Create or update the catalog data for a public registry
<a href="#">put_repository_catalog_data</a>	Creates or updates the catalog data for a repository in a public registry
<a href="#">set_repository_policy</a>	Applies a repository policy to the specified public repository to control access permissions
<a href="#">tag_resource</a>	Associates the specified tags to a resource with the specified resourceArn
<a href="#">untag_resource</a>	Deletes specified tags from a resource
<a href="#">upload_layer_part</a>	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. <ul style="list-style-type: none"> <li>• <b>credentials:</b> <ul style="list-style-type: none"> <li>– <b>creds:</b> <ul style="list-style-type: none"> <li>* <b>access_key_id:</b> AWS access key ID</li> <li>* <b>secret_access_key:</b> AWS secret access key</li> <li>* <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>– <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>– <b>anonymous:</b> Set anonymous credentials.</li> </ul> </li> <li>• <b>endpoint:</b> The complete URL to use for the constructed client.</li> <li>• <b>region:</b> The AWS Region used in instantiating the client.</li> <li>• <b>close_connection:</b> Immediately close all HTTP connections.</li> <li>• <b>timeout:</b> The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.</li> <li>• <b>s3_force_path_style:</b> 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>.</li> <li>• <b>sts_regional_endpoint:</b> Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> <li>• <b>creds:</b> <ul style="list-style-type: none"> <li>– <b>access_key_id:</b> AWS access key ID</li> <li>– <b>secret_access_key:</b> AWS secret access key</li> <li>– <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>• <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous:</b> Set anonymous credentials.</li> </ul>
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

<a href="#">create_capacity_provider</a>	Creates a new capacity provider
<a href="#">create_cluster</a>	Creates a new Amazon ECS cluster
<a href="#">create_service</a>	Runs and maintains your desired number of tasks from a specified task definition
<a href="#">create_task_set</a>	Create a task set in the specified cluster and service
<a href="#">delete_account_setting</a>	Disables an account setting for a specified user, role, or the root user for an account
<a href="#">delete_attributes</a>	Deletes one or more custom attributes from an Amazon ECS resource
<a href="#">delete_capacity_provider</a>	Deletes the specified capacity provider
<a href="#">delete_cluster</a>	Deletes the specified cluster
<a href="#">delete_service</a>	Deletes a specified service within a cluster
<a href="#">delete_task_definitions</a>	Deletes one or more task definitions
<a href="#">delete_task_set</a>	Deletes a specified task set within a service
<a href="#">deregister_container_instance</a>	Deregisters an Amazon ECS container instance from the specified cluster
<a href="#">deregister_task_definition</a>	Deregisters the specified task definition by family and revision
<a href="#">describe_capacity_providers</a>	Describes one or more of your capacity providers
<a href="#">describe_clusters</a>	Describes one or more of your clusters
<a href="#">describe_container_instances</a>	Describes one or more container instances
<a href="#">describe_services</a>	Describes the specified services running in your cluster
<a href="#">describe_task_definition</a>	Describes a task definition
<a href="#">describe_tasks</a>	Describes a specified task or tasks
<a href="#">describe_task_sets</a>	Describes the task sets in the specified cluster and service



<a href="#">discover_poll_endpoint</a>	This action is only used by the Amazon ECS agent, and it is not intended for use outside
<a href="#">execute_command</a>	Runs a command remotely on a container within a task
<a href="#">get_task_protection</a>	Retrieves the protection status of tasks in an Amazon ECS service
<a href="#">list_account_settings</a>	Lists the account settings for a specified principal
<a href="#">list_attributes</a>	Lists the attributes for Amazon ECS resources within a specified target type and cluster
<a href="#">list_clusters</a>	Returns a list of existing clusters
<a href="#">list_container_instances</a>	Returns a list of container instances in a specified cluster
<a href="#">list_services</a>	Returns a list of services
<a href="#">list_services_by_namespace</a>	This operation lists all of the services that are associated with a Cloud Map namespace
<a href="#">list_tags_for_resource</a>	List the tags for an Amazon ECS resource
<a href="#">list_task_definition_families</a>	Returns a list of task definition families that are registered to your account
<a href="#">list_task_definitions</a>	Returns a list of task definitions that are registered to your account
<a href="#">list_tasks</a>	Returns a list of tasks
<a href="#">put_account_setting</a>	Modifies an account setting
<a href="#">put_account_setting_default</a>	Modifies an account setting for all users on an account for whom no individual account s
<a href="#">put_attributes</a>	Create or update an attribute on an Amazon ECS resource
<a href="#">put_cluster_capacity_providers</a>	Modifies the available capacity providers and the default capacity provider strategy for a
<a href="#">register_container_instance</a>	This action is only used by the Amazon ECS agent, and it is not intended for use outside
<a href="#">register_task_definition</a>	Registers a new task definition from the supplied family and containerDefinitions
<a href="#">run_task</a>	Starts a new task using the specified task definition
<a href="#">start_task</a>	Starts a new task from the specified task definition on the specified container instance or i
<a href="#">stop_task</a>	Stops a running task
<a href="#">submit_attachment_state_changes</a>	This action is only used by the Amazon ECS agent, and it is not intended for use outside
<a href="#">submit_container_state_change</a>	This action is only used by the Amazon ECS agent, and it is not intended for use outside
<a href="#">submit_task_state_change</a>	This action is only used by the Amazon ECS agent, and it is not intended for use outside
<a href="#">tag_resource</a>	Associates the specified tags to a resource with the specified resourceArn
<a href="#">untag_resource</a>	Deletes specified tags from a resource
<a href="#">update_capacity_provider</a>	Modifies the parameters for a capacity provider
<a href="#">update_cluster</a>	Updates the cluster
<a href="#">update_cluster_settings</a>	Modifies the settings to use for a cluster
<a href="#">update_container_agent</a>	Updates the Amazon ECS container agent on a specified container instance
<a href="#">update_container_instances_state</a>	Modifies the status of an Amazon ECS container instance
<a href="#">update_service</a>	Modifies the parameters of a service
<a href="#">update_service_primary_task_set</a>	Modifies which task set in a service is the primary task set
<a href="#">update_task_protection</a>	Updates the protection status of a task
<a href="#">update_task_set</a>	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.

