

# Package ‘paws.end.user.computing’

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'workmail\_interfaces.R' 'workmail\_operations.R'  
'workmailmessageflow\_service.R'  
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appstream	<i>Amazon AppStream</i>
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## Description

### Amazon WorkSpaces Applications

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

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

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

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

**Usage**

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

**Arguments**

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

**Value**

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

**Service syntax**

```

svc <- 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](#)  
[associate\\_application\\_fleet](#)  
[associate\\_application\\_to\\_entitlement](#)  
[associate\\_fleet](#)  
[associate\\_software\\_to\\_image\\_builder](#)  
[batch\\_associate\\_user\\_stack](#)  
[batch\\_disassociate\\_user\\_stack](#)  
[copy\\_image](#)  
[create\\_app\\_block](#)  
[create\\_app\\_block\\_builder](#)  
[create\\_app\\_block\\_builder\\_streaming\\_url](#)  
[create\\_application](#)  
[create\\_directory\\_config](#)

Associates the specified app block builder with the specified app block  
 Associates the specified application with the specified fleet  
 Associates an application to entitlement  
 Associates the specified fleet with the specified stack  
 Associates license included application(s) with an existing image builder  
 Associates the specified users with the specified stacks  
 Disassociates the specified users from the specified stacks  
 Copies the image within the same region or to a new region within the same region  
 Creates an app block  
 Creates an app block builder  
 Creates a URL to start a create app block builder streaming session  
 Creates an application  
 Creates a Directory Config object in WorkSpaces Applications

<code>create_entitlement</code>	Creates a new entitlement
<code>create_export_image_task</code>	Creates a task to export a WorkSpaces Applications image to an EC2 instance
<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_imported_image</code>	Creates a custom WorkSpaces Applications image by importing an EC2 instance image
<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 WorkSpaces Applications streaming session
<code>create_theme_for_stack</code>	Creates custom branding that customizes the appearance of the streaming session
<code>create_updated_image</code>	Creates a new image with the latest Windows operating system updates
<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_app_block_builder</code>	Deletes an app block builder
<code>delete_application</code>	Deletes an application
<code>delete_directory_config</code>	Deletes the specified Directory Config object from WorkSpaces Applications
<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_theme_for_stack</code>	Deletes custom branding that customizes the appearance of the streaming session
<code>delete_usage_report_subscription</code>	Disables usage report generation
<code>delete_user</code>	Deletes a user from the user pool
<code>describe_app_block_builder_app_block_associations</code>	Retrieves a list that describes one or more app block builder associations
<code>describe_app_block_builders</code>	Retrieves a list that describes one or more app block builders
<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_app_license_usage</code>	Retrieves license included application usage information
<code>describe_directory_configs</code>	Retrieves a list that describes one or more specified Directory Config objects
<code>describe_entitlements</code>	Retrieves a list that describes one or more entitlements
<code>describe_fleets</code>	Retrieves a list that describes one or more specified fleets, if the fleet name is specified
<code>describe_image_builders</code>	Retrieves a list that describes one or more specified image builders, if the image builder name is specified
<code>describe_image_permissions</code>	Retrieves a list that describes the permissions for shared AWS account images
<code>describe_images</code>	Retrieves a list that describes one or more specified images, if the image name is specified
<code>describe_sessions</code>	Retrieves a list that describes the streaming sessions for a specified stack
<code>describe_software_associations</code>	Retrieves license included application associations for a specified resource
<code>describe_stacks</code>	Retrieves a list that describes one or more specified stacks, if the stack name is specified
<code>describe_theme_for_stack</code>	Retrieves a list that describes the theme for a specified stack
<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_app_block_builder_app_block</code>	Disassociates a specified app block builder from a specified app block
<code>disassociate_application_fleet</code>	Disassociates the specified application from the fleet
<code>disassociate_application_from_entitlement</code>	Deletes the specified application from the specified entitlement

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

## Examples

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

## End(Not run)
```

## Description

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

AWS Chatbot APIs are currently available in the following Regions:

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

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

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

## Usage

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

## Arguments

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

- **credentials:**

- **creds:**

- \* **access\_key\_id:** AWS access key ID
- \* **secret\_access\_key:** AWS secret access key
- \* **session\_token:** AWS temporary session token

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

- **anonymous:** Set anonymous credentials.

