

Package: paws.end.user.computing (via r-universe)

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Description Interface to 'Amazon Web Services' end user computing services, including collaborative document editing, mobile intranet, and more <<https://aws.amazon.com/>>.

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URL <https://github.com/paws-r/paws>,
<https://paws-r.r-universe.dev/paws.end.user.computing>,
<https://www.paws-r-sdk.com>

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'ivschat_service.R' 'ivschat_interfaces.R'
'ivschat_operations.R' 'reexports_paws.common.R'
'workdocs_service.R' 'workdocs_interfaces.R'
'workdocs_operations.R' 'workmail_service.R'
'workmail_interfaces.R' 'workmail_operations.R'
'workmailmessageflow_service.R'
'workmailmessageflow_interfaces.R'
'workmailmessageflow_operations.R' 'workspaces_service.R'
'workspaces_interfaces.R' 'workspaces_operations.R'
'workspacesweb_service.R' 'workspacesweb_interfaces.R'
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appstream	<i>Amazon AppStream</i>
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Description

Amazon WorkSpaces Applications

This is the *Amazon WorkSpaces Applications API Reference*. This documentation provides descriptions and syntax for each of the actions and data types in WorkSpaces Applications. WorkSpaces Applications is a fully managed, secure application streaming service that lets you stream desktop applications to users without rewriting applications. WorkSpaces Applications manages the AWS resources that are required to host and run your applications, scales automatically, and provides access to your users on demand.

You can call the WorkSpaces Applications API operations by using an interface VPC endpoint (interface endpoint). For more information, see [Access WorkSpaces Applications API Operations and CLI Commands Through an Interface VPC Endpoint](#) in the *Amazon WorkSpaces Applications Administration Guide*.

To learn more about WorkSpaces Applications, see the following resources:

- [Amazon WorkSpaces Applications product page](#)
- [Amazon WorkSpaces Applications documentation](#)

Usage

```
appstream(
    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 • use_dual_stack: Set this to true to use the dualstack (IPv4 and IPv6) endpoint for a service, where available, falling back to the regular endpoint when it isn't. Defaults to the <code>AWS_USE_DUALSTACK_ENDPOINT</code> environment variable when unset.
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 <- appstream(
  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",
    use_dual_stack = "logical"
  ),
  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_app_block_builder_app_block](#)
[associate_application_fleet](#)
[associate_application_to_entitlement](#)
[associate_fleet](#)
[associate_software_to_image_builder](#)
[batch_associate_user_stack](#)
[batch_disassociate_user_stack](#)

Associates the specified app block builder with the specified app block
 Associates the specified application with the specified fleet
 Associates an application to entitle
 Associates the specified fleet with the specified stack
 Associates license included application(s) with an existing image builder
 Associates the specified users with the specified stacks
 Disassociates the specified users from the specified stacks

copy_image	Copies the image within the same region or to a new region within the
create_app_block	Creates an app block
create_app_block_builder	Creates an app block builder
create_app_block_builder_streaming_url	Creates a URL to start a create app block builder streaming session
create_application	Creates an application
create_directory_config	Creates a Directory Config object in WorkSpaces Applications
create_entitlement	Creates a new entitlement
create_export_image_task	Creates a task to export a WorkSpaces Applications image to an EC2
create_fleet	Creates a fleet
create_image_builder	Creates an image builder
create_image_builder_streaming_url	Creates a URL to start an image builder streaming session
create_imported_image	Creates a custom WorkSpaces Applications image by importing an EC
create_stack	Creates a stack to start streaming applications to users
create_streaming_url	Creates a temporary URL to start an WorkSpaces Applications stream
create_theme_for_stack	Creates custom branding that customizes the appearance of the stream
create_updated_image	Creates a new image with the latest Windows operating system update
create_usage_report_subscription	Creates a usage report subscription
create_user	Creates a new user in the user pool
delete_app_block	Deletes an app block
delete_app_block_builder	Deletes an app block builder
delete_application	Deletes an application
delete_directory_config	Deletes the specified Directory Config object from WorkSpaces Appli
delete_entitlement	Deletes the specified entitlement
delete_fleet	Deletes the specified fleet
delete_image	Deletes the specified image
delete_image_builder	Deletes the specified image builder and releases the capacity
delete_image_permissions	Deletes permissions for the specified private image
delete_stack	Deletes the specified stack
delete_theme_for_stack	Deletes custom branding that customizes the appearance of the stream
delete_usage_report_subscription	Disables usage report generation
delete_user	Deletes a user from the user pool
describe_app_block_builder_app_block_associations	Retrieves a list that describes one or more app block builder associatio
describe_app_block_builders	Retrieves a list that describes one or more app block builders
describe_app_blocks	Retrieves a list that describes one or more app blocks
describe_application_fleet_associations	Retrieves a list that describes one or more application fleet association
describe_applications	Retrieves a list that describes one or more applications
describe_app_license_usage	Retrieves license included application usage information
describe_directory_configs	Retrieves a list that describes one or more specified Directory Config o
describe_entitlements	Retrieves a list that describes one of more entitlements
describe_fleets	Retrieves a list that describes one or more specified fleets, if the fleet r
describe_image_builders	Retrieves a list that describes one or more specified image builders, if
describe_image_permissions	Retrieves a list that describes the permissions for shared AWS account
describe_images	Retrieves a list that describes one or more specified images, if the ima
describe_sessions	Retrieves a list that describes the streaming sessions for a specified sta
describe_software_associations	Retrieves license included application associations for a specified reso
describe_stacks	Retrieves a list that describes one or more specified stacks, if the stack
describe_theme_for_stack	Retrieves a list that describes the theme for a specified stack
describe_usage_report_subscriptions	Retrieves a list that describes one or more usage report subscriptions

<code>describe_users</code>	Retrieves a list that describes one or more specified users in the user pool
<code>describe_user_stack_associations</code>	Retrieves a list that describes the UserStackAssociation objects
<code>disable_user</code>	Disables the specified user in the user pool
<code>disassociate_app_block_builder_app_block</code>	Disassociates a specified app block builder from a specified app block
<code>disassociate_application_fleet</code>	Disassociates the specified application from the fleet
<code>disassociate_application_from_entitlement</code>	Deletes the specified application from the specified entitlement
<code>disassociate_fleet</code>	Disassociates the specified fleet from the specified stack
<code>disassociate_software_from_image_builder</code>	Removes license included application(s) association(s) from an image
<code>drain_session_instance</code>	Drains the instance hosting the specified streaming session
<code>enable_user</code>	Enables a user in the user pool
<code>expire_session</code>	Immediately stops the specified streaming session
<code>get_export_image_task</code>	Retrieves information about an export image task, including its current state
<code>list_associated_fleets</code>	Retrieves the name of the fleet that is associated with the specified stack
<code>list_associated_stacks</code>	Retrieves the name of the stack with which the specified fleet is associated
<code>list_entitled_applications</code>	Retrieves a list of entitled applications
<code>list_export_image_tasks</code>	Lists export image tasks, with optional filtering and pagination
<code>list_tags_for_resource</code>	Retrieves a list of all tags for the specified WorkSpaces Applications resource
<code>start_app_block_builder</code>	Starts an app block builder
<code>start_fleet</code>	Starts the specified fleet
<code>start_image_builder</code>	Starts the specified image builder
<code>start_software_deployment_to_image_builder</code>	Initiates license included applications deployment to an image builder
<code>stop_app_block_builder</code>	Stops an app block builder
<code>stop_fleet</code>	Stops the specified fleet
<code>stop_image_builder</code>	Stops the specified image builder
<code>tag_resource</code>	Adds or overwrites one or more tags for the specified WorkSpaces Applications resource
<code>untag_resource</code>	Disassociates one or more specified tags from the specified WorkSpaces Applications resource
<code>update_app_block_builder</code>	Updates an app block builder
<code>update_application</code>	Updates the specified application
<code>update_directory_config</code>	Updates the specified Directory Config object in WorkSpaces Applications
<code>update_entitlement</code>	Updates the specified entitlement
<code>update_fleet</code>	Updates the specified fleet
<code>update_image_permissions</code>	Adds or updates permissions for the specified private image
<code>update_stack</code>	Updates the specified fields for the specified stack
<code>update_theme_for_stack</code>	Updates custom branding that customizes the appearance of the stream

Examples