- **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:**

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

### Value

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

### Service syntax

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

## Operations

<code>associate_access_policy</code>	Associates an access policy and its scope to an access entry
<code>associate_encryption_config</code>	Associates an encryption configuration to an existing cluster
<code>associate_identity_provider_config</code>	Associates an identity provider configuration to a cluster
<code>create_access_entry</code>	Creates an access entry
<code>create_addon</code>	Creates an Amazon EKS add-on
<code>create_cluster</code>	Creates an Amazon EKS control plane
<code>create_eks_anywhere_subscription</code>	Creates an EKS Anywhere subscription
<code>create_fargate_profile</code>	Creates an Fargate profile for your Amazon EKS cluster
<code>create_nodegroup</code>	Creates a managed node group for an Amazon EKS cluster
<code>create_pod_identity_association</code>	Creates an EKS Pod Identity association between a service account in an Amazon EK
<code>delete_access_entry</code>	Deletes an access entry
<code>delete_addon</code>	Deletes an Amazon EKS add-on
<code>delete_cluster</code>	Deletes an Amazon EKS cluster control plane
<code>delete_eks_anywhere_subscription</code>	Deletes an expired or inactive subscription
<code>delete_fargate_profile</code>	Deletes an Fargate profile
<code>delete_nodegroup</code>	Deletes a managed node group
<code>delete_pod_identity_association</code>	Deletes a EKS Pod Identity association
<code>deregister_cluster</code>	Deregisters a connected cluster to remove it from the Amazon EKS control plane
<code>describe_access_entry</code>	Describes an access entry
<code>describe_addon</code>	Describes an Amazon EKS add-on
<code>describe_addon_configuration</code>	Returns configuration options
<code>describe_addon_versions</code>	Describes the versions for an add-on
<code>describe_cluster</code>	Describes an Amazon EKS cluster
<code>describe_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

<a href="#">tag_resource</a>	Associates the specified tags to an Amazon EKS resource with the specified resource.
<a href="#">untag_resource</a>	Deletes specified tags from an Amazon EKS resource
<a href="#">update_access_entry</a>	Updates an access entry
<a href="#">update_addon</a>	Updates an Amazon EKS add-on
<a href="#">update_cluster_config</a>	Updates an Amazon EKS cluster configuration
<a href="#">update_cluster_version</a>	Updates an Amazon EKS cluster to the specified Kubernetes version
<a href="#">update_eks_anywhere_subscription</a>	Update an EKS Anywhere Subscription
<a href="#">update_nodegroup_config</a>	Updates an Amazon EKS managed node group configuration
<a href="#">update_nodegroup_version</a>	Updates the Kubernetes version or AMI version of an Amazon EKS managed node group
<a href="#">update_pod_identity_association</a>	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"> <li>• <b>credentials:</b> <ul style="list-style-type: none"> <li>– <b>creds:</b> <ul style="list-style-type: none"> <li>* <b>access_key_id:</b> AWS access key ID</li> <li>* <b>secret_access_key:</b> AWS secret access key</li> <li>* <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>– <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>– <b>anonymous:</b> Set anonymous credentials.</li> </ul> </li> <li>• <b>endpoint:</b> The complete URL to use for the constructed client.</li> <li>• <b>region:</b> The AWS Region used in instantiating the client.</li> <li>• <b>close_connection:</b> Immediately close all HTTP connections.</li> <li>• <b>timeout:</b> The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.</li> <li>• <b>s3_force_path_style:</b> Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>.</li> <li>• <b>sts_regional_endpoint:</b> Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> <li>• <b>creds:</b> <ul style="list-style-type: none"> <li>– <b>access_key_id:</b> AWS access key ID</li> <li>– <b>secret_access_key:</b> AWS secret access key</li> <li>– <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>• <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous:</b> Set anonymous credentials.</li> </ul>
endpoint	Optional shorthand for complete URL to use for the constructed client.
region	Optional shorthand for AWS Region used in instantiating the client.

**Value**

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

**Service syntax**

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

**Operations**

[abort\\_environment\\_update](#)

[apply\\_environment\\_managed\\_action](#)

[associate\\_environment\\_operations\\_role](#)

[check\\_dns\\_availability](#)

[compose\\_environments](#)

[create\\_application](#)

[create\\_application\\_version](#)

[create\\_configuration\\_template](#)

Cancels in-progress environment configuration update or application version

Applies a scheduled managed action immediately

Add or change the operations role used by an environment

Checks if the specified CNAME is available

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

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

Creates an application version for the specified application

Creates an AWS Elastic Beanstalk configuration template, associated with a

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

## Examples

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



```

    EnvironmentName = "my-env"
)

## End(Not run)

```

---

emrcontainers

*Amazon EMR Containers*


---

## Description

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

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

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

## Usage

```

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

```

## Arguments

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

	<ul style="list-style-type: none"> <li>• <b>region:</b> The AWS Region used in instantiating the client.</li> <li>• <b>close_connection:</b> Immediately close all HTTP connections.</li> <li>• <b>timeout:</b> The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.</li> <li>• <b>s3_force_path_style:</b> Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>.</li> <li>• <b>sts_regional_endpoint:</b> Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> <li>• <b>creds:</b> <ul style="list-style-type: none"> <li>– <b>access_key_id:</b> AWS access key ID</li> <li>– <b>secret_access_key:</b> AWS secret access key</li> <li>– <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>• <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous:</b> Set anonymous credentials.</li> </ul>
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

<a href="#">cancel_job_run</a>	Cancels a job run
<a href="#">create_job_template</a>	Creates a job template
<a href="#">create_managed_endpoint</a>	Creates a managed endpoint
<a href="#">create_security_configuration</a>	Creates a security configuration
<a href="#">create_virtual_cluster</a>	Creates a virtual cluster
<a href="#">delete_job_template</a>	Deletes a job template
<a href="#">delete_managed_endpoint</a>	Deletes a managed endpoint
<a href="#">delete_virtual_cluster</a>	Deletes a virtual cluster
<a href="#">describe_job_run</a>	Displays detailed information about a job run
<a href="#">describe_job_template</a>	Displays detailed information about a specified job template
<a href="#">describe_managed_endpoint</a>	Displays detailed information about a managed endpoint
<a href="#">describe_security_configuration</a>	Displays detailed information about a specified security configuration
<a href="#">describe_virtual_cluster</a>	Displays detailed information about a specified virtual cluster
<a href="#">get_managed_endpoint_session_credentials</a>	Generate a session token to connect to a managed endpoint
<a href="#">list_job_runs</a>	Lists job runs based on a set of parameters
<a href="#">list_job_templates</a>	Lists job templates based on a set of parameters
<a href="#">list_managed_endpoints</a>	Lists managed endpoints based on a set of parameters
<a href="#">list_security_configurations</a>	Lists security configurations based on a set of parameters
<a href="#">list_tags_for_resource</a>	Lists the tags assigned to the resources
<a href="#">list_virtual_clusters</a>	Lists information about the specified virtual cluster
<a href="#">start_job_run</a>	Starts a job run
<a href="#">tag_resource</a>	Assigns tags to resources
<a href="#">untag_resource</a>	Removes tags from resources

