

Package ‘paws.cost.management’

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Title 'Amazon Web Services' Cost Management Services

Version 0.9.0

Description Interface to 'Amazon Web Services' cost management services, including cost and usage reports, budgets, pricing, and more
<<https://aws.amazon.com/>>.

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URL <https://github.com/paws-r/paws>,
<https://paws-r.r-universe.dev/paws.cost.management>

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

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'billingconductor_interfaces.R' 'billingconductor_operations.R'
'budgets_service.R' 'budgets_interfaces.R'
'budgets_operations.R' 'costandusagereportservice_service.R'
'costandusagereportservice_interfaces.R'
'costandusagereportservice_operations.R'
'costexplorer_service.R' 'costexplorer_interfaces.R'
'costexplorer_operations.R' 'marketplacecatalog_service.R'
'marketplacecatalog_interfaces.R'
'marketplacecatalog_operations.R'
'marketplacecommerceanalytics_service.R'
'marketplacecommerceanalytics_interfaces.R'
'marketplacecommerceanalytics_operations.R'
'marketplaceentitlementservice_service.R'
'marketplaceentitlementservice_interfaces.R'
'marketplaceentitlementservice_operations.R'
'marketplacemetering_service.R'
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'marketplacemetering_operations.R'
 'paymentcryptograpycontrolplane_service.R'
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 'paymentcryptograpycontrolplane_operations.R'
 'paymentcryptograpydataplane_service.R'
 'paymentcryptograpydataplane_interfaces.R'
 'paymentcryptograpydataplane_operations.R' 'pricing_service.R'
 'pricing_interfaces.R' 'pricing_operations.R'
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 'savingsplans_interfaces.R' 'savingsplans_operations.R'

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billing	<i>AWS Billing</i>
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Description

You can use the Billing API to programatically list the billing views available to you for a given time period. A billing view represents a set of billing data.

The Billing API provides the following endpoint:

<https://billing.us-east-1.api.aws>

Usage

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

Arguments

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

Value

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

Service syntax

```

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

```

Operations

create_billing_view	Creates a billing view with the specified billing view attributes
delete_billing_view	Deletes the specified billing view
get_billing_view	Returns the metadata associated to the specified billing view ARN
get_resource_policy	Returns the resource-based policy document attached to the resource in JSON format
list_billing_views	Lists the billing views available for a given time period
list_source_views_for_billing_view	Lists the source views (managed Amazon Web Services billing views) associated with t
list_tags_for_resource	Lists tags associated with the billing view resource
tag_resource	An API operation for adding one or more tags (key-value pairs) to a resource
untag_resource	Removes one or more tags from a resource
update_billing_view	An API to update the attributes of the billing view

Examples

```
## Not run:
svc <- billing()
svc$create_billing_view(
  Foo = 123
)

## End(Not run)
```

billingconductor	<i>AWSBillingConductor</i>
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Description

Amazon Web Services Billing Conductor is a fully managed service that you can use to customize a **proforma** version of your billing data each month, to accurately show or chargeback your end customers. Amazon Web Services Billing Conductor doesn't change the way you're billed by Amazon Web Services each month by design. Instead, it provides you with a mechanism to configure, generate, and display rates to certain customers over a given billing period. You can also analyze the difference between the rates you apply to your accounting groupings relative to your actual rates from Amazon Web Services. As a result of your Amazon Web Services Billing Conductor configuration, the payer account can also see the custom rate applied on the billing details page of the Amazon Web Services Billing console, or configure a cost and usage report per billing group.

This documentation shows how you can configure Amazon Web Services Billing Conductor using its API. For more information about using the Amazon Web Services Billing Conductor user interface, see the [Amazon Web Services Billing Conductor User Guide](#).

