

Package ‘paws.end.user.computing’

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Title 'Amazon Web Services' End User Computing Services

Version 0.2.0

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>

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'nimblestudio_operations.R' 'workdocs_service.R'
'workdocs_interfaces.R' 'workdocs_operations.R'
'worklink_service.R' 'worklink_interfaces.R'
'worklink_operations.R' 'workmail_service.R'
'workmail_interfaces.R' 'workmail_operations.R'
'workmailmessageflow_service.R'
'workmailmessageflow_interfaces.R'
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appstream	<i>Amazon AppStream</i>
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Description

Amazon AppStream 2.0

This is the *Amazon AppStream 2.0 API Reference*. This documentation provides descriptions and syntax for each of the actions and data types in AppStream 2.0. AppStream 2.0 is a fully managed, secure application streaming service that lets you stream desktop applications to users without rewriting applications. AppStream 2.0 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 AppStream 2.0 API operations by using an interface VPC endpoint (interface endpoint). For more information, see [Access AppStream 2.0 API Operations and CLI Commands Through an Interface VPC Endpoint](#) in the *Amazon AppStream 2.0 Administration Guide*.

To learn more about AppStream 2.0, see the following resources:

- [Amazon AppStream 2.0 product page](#)
- [Amazon AppStream 2.0 documentation](#)

Usage

```
appstream(config = list())
```

Arguments

config	Optional configuration of credentials, endpoint, and/or region. <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>.
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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"
  )
)
```

Operations

[associate_application_fleet](#)

Associates the specified application with the specified fleet

<code>associate_application_to_entitlement</code>	Associates an application to entitle
<code>associate_fleet</code>	Associates the specified fleet with the specified stack
<code>batch_associate_user_stack</code>	Associates the specified users with the specified stacks
<code>batch_disassociate_user_stack</code>	Disassociates the specified users from the specified stacks
<code>copy_image</code>	Copies the image within the same region or to a new region within the same AW
<code>create_app_block</code>	Creates an app block
<code>create_application</code>	Creates an application
<code>create_directory_config</code>	Creates a Directory Config object in AppStream 2
<code>create_entitlement</code>	Creates a new entitlement
<code>create_fleet</code>	Creates a fleet
<code>create_image_builder</code>	Creates an image builder
<code>create_image_builder_streaming_url</code>	Creates a URL to start an image builder streaming session
<code>create_stack</code>	Creates a stack to start streaming applications to users
<code>create_streaming_url</code>	Creates a temporary URL to start an AppStream 2
<code>create_updated_image</code>	Creates a new image with the latest Windows operating system updates, driver u
<code>create_usage_report_subscription</code>	Creates a usage report subscription
<code>create_user</code>	Creates a new user in the user pool
<code>delete_app_block</code>	Deletes an app block
<code>delete_application</code>	Deletes an application
<code>delete_directory_config</code>	Deletes the specified Directory Config object from AppStream 2
<code>delete_entitlement</code>	Deletes the specified entitlement
<code>delete_fleet</code>	Deletes the specified fleet
<code>delete_image</code>	Deletes the specified image
<code>delete_image_builder</code>	Deletes the specified image builder and releases the capacity
<code>delete_image_permissions</code>	Deletes permissions for the specified private image
<code>delete_stack</code>	Deletes the specified stack
<code>delete_usage_report_subscription</code>	Disables usage report generation
<code>delete_user</code>	Deletes a user from the user pool
<code>describe_app_blocks</code>	Retrieves a list that describes one or more app blocks
<code>describe_application_fleet_associations</code>	Retrieves a list that describes one or more application fleet associations
<code>describe_applications</code>	Retrieves a list that describes one or more applications
<code>describe_directory_configs</code>	Retrieves a list that describes one or more specified Directory Config objects for
<code>describe_entitlements</code>	Retrieves a list that describes one of more entitlements
<code>describe_fleets</code>	Retrieves a list that describes one or more specified fleets, if the fleet names are p
<code>describe_image_builders</code>	Retrieves a list that describes one or more specified image builders, if the image
<code>describe_image_permissions</code>	Retrieves a list that describes the permissions for shared AWS account IDs on a p
<code>describe_images</code>	Retrieves a list that describes one or more specified images, if the image names o
<code>describe_sessions</code>	Retrieves a list that describes the streaming sessions for a specified stack and fle
<code>describe_stacks</code>	Retrieves a list that describes one or more specified stacks, if the stack names are
<code>describe_usage_report_subscriptions</code>	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_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>enable_user</code>	Enables a user in the user pool
<code>expire_session</code>	Immediately stops the specified streaming session

list_associated_fleets	Retrieves the name of the fleet that is associated with the specified stack
list_associated_stacks	Retrieves the name of the stack with which the specified fleet is associated
list_entitled_applications	Retrieves a list of entitled applications
list_tags_for_resource	Retrieves a list of all tags for the specified AppStream 2
start_fleet	Starts the specified fleet
start_image_builder	Starts the specified image builder
stop_fleet	Stops the specified fleet
stop_image_builder	Stops the specified image builder
tag_resource	Adds or overwrites one or more tags for the specified AppStream 2
untag_resource	Disassociates one or more specified tags from the specified AppStream 2
update_application	Updates the specified application
update_directory_config	Updates the specified Directory Config object in AppStream 2
update_entitlement	Updates the specified entitlement
update_fleet	Updates the specified fleet
update_image_permissions	Adds or updates permissions for the specified private image
update_stack	Updates the specified fields for the specified stack

Examples