```
## Not run:
svc <- appstream()
svc$associate_app_block_builder_app_block(
  Foo = 123
)

## End(Not run)
```

chatbot

AWS Chatbot

Description

The *AWS Chatbot API Reference* provides descriptions, API request parameters, and the XML response for each of the AWS Chatbot API actions.

AWS Chatbot APIs are currently available in the following Regions:

- US East (Ohio) - us-east-2
- US West (Oregon) - us-west-2
- Asia Pacific (Singapore) - ap-southeast-1
- Europe (Ireland) - eu-west-1

The AWS Chatbot console can only be used in US East (Ohio). Your configuration data however, is stored in each of the relevant available Regions.

Your AWS CloudTrail events are logged in whatever Region you call from, not US East (N. Virginia) by default.

Usage

```
chatbot(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>

	<ul style="list-style-type: none"> • use_dual_stack: Set this to true to use the dualstack (IPv4 and IPv6) endpoint for a service, where available, falling back to the regular endpoint when it isn't. Defaults to the AWS_USE_DUALSTACK_ENDPOINT environment variable when unset.
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 <- chatbot(
  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",
    use_dual_stack = "logical"
  ),
  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_to_configuration	Links a resource (for example, a custom action) to a channel configuration
create_chime_webhook_configuration	Creates an AWS Chatbot configuration for Amazon Chime
create_custom_action	Creates a custom action that can be invoked as an alias or as a button on a r
create_microsoft_teams_channel_configuration	Creates an AWS Chatbot configuration for Microsoft Teams
create_slack_channel_configuration	Creates an AWS Chatbot configuration for Slack
delete_chime_webhook_configuration	Deletes a Amazon Chime webhook configuration for AWS Chatbot
delete_custom_action	Deletes a custom action
delete_microsoft_teams_channel_configuration	Deletes a Microsoft Teams channel configuration for AWS Chatbot
delete_microsoft_teams_configured_team	Deletes the Microsoft Teams team authorization allowing for channels to be
delete_microsoft_teams_user_identity	Identifes a user level permission for a channel configuration
delete_slack_channel_configuration	Deletes a Slack channel configuration for AWS Chatbot
delete_slack_user_identity	Deletes a user level permission for a Slack channel configuration
delete_slack_workspace_authorization	Deletes the Slack workspace authorization that allows channels to be config
describe_chime_webhook_configurations	Lists Amazon Chime webhook configurations optionally filtered by ChatC
describe_slack_channel_configurations	Lists Slack channel configurations optionally filtered by ChatConfiguration
describe_slack_user_identities	Lists all Slack user identities with a mapped role
describe_slack_workspaces	List all authorized Slack workspaces connected to the AWS Account onboa
disassociate_from_configuration	Unlink a resource, for example a custom action, from a channel configurati
get_account_preferences	Returns AWS Chatbot account preferences
get_custom_action	Returns a custom action
get_microsoft_teams_channel_configuration	Returns a Microsoft Teams channel configuration in an AWS account
list_associations	Lists resources associated with a channel configuration
list_custom_actions	Lists custom actions defined in this account
list_microsoft_teams_channel_configurations	Lists all AWS Chatbot Microsoft Teams channel configurations in an AWS
list_microsoft_teams_configured_teams	Lists all authorized Microsoft Teams for an AWS Account
list_microsoft_teams_user_identities	A list all Microsoft Teams user identities with a mapped role
list_tags_for_resource	Lists all of the tags associated with the Amazon Resource Name (ARN) tha
tag_resource	Attaches a key-value pair to a resource, as identified by its Amazon Resour
untag_resource	Detaches a key-value pair from a resource, as identified by its Amazon Res
update_account_preferences	Updates AWS Chatbot account preferences
update_chime_webhook_configuration	Updates a Amazon Chime webhook configuration
update_custom_action	Updates a custom action
update_microsoft_teams_channel_configuration	Updates an Microsoft Teams channel configuration
update_slack_channel_configuration	Updates a Slack channel configuration

Examples

```
## Not run:
svc <- chatbot()
svc$associate_to_configuration(
  Foo = 123
)

## End(Not run)
```

ivschat

Amazon Interactive Video Service Chat

Description

Introduction

The Amazon IVS Chat control-plane API enables you to create and manage Amazon IVS Chat resources. You also need to integrate with the [Amazon IVS Chat Messaging API](#), to enable users to interact with chat rooms in real time.