Usage

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

Value

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

Service syntax

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

```

        timeout = "numeric",
        s3_force_path_style = "logical",
        sts_regional_endpoint = "string"
    ),
    credentials = list(
        creds = list(
            access_key_id = "string",
            secret_access_key = "string",
            session_token = "string"
        ),
        profile = "string",
        anonymous = "logical"
    ),
    endpoint = "string",
    region = "string"
)

```

Operations

associate_accounts	Connects an array of account IDs in a consolidated billing family to a consolidated billing family.
associate_pricing_rules	Connects an array of PricingRuleArns to a defined PricingPlan.
batch_associate_resources_to_custom_line_item	Associates a batch of resources to a percentage custom line item.
batch_disassociate_resources_from_custom_line_item	Disassociates a batch of resources from a percentage custom line item.
create_billing_group	Creates a billing group that resembles a consolidated billing family.
create_custom_line_item	Creates a custom line item that can be used to create a one-time fixed price custom line item.
create_pricing_plan	Creates a pricing plan that is used for computing Amazon Web Services charges.
create_pricing_rule	Creates a pricing rule that can be associated to a pricing plan, or a set of pricing rules.
delete_billing_group	Deletes a billing group.
delete_custom_line_item	Deletes the custom line item identified by the given ARN in the current billing group.
delete_pricing_plan	Deletes a pricing plan.
delete_pricing_rule	Deletes the pricing rule that's identified by the input Amazon Resource Name (ARN).
disassociate_accounts	Removes the specified list of account IDs from the given billing group.
disassociate_pricing_rules	Disassociates a list of pricing rules from a pricing plan.
get_billing_group_cost_report	Retrieves the margin summary report, which includes the Amazon Web Services charges for the billing group.
list_account_associations	This is a paginated call to list linked accounts that are linked to the parent account.
list_billing_group_cost_reports	A paginated call to retrieve a summary report of actual Amazon Web Services charges for the billing group.
list_billing_groups	A paginated call to retrieve a list of billing groups for the given billing period.
list_custom_line_items	A paginated call to get a list of all custom line items (FFLIs) for the given billing group.
list_custom_line_item_versions	A paginated call to get a list of all custom line item versions for the given billing group.
list_pricing_plans	A paginated call to get pricing plans for the given billing period.
list_pricing_plans_associated_with_pricing_rule	A list of the pricing plans that are associated with a pricing rule.
list_pricing_rules	Describes a pricing rule that can be associated to a pricing plan, or a set of pricing rules.
list_pricing_rules_associated_to_pricing_plan	Lists the pricing rules that are associated with a pricing plan.
list_resources_associated_to_custom_line_item	List the resources that are associated to a custom line item.
list_tags_for_resource	A list the tags for a resource.
tag_resource	Associates the specified tags to a resource with the specified resource ID.
untag_resource	Deletes specified tags from a resource.
update_billing_group	This updates an existing billing group.

[update_custom_line_item](#)
[update_pricing_plan](#)
[update_pricing_rule](#)

Update an existing custom line item in the current or previous billing cycle.
 This updates an existing pricing plan.
 Updates an existing pricing rule.

Examples

```
## Not run:
svc <- billingconductor()
svc$associate_accounts(
  Foo = 123
)

## End(Not run)
```

budgets

AWS Budgets

Description

Use the Amazon Web Services Budgets API to plan your service usage, service costs, and instance reservations. This API reference provides descriptions, syntax, and usage examples for each of the actions and data types for the Amazon Web Services Budgets feature.

Budgets provide you with a way to see the following information:

- How close your plan is to your budgeted amount or to the free tier limits
- Your usage-to-date, including how much you've used of your Reserved Instances (RIs)
- Your current estimated charges from Amazon Web Services, and how much your predicted usage will accrue in charges by the end of the month
- How much of your budget has been used

Amazon Web Services updates your budget status several times a day. Budgets track your unblended costs, subscriptions, refunds, and RIs. You can create the following types of budgets:

- **Cost budgets** - Plan how much you want to spend on a service.
- **Usage budgets** - Plan how much you want to use one or more services.
- **RI utilization budgets** - Define a utilization threshold, and receive alerts when your RI usage falls below that threshold. This lets you see if your RIs are unused or under-utilized.
- **RI coverage budgets** - Define a coverage threshold, and receive alerts when the number of your instance hours that are covered by RIs fall below that threshold. This lets you see how much of your instance usage is covered by a reservation.