```
## Not run:
svc <- appstream()
svc$associate_application_fleet(
  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*.

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 resource is part of Amazon IVS Chat:

- **Room** — The central Amazon IVS Chat resource through which clients connect to and exchange chat messages. See the Room endpoints for more information.

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](#) endpoint 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*.

Messaging Endpoints

- [delete_message](#) — Sends an event to a specific room which directs clients to delete a specific message; that is, unrender it from view and delete it from the client's chat history. This event's `EventName` is `aws:DELETE_MESSAGE`. This replicates the `DeleteMessage` WebSocket operation in the Amazon IVS Chat Messaging API.
- [disconnect_user](#) — Disconnects all connections using a specified user ID from a room. This replicates the `DisconnectUser` WebSocket operation in the Amazon IVS Chat Messaging API.
- [send_event](#) — Sends an event to a room. Use this within your application's business logic to send events to clients of a room; e.g., to notify clients to change the way the chat UI is rendered.

Chat Token Endpoint

- `create_chat_token` — Creates an encrypted token that is used to establish an individual WebSocket connection to a room. The token is valid for one minute, and a connection (session) established with the token is valid for the specified duration.

Room Endpoints

- `create_room` — Creates a room that allows clients to connect and pass messages.
- `delete_room` — Deletes the specified room.
- `get_room` — Gets the specified room.
- `list_rooms` — Gets summary information about all your rooms in the AWS region where the API request is processed.
- `update_room` — Updates a room's configuration.

Tags Endpoints

- `list_tags_for_resource` — Gets information about AWS tags for the specified ARN.
- `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.

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

Usage

```
ivschat(config = list())
```

Arguments

<code>config</code>	<p>Optional configuration of credentials, endpoint, and/or region.</p> <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>.
---------------------	--

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"
  )
)

```

Operations

create_chat_token	Creates an encrypted token that is used to establish an individual WebSocket connection to a room
create_room	Creates a room that allows clients to connect and pass messages
delete_message	Sends an event to a specific room which directs clients to delete a specific message; that is, unrender
delete_room	Deletes the specified room
disconnect_user	Disconnects all connections using a specified user ID from a room
get_room	Gets the specified room
list_rooms	Gets summary information about all your rooms in the AWS region where the API request is processed
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_room	Updates a room's configuration

Examples

```

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

## End(Not run)

```

nimblestudio

*AmazonNimbleStudio***Description**

Welcome to the Amazon Nimble Studio API reference. This API reference provides methods, schema, resources, parameters, and more to help you get the most out of Nimble Studio.

Nimble Studio is a virtual studio that empowers visual effects, animation, and interactive content teams to create content securely within a scalable, private cloud service.

Usage

```
nimblestudio(config = list())
```

Arguments

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

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 <- nimblestudio(
  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"
)
)