The API is an AWS regional service. For a list of supported regions and Amazon IVS Chat HTTPS service endpoints, see the Amazon IVS Chat information on the [Amazon IVS page](#) in the *AWS General Reference*.

This document describes HTTP operations. There is a separate *messaging* API for managing Chat resources; see the [Amazon IVS Chat Messaging API Reference](#).

Notes on terminology:

- You create service applications using the Amazon IVS Chat API. We refer to these as *applications*.
- You create front-end client applications (browser and Android/iOS apps) using the Amazon IVS Chat Messaging API. We refer to these as *clients*.

Resources

The following resources are part of Amazon IVS Chat:

- **LoggingConfiguration** — A configuration that allows customers to store and record sent messages in a chat room. See the Logging Configuration endpoints for more information.
- **Room** — The central Amazon IVS Chat resource through which clients connect to and exchange chat messages. See the Room endpoints for more information.

Tagging

A *tag* is a metadata label that you assign to an AWS resource. A tag comprises a *key* and a *value*, both set by you. For example, you might set a tag as `topic:nature` to label a particular video category. See [Best practices and strategies](#) in *Tagging Amazon Web Services Resources and Tag Editor* for details, including restrictions that apply to tags and "Tag naming limits and requirements"; Amazon IVS Chat has no service-specific constraints beyond what is documented there.

Tags can help you identify and organize your AWS resources. For example, you can use the same tag for different resources to indicate that they are related. You can also use tags to manage access (see [Access Tags](#)).

The Amazon IVS Chat API has these tag-related operations: [tag_resource](#), [untag_resource](#), and [list_tags_for_resource](#). The following resource supports tagging: Room.

At most 50 tags can be applied to a resource.

API Access Security

Your Amazon IVS Chat applications (service applications and clients) must be authenticated and authorized to access Amazon IVS Chat resources. Note the differences between these concepts:

- *Authentication* is about verifying identity. Requests to the Amazon IVS Chat API must be signed to verify your identity.
- *Authorization* is about granting permissions. Your IAM roles need to have permissions for Amazon IVS Chat API requests.

Users (viewers) connect to a room using secure access tokens that you create using the [create_chat_token](#) operation through the AWS SDK. You call `CreateChatToken` for every user's chat session, passing identity and authorization information about the user.

Signing API Requests

HTTP API requests must be signed with an AWS SigV4 signature using your AWS security credentials. The AWS Command Line Interface (CLI) and the AWS SDKs take care of signing the underlying API calls for you. However, if your application calls the Amazon IVS Chat HTTP API directly, it's your responsibility to sign the requests.

You generate a signature using valid AWS credentials for an IAM role that has permission to perform the requested action. For example, `DeleteMessage` requests must be made using an IAM role that has the `ivschat:DeleteMessage` permission.

For more information:

- Authentication and generating signatures — See [Authenticating Requests \(Amazon Web Services Signature Version 4\)](#) in the *Amazon Web Services General Reference*.
- Managing Amazon IVS permissions — See [Identity and Access Management](#) on the Security page of the *Amazon IVS User Guide*.

Amazon Resource Names (ARNs)

ARNs uniquely identify AWS resources. An ARN is required when you need to specify a resource unambiguously across all of AWS, such as in IAM policies and API calls. For more information, see [Amazon Resource Names](#) in the *AWS General Reference*.

Usage

```
ivschat(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>
- **use_dual_stack:** Set this to true to use the dualstack (IPv4 and IPv6) endpoint for a service, where available, falling back to the regular endpoint when it isn't. Defaults to the `AWS_USE_DUALSTACK_ENDPOINT` environment variable when unset.

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 <- ivschat(
  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",
use_dual_stack = "logical"
),
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_chat_token	Creates an encrypted token that is used by a chat participant to establish an individual WebSocket connection.
create_logging_configuration	Creates a logging configuration that allows clients to store and record sent messages.
create_room	Creates a room that allows clients to connect and pass messages.
delete_logging_configuration	Deletes the specified logging configuration.
delete_message	Sends an event to a specific room which directs clients to delete a specific message; that is, unreads the message.
delete_room	Deletes the specified room.
disconnect_user	Disconnects all connections using a specified user ID from a room.
get_logging_configuration	Gets the specified logging configuration.
get_room	Gets the specified room.
list_logging_configurations	Gets summary information about all your logging configurations in the AWS region where the API request is made.
list_rooms	Gets summary information about all your rooms in the AWS region where the API request is made.
list_tags_for_resource	Gets information about AWS tags for the specified ARN.
send_event	Sends an event to a room.
tag_resource	Adds or updates tags for the AWS resource with the specified ARN.
untag_resource	Removes tags from the resource with the specified ARN.
update_logging_configuration	Updates a specified logging configuration.
update_room	Updates a room's configuration.

Examples

```
## Not run:
svc <- ivschat()
svc$create_chat_token(
  Foo = 123
)