Service Endpoint

The Amazon Web Services Budgets API provides the following endpoint:

- <https://budgets.amazonaws.com>

For information about costs that are associated with the Amazon Web Services Budgets API, see [Amazon Web Services Cost Management Pricing](#).

Usage

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

Arguments

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

Value

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

Service syntax

```

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

```

Operations

create_budget	Creates a budget and, if included, notifications and subscribers
create_budget_action	Creates a budget action
create_notification	Creates a notification
create_subscriber	Creates a subscriber
delete_budget	Deletes a budget
delete_budget_action	Deletes a budget action
delete_notification	Deletes a notification
delete_subscriber	Deletes a subscriber
describe_budget	Describes a budget
describe_budget_action	Describes a budget action detail
describe_budget_action_histories	Describes a budget action history detail
describe_budget_actions_for_account	Describes all of the budget actions for an account
describe_budget_actions_for_budget	Describes all of the budget actions for a budget

<code>describe_budget_notifications_for_account</code>	Lists the budget names and notifications that are associated with an account
<code>describe_budget_performance_history</code>	Describes the history for DAILY, MONTHLY, and QUARTERLY budgets
<code>describe_budgets</code>	Lists the budgets that are associated with an account
<code>describe_notifications_for_budget</code>	Lists the notifications that are associated with a budget
<code>describe_subscribers_for_notification</code>	Lists the subscribers that are associated with a notification
<code>execute_budget_action</code>	Executes a budget action
<code>list_tags_for_resource</code>	Lists tags associated with a budget or budget action resource
<code>tag_resource</code>	Creates tags for a budget or budget action resource
<code>untag_resource</code>	Deletes tags associated with a budget or budget action resource
<code>update_budget</code>	Updates a budget
<code>update_budget_action</code>	Updates a budget action
<code>update_notification</code>	Updates a notification
<code>update_subscriber</code>	Updates a subscriber

Examples

```
## Not run:
svc <- budgets()
svc$create_budget(
  Foo = 123
)

## End(Not run)
```

costandusagereportservice

AWS Cost and Usage Report Service

Description

You can use the Amazon Web Services Cost and Usage Report API to programmatically create, query, and delete Amazon Web Services Cost and Usage Report definitions.

Amazon Web Services Cost and Usage Report track the monthly Amazon Web Services costs and usage associated with your Amazon Web Services account. The report contains line items for each unique combination of Amazon Web Services product, usage type, and operation that your Amazon Web Services account uses. You can configure the Amazon Web Services Cost and Usage Report to show only the data that you want, using the Amazon Web Services Cost and Usage Report API.

Service Endpoint

The Amazon Web Services Cost and Usage Report API provides the following endpoint:

- `cur.us-east-1.amazonaws.com`

Usage

```

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

```

Arguments

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

Value

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

Service syntax

```

svc <- costandusagereportservice(
  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_report_definition	Deletes the specified report
describe_report_definitions	Lists the Amazon Web Services Cost and Usage Report available to this account
list_tags_for_resource	Lists the tags associated with the specified report definition
modify_report_definition	Allows you to programmatically update your report preferences
put_report_definition	Creates a new report using the description that you provide
tag_resource	Associates a set of tags with a report definition
untag_resource	Disassociates a set of tags from a report definition

Examples

```

## Not run:
svc <- costandusagereportservice()

```

```
# The following example deletes the AWS Cost and Usage report named
# ExampleReport.
svc$delete_report_definition(
  ReportName = "ExampleReport"
)

## End(Not run)
```

 costexplorer

AWS Cost Explorer Service

Description

You can use the Cost Explorer API to programmatically query your cost and usage data. You can query for aggregated data such as total monthly costs or total daily usage. You can also query for granular data. This might include the number of daily write operations for Amazon DynamoDB database tables in your production environment.

Service Endpoint

The Cost Explorer API provides the following endpoint:

- <https://ce.us-east-1.amazonaws.com>

For information about the costs that are associated with the Cost Explorer API, see [Amazon Web Services Cost Management Pricing](#).

Usage

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

Arguments

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

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

Value

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

Service syntax

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

