

Package ‘paws.end.user.computing’

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Title 'Amazon Web Services' End User Computing Services

Version 0.5.0

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>

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

Imports paws.common (>= 0.6.0)

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'ivschat_interfaces.R' 'ivschat_operations.R'
'nimblestudio_service.R' 'nimblestudio_interfaces.R'
'nimblestudio_operations.R' 'reexports_paws.common.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'
'workmailmessageflow_operations.R' 'workspaces_service.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(),
  credentials = list(),
  endpoint = NULL,
  region = NULL
)
```

Arguments

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

Value

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

Service syntax

```
svc <- 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"
),
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	Associates the specified app block builder with the specified app block
associate_application_fleet	Associates the specified application with the specified fleet
associate_application_to_entitlement	Associates an application to entitlement
associate_fleet	Associates the specified fleet with the specified stack
batch_associate_user_stack	Associates the specified users with the specified stacks
batch_disassociate_user_stack	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 AppStream 2
create_entitlement	Creates a new entitlement
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_stack	Creates a stack to start streaming applications to users
create_streaming_url	Creates a temporary URL to start an AppStream 2
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 AppStream 2
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_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 associations
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 associations
describe_applications	Retrieves a list that describes one or more applications
describe_directory_configs	Retrieves a list that describes one or more specified Directory Config objects
describe_entitlements	Retrieves a list that describes one or more entitlements
describe_fleets	Retrieves a list that describes one or more specified fleets, if the fleet name is specified
describe_image_builders	Retrieves a list that describes one or more specified image builders, if the image builder name is specified
describe_image_permissions	Retrieves a list that describes the permissions for shared AWS account private images
describe_images	Retrieves a list that describes one or more specified images, if the image name is specified
describe_sessions	Retrieves a list that describes the streaming sessions for a specified stack
describe_stacks	Retrieves a list that describes one or more specified stacks, if the stack name is specified
describe_usage_report_subscriptions	Retrieves a list that describes one or more usage report subscriptions
describe_users	Retrieves a list that describes one or more specified users in the user pool
describe_user_stack_associations	Retrieves a list that describes the UserStackAssociation objects
disable_user	Disables the specified user in the user pool
disassociate_app_block_builder_app_block	Disassociates a specified app block builder from a specified app block
disassociate_application_fleet	Disassociates the specified application from the fleet
disassociate_application_from_entitlement	Deletes the specified application from the specified entitlement
disassociate_fleet	Disassociates the specified fleet from the specified stack
enable_user	Enables a user in the user pool
expire_session	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 resource
start_app_block_builder	Starts an app block builder
start_fleet	Starts the specified fleet
start_image_builder	Starts the specified image builder
stop_app_block_builder	Stops an app block 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 resource
untag_resource	Disassociates one or more specified tags from the specified AppStream 2 resource

update_app_block_builder	Updates an app block builder
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_app_block_builder_app_block(
  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 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 [Tagging AWS Resources](#) for more information, 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 endpoints: [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](#) 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*.

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*.

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 by a chat participant to establish an individual WebSocket chat connection to a room. When the token is used to connect to chat, the connection is valid for the session duration specified in the request. The token becomes invalid at the token-expiration timestamp included in the response.

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.

Logging Configuration Endpoints

- `create_logging_configuration` — Creates a logging configuration that allows clients to store and record sent messages.
- `delete_logging_configuration` — Deletes the specified logging configuration.
- `get_logging_configuration` — Gets the specified logging configuration.
- `list_logging_configurations` — Gets summary information about all your logging configurations in the AWS region where the API request is processed.
- `update_logging_configuration` — Updates a specified logging 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(), credentials = list(), endpoint = NULL, region = NULL)
```


Arguments

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

Value

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

Service syntax