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

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

- **close\_connection:** Immediately close all HTTP connections.

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

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

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

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

### Operations

<code>associate_to_configuration</code>	Links a resource (for example, a custom action) to a channel configuration
<code>create_chime_webhook_configuration</code>	Creates an AWS Chatbot configuration for Amazon Chime
<code>create_custom_action</code>	Creates a custom action that can be invoked as an alias or as a button on a r
<code>create_microsoft_teams_channel_configuration</code>	Creates an AWS Chatbot configuration for Microsoft Teams
<code>create_slack_channel_configuration</code>	Creates an AWS Chatbot configuration for Slack
<code>delete_chime_webhook_configuration</code>	Deletes a Amazon Chime webhook configuration for AWS Chatbot
<code>delete_custom_action</code>	Deletes a custom action
<code>delete_microsoft_teams_channel_configuration</code>	Deletes a Microsoft Teams channel configuration for AWS Chatbot
<code>delete_microsoft_teams_configured_team</code>	Deletes the Microsoft Teams team authorization allowing for channels to be
<code>delete_microsoft_teams_user_identity</code>	Identifes a user level permission for a channel configuration
<code>delete_slack_channel_configuration</code>	Deletes a Slack channel configuration for AWS Chatbot
<code>delete_slack_user_identity</code>	Deletes a user level permission for a Slack channel configuration
<code>delete_slack_workspace_authorization</code>	Deletes the Slack workspace authorization that allows channels to be confi
<code>describe_chime_webhook_configurations</code>	Lists Amazon Chime webhook configurations optionally filtered by ChatC
<code>describe_slack_channel_configurations</code>	Lists Slack channel configurations optionally filtered by ChatConfiguration
<code>describe_slack_user_identities</code>	Lists all Slack user identities with a mapped role
<code>describe_slack_workspaces</code>	List all authorized Slack workspaces connected to the AWS Account onboa
<code>disassociate_from_configuration</code>	Unlink a resource, for example a custom action, from a channel configurati
<code>get_account_preferences</code>	Returns AWS Chatbot account preferences
<code>get_custom_action</code>	Returns a custom action
<code>get_microsoft_teams_channel_configuration</code>	Returns a Microsoft Teams channel configuration in an AWS account
<code>list_associations</code>	Lists resources associated with a channel configuration
<code>list_custom_actions</code>	Lists custom actions defined in this account
<code>list_microsoft_teams_channel_configurations</code>	Lists all AWS Chatbot Microsoft Teams channel configurations in an AWS
<code>list_microsoft_teams_configured_teams</code>	Lists all authorized Microsoft Teams for an AWS Account
<code>list_microsoft_teams_user_identities</code>	A list all Microsoft Teams user identities with a mapped role
<code>list_tags_for_resource</code>	Lists all of the tags associated with the Amazon Resource Name (ARN) tha
<code>tag_resource</code>	Attaches a key-value pair to a resource, as identified by its Amazon Resour
<code>untag_resource</code>	Detaches a key-value pair from a resource, as identified by its Amazon Res
<code>update_account_preferences</code>	Updates AWS Chatbot account preferences
<code>update_chime_webhook_configuration</code>	Updates a Amazon Chime webhook configuration
<code>update_custom_action</code>	Updates a custom action
<code>update_microsoft_teams_channel_configuration</code>	Updates an Microsoft Teams channel configuration
<code>update_slack_channel_configuration</code>	Updates a Slack channel configuration

## Examples

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

## End(Not run)
```

## Description

### Introduction

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

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

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

### Notes on terminology:

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

### Resources

The following resources are part of Amazon IVS Chat:

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

### Tagging

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

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

The Amazon IVS Chat API has these tag-related operations: [tag\\_resource](#), [untag\\_resource](#), and [list\\_tags\\_for\\_resource](#). The following resource supports tagging: Room.

At most 50 tags can be applied to a resource.

### API Access Security

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

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

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

### Signing API Requests

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

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

For more information:

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

### Amazon Resource Names (ARNs)

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

### Usage

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

### Arguments

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

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

## Value

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

## Service syntax