```

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

```

Operations

create_anomaly_monitor	Creates a new cost anomaly detection monitor with the requested name and rules
create_anomaly_subscription	Adds an alert subscription to a cost anomaly detection monitor
create_cost_category_definition	Creates a new Cost Category with the requested name and rules
delete_anomaly_monitor	Deletes a cost anomaly monitor
delete_anomaly_subscription	Deletes a cost anomaly subscription
delete_cost_category_definition	Deletes a Cost Category
describe_cost_category_definition	Returns the name, Amazon Resource Name (ARN), rules, definition, and other details for a Cost Category
get_anomalies	Retrieves all of the cost anomalies detected on your account during the specified time period
get_anomaly_monitors	Retrieves the cost anomaly monitor definitions for your account
get_anomaly_subscriptions	Retrieves the cost anomaly subscription objects for your account
get_approximate_usage_records	Retrieves estimated usage records for hourly granularity or resource-level granularity
get_commitment_purchase_analysis	Retrieves a commitment purchase analysis result based on the Amazon Resource Name (ARN) of the commitment purchase
get_cost_and_usage	Retrieves cost and usage metrics for your account
get_cost_and_usage_with_resources	Retrieves cost and usage metrics with resources for your account
get_cost_categories	Retrieves an array of Cost Category names and values incurred during the specified time period
get_cost_forecast	Retrieves a forecast for how much Amazon Web Services predicted usage will be incurred during the specified time period
get_dimension_values	Retrieves all available filter values for a specified filter over a period of time
get_reservation_coverage	Retrieves the reservation coverage for your account, which you can use to identify reservation opportunities
get_reservation_purchase_recommendation	Gets recommendations for reservation purchases
get_reservation_utilization	Retrieves the reservation utilization for your account
get_rightsizing_recommendation	Creates recommendations that help you save cost by identifying over-provisioned resources
get_savings_plan_purchase_recommendation_details	Retrieves the details for a Savings Plan recommendation
get_savings_plans_coverage	Retrieves the Savings Plans covered for your account
get_savings_plans_purchase_recommendation	Retrieves the Savings Plans recommendations for your account
get_savings_plans_utilization	Retrieves the Savings Plans utilization for your account across all regions
get_savings_plans_utilization_details	Retrieves attribute data along with aggregate utilization and savings plan details for a specified Savings Plan
get_tags	Queries for available tag keys and tag values for a specified period of time
get_usage_forecast	Retrieves a forecast for how much Amazon Web Services predicted usage will be incurred during the specified time period
list_commitment_purchase_analyses	Lists the commitment purchase analyses for your account
list_cost_allocation_tag_backfill_history	Retrieves a list of your historical cost allocation tag backfill requests
list_cost_allocation_tags	Get a list of cost allocation tags
list_cost_category_definitions	Returns the name, Amazon Resource Name (ARN), NumberOfRules, and other details for a Cost Category
list_savings_plans_purchase_recommendation_generation	Retrieves a list of your historical recommendation generations

list_tags_for_resource	Returns a list of resource tags associated with the resource specified
provide_anomaly_feedback	Modifies the feedback property of a given cost anomaly
start_commitment_purchase_analysis	Specifies the parameters of a planned commitment purchase analysis
start_cost_allocation_tag_backfill	Request a cost allocation tag backfill
start_savings_plans_purchase_recommendation_generation	Requests a Savings Plans recommendation generation
tag_resource	An API operation for adding one or more tags (key-value pairs) to a resource
untag_resource	Removes one or more tags from a resource
update_anomaly_monitor	Updates an existing cost anomaly monitor
update_anomaly_subscription	Updates an existing cost anomaly subscription
update_cost_allocation_tags_status	Updates status for cost allocation tags in bulk, with maximum batch size
update_cost_category_definition	Updates an existing Cost Category

Examples

```
## Not run:
svc <- costexplorer()
svc$create_anomaly_monitor(
  Foo = 123
)