```

Operations

accept_eulas	Accept EULAs
create_launch_profile	Create a launch profile
create_streaming_image	Creates a streaming image resource in a studio
create_streaming_session	Creates a streaming session in a studio
create_streaming_session_stream	Creates a streaming session stream for a streaming session
create_studio	Create a new Studio
create_studio_component	Creates a studio component resource
delete_launch_profile	Permanently delete a launch profile
delete_launch_profile_member	Delete a user from launch profile membership
delete_streaming_image	Delete streaming image
delete_streaming_session	Deletes streaming session resource
delete_studio	Delete a studio resource
delete_studio_component	Deletes a studio component resource
delete_studio_member	Delete a user from studio membership
get_eula	Get Eula
get_launch_profile	Get a launch profile
get_launch_profile_details	Launch profile details include the launch profile resource and summary information o
get_launch_profile_initialization	Get a launch profile initialization
get_launch_profile_member	Get a user persona in launch profile membership
get_streaming_image	Get streaming image
get_streaming_session	Gets StreamingSession resource
get_streaming_session_stream	Gets a StreamingSessionStream for a streaming session
get_studio	Get a Studio resource
get_studio_component	Gets a studio component resource
get_studio_member	Get a user's membership in a studio
list_eula_acceptances	List Eula Acceptances
list_eulas	List Eulas
list_launch_profile_members	Get all users in a given launch profile membership
list_launch_profiles	List all the launch profiles a studio
list_streaming_images	List the streaming image resources available to this studio
list_streaming_sessions	Lists the streaming sessions in a studio
list_studio_components	Lists the StudioComponents in a studio
list_studio_members	Get all users in a given studio membership

list_studios	List studios in your Amazon Web Services account in the requested Amazon Web Ser
list_tags_for_resource	Gets the tags for a resource, given its Amazon Resource Names (ARN)
put_launch_profile_members	Add/update users with given persona to launch profile membership
put_studio_members	Add/update users with given persona to studio membership
start_streaming_session	Transitions sessions from the STOPPED state into the READY state
start_studio_sso_configuration_repair	Repairs the Amazon Web Services SSO configuration for a given studio
stop_streaming_session	Transitions sessions from the READY state into the STOPPED state
tag_resource	Creates tags for a resource, given its ARN
untag_resource	Deletes the tags for a resource
update_launch_profile	Update a launch profile
update_launch_profile_member	Update a user persona in launch profile membership
update_streaming_image	Update streaming image
update_studio	Update a Studio resource
update_studio_component	Updates a studio component resource

Examples

```
## Not run:
svc <- nimblestudio()
svc$accept_eulas(
  Foo = 123
)

## End(Not run)
```

Description

The 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 AWS 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 AWS 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 AWS 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.

Usage

```
workdocs(config = list())
```

Arguments

<code>config</code>	Optional configuration of credentials, endpoint, and/or region. <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>.
---------------------	---

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"
  )
)

```

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
delete_document	Permanently deletes the specified document and its associated metadata
delete_folder	Permanently deletes the specified folder and its contents
delete_folder_contents	Deletes the contents of the specified folder
delete_labels	Deletes the specified list of labels from a resource
delete_notification_subscription	Deletes the specified subscription from the specified organization
delete_user	Deletes the specified user from a Simple AD or Microsoft AD directory
describe_activities	Describes the user activities in a specified time period
describe_comments	List all the comments for the specified document version
describe_document_versions	Retrieves the document versions for the specified document
describe_folder_contents	Describes the contents of the specified folder, including its documents and subfolders
describe_groups	Describes the groups specified by the query
describe_notification_subscriptions	Lists the specified notification subscriptions
describe_resource_permissions	Describes the permissions of a specified resource
describe_root_folders	Describes the current user's special folders; the RootFolder and the RecycleBin
describe_users	Describes the specified users
get_current_user	Retrieves details of the current user for whom the authentication token was generated
get_document	Retrieves details of a document
get_document_path	Retrieves the path information (the hierarchy from the root folder) for the requested document
get_document_version	Retrieves version metadata for the specified document
get_folder	Retrieves the metadata of the specified folder
get_folder_path	Retrieves the path information (the hierarchy from the root folder) for the specified folder
get_resources	Retrieves a collection of resources, including folders and documents
initiate_document_version_upload	Creates a new document object and version object
remove_all_resource_permissions	Removes all the permissions from the specified resource
remove_resource_permission	Removes the permission for the specified principal from the specified resource

update_document	Updates the specified attributes of a document
update_document_version	Changes the status of the document version to ACTIVE
update_folder	Updates the specified attributes of the specified folder
update_user	Updates the specified attributes of the specified user, and grants or revokes administrative

Examples

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

## End(Not run)
```

worklink

Amazon WorkLink

Description

Amazon WorkLink is a cloud-based service that provides secure access to internal websites and web apps from iOS and Android phones. In a single step, your users, such as employees, can access internal websites as efficiently as they access any other public website. They enter a URL in their web browser, or choose a link to an internal website in an email. Amazon WorkLink authenticates the user's access and securely renders authorized internal web content in a secure rendering service in the AWS cloud. Amazon WorkLink doesn't download or store any internal web content on mobile devices.