## End(Not run)
```

workdocs

Amazon WorkDocs

Description

The Amazon WorkDocs API is designed for the following use cases:

- **File Migration:** File migration applications are supported for users who want to migrate their files from an on-premises or off-premises file system or service. Users can insert files into a user directory structure, as well as allow for basic metadata changes, such as modifications to the permissions of files.
- **Security:** Support security applications are supported for users who have additional security needs, such as antivirus or data loss prevention. The API actions, along with CloudTrail, allow these applications to detect when changes occur in Amazon WorkDocs. Then, the application can take the necessary actions and replace the target file. If the target file violates the policy, the application can also choose to email the user.
- **eDiscovery/Analytics:** General administrative applications are supported, such as eDiscovery and analytics. These applications can choose to mimic or record the actions in an Amazon WorkDocs site, along with CloudTrail, to replicate data for eDiscovery, backup, or analytical applications.

All Amazon WorkDocs API actions are Amazon authenticated and certificate-signed. They not only require the use of the Amazon Web Services SDK, but also allow for the exclusive use of IAM users and roles to help facilitate access, trust, and permission policies. By creating a role and allowing an IAM user to access the Amazon WorkDocs site, the IAM user gains full administrative visibility into the entire Amazon WorkDocs site (or as set in the IAM policy). This includes, but is not limited to, the ability to modify file permissions and upload any file to any user. This allows developers to perform the three use cases above, as well as give users the ability to grant access on a selective basis using the IAM model.

The pricing for Amazon WorkDocs APIs varies depending on the API call type for these actions:

- READ (Get*)
- WRITE (Activate*, Add*, Create*, Deactivate*, Initiate*, Update*)
- LIST (Describe*)
- DELETE*, CANCEL

For information about Amazon WorkDocs API pricing, see [Amazon WorkDocs Pricing](#).

Usage

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

Arguments

config	<p>Optional configuration of credentials, endpoint, and/or region.</p> <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <ul style="list-style-type: none"> * access_key_id: AWS access key ID * secret_access_key: AWS secret access key * session_token: AWS temporary session token – profile: The name of a profile to use. If not given, then the default profile is used. – anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html • use_dual_stack: Set this to true to use the dualstack (IPv4 and IPv6) endpoint for a service, where available, falling back to the regular endpoint when it isn't. Defaults to the <code>AWS_USE_DUALSTACK_ENDPOINT</code> environment variable when unset.
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 <- workdocs(
  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",
    use_dual_stack = "logical"
  ),
  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_document_version_upload	Aborts the upload of the specified document version that was previously initiated by InitiateDocumentVersionUpload
activate_user	Activates the specified user
add_resource_permissions	Creates a set of permissions for the specified folder or document
create_comment	Adds a new comment to the specified document version
create_custom_metadata	Adds one or more custom properties to the specified resource (a folder, document, or version)
create_folder	Creates a folder with the specified name and parent folder
create_labels	Adds the specified list of labels to the given resource (a document or folder)
create_notification_subscription	Configure Amazon WorkDocs to use Amazon SNS notifications
create_user	Creates a user in a Simple AD or Microsoft AD directory
deactivate_user	Deactivates the specified user, which revokes the user's access to Amazon WorkDocs
delete_comment	Deletes the specified comment from the document version
delete_custom_metadata	Deletes custom metadata from the specified resource

<code>delete_document</code>	Permanently deletes the specified document and its associated metadata
<code>delete_document_version</code>	Deletes a specific version of a document
<code>delete_folder</code>	Permanently deletes the specified folder and its contents
<code>delete_folder_contents</code>	Deletes the contents of the specified folder
<code>delete_labels</code>	Deletes the specified list of labels from a resource
<code>delete_notification_subscription</code>	Deletes the specified subscription from the specified organization
<code>delete_user</code>	Deletes the specified user from a Simple AD or Microsoft AD directory
<code>describe_activities</code>	Describes the user activities in a specified time period
<code>describe_comments</code>	List all the comments for the specified document version
<code>describe_document_versions</code>	Retrieves the document versions for the specified document
<code>describe_folder_contents</code>	Describes the contents of the specified folder, including its documents and subfolders
<code>describe_groups</code>	Describes the groups specified by the query
<code>describe_notification_subscriptions</code>	Lists the specified notification subscriptions
<code>describe_resource_permissions</code>	Describes the permissions of a specified resource
<code>describe_root_folders</code>	Describes the current user's special folders; the RootFolder and the RecycleBin
<code>describe_users</code>	Describes the specified users
<code>get_current_user</code>	Retrieves details of the current user for whom the authentication token was generated
<code>get_document</code>	Retrieves details of a document
<code>get_document_path</code>	Retrieves the path information (the hierarchy from the root folder) for the requested document
<code>get_document_version</code>	Retrieves version metadata for the specified document
<code>get_folder</code>	Retrieves the metadata of the specified folder
<code>get_folder_path</code>	Retrieves the path information (the hierarchy from the root folder) for the specified folder
<code>get_resources</code>	Retrieves a collection of resources, including folders and documents
<code>initiate_document_version_upload</code>	Creates a new document object and version object
<code>remove_all_resource_permissions</code>	Removes all the permissions from the specified resource
<code>remove_resource_permission</code>	Removes the permission for the specified principal from the specified resource
<code>restore_document_versions</code>	Recovers a deleted version of an Amazon WorkDocs document
<code>search_resources</code>	Searches metadata and the content of folders, documents, document versions, and comments
<code>update_document</code>	Updates the specified attributes of a document
<code>update_document_version</code>	Changes the status of the document version to ACTIVE
<code>update_folder</code>	Updates the specified attributes of the specified folder
<code>update_user</code>	Updates the specified attributes of the specified user, and grants or revokes administrative permissions

Examples

```
## Not run:
svc <- workdocs()
svc$abort_document_version_upload(
  Foo = 123
)

## End(Not run)
```

workmail

*Amazon WorkMail***Description**

WorkMail is a secure, managed business email and calendaring service with support for existing desktop and mobile email clients. You can access your email, contacts, and calendars using Microsoft Outlook, your browser, or other native iOS and Android email applications. You can integrate WorkMail with your existing corporate directory and control both the keys that encrypt your data and the location in which your data is stored.

The WorkMail API is designed for the following scenarios:

- Listing and describing organizations
- Managing users
- Managing groups
- Managing resources

All WorkMail API operations are Amazon-authenticated and certificate-signed. They not only require the use of the AWS SDK, but also allow for the exclusive use of AWS Identity and Access Management users and roles to help facilitate access, trust, and permission policies. By creating a role and allowing an IAM user to access the WorkMail site, the IAM user gains full administrative visibility into the entire WorkMail organization (or as set in the IAM policy). This includes, but is not limited to, the ability to create, update, and delete users, groups, and resources. This allows developers to perform the scenarios listed above, as well as give users the ability to grant access on a selective basis using the IAM model.

Usage