## End(Not run)
```

marketplacecatalog *AWS Marketplace Catalog Service*

Description

Catalog API actions allow you to manage your entities through list, describe, and update capabilities. An entity can be a product or an offer on AWS Marketplace.

You can automate your entity update process by integrating the AWS Marketplace Catalog API with your AWS Marketplace product build or deployment pipelines. You can also create your own applications on top of the Catalog API to manage your products on AWS Marketplace.

Usage

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

Arguments

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

Value

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

Service syntax

```
svc <- marketplacecatalog(
  config = list(
    credentials = list(
      creds = list(
        access_key_id = "string",
```

```

        secret_access_key = "string",
        session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
),
endpoint = "string",
region = "string",
close_connection = "logical",
timeout = "numeric",
s3_force_path_style = "logical",
sts_regional_endpoint = "string"
),
credentials = list(
  creds = list(
    access_key_id = "string",
    secret_access_key = "string",
    session_token = "string"
  ),
  profile = "string",
  anonymous = "logical"
),
endpoint = "string",
region = "string"
)

```

Operations

batch_describe_entities	Returns metadata and content for multiple entities
cancel_change_set	Used to cancel an open change request
delete_resource_policy	Deletes a resource-based policy on an entity that is identified by its resource ARN
describe_change_set	Provides information about a given change set
describe_entity	Returns the metadata and content of the entity
get_resource_policy	Gets a resource-based policy of an entity that is identified by its resource ARN
list_change_sets	Returns the list of change sets owned by the account being used to make the call
list_entities	Provides the list of entities of a given type
list_tags_for_resource	Lists all tags that have been added to a resource (either an entity or change set)
put_resource_policy	Attaches a resource-based policy to an entity
start_change_set	Allows you to request changes for your entities
tag_resource	Tags a resource (either an entity or change set)
untag_resource	Removes a tag or list of tags from a resource (either an entity or change set)

Examples

```

## Not run:
svc <- marketplacecatalog()

```

```

svc$batch_describe_entities(
  Foo = 123
)

## End(Not run)

```

marketplacecommerceanalytics

AWS Marketplace Commerce Analytics

Description

Provides AWS Marketplace business intelligence data on-demand.

Usage

```

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

```

Arguments

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

- **credentials:**

- **creds:**

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

- **profile:** The name of a profile to use. If not given, then the default profile is used.

- **anonymous:** Set anonymous credentials.

- **endpoint:** The complete URL to use for the constructed client.

- **region:** The AWS Region used in instantiating the client.

- **close_connection:** Immediately close all HTTP connections.

- **timeout:** The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.

- **s3_force_path_style:** Set this to `true` to force the request to use path-style addressing, i.e. `http://s3.amazonaws.com/BUCKET/KEY`.

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

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

Value

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

Service syntax

```
svc <- marketplacecommerceanalytics(
  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

[generate_data_set](#) Given a data set type and data set publication date, asynchronously publishes the requested data s
[start_support_data_export](#) This target has been deprecated

Examples

```
## Not run:  
svc <- marketplacecommerceanalytics()  
svc$generate_data_set(  
  Foo = 123  
)  
  
## End(Not run)
```

marketplaceentitlementservice
AWS Marketplace Entitlement Service

Description

This reference provides descriptions of the AWS Marketplace Entitlement Service API.

AWS Marketplace Entitlement Service is used to determine the entitlement of a customer to a given product. An entitlement represents capacity in a product owned by the customer. For example, a customer might own some number of users or seats in an SaaS application or some amount of data capacity in a multi-tenant database.

Getting Entitlement Records

- *GetEntitlements*- Gets the entitlements for a Marketplace product.