Usage

```
worklink(config = list())
```

Arguments

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

- **close_connection:** Immediately close all HTTP connections.
- **timeout:** The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.
- **s3_force_path_style:** Set this to `true` to force the request to use path-style addressing, i.e., `http://s3.amazonaws.com/BUCKET/KEY`.

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 <- worklink(
  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"
  )
)
```

Operations

associate_domain	Specifies a domain to be associated to Amazon WorkLink
associate_website_authorization_provider	Associates a website authorization provider with a specified fleet
associate_website_certificate_authority	Imports the root certificate of a certificate authority (CA) used to obtain TLS certificates
create_fleet	Creates a fleet
delete_fleet	Deletes a fleet
describe_audit_stream_configuration	Describes the configuration for delivering audit streams to the customer account
describe_company_network_configuration	Describes the networking configuration to access the internal websites associated with the specified fleet
describe_device	Provides information about a user's device
describe_device_policy_configuration	Describes the device policy configuration for the specified fleet
describe_domain	Provides information about the domain
describe_fleet_metadata	Provides basic information for the specified fleet, excluding identity provider, website authorization provider, and certificate authority
describe_identity_provider_configuration	Describes the identity provider configuration of the specified fleet
describe_website_certificate_authority	Provides information about the certificate authority

disassociate_domain	Disassociates a domain from Amazon WorkLink
disassociate_website_authorization_provider	Disassociates a website authorization provider from a specified fleet
disassociate_website_certificate_authority	Removes a certificate authority (CA)
list_devices	Retrieves a list of devices registered with the specified fleet
list_domains	Retrieves a list of domains associated to a specified fleet
list_fleets	Retrieves a list of fleets for the current account and Region
list_tags_for_resource	Retrieves a list of tags for the specified resource
list_website_authorization_providers	Retrieves a list of website authorization providers associated with a specified fleet
list_website_certificate_authorities	Retrieves a list of certificate authorities added for the current account and Region
restore_domain_access	Moves a domain to ACTIVE status if it was in the INACTIVE status
revoke_domain_access	Moves a domain to INACTIVE status if it was in the ACTIVE status
sign_out_user	Signs the user out from all of their devices
tag_resource	Adds or overwrites one or more tags for the specified resource, such as a fleet
untag_resource	Removes one or more tags from the specified resource
update_audit_stream_configuration	Updates the audit stream configuration for the fleet
update_company_network_configuration	Updates the company network configuration for the fleet
update_device_policy_configuration	Updates the device policy configuration for the fleet
update_domain_metadata	Updates domain metadata, such as DisplayName
update_fleet_metadata	Updates fleet metadata, such as DisplayName
update_identity_provider_configuration	Updates the identity provider configuration for the fleet

Examples

```
## Not run:
svc <- worklink()
svc$associate_domain(
  Foo = 123
)

## End(Not run)
```

workmail

Amazon WorkMail

Description

Amazon 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())
```