```
workmail(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-endpoints.html • use_dual_stack: Set this to true to use the dualstack (IPv4 and IPv6) endpoint for a service, where available, falling back to the regular endpoint when it isn't. Defaults to the <code>AWS_USE_DUALSTACK_ENDPOINT</code> environment variable when unset.
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 <- workmail(
  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",
        use_dual_stack = "logical"
    ),
    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_delegate_to_resource	Adds a member (user or group) to the resource's set of delegates
associate_member_to_group	Adds a member (user or group) to the group's set
assume_impersonation_role	Assumes an impersonation role for the given WorkMail organization
cancel_mailbox_export_job	Cancels a mailbox export job
create_alias	Adds an alias to the set of a given member (user or group) of WorkMail
create_availability_configuration	Creates an AvailabilityConfiguration for the given WorkMail organization and domain
create_group	Creates a group that can be used in WorkMail by calling the RegisterToWorkMail operation
create_identity_center_application	Creates the WorkMail application in IAM Identity Center that can be used later in WorkMail
create_impersonation_role	Creates an impersonation role for the given WorkMail organization
create_mobile_device_access_rule	Creates a new mobile device access rule for the specified WorkMail organization
create_organization	Creates a new WorkMail organization
create_resource	Creates a new WorkMail resource
create_user	Creates a user who can be used in WorkMail by calling the RegisterToWorkMail operation
delete_access_control_rule	Deletes an access control rule for the specified WorkMail organization
delete_alias	Remove one or more specified aliases from a set of aliases for a given user
delete_availability_configuration	Deletes the AvailabilityConfiguration for the given WorkMail organization and domain
delete_email_monitoring_configuration	Deletes the email monitoring configuration for a specified organization
delete_group	Deletes a group from WorkMail
delete_identity_center_application	Deletes the IAM Identity Center application from WorkMail
delete_identity_provider_configuration	Disables the integration between IdC and WorkMail
delete_impersonation_role	Deletes an impersonation role for the given WorkMail organization
delete_mailbox_permissions	Deletes permissions granted to a member (user or group)
delete_mobile_device_access_override	Deletes the mobile device access override for the given WorkMail organization, user, or group
delete_mobile_device_access_rule	Deletes a mobile device access rule for the specified WorkMail organization
delete_organization	Deletes an WorkMail organization and all underlying AWS resources managed by WorkMail
delete_personal_access_token	Deletes the Personal Access Token from the provided WorkMail Organization
delete_resource	Deletes the specified resource
delete_retention_policy	Deletes the specified retention policy from the specified organization
delete_user	Deletes a user from WorkMail and all subsequent systems
deregister_from_work_mail	Mark a user, group, or resource as no longer used in WorkMail

deregister_mail_domain	Removes a domain from WorkMail, stops email routing to WorkMail, and removes the domain from the organization's list of domains.
describe_email_monitoring_configuration	Describes the current email monitoring configuration for a specified organization.
describe_entity	Returns basic details about an entity in WorkMail.
describe_group	Returns the data available for the group.
describe_identity_provider_configuration	Returns detailed information on the current IdC setup for the WorkMail organization.
describe_inbound_dmarc_settings	Lists the settings in a DMARC policy for a specified organization.
describe_mailbox_export_job	Describes the current status of a mailbox export job.
describe_organization	Provides more information regarding a given organization based on its identifier.
describe_resource	Returns the data available for the resource.
describe_user	Provides information regarding the user.
disassociate_delegate_from_resource	Removes a member from the resource's set of delegates.
disassociate_member_from_group	Removes a member from a group.
get_access_control_effect	Gets the effects of an organization's access control rules as they apply to a specified user or resource.
get_default_retention_policy	Gets the default retention policy details for the specified organization.
get_impersonation_role	Gets the impersonation role details for the given WorkMail organization.
get_impersonation_role_effect	Tests whether the given impersonation role can impersonate a target user.
get_mailbox_details	Requests a user's mailbox details for a specified organization and user.
get_mail_domain	Gets details for a mail domain, including domain records required to configure your domain.
get_mobile_device_access_effect	Simulates the effect of the mobile device access rules for the given attributes of a user or resource.
get_mobile_device_access_override	Gets the mobile device access override for the given WorkMail organization, user, or resource.
get_personal_access_token_metadata	Requests details of a specific Personal Access Token within the WorkMail organization.
list_access_control_rules	Lists the access control rules for the specified organization.
list_aliases	Creates a paginated call to list the aliases associated with a given entity.
list_availability_configurations	List all the AvailabilityConfiguration's for the given WorkMail organization.
list_group_members	Returns an overview of the members of a group.
list_groups	Returns summaries of the organization's groups.
list_groups_for_entity	Returns all the groups to which an entity belongs.
list_impersonation_roles	Lists all the impersonation roles for the given WorkMail organization.
list_mailbox_export_jobs	Lists the mailbox export jobs started for the specified organization within the last 30 days.
list_mailbox_permissions	Lists the mailbox permissions associated with a user, group, or resource mailbox.
list_mail_domains	Lists the mail domains in a given WorkMail organization.
list_mobile_device_access_overrides	Lists all the mobile device access overrides for any given combination of WorkMail organization, user, or resource.
list_mobile_device_access_rules	Lists the mobile device access rules for the specified WorkMail organization.
list_organizations	Returns summaries of the customer's organizations.
list_personal_access_tokens	Returns a summary of your Personal Access Tokens.
list_resource_delegates	Lists the delegates associated with a resource.
list_resources	Returns summaries of the organization's resources.
list_tags_for_resource	Lists the tags applied to an WorkMail organization resource.
list_users	Returns summaries of the organization's users.
put_access_control_rule	Adds a new access control rule for the specified organization.
put_email_monitoring_configuration	Creates or updates the email monitoring configuration for a specified organization.
put_identity_provider_configuration	Enables integration between IAM Identity Center (IdC) and WorkMail to proxy authentication.
put_inbound_dmarc_settings	Enables or disables a DMARC policy for a given organization.
put_mailbox_permissions	Sets permissions for a user, group, or resource.
put_mobile_device_access_override	Creates or updates a mobile device access override for the given WorkMail organization, user, or resource.
put_retention_policy	Puts a retention policy to the specified organization.
register_mail_domain	Registers a new domain in WorkMail and SES, and configures it for use by WorkMail.
register_to_work_mail	Registers an existing and disabled user, group, or resource for WorkMail use by a user.