Usage

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

Arguments

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

Value

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

Service syntax

```
svc <- marketplaceentitlementservice(
  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

[get_entitlements](#) GetEntitlements retrieves entitlement values for a given product

Examples

```

## Not run:
svc <- marketplaceentitlementservice()
svc$get_entitlements(
  Foo = 123
)

## End(Not run)

```


Description

AWS Marketplace Metering Service

This reference provides descriptions of the low-level AWS Marketplace Metering Service API.

AWS Marketplace sellers can use this API to submit usage data for custom usage dimensions.

For information on the permissions you need to use this API, see [AWS Marketplace metering and entitlement API permissions](#) in the *AWS Marketplace Seller Guide*.

Submitting Metering Records

- *MeterUsage* - Submits the metering record for an AWS Marketplace product. `meter_usage` is called from an EC2 instance or a container running on EKS or ECS.
- *BatchMeterUsage* - Submits the metering record for a set of customers. `batch_meter_usage` is called from a software-as-a-service (SaaS) application.

Accepting New Customers

- *ResolveCustomer* - Called by a SaaS application during the registration process. When a buyer visits your website during the registration process, the buyer submits a Registration Token through the browser. The Registration Token is resolved through this API to obtain a CustomerIdentifier along with the CustomerAWSAccountId and ProductCode.

Entitlement and Metering for Paid Container Products

- Paid container software products sold through AWS Marketplace must integrate with the AWS Marketplace Metering Service and call the `register_usage` operation for software entitlement and metering. Free and BYOL products for Amazon ECS or Amazon EKS aren't required to call `register_usage`, but you can do so if you want to receive usage data in your seller reports. For more information on using the `register_usage` operation, see [Container-Based Products](#).

`batch_meter_usage` API calls are captured by AWS CloudTrail. You can use Cloudtrail to verify that the SaaS metering records that you sent are accurate by searching for records with the eventName of `batch_meter_usage`. You can also use CloudTrail to audit records over time. For more information, see the *AWS CloudTrail User Guide*.

Usage

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

Arguments

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

- **credentials:**

– **creds:**

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

Value

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

Service syntax

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

```

    ),
    endpoint = "string",
    region = "string",
    close_connection = "logical",
    timeout = "numeric",
    s3_force_path_style = "logical",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    ),
    profile = "string",
    anonymous = "logical"
  ),
  endpoint = "string",
  region = "string"
)

```

Operations

batch_meter_usage	BatchMeterUsage is called from a SaaS application listed on AWS Marketplace to post metering records
meter_usage	API to emit metering records
register_usage	Paid container software products sold through AWS Marketplace must integrate with the AWS Marketplace
resolve_customer	ResolveCustomer is called by a SaaS application during the registration process

Examples

```

## Not run:
svc <- marketplacemetering()
svc$batch_meter_usage(
  Foo = 123
)

## End(Not run)

```

Description

Amazon Web Services Payment Cryptography Control Plane APIs manage encryption keys for use during payment-related cryptographic operations. You can create, import, export, share, manage, and delete keys. You can also manage Identity and Access Management (IAM) policies for keys. For more information, see [Identity and access management](#) in the *Amazon Web Services Payment Cryptography User Guide*.

To use encryption keys for payment-related transaction processing and associated cryptographic operations, you use the [Amazon Web Services Payment Cryptography Data Plane](#). You can perform actions like encrypt, decrypt, generate, and verify payment-related data.

All Amazon Web Services Payment Cryptography API calls must be signed and transmitted using Transport Layer Security (TLS). We recommend you always use the latest supported TLS version for logging API requests.

Amazon Web Services Payment Cryptography supports CloudTrail for control plane operations, a service that logs Amazon Web Services API calls and related events for your Amazon Web Services account and delivers them to an Amazon S3 bucket you specify. By using the information collected by CloudTrail, you can determine what requests were made to Amazon Web Services Payment Cryptography, who made the request, when it was made, and so on. If you don't configure a trail, you can still view the most recent events in the CloudTrail console. For more information, see the [CloudTrail User Guide](#).

Usage

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

Arguments

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

- **credentials:**
 - **creds:**
 - * **access_key_id:** AWS access key ID
 - * **secret_access_key:** AWS secret access key
 - * **session_token:** AWS temporary session token
 - **profile:** The name of a profile to use. If not given, then the default profile is used.
 - **anonymous:** Set anonymous credentials.
- **endpoint:** The complete URL to use for the constructed client.
- **region:** The AWS Region used in instantiating the client.
- **close_connection:** Immediately close all HTTP connections.
- **timeout:** The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.

- **s3_force_path_style**: Set this to true to force the request to use path-style addressing, i.e. `http://s3.amazonaws.com/BUCKET/KEY`.
- **sts_regional_endpoint**: Set sts regional endpoint resolver to regional or legacy <https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html>

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

Value

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

Service syntax

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