## Examples

```

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

```

```
## End(Not run)
```

---

```
emrserverless
```

```
EMR Serverless
```

---

## Description

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

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

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

## Usage

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

## Arguments

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

- **credentials:**
  - **creds:**
    - \* **access\_key\_id:** AWS access key ID
    - \* **secret\_access\_key:** AWS secret access key
    - \* **session\_token:** AWS temporary session token
  - **profile:** The name of a profile to use. If not given, then the default profile is used.
  - **anonymous:** Set anonymous credentials.
- **endpoint:** The complete URL to use for the constructed client.
- **region:** The AWS Region used in instantiating the client.
- **close\_connection:** Immediately close all HTTP connections.

	<ul style="list-style-type: none"> <li>• <b>timeout:</b> The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.</li> <li>• <b>s3_force_path_style:</b> Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>.</li> <li>• <b>sts_regional_endpoint:</b> Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	<p>Optional credentials shorthand for the config parameter</p> <ul style="list-style-type: none"> <li>• <b>creds:</b> <ul style="list-style-type: none"> <li>– <b>access_key_id:</b> AWS access key ID</li> <li>– <b>secret_access_key:</b> AWS secret access key</li> <li>– <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>• <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous:</b> Set anonymous credentials.</li> </ul>
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

<a href="#">cancel_job_run</a>	Cancels a job run
<a href="#">create_application</a>	Creates an application
<a href="#">delete_application</a>	Deletes an application
<a href="#">get_application</a>	Displays detailed information about a specified application
<a href="#">get_dashboard_for_job_run</a>	Creates and returns a URL that you can use to access the application UIs for a job run
<a href="#">get_job_run</a>	Displays detailed information about a job run
<a href="#">list_applications</a>	Lists applications based on a set of parameters
<a href="#">list_job_run_attempts</a>	Lists all attempt of a job run
<a href="#">list_job_runs</a>	Lists job runs based on a set of parameters
<a href="#">list_tags_for_resource</a>	Lists the tags assigned to the resources
<a href="#">start_application</a>	Starts a specified application and initializes initial capacity if configured
<a href="#">start_job_run</a>	Starts a job run
<a href="#">stop_application</a>	Stops a specified application and releases initial capacity if configured
<a href="#">tag_resource</a>	Assigns tags to resources
<a href="#">untag_resource</a>	Removes tags from resources
<a href="#">update_application</a>	Updates a specified application

## Examples

```

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

## End(Not run)

```

## Description

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

## Usage

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

## Arguments

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

<a href="#">cancel_image_creation</a>	CancelImageCreation cancels the creation of Image
<a href="#">cancel_lifecycle_execution</a>	Cancel a specific image lifecycle policy runtime instance
<a href="#">create_component</a>	Creates a new component that can be used to build, validate, test, and assess your image
<a href="#">create_container_recipe</a>	Creates a new container recipe
<a href="#">create_distribution_configuration</a>	Creates a new distribution configuration
<a href="#">create_image</a>	Creates a new image
<a href="#">create_image_pipeline</a>	Creates a new image pipeline
<a href="#">create_image_recipe</a>	Creates a new image recipe



<code>create_infrastructure_configuration</code>	Creates a new infrastructure configuration
<code>create_lifecycle_policy</code>	Create a lifecycle policy resource
<code>create_workflow</code>	Create a new workflow or a new version of an existing workflow
<code>delete_component</code>	Deletes a component build version
<code>delete_container_recipe</code>	Deletes a container recipe
<code>delete_distribution_configuration</code>	Deletes a distribution configuration
<code>delete_image</code>	Deletes an Image Builder image resource
<code>delete_image_pipeline</code>	Deletes an image pipeline
<code>delete_image_recipe</code>	Deletes an image recipe
<code>delete_infrastructure_configuration</code>	Deletes an infrastructure configuration
<code>delete_lifecycle_policy</code>	Delete the specified lifecycle policy resource
<code>delete_workflow</code>	Deletes a specific workflow resource
<code>get_component</code>	Gets a component object
<code>get_component_policy</code>	Gets a component policy
<code>get_container_recipe</code>	Retrieves a container recipe
<code>get_container_recipe_policy</code>	Retrieves the policy for a container recipe
<code>get_distribution_configuration</code>	Gets a distribution configuration
<code>get_image</code>	Gets an image
<code>get_image_pipeline</code>	Gets an image pipeline
<code>get_image_policy</code>	Gets an image policy
<code>get_image_recipe</code>	Gets an image recipe
<code>get_image_recipe_policy</code>	Gets an image recipe policy
<code>get_infrastructure_configuration</code>	Gets an infrastructure configuration
<code>get_lifecycle_execution</code>	Get the runtime information that was logged for a specific runtime instance of the lifecycle
<code>get_lifecycle_policy</code>	Get details for the specified image lifecycle policy
<code>get_workflow</code>	Get a workflow resource object
<code>get_workflow_execution</code>	Get the runtime information that was logged for a specific runtime instance of the workflow
<code>get_workflow_step_execution</code>	Get the runtime information that was logged for a specific runtime instance of the workflow step
<code>import_component</code>	Imports a component and transforms its data into a component document
<code>import_vm_image</code>	When you export your virtual machine (VM) from its virtualization environment, the imagebuilder:import-vm-image action imports the 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 specified image build version
<code>list_image_pipeline_images</code>	Returns a list of images created by the specified pipeline
<code>list_image_pipelines</code>	Returns a list of image pipelines
<code>list_image_recipes</code>	Returns a list of image recipes
<code>list_images</code>	Returns the list of images that you have access to
<code>list_image_scan_finding_aggregations</code>	Returns a list of image scan aggregations for your account
<code>list_image_scan_findings</code>	Returns a list of image scan findings for your account
<code>list_infrastructure_configurations</code>	Returns a list of infrastructure configurations
<code>list_lifecycle_execution_resources</code>	List resources that the runtime instance of the image lifecycle identified for lifecycle
<code>list_lifecycle_executions</code>	Get the lifecycle runtime history for the specified resource
<code>list_lifecycle_policies</code>	Get a list of lifecycle policies in your Amazon Web Services account
<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