<code>reset_password</code>	Allows the administrator to reset the password for a user
<code>start_mailbox_export_job</code>	Starts a mailbox export job to export MIME-format email messages and calendar
<code>tag_resource</code>	Applies the specified tags to the specified WorkMailorganization resource
<code>test_availability_configuration</code>	Performs a test on an availability provider to ensure that access is allowed
<code>untag_resource</code>	Untags the specified tags from the specified WorkMail organization resource
<code>update_availability_configuration</code>	Updates an existing AvailabilityConfiguration for the given WorkMail organization
<code>update_default_mail_domain</code>	Updates the default mail domain for an organization
<code>update_group</code>	Updates attributes in a group
<code>update_impersonation_role</code>	Updates an impersonation role for the given WorkMail organization
<code>update_mailbox_quota</code>	Updates a user's current mailbox quota for a specified organization and user
<code>update_mobile_device_access_rule</code>	Updates a mobile device access rule for the specified WorkMail organization
<code>update_primary_email_address</code>	Updates the primary email for a user, group, or resource
<code>update_resource</code>	Updates data for the resource
<code>update_user</code>	Updates data for the user

Examples

```
## Not run:
svc <- workmail()
svc$associate_delegate_to_resource(
  Foo = 123
)

## End(Not run)
```

workmailmessageflow	<i>Amazon WorkMail Message Flow</i>
---------------------	-------------------------------------

Description

The WorkMail Message Flow API provides access to email messages as they are being sent and received by a WorkMail organization.

Usage

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

Arguments

config	<p>Optional configuration of credentials, endpoint, and/or region.</p> <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <ul style="list-style-type: none"> * access_key_id: AWS access key ID * secret_access_key: AWS secret access key * session_token: AWS temporary session token – profile: The name of a profile to use. If not given, then the default profile is used. – anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoints.html • use_dual_stack: Set this to true to use the dualstack (IPv4 and IPv6) endpoint for a service, where available, falling back to the regular endpoint when it isn't. Defaults to the <code>AWS_USE_DUALSTACK_ENDPOINT</code> environment variable when unset.
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 <- workmailmessageflow(
  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",
    use_dual_stack = "logical"
  ),
  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_raw_message_content	Retrieves the raw content of an in-transit email message, in MIME format
put_raw_message_content	Updates the raw content of an in-transit email message, in MIME format

Examples

```

## Not run:
svc <- workmailmessageflow()
svc$get_raw_message_content(
  Foo = 123
)

```

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

workspaces

Amazon WorkSpaces

Description

Amazon WorkSpaces Service

Amazon WorkSpaces enables you to provision virtual, cloud-based Microsoft Windows or Amazon Linux desktops for your users, known as *WorkSpaces*. WorkSpaces eliminates the need to procure and deploy hardware or install complex software. You can quickly add or remove users as your needs change. Users can access their virtual desktops from multiple devices or web browsers.

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

You can also manage your WorkSpaces resources using the WorkSpaces console, Command Line Interface (CLI), and SDKs. For more information about administering WorkSpaces, see the [Amazon WorkSpaces Administration Guide](#). For more information about using the Amazon WorkSpaces client application or web browser to access provisioned WorkSpaces, see the [Amazon WorkSpaces User Guide](#). For more information about using the CLI to manage your WorkSpaces resources, see the [WorkSpaces section of the CLI Reference](#).

Usage

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

Arguments

- | | |
|--------|---|
| config | Optional configuration of credentials, endpoint, and/or region. |
|--------|---|
- **credentials:**
 - **creds:**
 - * **access_key_id:** AWS access key ID
 - * **secret_access_key:** AWS secret access key
 - * **session_token:** AWS temporary session token
 - **profile:** The name of a profile to use. If not given, then the default profile is used.
 - **anonymous:** Set anonymous credentials.
 - **endpoint:** The complete URL to use for the constructed client.

	<ul style="list-style-type: none"> • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoints.html • use_dual_stack: Set this to true to use the dualstack (IPv4 and IPv6) endpoint for a service, where available, falling back to the regular endpoint when it isn't. Defaults to the <code>AWS_USE_DUALSTACK_ENDPOINT</code> environment variable when unset.
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 <- workspaces(
  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",
        use_dual_stack = "logical"
    ),
    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_account_link_invitation](#)
[associate_connection_alias](#)
[associate_ip_groups](#)
[associate_workspace_application](#)
[authorize_ip_rules](#)
[copy_workspace_image](#)
[create_account_link_invitation](#)
[create_connect_client_add_in](#)
[create_connection_alias](#)
[create_ip_group](#)
[create_standby_workspaces](#)
[create_tags](#)
[create_updated_workspace_image](#)
[create_workspace_bundle](#)
[create_workspace_image](#)
[create_workspaces](#)
[create_workspaces_pool](#)
[delete_account_link_invitation](#)
[delete_client_branding](#)
[delete_connect_client_add_in](#)
[delete_connection_alias](#)
[delete_ip_group](#)
[delete_tags](#)
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[deploy_workspace_applications](#)
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Accepts the account link invitation