```

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

```

Operations

create_alias	Creates an alias, or a friendly name, for an Amazon Web Services Payment Cryptography key
create_key	Creates an Amazon Web Services Payment Cryptography key, a logical representation of a cryptog
delete_alias	Deletes the alias, but doesn't affect the underlying key
delete_key	Deletes the key material and metadata associated with Amazon Web Services Payment Cryptograp
export_key	Exports a key from Amazon Web Services Payment Cryptography
get_alias	Gets the Amazon Web Services Payment Cryptography key associated with the alias
get_key	Gets the key material for an Amazon Web Services Payment Cryptography key, including the im
get_parameters_for_export	Gets the export token and the signing key certificate to initiate a TR-34 key export from Amazon
get_parameters_for_import	Gets the import token and the wrapping key certificate in PEM format (base64 encoded) to initia
get_public_key_certificate	Gets the public key certificate of the asymmetric key pair that exists within Amazon Web Servic
import_key	Imports symmetric keys and public key certificates in PEM format (base64 encoded) into Amaz
list_aliases	Lists the aliases for all keys in the caller's Amazon Web Services account and Amazon Web Ser
list_keys	Lists the keys in the caller's Amazon Web Services account and Amazon Web Services Region
list_tags_for_resource	Lists the tags for an Amazon Web Services resource
restore_key	Cancels a scheduled key deletion during the waiting period
start_key_usage	Enables an Amazon Web Services Payment Cryptography key, which makes it active for cryptog
stop_key_usage	Disables an Amazon Web Services Payment Cryptography key, which makes it inactive within A
tag_resource	Adds or edits tags on an Amazon Web Services Payment Cryptography key
untag_resource	Deletes a tag from an Amazon Web Services Payment Cryptography key
update_alias	Associates an existing Amazon Web Services Payment Cryptography alias with a different key

Examples

```

## Not run:
svc <- paymentcryptographycontrolplane()
svc$create_alias(
  Foo = 123
)

## End(Not run)

```

 paymentcryptographydataplane

Payment Cryptography Data Plane

Description

You use the Amazon Web Services Payment Cryptography Data Plane to manage how encryption keys are used for payment-related transaction processing and associated cryptographic operations. You can encrypt, decrypt, generate, verify, and translate payment-related cryptographic operations in Amazon Web Services Payment Cryptography. For more information, see [Data operations](#) in the *Amazon Web Services Payment Cryptography User Guide*.

To manage your encryption keys, you use the [Amazon Web Services Payment Cryptography Control Plane](#). You can create, import, export, share, manage, and delete keys. You can also manage Identity and Access Management (IAM) policies for keys.

Usage

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

Arguments

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

- **credentials:**

- **creds:**

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

- **profile:** The name of a profile to use. If not given, then the default profile is used.

- **anonymous:** Set anonymous credentials.

- **endpoint:** The complete URL to use for the constructed client.

- **region:** The AWS Region used in instantiating the client.

- **close_connection:** Immediately close all HTTP connections.

- **timeout:** The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.

- **s3_force_path_style:** Set this to `true` to force the request to use path-style addressing, i.e. `http://s3.amazonaws.com/BUCKET/KEY`.

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

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

Value

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

Service syntax