<a href="#">list_workflow_build_versions</a>	Returns a list of build versions for a specific workflow resource
<a href="#">list_workflow_executions</a>	Returns a list of workflow runtime instance metadata objects for a specific image build
<a href="#">list_workflows</a>	Lists workflow build versions based on filtering parameters
<a href="#">list_workflow_step_executions</a>	Returns runtime data for each step in a runtime instance of the workflow that you specify
<a href="#">put_component_policy</a>	Applies a policy to a component
<a href="#">put_container_recipe_policy</a>	Applies a policy to a container image
<a href="#">put_image_policy</a>	Applies a policy to an image
<a href="#">put_image_recipe_policy</a>	Applies a policy to an image recipe
<a href="#">send_workflow_step_action</a>	Pauses or resumes image creation when the associated workflow runs a WaitForAction
<a href="#">start_image_pipeline_execution</a>	Manually triggers a pipeline to create an image
<a href="#">start_resource_state_update</a>	Begin asynchronous resource state update for lifecycle changes to the specified image
<a href="#">tag_resource</a>	Adds a tag to a resource
<a href="#">untag_resource</a>	Removes a tag from a resource
<a href="#">update_distribution_configuration</a>	Updates a new distribution configuration
<a href="#">update_image_pipeline</a>	Updates an image pipeline
<a href="#">update_infrastructure_configuration</a>	Updates a new infrastructure configuration
<a href="#">update_lifecycle_policy</a>	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:**

	<ul style="list-style-type: none"> <li>* <b>access_key_id</b>: AWS access key ID</li> <li>* <b>secret_access_key</b>: AWS secret access key</li> <li>* <b>session_token</b>: AWS temporary session token</li> <li>– <b>profile</b>: The name of a profile to use. If not given, then the default profile is used.</li> <li>– <b>anonymous</b>: Set anonymous credentials.</li> <li>• <b>endpoint</b>: The complete URL to use for the constructed client.</li> <li>• <b>region</b>: The AWS Region used in instantiating the client.</li> <li>• <b>close_connection</b>: Immediately close all HTTP connections.</li> <li>• <b>timeout</b>: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.</li> <li>• <b>s3_force_path_style</b>: Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>.</li> <li>• <b>sts_regional_endpoint</b>: Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> <li>• <b>creds</b>: <ul style="list-style-type: none"> <li>– <b>access_key_id</b>: AWS access key ID</li> <li>– <b>secret_access_key</b>: AWS secret access key</li> <li>– <b>session_token</b>: AWS temporary session token</li> </ul> </li> <li>• <b>profile</b>: The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous</b>: Set anonymous credentials.</li> </ul>
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

<a href="#">add_layer_version_permission</a>	Adds permissions to the resource-based policy of a version of an Lambda layer
<a href="#">add_permission</a>	Grants an Amazon Web Services service, Amazon Web Services account, or Amazon
<a href="#">create_alias</a>	Creates an alias for a Lambda function version
<a href="#">create_code_signing_config</a>	Creates a code signing configuration
<a href="#">create_event_source_mapping</a>	Creates a mapping between an event source and an Lambda function
<a href="#">create_function</a>	Creates a Lambda function
<a href="#">create_function_url_config</a>	Creates a Lambda function URL with the specified configuration parameters
<a href="#">delete_alias</a>	Deletes a Lambda function alias
<a href="#">delete_code_signing_config</a>	Deletes the code signing configuration
<a href="#">delete_event_source_mapping</a>	Deletes an event source mapping
<a href="#">delete_function</a>	Deletes a Lambda function
<a href="#">delete_function_code_signing_config</a>	Removes the code signing configuration from the function
<a href="#">delete_function_concurrency</a>	Removes a concurrent execution limit from a function
<a href="#">delete_function_event_invoke_config</a>	Deletes the configuration for asynchronous invocation for a function, version, or ali
<a href="#">delete_function_url_config</a>	Deletes a Lambda function URL
<a href="#">delete_layer_version</a>	Deletes a version of an Lambda layer
<a href="#">delete_provisioned_concurrency_config</a>	Deletes the provisioned concurrency configuration for a function
<a href="#">get_account_settings</a>	Retrieves details about your account's limits and usage in an Amazon Web Services
<a href="#">get_alias</a>	Returns details about a Lambda function alias
<a href="#">get_code_signing_config</a>	Returns information about the specified code signing configuration
<a href="#">get_event_source_mapping</a>	Returns details about an event source mapping
<a href="#">get_function</a>	Returns information about the function or function version, with a link to download
<a href="#">get_function_code_signing_config</a>	Returns the code signing configuration for the specified function
<a href="#">get_function_concurrency</a>	Returns details about the reserved concurrency configuration for a function
<a href="#">get_function_configuration</a>	Returns the version-specific settings of a Lambda function or version