```
svc <- 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

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

## Examples

```

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

## End(Not run)

```

## 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` 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.

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

## Value

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

## Service syntax

```
svc <- 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

<a href="#">abort_document_version_upload</a>	Aborts the upload of the specified document version that was previously initiated by InitiateDocumentVersionUpload
<a href="#">activate_user</a>	Activates the specified user
<a href="#">add_resource_permissions</a>	Creates a set of permissions for the specified folder or document
<a href="#">create_comment</a>	Adds a new comment to the specified document version
<a href="#">create_custom_metadata</a>	Adds one or more custom properties to the specified resource (a folder, document, or version)
<a href="#">create_folder</a>	Creates a folder with the specified name and parent folder
<a href="#">create_labels</a>	Adds the specified list of labels to the given resource (a document or folder)
<a href="#">create_notification_subscription</a>	Configure Amazon WorkDocs to use Amazon SNS notifications
<a href="#">create_user</a>	Creates a user in a Simple AD or Microsoft AD directory
<a href="#">deactivate_user</a>	Deactivates the specified user, which revokes the user's access to Amazon WorkDocs
<a href="#">delete_comment</a>	Deletes the specified comment from the document version
<a href="#">delete_custom_metadata</a>	Deletes custom metadata from the specified resource
<a href="#">delete_document</a>	Permanently deletes the specified document and its associated metadata
<a href="#">delete_document_version</a>	Deletes a specific version of a document
<a href="#">delete_folder</a>	Permanently deletes the specified folder and its contents
<a href="#">delete_folder_contents</a>	Deletes the contents of the specified folder
<a href="#">delete_labels</a>	Deletes the specified list of labels from a resource
<a href="#">delete_notification_subscription</a>	Deletes the specified subscription from the specified organization
<a href="#">delete_user</a>	Deletes the specified user from a Simple AD or Microsoft AD directory
<a href="#">describe_activities</a>	Describes the user activities in a specified time period
<a href="#">describe_comments</a>	List all the comments for the specified document version
<a href="#">describe_document_versions</a>	Retrieves the document versions for the specified document
<a href="#">describe_folder_contents</a>	Describes the contents of the specified folder, including its documents and subfolders
<a href="#">describe_groups</a>	Describes the groups specified by the query
<a href="#">describe_notification_subscriptions</a>	Lists the specified notification subscriptions
<a href="#">describe_resource_permissions</a>	Describes the permissions of a specified resource
<a href="#">describe_root_folders</a>	Describes the current user's special folders; the RootFolder and the RecycleBin
<a href="#">describe_users</a>	Describes the specified users
<a href="#">get_current_user</a>	Retrieves details of the current user for whom the authentication token was generated
<a href="#">get_document</a>	Retrieves details of a document
<a href="#">get_document_path</a>	Retrieves the path information (the hierarchy from the root folder) for the requested document

<a href="#">get_document_version</a>	Retrieves version metadata for the specified document
<a href="#">get_folder</a>	Retrieves the metadata of the specified folder
<a href="#">get_folder_path</a>	Retrieves the path information (the hierarchy from the root folder) for the specified folder
<a href="#">get_resources</a>	Retrieves a collection of resources, including folders and documents
<a href="#">initiate_document_version_upload</a>	Creates a new document object and version object
<a href="#">remove_all_resource_permissions</a>	Removes all the permissions from the specified resource
<a href="#">remove_resource_permission</a>	Removes the permission for the specified principal from the specified resource
<a href="#">restore_document_versions</a>	Recovers a deleted version of an Amazon WorkDocs document
<a href="#">search_resources</a>	Searches metadata and the content of folders, documents, document versions, and comments
<a href="#">update_document</a>	Updates the specified attributes of a document
<a href="#">update_document_version</a>	Changes the status of the document version to ACTIVE
<a href="#">update_folder</a>	Updates the specified attributes of the specified folder
<a href="#">update_user</a>	Updates the specified attributes of the specified user, and grants or revokes administrative permissions

## Examples

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

## End(Not run)
```