```
svc <- paymentcryptographypdataplane(
  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

decrypt_data	Decrypts ciphertext data to plaintext using a symmetric (TDES, AES), asymmetric (RSA),
encrypt_data	Encrypts plaintext data to ciphertext using a symmetric (TDES, AES), asymmetric (RSA),
generate_card_validation_data	Generates card-related validation data using algorithms such as Card Verification Values (CVV),
generate_mac	Generates a Message Authentication Code (MAC) cryptogram within Amazon Web Services.
generate_mac_emv_pin_change	Generates an issuer script mac for EMV payment cards that use offline PINs as the cardholder's PIN.
generate_pin_data	Generates pin-related data such as PIN, PIN Verification Value (PVV), PIN Block, and PIN Offset.
re_encrypt_data	Re-encrypt ciphertext using DUKPT or Symmetric data encryption keys.
translate_pin_data	Translates encrypted PIN block from and to ISO 9564 formats 0,1,3,4.
verify_auth_request_cryptogram	Verifies Authorization Request Cryptogram (ARQC) for a EMV chip payment card authorization.
verify_card_validation_data	Verifies card-related validation data using algorithms such as Card Verification Values (CVV),
verify_mac	Verifies a Message Authentication Code (MAC).
verify_pin_data	Verifies pin-related data such as PIN and PIN Offset using algorithms including VISA PVV, and

Examples

```

## Not run:
svc <- paymentcryptographypdataplane()
svc$decrypt_data(
  Foo = 123
)

## End(Not run)

```

pricing

AWS Price List Service

Description

The Amazon Web Services Price List API is a centralized and convenient way to programmatically query Amazon Web Services for services, products, and pricing information. The Amazon Web Services Price List uses standardized product attributes such as Location, Storage Class, and Operating System, and provides prices at the SKU level. You can use the Amazon Web Services Price List to do the following:

- Build cost control and scenario planning tools
- Reconcile billing data
- Forecast future spend for budgeting purposes
- Provide cost benefit analysis that compare your internal workloads with Amazon Web Services

Use `GetServices` without a service code to retrieve the service codes for all Amazon Web Services services, then `GetServices` with a service code to retrieve the attribute names for that service. After you have the service code and attribute names, you can use `get_attribute_values` to see what values are available for an attribute. With the service code and an attribute name and value, you can use `get_products` to find specific products that you're interested in, such as an AmazonEC2 instance, with a Provisioned IOPS volumeType.

For more information, see [Using the Amazon Web Services Price List API](#) in the *Billing User Guide*.

Usage

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

Arguments

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

Value

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

Service syntax

```
svc <- pricing(
  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

describe_services	Returns the metadata for one service or a list of the metadata for all services
get_attribute_values	Returns a list of attribute values
get_price_list_file_url	This feature is in preview release and is subject to change
get_products	Returns a list of all products that match the filter criteria
list_price_lists	This feature is in preview release and is subject to change

Examples

```
## Not run:
svc <- pricing()
# Retrieves the service for the given Service Code.
svc$describe_services(
  FormatVersion = "aws_v1",
  MaxResults = 1L,
  ServiceCode = "AmazonEC2"
)

## End(Not run)
```

savingsplans

AWS Savings Plans

Description

Savings Plans are a pricing model that offer significant savings on Amazon Web Services usage (for example, on Amazon EC2 instances). You commit to a consistent amount of usage per hour, in the specified currency, for a term of one or three years, and receive a lower price for that usage. For more information, see the [Amazon Web Services Savings Plans User Guide](#).

Usage

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

Arguments

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

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

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

Value

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

Service syntax

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

```

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

```

Operations

create_savings_plan	Creates a Savings Plan
delete_queued_savings_plan	Deletes the queued purchase for the specified Savings Plan
describe_savings_plan_rates	Describes the rates for the specified Savings Plan
describe_savings_plans	Describes the specified Savings Plans
describe_savings_plans_offering_rates	Describes the offering rates for the specified Savings Plans
describe_savings_plans_offerings	Describes the offerings for the specified Savings Plans
list_tags_for_resource	Lists the tags for the specified resource
return_savings_plan	Returns the specified Savings Plan
tag_resource	Adds the specified tags to the specified resource
untag_resource	Removes the specified tags from the specified resource

Examples

```

## Not run:
svc <- savingsplans()
svc$create_savings_plan(
  Foo = 123
)

## End(Not run)

```

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