Arguments

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

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"
)
)

```

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
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 Amazon WorkMail
create_availability_configuration	Creates an AvailabilityConfiguration for the given WorkMail organization and domain
create_group	Creates a group that can be used in Amazon WorkMail by calling the RegisterToWorkMail API
create_mobile_device_access_rule	Creates a new mobile device access rule for the specified Amazon WorkMail organization
create_organization	Creates a new Amazon WorkMail organization
create_resource	Creates a new Amazon WorkMail resource
create_user	Creates a user who can be used in Amazon WorkMail by calling the RegisterToWorkMail API
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 Amazon WorkMail
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, and device
delete_mobile_device_access_rule	Deletes a mobile device access rule for the specified Amazon WorkMail organization
delete_organization	Deletes an Amazon WorkMail organization and all underlying AWS resources managed by the 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 Amazon WorkMail and all subsequent systems
deregister_from_work_mail	Mark a user, group, or resource as no longer used in Amazon WorkMail
deregister_mail_domain	Removes a domain from Amazon 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_group	Returns the data available for the group
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

<code>disassociate_member_from_group</code>	Removes a member from a group
<code>get_access_control_effect</code>	Gets the effects of an organization's access control rules as they apply to a specified organization and user
<code>get_default_retention_policy</code>	Gets the default retention policy details for the specified organization
<code>get_mailbox_details</code>	Requests a user's mailbox details for a specified organization and user
<code>get_mail_domain</code>	Gets details for a mail domain, including domain records required to configure your organization
<code>get_mobile_device_access_effect</code>	Simulates the effect of the mobile device access rules for the given attributes of a user
<code>get_mobile_device_access_override</code>	Gets the mobile device access override for the given WorkMail organization, user, and resource
<code>list_access_control_rules</code>	Lists the access control rules for the specified organization
<code>list_aliases</code>	Creates a paginated call to list the aliases associated with a given entity
<code>list_availability_configurations</code>	List all the AvailabilityConfiguration's for the given WorkMail organization
<code>list_group_members</code>	Returns an overview of the members of a group
<code>list_groups</code>	Returns summaries of the organization's groups
<code>list_mailbox_export_jobs</code>	Lists the mailbox export jobs started for the specified organization within the last 30 days
<code>list_mailbox_permissions</code>	Lists the mailbox permissions associated with a user, group, or resource mailbox
<code>list_mail_domains</code>	Lists the mail domains in a given Amazon WorkMail organization
<code>list_mobile_device_access_overrides</code>	Lists all the mobile device access overrides for any given combination of WorkMail organization, user, and resource
<code>list_mobile_device_access_rules</code>	Lists the mobile device access rules for the specified Amazon WorkMail organization
<code>list_organizations</code>	Returns summaries of the customer's organizations
<code>list_resource_delegates</code>	Lists the delegates associated with a resource
<code>list_resources</code>	Returns summaries of the organization's resources
<code>list_tags_for_resource</code>	Lists the tags applied to an Amazon WorkMail organization resource
<code>list_users</code>	Returns summaries of the organization's users
<code>put_access_control_rule</code>	Adds a new access control rule for the specified organization
<code>put_email_monitoring_configuration</code>	Creates or updates the email monitoring configuration for a specified organization
<code>put_inbound_dmarc_settings</code>	Enables or disables a DMARC policy for a given organization
<code>put_mailbox_permissions</code>	Sets permissions for a user, group, or resource
<code>put_mobile_device_access_override</code>	Creates or updates a mobile device access override for the given WorkMail organization, user, and resource
<code>put_retention_policy</code>	Puts a retention policy to the specified organization
<code>register_mail_domain</code>	Registers a new domain in Amazon WorkMail and SES, and configures it for use with your organization
<code>register_to_work_mail</code>	Registers an existing and disabled user, group, or resource for Amazon WorkMail
<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 items
<code>tag_resource</code>	Applies the specified tags to the specified Amazon WorkMail organization 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 Amazon 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_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 Amazon 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

Examples

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

```
    Foo = 123
)

## End(Not run)
```

workmailmessageflow *Amazon WorkMail Message Flow*

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())
```

Arguments

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

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"
  )
)

```

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())
```