---

workmail

*Amazon WorkMail*

---

## Description

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

The WorkMail API is designed for the following scenarios:

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

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

## Usage

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

## Arguments

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

**Value**

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

**Service syntax**

```
svc <- 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 do

[create\\_group](#)

Creates a group that can be used in WorkMail by calling the RegisterToWorkMail

[create\\_identity\\_center\\_application](#)

Creates the WorkMail application in IAM Identity Center that can be used later in

<code>create_impersonation_role</code>	Creates an impersonation role for the given WorkMail organization
<code>create_mobile_device_access_rule</code>	Creates a new mobile device access rule for the specified WorkMail organization
<code>create_organization</code>	Creates a new WorkMail organization
<code>create_resource</code>	Creates a new WorkMail resource
<code>create_user</code>	Creates a user who can be used in WorkMail by calling the RegisterToWorkMail
<code>delete_access_control_rule</code>	Deletes an access control rule for the specified WorkMail organization
<code>delete_alias</code>	Remove one or more specified aliases from a set of aliases for a given user
<code>delete_availability_configuration</code>	Deletes the AvailabilityConfiguration for the given WorkMail organization and d
<code>delete_email_monitoring_configuration</code>	Deletes the email monitoring configuration for a specified organization
<code>delete_group</code>	Deletes a group from WorkMail
<code>delete_identity_center_application</code>	Deletes the IAM Identity Center application from WorkMail
<code>delete_identity_provider_configuration</code>	Disables the integration between IdC and WorkMail
<code>delete_impersonation_role</code>	Deletes an impersonation role for the given WorkMail organization
<code>delete_mailbox_permissions</code>	Deletes permissions granted to a member (user or group)
<code>delete_mobile_device_access_override</code>	Deletes the mobile device access override for the given WorkMail organization, u
<code>delete_mobile_device_access_rule</code>	Deletes a mobile device access rule for the specified WorkMail organization
<code>delete_organization</code>	Deletes an WorkMail organization and all underlying AWS resources managed by
<code>delete_personal_access_token</code>	Deletes the Personal Access Token from the provided WorkMail Organization
<code>delete_resource</code>	Deletes the specified resource
<code>delete_retention_policy</code>	Deletes the specified retention policy from the specified organization
<code>delete_user</code>	Deletes a user from WorkMail and all subsequent systems
<code>deregister_from_work_mail</code>	Mark a user, group, or resource as no longer used in WorkMail
<code>deregister_mail_domain</code>	Removes a domain from WorkMail, stops email routing to WorkMail, and remov
<code>describe_email_monitoring_configuration</code>	Describes the current email monitoring configuration for a specified organization
<code>describe_entity</code>	Returns basic details about an entity in WorkMail
<code>describe_group</code>	Returns the data available for the group
<code>describe_identity_provider_configuration</code>	Returns detailed information on the current IdC setup for the WorkMail organizat
<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 specifi
<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 yo
<code>get_mobile_device_access_effect</code>	Simulates the effect of the mobile device access rules for the given attributes of a
<code>get_mobile_device_access_override</code>	Gets the mobile device access override for the given WorkMail organization, user
<code>get_personal_access_token_metadata</code>	Requests details of a specific Personal Access Token within the WorkMail organi
<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
<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 WorkM
<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_personal_access_tokens</code>	Returns a summary of your Personal Access Tokens
<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_identity_provider_configuration</code>	Enables integration between IAM Identity Center (IdC) and WorkMail to proxy a
<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 organ
<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 Work
<code>register_to_work_mail</code>	Registers an existing and disabled user, group, or resource for WorkMail use by a
<code>reset_password</code>	Allows the administrator to reset the password for a user
<code>start_mailbox_export_job</code>	Starts a mailbox export job to export MIME-format email messages and calendar
<code>tag_resource</code>	Applies the specified tags to the specified WorkMailorganization resource
<code>test_availability_configuration</code>	Performs a test on an availability provider to ensure that access is allowed
<code>untag_resource</code>	Untags the specified tags from the specified WorkMail organization resource
<code>update_availability_configuration</code>	Updates an existing AvailabilityConfiguration for the given WorkMail organization
<code>update_default_mail_domain</code>	Updates the default mail domain for an organization
<code>update_group</code>	Updates attributes in a group
<code>update_impersonation_role</code>	Updates an impersonation role for the given WorkMail organization
<code>update_mailbox_quota</code>	Updates a user's current mailbox quota for a specified organization and user
<code>update_mobile_device_access_rule</code>	Updates a mobile device access rule for the specified WorkMail organization
<code>update_primary_email_address</code>	Updates the primary email for a user, group, or resource
<code>update_resource</code>	Updates data for the resource
<code>update_user</code>	Updates data for the user

## Examples

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

## End(Not run)
```