<a href="#">get_function_event_invoke_config</a>	Retrieves the configuration for asynchronous invocation for a function, version, or alias
<a href="#">get_function_recursion_config</a>	Returns your function's recursive loop detection configuration
<a href="#">get_function_url_config</a>	Returns details about a Lambda function URL
<a href="#">get_layer_version</a>	Returns information about a version of an Lambda layer, with a link to download the layer
<a href="#">get_layer_version_by_arn</a>	Returns information about a version of an Lambda layer, with a link to download the layer
<a href="#">get_layer_version_policy</a>	Returns the permission policy for a version of an Lambda layer
<a href="#">get_policy</a>	Returns the resource-based IAM policy for a function, version, or alias
<a href="#">get_provisioned_concurrency_config</a>	Retrieves the provisioned concurrency configuration for a function's alias or version
<a href="#">get_runtime_management_config</a>	Retrieves the runtime management configuration for a function's version
<a href="#">invoke</a>	Invokes a Lambda function
<a href="#">invoke_async</a>	For asynchronous function invocation, use Invoke
<a href="#">invoke_with_response_stream</a>	Configure your Lambda functions to stream response payloads back to clients
<a href="#">list_aliases</a>	Returns a list of aliases for a Lambda function
<a href="#">list_code_signing_configs</a>	Returns a list of code signing configurations
<a href="#">list_event_source_mappings</a>	Lists event source mappings
<a href="#">list_function_event_invoke_configs</a>	Retrieves a list of configurations for asynchronous invocation for a function
<a href="#">list_functions</a>	Returns a list of Lambda functions, with the version-specific configuration of each
<a href="#">list_functions_by_code_signing_config</a>	List the functions that use the specified code signing configuration
<a href="#">list_function_url_configs</a>	Returns a list of Lambda function URLs for the specified function
<a href="#">list_layers</a>	Lists Lambda layers and shows information about the latest version of each
<a href="#">list_layer_versions</a>	Lists the versions of an Lambda layer
<a href="#">list_provisioned_concurrency_configs</a>	Retrieves a list of provisioned concurrency configurations for a function
<a href="#">list_tags</a>	Returns a function's tags
<a href="#">list_versions_by_function</a>	Returns a list of versions, with the version-specific configuration of each
<a href="#">publish_layer_version</a>	Creates an Lambda layer from a ZIP archive
<a href="#">publish_version</a>	Creates a version from the current code and configuration of a function
<a href="#">put_function_code_signing_config</a>	Update the code signing configuration for the function
<a href="#">put_function_concurrency</a>	Sets the maximum number of simultaneous executions for a function, and reserves the number of concurrent executions
<a href="#">put_function_event_invoke_config</a>	Configures options for asynchronous invocation on a function, version, or alias
<a href="#">put_function_recursion_config</a>	Sets your function's recursive loop detection configuration
<a href="#">put_provisioned_concurrency_config</a>	Adds a provisioned concurrency configuration to a function's alias or version
<a href="#">put_runtime_management_config</a>	Sets the runtime management configuration for a function's version
<a href="#">remove_layer_version_permission</a>	Removes a statement from the permissions policy for a version of an Lambda layer
<a href="#">remove_permission</a>	Revokes function-use permission from an Amazon Web Services service or another resource
<a href="#">tag_resource</a>	Adds tags to a function
<a href="#">untag_resource</a>	Removes tags from a function
<a href="#">update_alias</a>	Updates the configuration of a Lambda function alias
<a href="#">update_code_signing_config</a>	Update the code signing configuration
<a href="#">update_event_source_mapping</a>	Updates an event source mapping
<a href="#">update_function_code</a>	Updates a Lambda function's code
<a href="#">update_function_configuration</a>	Modify the version-specific settings of a Lambda function
<a href="#">update_function_event_invoke_config</a>	Updates the configuration for asynchronous invocation for a function, version, or alias
<a href="#">update_function_url_config</a>	Updates the configuration for a Lambda function URL

## Examples

```
## Not run:
```

```
svc <- lambda()
svc$add_layer_version_permission(
  Foo = 123
)

## End(Not run)
```

---

lightsail

*Amazon Lightsail*

---

## Description

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

You can manage your Lightsail resources using the Lightsail console, Lightsail API, 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"> <li>• <b>creds</b>: <ul style="list-style-type: none"> <li>– <b>access_key_id</b>: AWS access key ID</li> <li>– <b>secret_access_key</b>: AWS secret access key</li> <li>– <b>session_token</b>: AWS temporary session token</li> </ul> </li> <li>• <b>profile</b>: The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous</b>: Set anonymous credentials.</li> </ul>
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

<a href="#">allocate_static_ip</a>	Allocates a static IP address
<a href="#">attach_certificate_to_distribution</a>	Attaches an SSL/TLS certificate to your Amazon Lightsail content delivery network (CDN) distribution
<a href="#">attach_disk</a>	Attaches a block storage disk to a running or stopped Lightsail instance and its associated virtual private server (VPS)
<a href="#">attach_instances_to_load_balancer</a>	Attaches one or more Lightsail instances to a load balancer
<a href="#">attach_load_balancer_tls_certificate</a>	Attaches a Transport Layer Security (TLS) certificate to your load balancer
<a href="#">attach_static_ip</a>	Attaches a static IP address to a specific Amazon Lightsail instance
<a href="#">close_instance_public_ports</a>	Closes ports for a specific Amazon Lightsail instance
<a href="#">copy_snapshot</a>	Copies a manual snapshot of an instance or disk as another manual snapshot
<a href="#">create_bucket</a>	Creates an Amazon Lightsail bucket
<a href="#">create_bucket_access_key</a>	Creates a new access key for the specified Amazon Lightsail bucket
<a href="#">create_certificate</a>	Creates an SSL/TLS certificate for an Amazon Lightsail content delivery network (CDN) distribution
<a href="#">create_cloud_formation_stack</a>	Creates an AWS CloudFormation stack, which creates a new Amazon EC2 instance
<a href="#">create_contact_method</a>	Creates an email or SMS text message contact method
<a href="#">create_container_service</a>	Creates an Amazon Lightsail container service
<a href="#">create_container_service_deployment</a>	Creates a deployment for your Amazon Lightsail container service
<a href="#">create_container_service_registry_login</a>	Creates a temporary set of log in credentials that you can use to log in to the container registry
<a href="#">create_disk</a>	Creates a block storage disk that can be attached to an Amazon Lightsail instance
<a href="#">create_disk_from_snapshot</a>	Creates a block storage disk from a manual or automatic snapshot of a disk
<a href="#">create_disk_snapshot</a>	Creates a snapshot of a block storage disk
<a href="#">create_distribution</a>	Creates an Amazon Lightsail content delivery network (CDN) distribution
<a href="#">create_domain</a>	Creates a domain resource for the specified domain (example.com)
<a href="#">create_domain_entry</a>	Creates one of the following domain name system (DNS) records in a domain: A, AAAA, CNAME, MX, NS, TXT, or SRV
<a href="#">create_gui_session_access_details</a>	Creates two URLs that are used to access a virtual computer's graphical user interface (GUI)
<a href="#">create_instances</a>	Creates one or more Amazon Lightsail instances
<a href="#">create_instances_from_snapshot</a>	Creates one or more new instances from a manual or automatic snapshot of an instance
<a href="#">create_instance_snapshot</a>	Creates a snapshot of a specific virtual private server, or instance
<a href="#">create_key_pair</a>	Creates a custom SSH key pair that you can use with an Amazon Lightsail instance
<a href="#">create_load_balancer</a>	Creates a Lightsail load balancer
<a href="#">create_load_balancer_tls_certificate</a>	Creates an SSL/TLS certificate for an Amazon Lightsail load balancer
<a href="#">create_relational_database</a>	Creates a new database in Amazon Lightsail
<a href="#">create_relational_database_from_snapshot</a>	Creates a new database from an existing database snapshot in Amazon Lightsail