Associates the specified connection alias with the specified directory to enable

Associates the specified IP access control group with the specified directory

Associates the specified application to the specified WorkSpace

Adds one or more rules to the specified IP access control group

Copies the specified image from the specified Region to the current Region

Creates the account link invitation

Creates a client-add-in for Connect Customer within a directory

Creates the specified connection alias for use with cross-Region redirection

Creates an IP access control group

Creates a standby WorkSpace in a secondary Region

Creates the specified tags for the specified WorkSpaces resource

Creates a new updated WorkSpace image based on the specified source image

Creates the specified WorkSpace bundle

Creates a new WorkSpace image from an existing WorkSpace

Creates one or more WorkSpaces

End of support notice: On December 31, 2027, Amazon Web Services will end

Deletes the account link invitation

Deletes customized client branding

Deletes a client-add-in for Connect Customer that is configured within a directo

Deletes the specified connection alias

Deletes the specified IP access control group

Deletes the specified tags from the specified WorkSpaces resource

Deletes the specified WorkSpace bundle

Deletes the specified image from your account

Deploys associated applications to the specified WorkSpace

Deregisters the specified directory

Retrieves a list that describes the configuration of Bring Your Own License (BY

<code>describe_account_modifications</code>	Retrieves a list that describes modifications to the configuration of Bring Your Own License (BYOL) for the specified WorkSpaces resource
<code>describe_application_associations</code>	Describes the associations between the application and the specified associated WorkSpaces resource
<code>describe_applications</code>	Describes the specified applications by filtering based on their compute types, license types, and other attributes
<code>describe_bundle_associations</code>	Describes the associations between the applications and the specified bundle
<code>describe_client_branding</code>	Describes the specified client branding
<code>describe_client_properties</code>	Retrieves a list that describes one or more specified Amazon WorkSpaces client properties
<code>describe_connect_client_add_ins</code>	Retrieves a list of Connect Customer client add-ins that have been created
<code>describe_connection_aliases</code>	Retrieves a list that describes the connection aliases used for cross-Region redirection
<code>describe_connection_alias_permissions</code>	Describes the permissions that the owner of a connection alias has granted to other Amazon accounts
<code>describe_custom_workspace_image_import</code>	Retrieves information about a WorkSpace BYOL image being imported via ImportImage
<code>describe_image_associations</code>	Describes the associations between the applications and the specified image
<code>describe_ip_groups</code>	Describes one or more of your IP access control groups
<code>describe_tags</code>	Describes the specified tags for the specified WorkSpaces resource
<code>describe_workspace_associations</code>	Describes the associations between applications and the specified WorkSpace
<code>describe_workspace_bundles</code>	Retrieves a list that describes the available WorkSpace bundles
<code>describe_workspace_directories</code>	Describes the available directories that are registered with Amazon WorkSpaces
<code>describe_workspace_image_permissions</code>	Describes the permissions that the owner of an image has granted to other Amazon accounts
<code>describe_workspace_images</code>	Retrieves a list that describes one or more specified images, if the image identifier is provided
<code>describe_workspaces</code>	Describes the specified WorkSpaces
<code>describe_workspaces_connection_status</code>	Describes the connection status of the specified WorkSpaces
<code>describe_workspace_snapshots</code>	Describes the snapshots for the specified WorkSpace
<code>describe_workspaces_pools</code>	End of support notice: On December 31, 2027, Amazon Web Services will end support for this API. For more information, see Amazon WorkSpaces End of Support Notice .
<code>describe_workspaces_pool_sessions</code>	End of support notice: On December 31, 2027, Amazon Web Services will end support for this API. For more information, see Amazon WorkSpaces End of Support Notice .
<code>disassociate_connection_alias</code>	Disassociates a connection alias from a directory
<code>disassociate_ip_groups</code>	Disassociates the specified IP access control group from the specified directory
<code>disassociate_workspace_application</code>	Disassociates the specified application from a WorkSpace
<code>get_account_link</code>	Retrieves account link information
<code>import_client_branding</code>	Imports client branding
<code>import_custom_workspace_image</code>	Imports the specified Windows 10 or 11 Bring Your Own License (BYOL) image
<code>import_workspace_image</code>	Imports the specified Windows 10 or 11 Bring Your Own License (BYOL) image
<code>list_account_links</code>	Lists all account links
<code>list_available_management_cidr_ranges</code>	Retrieves a list of IP address ranges, specified as IPv4 CIDR blocks, that you can use for your WorkSpaces
<code>migrate_workspace</code>	Migrates a WorkSpace from one operating system or bundle type to another, without losing data
<code>modify_account</code>	Modifies the configuration of Bring Your Own License (BYOL) for the specified WorkSpace
<code>modify_certificate_based_auth_properties</code>	Modifies the properties of the certificate-based authentication you want to use with your WorkSpaces
<code>modify_client_properties</code>	Modifies the properties of the specified Amazon WorkSpaces clients
<code>modify_endpoint_encryption_mode</code>	Modifies the endpoint encryption mode that allows you to configure the specified WorkSpaces
<code>modify_saml_properties</code>	Modifies multiple properties related to SAML 2
<code>modify_selfservice_permissions</code>	Modifies the self-service WorkSpace management capabilities for your users
<code>modify_streaming_properties</code>	Modifies the specified streaming properties
<code>modify_workspace_access_properties</code>	Specifies which devices and operating systems users can use to access their WorkSpaces
<code>modify_workspace_creation_properties</code>	Modify the default properties used to create WorkSpaces
<code>modify_workspace_properties</code>	Modifies the specified WorkSpace properties
<code>modify_workspace_state</code>	Sets the state of the specified WorkSpace
<code>reboot_workspaces</code>	Reboots the specified WorkSpaces
<code>rebuild_workspaces</code>	Rebuilds the specified WorkSpace
<code>register_workspace_directory</code>	Registers the specified directory
<code>reject_account_link_invitation</code>	Rejects the account link invitation

restore_workspace	Restores the specified WorkSpace to its last known healthy state
revoke_ip_rules	Removes one or more rules from the specified IP access control group
start_workspaces	Starts the specified WorkSpaces
start_workspaces_pool	End of support notice: On December 31, 2027, Amazon Web Services will end
stop_workspaces	Stops the specified WorkSpaces
stop_workspaces_pool	End of support notice: On December 31, 2027, Amazon Web Services will end
terminate_workspaces	Terminates the specified WorkSpaces
terminate_workspaces_pool	End of support notice: On December 31, 2027, Amazon Web Services will end
terminate_workspaces_pool_session	End of support notice: On December 31, 2027, Amazon Web Services will end
update_connect_client_add_in	Updates a Connect Customer client add-in
update_connection_alias_permission	Shares or unshares a connection alias with one account by specifying whether t
update_rules_of_ip_group	Replaces the current rules of the specified IP access control group with the spec
update_workspace_bundle	Updates a WorkSpace bundle with a new image
update_workspace_image_permission	Shares or unshares an image with one account in the same Amazon Web Servic
update_workspaces_pool	End of support notice: On December 31, 2027, Amazon Web Services will end

Examples

```
## Not run:
svc <- workspaces()
svc$accept_account_link_invitation(
  Foo = 123
)

## End(Not run)
```

workspacesweb

Amazon WorkSpaces Web

Description

Amazon WorkSpaces Secure Browser is a low cost, fully managed WorkSpace built specifically to facilitate secure, web-based workloads. WorkSpaces Secure Browser makes it easy for customers to safely provide their employees with access to internal websites and SaaS web applications without the administrative burden of appliances or specialized client software. WorkSpaces Secure Browser provides simple policy tools tailored for user interactions, while offloading common tasks like capacity management, scaling, and maintaining browser images.