---

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

- **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)
```

---

workspaces

*Amazon WorkSpaces*

---

## Description

Amazon WorkSpaces Service

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

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

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

## Usage

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

**Arguments**

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

**Value**

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

**Service syntax**

```
svc <- 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

<a href="#">accept_account_link_invitation</a>	Accepts the account link invitation
<a href="#">associate_connection_alias</a>	Associates the specified connection alias with the specified directory to enable cross-Region redirection
<a href="#">associate_ip_groups</a>	Associates the specified IP access control group with the specified directory
<a href="#">associate_workspace_application</a>	Associates the specified application to the specified WorkSpace
<a href="#">authorize_ip_rules</a>	Adds one or more rules to the specified IP access control group
<a href="#">copy_workspace_image</a>	Copies the specified image from the specified Region to the current Region
<a href="#">create_account_link_invitation</a>	Creates the account link invitation
<a href="#">create_connect_client_add_in</a>	Creates a client-add-in for Amazon Connect within a directory
<a href="#">create_connection_alias</a>	Creates the specified connection alias for use with cross-Region redirection
<a href="#">create_ip_group</a>	Creates an IP access control group
<a href="#">create_standby_workspaces</a>	Creates a standby WorkSpace in a secondary Region
<a href="#">create_tags</a>	Creates the specified tags for the specified WorkSpaces resource
<a href="#">create_updated_workspace_image</a>	Creates a new updated WorkSpace image based on the specified source image
<a href="#">create_workspace_bundle</a>	Creates the specified WorkSpace bundle
<a href="#">create_workspace_image</a>	Creates a new WorkSpace image from an existing WorkSpace
<a href="#">create_workspaces</a>	Creates one or more WorkSpaces
<a href="#">create_workspaces_pool</a>	Creates a pool of WorkSpaces
<a href="#">delete_account_link_invitation</a>	Deletes the account link invitation
<a href="#">delete_client_branding</a>	Deletes customized client branding
<a href="#">delete_connect_client_add_in</a>	Deletes a client-add-in for Amazon Connect that is configured within a directory