<code>create_relational_database_snapshot</code>	Creates a snapshot of your database in Amazon Lightsail
<code>delete_alarm</code>	Deletes an alarm
<code>delete_auto_snapshot</code>	Deletes an automatic snapshot of an instance or disk
<code>delete_bucket</code>	Deletes a Amazon Lightsail bucket
<code>delete_bucket_access_key</code>	Deletes an access key for the specified Amazon Lightsail bucket
<code>delete_certificate</code>	Deletes an SSL/TLS certificate for your Amazon Lightsail content delivery
<code>delete_contact_method</code>	Deletes a contact method
<code>delete_container_image</code>	Deletes a container image that is registered to your Amazon Lightsail conta
<code>delete_container_service</code>	Deletes your Amazon Lightsail container service
<code>delete_disk</code>	Deletes the specified block storage disk
<code>delete_disk_snapshot</code>	Deletes the specified disk snapshot
<code>delete_distribution</code>	Deletes your Amazon Lightsail content delivery network (CDN) distribution
<code>delete_domain</code>	Deletes the specified domain recordset and all of its domain records
<code>delete_domain_entry</code>	Deletes a specific domain entry
<code>delete_instance</code>	Deletes an Amazon Lightsail instance
<code>delete_instance_snapshot</code>	Deletes a specific snapshot of a virtual private server (or instance)
<code>delete_key_pair</code>	Deletes the specified key pair by removing the public key from Amazon Lig
<code>delete_known_host_keys</code>	Deletes the known host key or certificate used by the Amazon Lightsail bro
<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 deliv
<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 attac
<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 Am
<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 buck
<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 wh
<code>get_certificates</code>	Returns information about one or more Amazon Lightsail SSL/TLS certifica
<code>get_cloud_formation_stack_records</code>	Returns the CloudFormation stack record created as a result of the create cl
<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
<code>get_container_images</code>	Returns the container images that are registered to your Amazon Lightsail c
<code>get_container_log</code>	Returns the log events of a container of your Amazon Lightsail container se
<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 contai
<code>get_container_service_powers</code>	Returns the list of powers that can be specified for your Amazon Lightsail c

<code>get_container_services</code>	Returns information about one or more of your Amazon Lightsail container instances
<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 associated regions
<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 associated regions
<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 snapshots feature
<code>get_instance</code>	Returns information about a specific Amazon Lightsail instance, which is a virtual private server
<code>get_instance_access_details</code>	Returns temporary SSH keys you can use to connect to a specific virtual private server
<code>get_instance_metric_data</code>	Returns the data points for the specified Amazon Lightsail instance metric, such as CPU usage
<code>get_instance_port_states</code>	Returns the firewall port states for a specific Amazon Lightsail instance, the state of each port, and the associated rules
<code>get_instances</code>	Returns information about all Amazon Lightsail virtual private servers, or instances
<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 specified load balancer
<code>get_load_balancer_tls_policies</code>	Returns a list of TLS security policies that you can apply to Lightsail load balancers
<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 (an instance or a static IP)
<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 Lightsail
<code>get_relational_database_master_user_password</code>	Returns the current, previous, or pending versions of the master user password for a specific database in Amazon Lightsail
<code>get_relational_database_metric_data</code>	Returns the data points of the specified metric for a database in Amazon Lightsail
<code>get_relational_database_parameters</code>	Returns all of the runtime parameters offered by the underlying database software
<code>get_relational_databases</code>	Returns information about all of your databases in Amazon Lightsail
<code>get_relational_database_snapshot</code>	Returns information about a specific database snapshot in Amazon Lightsail
<code>get_relational_database_snapshots</code>	Returns information about all of your database snapshots in Amazon Lightsail
<code>get_setup_history</code>	Returns detailed information for five of the most recent SetupInstanceHttpRequests
<code>get_static_ip</code>	Returns information about an Amazon Lightsail static IP
<code>get_static_ips</code>	Returns information about all static IPs in the user's account
<code>import_key_pair</code>	Imports a public SSH key from a specific key pair