```
svc <- 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"
),
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 WebSoc
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, un
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 th
list_rooms	Gets summary information about all your rooms in the AWS region where the API request is
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)
```

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

Arguments

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

	<ul style="list-style-type: none"> • s3_force_path_style: Set this to true to force the request to use path-style addressing, i.e. <code>http://s3.amazonaws.com/BUCKET/KEY</code>. • sts_regional_endpoint: Set sts regional endpoint resolver to regional or legacy https://docs.aws.amazon.com/sdkref/latest/guide/feature-sts-regionalized-endpoint.html
credentials	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 <- 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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    )
  )
)
```

```

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

```

Operations

accept_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_backup	Gets StreamingSessionBackup 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_session_backups	Lists the backups of a streaming session in a 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 accounts in the requested Amazon Web Se
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 IAM Identity Center 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)
```

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

Operations

<code>abort_document_version_upload</code>	Aborts the upload of the specified document version that was previously initiated by InitiateDocumentVersionUpload
<code>activate_user</code>	Activates the specified user
<code>add_resource_permissions</code>	Creates a set of permissions for the specified folder or document
<code>create_comment</code>	Adds a new comment to the specified document version
<code>create_custom_metadata</code>	Adds one or more custom properties to the specified resource (a folder, document, or version)
<code>create_folder</code>	Creates a folder with the specified name and parent folder
<code>create_labels</code>	Adds the specified list of labels to the given resource (a document or folder)
<code>create_notification_subscription</code>	Configure Amazon WorkDocs to use Amazon SNS notifications
<code>create_user</code>	Creates a user in a Simple AD or Microsoft AD directory
<code>deactivate_user</code>	Deactivates the specified user, which revokes the user's access to Amazon WorkDocs
<code>delete_comment</code>	Deletes the specified comment from the document version
<code>delete_custom_metadata</code>	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)
```

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

Arguments

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

- **credentials:**
 - **creds:**
 - * **access_key_id:** AWS access key ID
 - * **secret_access_key:** AWS secret access key
 - * **session_token:** AWS temporary session token
 - **profile:** The name of a profile to use. If not given, then the default profile is used.
 - **anonymous:** Set anonymous credentials.
- **endpoint:** The complete URL to use for the constructed client.
- **region:** The AWS Region used in instantiating the client.
- **close_connection:** Immediately close all HTTP connections.
- **timeout:** The time in seconds till a timeout exception is thrown when attempting to make a connection. The default is 60 seconds.
- **s3_force_path_style:** Set this to `true` to force the request to use path-style addressing, i.e. `http://s3.amazonaws.com/BUCKET/KEY`.

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

Value

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

Service syntax

```
svc <- 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",
    sts_regional_endpoint = "string"
  ),
  credentials = list(
    creds = list(
      access_key_id = "string",
      secret_access_key = "string",
      session_token = "string"
    ),
    profile = "string",
```

```

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

```

Operations

associate_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 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

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

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

Value

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

Service syntax

```
svc <- 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"
    ),
    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_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_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, and resource
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_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

<code>describe_group</code>	Returns the data available for the group
<code>describe_inbound_dmarc_settings</code>	Lists the settings in a DMARC policy for a specified organization
<code>describe_mailbox_export_job</code>	Describes the current status of a mailbox export job
<code>describe_organization</code>	Provides more information regarding a given organization based on its identifier
<code>describe_resource</code>	Returns the data available for the resource
<code>describe_user</code>	Provides information regarding the user
<code>disassociate_delegate_from_resource</code>	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 specific user
<code>get_default_retention_policy</code>	Gets the default retention policy details for the specified organization
<code>get_impersonation_role</code>	Gets the impersonation role details for the given WorkMail organization
<code>get_impersonation_role_effect</code>	Tests whether the given impersonation role can impersonate a target user
<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 domain
<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_groups_for_entity</code>	Returns all the groups to which an entity belongs
<code>list_impersonation_roles</code>	Lists all the impersonation roles for the given WorkMail organization
<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 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 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 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 WorkMail and SES, and configures it for use by WorkMail
<code>register_to_work_mail</code>	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 items
<code>tag_resource</code>	Applies the specified tags to the specified 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 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 *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(),
  credentials = list(),
  endpoint = NULL,
  region = NULL
)
```

Arguments

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

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

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

Value

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

Service syntax

```
svc <- 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"
  ),
  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)

```

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.