Arguments

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

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"
)
)

```

Operations

associate_connection_alias	Associates the specified connection alias with the specified directory to enable cross-Region redirection
associate_ip_groups	Associates the specified IP access control group with the specified directory
authorize_ip_rules	Adds one or more rules to the specified IP access control group
copy_workspace_image	Copies the specified image from the specified Region to the current Region
create_connect_client_add_in	Creates a client-add-in for Amazon Connect within a directory
create_connection_alias	Creates the specified connection alias for use with cross-Region redirection
create_ip_group	Creates an IP access control group
create_tags	Creates the specified tags for the specified WorkSpaces resource
create_updated_workspace_image	Creates a new updated Workspace image based on the specified source image
create_workspace_bundle	Creates the specified Workspace bundle
create_workspace_image	Creates a new Workspace image from an existing Workspace
create_workspaces	Creates one or more WorkSpaces
delete_client_branding	Deletes customized client branding
delete_connect_client_add_in	Deletes a client-add-in for Amazon Connect that is configured within a directory
delete_connection_alias	Deletes the specified connection alias
delete_ip_group	Deletes the specified IP access control group
delete_tags	Deletes the specified tags from the specified WorkSpaces resource
delete_workspace_bundle	Deletes the specified Workspace bundle
delete_workspace_image	Deletes the specified image from your account
deregister_workspace_directory	Deregisters the specified directory
describe_account	Retrieves a list that describes the configuration of Bring Your Own License (BYOL)
describe_account_modifications	Retrieves a list that describes modifications to the configuration of Bring Your Own License (BYOL)
describe_client_branding	Describes the specified client branding
describe_client_properties	Retrieves a list that describes one or more specified Amazon WorkSpaces clients
describe_connect_client_add_ins	Retrieves a list of Amazon Connect client add-ins that have been created
describe_connection_aliases	Retrieves a list that describes the connection aliases used for cross-Region redirection
describe_connection_alias_permissions	Describes the permissions that the owner of a connection alias has granted to another user
describe_ip_groups	Describes one or more of your IP access control groups
describe_tags	Describes the specified tags for the specified WorkSpaces resource
describe_workspace_bundles	Retrieves a list that describes the available Workspace bundles
describe_workspace_directories	Describes the available directories that are registered with Amazon WorkSpaces
describe_workspace_image_permissions	Describes the permissions that the owner of an image has granted to other Amazon users

<code>describe_workspace_images</code>	Retrieves a list that describes one or more specified images, if the image identifiers
<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>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>import_client_branding</code>	Imports client branding
<code>import_workspace_image</code>	Imports the specified Windows 10 Bring Your Own License (BYOL) image into A
<code>list_available_management_cidr_ranges</code>	Retrieves a list of IP address ranges, specified as IPv4 CIDR blocks, that you can u
<code>migrate_workspace</code>	Migrates a WorkSpace from one operating system or bundle type to another, while
<code>modify_account</code>	Modifies the configuration of Bring Your Own License (BYOL) for the specified a
<code>modify_client_properties</code>	Modifies the properties of the specified Amazon WorkSpaces clients
<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_workspace_access_properties</code>	Specifies which devices and operating systems users can use to access their WorkS
<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>restore_workspace</code>	Restores the specified WorkSpace to its last known healthy state
<code>revoke_ip_rules</code>	Removes one or more rules from the specified IP access control group
<code>start_workspaces</code>	Starts the specified WorkSpaces
<code>stop_workspaces</code>	Stops the specified WorkSpaces
<code>terminate_workspaces</code>	Terminates the specified WorkSpaces
<code>update_connect_client_add_in</code>	Updates a Amazon Connect client add-in
<code>update_connection_alias_permission</code>	Shares or unshares a connection alias with one account by specifying whether that
<code>update_rules_of_ip_group</code>	Replaces the current rules of the specified IP access control group with the specifie
<code>update_workspace_bundle</code>	Updates a WorkSpace bundle with a new image
<code>update_workspace_image_permission</code>	Shares or unshares an image with one account in the same Amazon Web Services I

Examples

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

## End(Not run)
```

workspacesweb

*Amazon WorkSpaces Web***Description**

WorkSpaces Web is a low cost, fully managed Workspace built specifically to facilitate secure, web-based workloads. WorkSpaces Web 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 Web provides simple policy tools tailored for user interactions, while offloading common tasks like capacity management, scaling, and maintaining browser images.

Usage

```
workspacesweb(config = list())
```

Arguments

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

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"
)
)

```

Operations

associate_browser_settings	Associates a browser settings resource with a web portal
associate_network_settings	Associates a network settings resource with a web portal
associate_trust_store	Associates a trust store 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_identity_provider	Creates an identity provider resource that is then associated with a web portal
create_network_settings	Creates a network settings resource that can be associated with a web portal
create_portal	Creates a web portal
create_trust_store	Creates a trust store that can be associated with a web portal
create_user_settings	Creates a user settings resource that can be associated with a web portal
delete_browser_settings	Deletes browser settings
delete_identity_provider	Deletes the identity provider
delete_network_settings	Deletes network settings
delete_portal	Deletes a web portal
delete_trust_store	Deletes the trust store
delete_user_settings	Deletes user settings
disassociate_browser_settings	Disassociates browser settings from a web portal
disassociate_network_settings	Disassociates network settings from a web portal
disassociate_trust_store	Disassociates a trust store from a web portal
disassociate_user_settings	Disassociates user settings from a web portal
get_browser_settings	Gets browser settings
get_identity_provider	Gets the identity provider
get_network_settings	Gets the network settings
get_portal	Gets the web portal
get_portal_service_provider_metadata	Gets the service provider metadata
get_trust_store	Gets the trust store
get_trust_store_certificate	Gets the trust store certificate
get_user_settings	Gets user settings
list_browser_settings	Retrieves a list of browser settings
list_identity_providers	Retrieves a list of identity providers for a specific web portal
list_network_settings	Retrieves a list of network settings
list_portals	Retrieves a list of web portals

list_tags_for_resource	Retrieves a list of tags for a resource
list_trust_store_certificates	Retrieves a list of trust store certificates
list_trust_stores	Retrieves a list of trust stores
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_identity_provider	Updates the identity provider
update_network_settings	Updates network settings
update_portal	Updates a web portal
update_trust_store	Updates the trust store
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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