Usage

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

Arguments

config	<p>Optional configuration of credentials, endpoint, and/or region.</p> <ul style="list-style-type: none"> • credentials: <ul style="list-style-type: none"> – creds: <ul style="list-style-type: none"> * access_key_id: AWS access key ID * secret_access_key: AWS secret access key * session_token: AWS temporary session token – profile: The name of a profile to use. If not given, then the default profile is used. – anonymous: Set anonymous credentials. • endpoint: The complete URL to use for the constructed client. • region: The AWS Region used in instantiating the client. • close_connection: Immediately close all HTTP connections. • timeout: The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds. • s3_force_path_style: Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoints.html • use_dual_stack: Set this to true to use the dualstack (IPv4 and IPv6) endpoint for a service, where available, falling back to the regular endpoint when it isn't. Defaults to the <code>AWS_USE_DUALSTACK_ENDPOINT</code> environment variable when unset.
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 <- workspacesweb(
  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",
    use_dual_stack = "logical"
  ),
  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_browser_settings	Associates a browser settings resource with a web portal
associate_data_protection_settings	Associates a data protection settings resource with a web portal
associate_ip_access_settings	Associates an IP access settings resource with a web portal
associate_network_settings	Associates a network settings resource with a web portal
associate_session_logger	Associates a session logger with a portal
associate_trust_store	Associates a trust store with a web portal
associate_user_access_logging_settings	Associates a user access logging settings resource with a web portal
associate_user_settings	Associates a user settings resource with a web portal
create_browser_settings	Creates a browser settings resource that can be associated with a web portal
create_data_protection_settings	Creates a data protection settings resource that can be associated with a web portal
create_identity_provider	Creates an identity provider resource that is then associated with a web portal
create_ip_access_settings	Creates an IP access settings resource that can be associated with a web portal

<code>create_network_settings</code>	Creates a network settings resource that can be associated with a web portal
<code>create_portal</code>	Creates a web portal
<code>create_session_logger</code>	Creates a session logger
<code>create_trust_store</code>	Creates a trust store that can be associated with a web portal
<code>create_user_access_logging_settings</code>	Creates a user access logging settings resource that can be associated with a web portal
<code>create_user_settings</code>	Creates a user settings resource that can be associated with a web portal
<code>delete_browser_settings</code>	Deletes browser settings
<code>delete_data_protection_settings</code>	Deletes data protection settings
<code>delete_identity_provider</code>	Deletes the identity provider
<code>delete_ip_access_settings</code>	Deletes IP access settings
<code>delete_network_settings</code>	Deletes network settings
<code>delete_portal</code>	Deletes a web portal
<code>delete_session_logger</code>	Deletes a session logger resource
<code>delete_trust_store</code>	Deletes the trust store
<code>delete_user_access_logging_settings</code>	Deletes user access logging settings
<code>delete_user_settings</code>	Deletes user settings
<code>disassociate_browser_settings</code>	Disassociates browser settings from a web portal
<code>disassociate_data_protection_settings</code>	Disassociates data protection settings from a web portal
<code>disassociate_ip_access_settings</code>	Disassociates IP access settings from a web portal
<code>disassociate_network_settings</code>	Disassociates network settings from a web portal
<code>disassociate_session_logger</code>	Disassociates a session logger from a portal
<code>disassociate_trust_store</code>	Disassociates a trust store from a web portal
<code>disassociate_user_access_logging_settings</code>	Disassociates user access logging settings from a web portal
<code>disassociate_user_settings</code>	Disassociates user settings from a web portal
<code>expire_session</code>	Expires an active secure browser session
<code>get_browser_settings</code>	Gets browser settings
<code>get_data_protection_settings</code>	Gets the data protection settings
<code>get_identity_provider</code>	Gets the identity provider
<code>get_ip_access_settings</code>	Gets the IP access settings
<code>get_network_settings</code>	Gets the network settings
<code>get_portal</code>	Gets the web portal
<code>get_portal_service_provider_metadata</code>	Gets the service provider metadata
<code>get_session</code>	Gets information for a secure browser session
<code>get_session_logger</code>	Gets details about a specific session logger resource
<code>get_trust_store</code>	Gets the trust store
<code>get_trust_store_certificate</code>	Gets the trust store certificate
<code>get_user_access_logging_settings</code>	Gets user access logging settings
<code>get_user_settings</code>	Gets user settings
<code>list_browser_settings</code>	Retrieves a list of browser settings
<code>list_data_protection_settings</code>	Retrieves a list of data protection settings
<code>list_identity_providers</code>	Retrieves a list of identity providers for a specific web portal
<code>list_ip_access_settings</code>	Retrieves a list of IP access settings
<code>list_network_settings</code>	Retrieves a list of network settings
<code>list_portals</code>	Retrieves a list of web portals
<code>list_session_loggers</code>	Lists all available session logger resources
<code>list_sessions</code>	Lists information for multiple secure browser sessions from a specific portal
<code>list_tags_for_resource</code>	Retrieves a list of tags for a resource
<code>list_trust_store_certificates</code>	Retrieves a list of trust store certificates

list_trust_stores	Retrieves a list of trust stores
list_user_access_logging_settings	Retrieves a list of user access logging settings
list_user_settings	Retrieves a list of user settings
tag_resource	Adds or overwrites one or more tags for the specified resource
untag_resource	Removes one or more tags from the specified resource
update_browser_settings	Updates browser settings
update_data_protection_settings	Updates data protection settings
update_identity_provider	Updates the identity provider
update_ip_access_settings	Updates IP access settings
update_network_settings	Updates network settings
update_portal	Updates a web portal
update_session_logger	Updates the details of a session logger
update_trust_store	Updates the trust store
update_user_access_logging_settings	Updates the user access logging settings
update_user_settings	Updates the user settings

Examples

```
## Not run:
svc <- workspacesweb()
svc$associate_browser_settings(
  Foo = 123
)

## End(Not run)
```

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