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

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

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

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

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

`credentials` Optional credentials shorthand for the `config` parameter

- **creds:**

- **access_key_id:** AWS access key ID
- **secret_access_key:** AWS secret access key

- **session_token**: AWS temporary session token
 - **profile**: The name of a profile to use. If not given, then the default profile is used.
 - **anonymous**: Set anonymous credentials.
- endpoint Optional shorthand for complete URL to use for the constructed client.
- region Optional shorthand for AWS Region used in instantiating the client.

Value

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

Service syntax

```
svc <- 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"
  ),
  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_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
associate_workspace_application	Associates the specified application to the specified Workspace
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_standby_workspaces	Creates a standby Workspace in a secondary Region
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
deploy_workspace_applications	Deploys associated applications to the specified Workspace
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_application_associations	Describes the associations between the application and the specified associated resource
describe_applications	Describes the specified applications by filtering based on their compute types, license types, and other attributes
describe_bundle_associations	Describes the associations between the applications and the specified bundle
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_image_associations	Describes the associations between the applications and the specified image
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_associations	Describes the associations between applications and the specified Workspace
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 accounts
describe_workspace_images	Retrieves a list that describes one or more specified images, if the image identifier is provided
describe_workspaces	Describes the specified WorkSpaces
describe_workspaces_connection_status	Describes the connection status of the specified WorkSpaces
describe_workspace_snapshots	Describes the snapshots for the specified Workspace
disassociate_connection_alias	Disassociates a connection alias from a directory
disassociate_ip_groups	Disassociates the specified IP access control group from the specified directory
disassociate_workspace_application	Disassociates the specified application from a Workspace
import_client_branding	Imports client branding

<code>import_workspace_image</code>	Imports the specified Windows 10 or 11 Bring Your Own License (BYOL) image
<code>list_available_management_cidr_ranges</code>	Retrieves a list of IP address ranges, specified as IPv4 CIDR blocks, that you can
<code>migrate_workspace</code>	Migrates a WorkSpace from one operating system or bundle type to another, whil
<code>modify_account</code>	Modifies the configuration of Bring Your Own License (BYOL) for the specified
<code>modify_certificate_based_auth_properties</code>	Modifies the properties of the certificate-based authentication you want to use wit
<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 Work
<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 tha
<code>update_rules_of_ip_group</code>	Replaces the current rules of the specified IP access control group with the specif
<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

Examples

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

## End(Not run)
```

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

Arguments

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

Value

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

Service syntax

```
svc <- 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"
  ),
  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_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_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_identity_provider	Creates an identity provider resource that is then associated with a web portal

<code>create_ip_access_settings</code>	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_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_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_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_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_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>get_browser_settings</code>	Gets browser 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_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_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_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
<code>list_trust_stores</code>	Retrieves a list of trust stores
<code>list_user_access_logging_settings</code>	Retrieves a list of user access logging settings
<code>list_user_settings</code>	Retrieves a list of user settings
<code>tag_resource</code>	Adds or overwrites one or more tags for the specified resource
<code>untag_resource</code>	Removes one or more tags from the specified resource
<code>update_browser_settings</code>	Updates browser settings
<code>update_identity_provider</code>	Updates the identity provider
<code>update_ip_access_settings</code>	Updates IP access settings
<code>update_network_settings</code>	Updates network settings
<code>update_portal</code>	Updates a web portal
<code>update_trust_store</code>	Updates the trust store

[update_user_access_logging_settings](#)
[update_user_settings](#)

Updates the user access logging settings
Updates the user settings

Examples

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

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