<code>is_vpc_peered</code>	Returns a Boolean value indicating whether your Lightsail VPC is peered
<code>open_instance_public_ports</code>	Opens ports for a specific Amazon Lightsail instance, and specifies the IP address
<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 address
<code>reboot_instance</code>	Restarts a specific instance
<code>reboot_relational_database</code>	Restarts a specific database in Amazon Lightsail
<code>register_container_image</code>	Registers a container image to your Amazon Lightsail container service
<code>release_static_ip</code>	Deletes a specific static IP from your account
<code>reset_distribution_cache</code>	Deletes currently cached content from your Amazon Lightsail content delivery network (CDN)
<code>send_contact_method_verification</code>	Sends a verification request to an email contact method to ensure it's owned
<code>set_ip_address_type</code>	Sets the IP address type for an Amazon Lightsail resource
<code>set_resource_access_for_bucket</code>	Sets the Amazon Lightsail resources that can access the specified Lightsail bucket
<code>setup_instance_https</code>	Creates an SSL/TLS certificate that secures traffic for your website
<code>start_gui_session</code>	Initiates a graphical user interface (GUI) session that's used to access a virtual machine
<code>start_instance</code>	Starts a specific Amazon Lightsail instance from a stopped state
<code>start_relational_database</code>	Starts a specific database from a stopped state in Amazon Lightsail
<code>stop_gui_session</code>	Terminates a web-based NICE DCV session that's used to access a virtual machine
<code>stop_instance</code>	Stops a specific Amazon Lightsail instance that is currently running
<code>stop_relational_database</code>	Stops a specific database that is currently running in Amazon Lightsail
<code>tag_resource</code>	Adds one or more tags to the specified Amazon Lightsail resource
<code>test_alarm</code>	Tests an alarm by displaying a banner on the Amazon Lightsail console
<code>unpeer_vpc</code>	Unpeers the Lightsail VPC from the user's default VPC
<code>untag_resource</code>	Deletes the specified set of tag keys and their values from the specified Amazon Lightsail resource
<code>update_bucket</code>	Updates an existing Amazon Lightsail bucket
<code>update_bucket_bundle</code>	Updates the bundle, or storage plan, of an existing Amazon Lightsail bucket
<code>update_container_service</code>	Updates the configuration of your Amazon Lightsail container service, such as the container engine
<code>update_distribution</code>	Updates an existing Amazon Lightsail content delivery network (CDN) distribution
<code>update_distribution_bundle</code>	Updates the bundle of your Amazon Lightsail content delivery network (CDN) distribution
<code>update_domain_entry</code>	Updates a domain recordset after it is created
<code>update_instance_metadata_options</code>	Modifies the Amazon Lightsail instance metadata parameters on a running instance
<code>update_load_balancer_attribute</code>	Updates the specified attribute for a load balancer
<code>update_relational_database</code>	Allows the update of one or more attributes of a database in Amazon Lightsail
<code>update_relational_database_parameters</code>	Allows the update of one or more parameters of a database in Amazon Lightsail

## Examples

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

## End(Not run)
```

---

proton

*AWS Proton*

---

## Description

This is the Proton Service API Reference. It provides descriptions, syntax and usage examples for each of the [actions](#) and [data types](#) for the Proton service.

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

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

The Proton service is a two-pronged automation framework. Administrators create service templates to provide standardized infrastructure and deployment tooling for serverless and container based applications. Developers, in turn, select from the available service templates to automate their application or service deployments.

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

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

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

## Ensuring Idempotency

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

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

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

### Idempotent create APIs with a client token

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

Given a request action that has succeeded:

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

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

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

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

Idempotent create APIs with a client token:

- `CreateEnvironmentTemplateVersion`
- `CreateServiceTemplateVersion`
- `CreateEnvironmentAccountConnection`

### **Idempotent create APIs**

Given a request action that has succeeded:

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

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

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

Idempotent create APIs:

- `CreateEnvironmentTemplate`
- `CreateServiceTemplate`
- `CreateEnvironment`
- `CreateService`

### **Idempotent delete APIs**

Given a request action that has succeeded:

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

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

In both cases, the retry succeeds.

Idempotent delete APIs:

- `DeleteEnvironmentTemplate`
- `DeleteEnvironmentTemplateVersion`
- `DeleteServiceTemplate`
- `DeleteServiceTemplateVersion`
- `DeleteEnvironmentAccountConnection`

### Asynchronous idempotent delete APIs

Given a request action that has succeeded:

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

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

Asynchronous idempotent delete APIs:

- DeleteEnvironment
- DeleteService

### Usage

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

### Arguments

config	<p>Optional configuration of credentials, endpoint, and/or region.</p> <ul style="list-style-type: none"> <li>• <b>credentials:</b> <ul style="list-style-type: none"> <li>– <b>creds:</b> <ul style="list-style-type: none"> <li>* <b>access_key_id:</b> AWS access key ID</li> <li>* <b>secret_access_key:</b> AWS secret access key</li> <li>* <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>– <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>– <b>anonymous:</b> Set anonymous credentials.</li> </ul> </li> <li>• <b>endpoint:</b> The complete URL to use for the constructed client.</li> <li>• <b>region:</b> The AWS Region used in instantiating the client.</li> <li>• <b>close_connection:</b> Immediately close all HTTP connections.</li> <li>• <b>timeout:</b> The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.</li> <li>• <b>s3_force_path_style:</b> Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>.</li> <li>• <b>sts_regional_endpoint:</b> Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	<p>Optional credentials shorthand for the config parameter</p> <ul style="list-style-type: none"> <li>• <b>creds:</b> <ul style="list-style-type: none"> <li>– <b>access_key_id:</b> AWS access key ID</li> <li>– <b>secret_access_key:</b> AWS secret access key</li> <li>– <b>session_token:</b> AWS temporary session token</li> </ul> </li> <li>• <b>profile:</b> The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous:</b> Set anonymous credentials.</li> </ul>
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](#)  
[cancel\\_component\\_deployment](#)  
[cancel\\_environment\\_deployment](#)  
[cancel\\_service\\_instance\\_deployment](#)  
[cancel\\_service\\_pipeline\\_deployment](#)  
[create\\_component](#)  
[create\\_environment](#)  
[create\\_environment\\_account\\_connection](#)

In a management account, an environment account connection request is accepted.  
 Attempts to cancel a component deployment (for a component that is in the IN-PROGRESS state).  
 Attempts to cancel an environment deployment on an UpdateEnvironment action.  
 Attempts to cancel a service instance deployment on an UpdateServiceInstance action.  
 Attempts to cancel a service pipeline deployment on an UpdateServicePipeline action.  
 Create a Proton component.  
 Deploy a new environment.  
 Create an environment account connection in an environment account so that e



<code>create_environment_template</code>	Create an environment template for Proton
<code>create_environment_template_version</code>	Create a new major or minor version of an environment template
<code>create_repository</code>	Create and register a link to a repository
<code>create_service</code>	Create an Proton service
<code>create_service_instance</code>	Create a service instance
<code>create_service_sync_config</code>	Create the Proton Ops configuration file
<code>create_service_template</code>	Create a service template
<code>create_service_template_version</code>	Create a new major or minor version of a service template
<code>create_template_sync_config</code>	Set up a template to create new template versions automatically by tracking a link
<code>delete_component</code>	Delete an Proton component resource
<code>delete_deployment</code>	Delete the deployment
<code>delete_environment</code>	Delete an environment
<code>delete_environment_account_connection</code>	In an environment account, delete an environment account connection
<code>delete_environment_template</code>	If no other major or minor versions of an environment template exist, delete the template
<code>delete_environment_template_version</code>	If no other minor versions of an environment template exist, delete a major version of the template
<code>delete_repository</code>	De-register and unlink your repository
<code>delete_service</code>	Delete a service, with its instances and pipeline
<code>delete_service_sync_config</code>	Delete the Proton Ops file
<code>delete_service_template</code>	If no other major or minor versions of the service template exist, delete the template
<code>delete_service_template_version</code>	If no other minor versions of a service template exist, delete a major version of the template
<code>delete_template_sync_config</code>	Delete a template sync configuration
<code>get_account_settings</code>	Get detail data for Proton account-wide settings
<code>get_component</code>	Get detailed data for a component
<code>get_deployment</code>	Get detailed data for a deployment
<code>get_environment</code>	Get detailed data for an environment
<code>get_environment_account_connection</code>	In an environment account, get the detailed data for an environment account connection
<code>get_environment_template</code>	Get detailed data for an environment template
<code>get_environment_template_version</code>	Get detailed data for a major or minor version of an environment template
<code>get_repository</code>	Get detail data for a linked repository
<code>get_repository_sync_status</code>	Get the sync status of a repository used for Proton template sync
<code>get_resources_summary</code>	Get counts of Proton resources
<code>get_service</code>	Get detailed data for a service
<code>get_service_instance</code>	Get detailed data for a service instance
<code>get_service_instance_sync_status</code>	Get the status of the synced service instance
<code>get_service_sync_blocker_summary</code>	Get detailed data for the service sync blocker summary
<code>get_service_sync_config</code>	Get detailed information for the service sync configuration
<code>get_service_template</code>	Get detailed data for a service template
<code>get_service_template_version</code>	Get detailed data for a major or minor version of a service template
<code>get_template_sync_config</code>	Get detail data for a template sync configuration
<code>get_template_sync_status</code>	Get the status of a template sync
<code>list_component_outputs</code>	Get a list of component Infrastructure as Code (IaC) outputs
<code>list_component_provisioned_resources</code>	List provisioned resources for a component with details
<code>list_components</code>	List components with summary data
<code>list_deployments</code>	List deployments
<code>list_environment_account_connections</code>	View a list of environment account connections
<code>list_environment_outputs</code>	List the infrastructure as code outputs for your environment
<code>list_environment_provisioned_resources</code>	List the provisioned resources for your environment
<code>list_environments</code>	List environments with detail data summaries

<code>list_environment_templates</code>	List environment templates
<code>list_environment_template_versions</code>	List major or minor versions of an environment template with detail data
<code>list_repositories</code>	List linked repositories with detail data
<code>list_repository_sync_definitions</code>	List repository sync definitions with detail data
<code>list_service_instance_outputs</code>	Get a list service of instance Infrastructure as Code (IaC) outputs
<code>list_service_instance_provisioned_resources</code>	List provisioned resources for a service instance with details
<code>list_service_instances</code>	List service instances with summary data
<code>list_service_pipeline_outputs</code>	Get a list of service pipeline Infrastructure as Code (IaC) outputs
<code>list_service_pipeline_provisioned_resources</code>	List provisioned resources for a service and pipeline with details
<code>list_services</code>	List services with summaries of detail data
<code>list_service_templates</code>	List service templates with detail data
<code>list_service_template_versions</code>	List major or minor versions of a service template with detail data
<code>list_tags_for_resource</code>	List tags for a resource
<code>notify_resource_deployment_status_change</code>	Notify Proton of status changes to a provisioned resource when you use self-managed resources
<code>reject_environment_account_connection</code>	In a management account, reject an environment account connection from another account
<code>tag_resource</code>	Tag a resource
<code>untag_resource</code>	Remove a customer tag from a resource
<code>update_account_settings</code>	Update Proton settings that are used for multiple services in the Amazon Web Services account
<code>update_component</code>	Update a component
<code>update_environment</code>	Update an environment
<code>update_environment_account_connection</code>	In an environment account, update an environment account connection to use a different account
<code>update_environment_template</code>	Update an environment template
<code>update_environment_template_version</code>	Update a major or minor version of an environment template
<code>update_service</code>	Edit a service description or use a spec to add and delete service instances
<code>update_service_instance</code>	Update a service instance
<code>update_service_pipeline</code>	Update the service pipeline
<code>update_service_sync_blocker</code>	Update the service sync blocker by resolving it
<code>update_service_sync_config</code>	Update the Proton Ops config file
<code>update_service_template</code>	Update a service template
<code>update_service_template_version</code>	Update a major or minor version of a service template
<code>update_template_sync_config</code>	Update template sync configuration parameters, except for the templateName parameter

## Examples

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

## End(Not run)
```

---

serverlessapplicationrepository  
*AWS*ServerlessApplicationRepository**

---

## 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

	<ul style="list-style-type: none"> <li>* <b>secret_access_key</b>: AWS secret access key</li> <li>* <b>session_token</b>: AWS temporary session token</li> <li>– <b>profile</b>: The name of a profile to use. If not given, then the default profile is used.</li> <li>– <b>anonymous</b>: Set anonymous credentials.</li> <li>• <b>endpoint</b>: The complete URL to use for the constructed client.</li> <li>• <b>region</b>: The AWS Region used in instantiating the client.</li> <li>• <b>close_connection</b>: Immediately close all HTTP connections.</li> <li>• <b>timeout</b>: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.</li> <li>• <b>s3_force_path_style</b>: Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>.</li> <li>• <b>sts_regional_endpoint</b>: Set sts regional endpoint resolver to regional or legacy <a href="https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html">https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html</a></li> </ul>
credentials	Optional credentials shorthand for the config parameter <ul style="list-style-type: none"> <li>• <b>creds</b>: <ul style="list-style-type: none"> <li>– <b>access_key_id</b>: AWS access key ID</li> <li>– <b>secret_access_key</b>: AWS secret access key</li> <li>– <b>session_token</b>: AWS temporary session token</li> </ul> </li> <li>• <b>profile</b>: The name of a profile to use. If not given, then the default profile is used.</li> <li>• <b>anonymous</b>: Set anonymous credentials.</li> </ul>
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

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

## Examples

```

## Not run:
svc <- serverlessapplicationrepository()
svc$create_application(
  Foo = 123
)

## End(Not run)

```

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