<a href="#">delete_connection_alias</a>	Deletes the specified connection alias
<a href="#">delete_ip_group</a>	Deletes the specified IP access control group
<a href="#">delete_tags</a>	Deletes the specified tags from the specified WorkSpaces resource
<a href="#">delete_workspace_bundle</a>	Deletes the specified Workspace bundle
<a href="#">delete_workspace_image</a>	Deletes the specified image from your account
<a href="#">deploy_workspace_applications</a>	Deploys associated applications to the specified Workspace
<a href="#">deregister_workspace_directory</a>	Deregisters the specified directory
<a href="#">describe_account</a>	Retrieves a list that describes the configuration of Bring Your Own License (BYOL)
<a href="#">describe_account_modifications</a>	Retrieves a list that describes modifications to the configuration of Bring Your Own License (BYOL)
<a href="#">describe_application_associations</a>	Describes the associations between the application and the specified associated resource
<a href="#">describe_applications</a>	Describes the specified applications by filtering based on their compute types, license types, and bundle types
<a href="#">describe_bundle_associations</a>	Describes the associations between the applications and the specified bundle
<a href="#">describe_client_branding</a>	Describes the specified client branding
<a href="#">describe_client_properties</a>	Retrieves a list that describes one or more specified Amazon WorkSpaces client properties
<a href="#">describe_connect_client_add_ins</a>	Retrieves a list of Amazon Connect client add-ins that have been created
<a href="#">describe_connection_aliases</a>	Retrieves a list that describes the connection aliases used for cross-Region redirection
<a href="#">describe_connection_alias_permissions</a>	Describes the permissions that the owner of a connection alias has granted to other Amazon accounts
<a href="#">describe_custom_workspace_image_import</a>	Retrieves information about a Workspace BYOL image being imported via ImportImage
<a href="#">describe_image_associations</a>	Describes the associations between the applications and the specified image
<a href="#">describe_ip_groups</a>	Describes one or more of your IP access control groups
<a href="#">describe_tags</a>	Describes the specified tags for the specified WorkSpaces resource
<a href="#">describe_workspace_associations</a>	Describes the associations between applications and the specified Workspace
<a href="#">describe_workspace_bundles</a>	Retrieves a list that describes the available Workspace bundles
<a href="#">describe_workspace_directories</a>	Describes the available directories that are registered with Amazon WorkSpaces
<a href="#">describe_workspace_image_permissions</a>	Describes the permissions that the owner of an image has granted to other Amazon accounts
<a href="#">describe_workspace_images</a>	Retrieves a list that describes one or more specified images, if the image identifier is provided
<a href="#">describe_workspaces</a>	Describes the specified WorkSpaces
<a href="#">describe_workspaces_connection_status</a>	Describes the connection status of the specified WorkSpaces
<a href="#">describe_workspace_snapshots</a>	Describes the snapshots for the specified Workspace
<a href="#">describe_workspaces_pools</a>	Describes the specified WorkSpaces Pools
<a href="#">describe_workspaces_pool_sessions</a>	Retrieves a list that describes the streaming sessions for a specified pool
<a href="#">disassociate_connection_alias</a>	Disassociates a connection alias from a directory
<a href="#">disassociate_ip_groups</a>	Disassociates the specified IP access control group from the specified directory
<a href="#">disassociate_workspace_application</a>	Disassociates the specified application from a Workspace
<a href="#">get_account_link</a>	Retrieves account link information
<a href="#">import_client_branding</a>	Imports client branding
<a href="#">import_custom_workspace_image</a>	Imports the specified Windows 10 or 11 Bring Your Own License (BYOL) image
<a href="#">import_workspace_image</a>	Imports the specified Windows 10 or 11 Bring Your Own License (BYOL) image
<a href="#">list_account_links</a>	Lists all account links
<a href="#">list_available_management_cidr_ranges</a>	Retrieves a list of IP address ranges, specified as IPv4 CIDR blocks, that you can use for cross-Region redirection
<a href="#">migrate_workspace</a>	Migrates a Workspace from one operating system or bundle type to another, while preserving the configuration
<a href="#">modify_account</a>	Modifies the configuration of Bring Your Own License (BYOL) for the specified account
<a href="#">modify_certificate_based_auth_properties</a>	Modifies the properties of the certificate-based authentication you want to use with your WorkSpaces
<a href="#">modify_client_properties</a>	Modifies the properties of the specified Amazon WorkSpaces clients
<a href="#">modify_endpoint_encryption_mode</a>	Modifies the endpoint encryption mode that allows you to configure the specific encryption mode
<a href="#">modify_saml_properties</a>	Modifies multiple properties related to SAML 2
<a href="#">modify_selfservice_permissions</a>	Modifies the self-service Workspace management capabilities for your users
<a href="#">modify_streaming_properties</a>	Modifies the specified streaming properties

<a href="#">modify_workspace_access_properties</a>	Specifies which devices and operating systems users can use to access their Wo
<a href="#">modify_workspace_creation_properties</a>	Modify the default properties used to create WorkSpaces
<a href="#">modify_workspace_properties</a>	Modifies the specified WorkSpace properties
<a href="#">modify_workspace_state</a>	Sets the state of the specified WorkSpace
<a href="#">reboot_workspaces</a>	Reboots the specified WorkSpaces
<a href="#">rebuild_workspaces</a>	Rebuilds the specified WorkSpace
<a href="#">register_workspace_directory</a>	Registers the specified directory
<a href="#">reject_account_link_invitation</a>	Rejects the account link invitation
<a href="#">restore_workspace</a>	Restores the specified WorkSpace to its last known healthy state
<a href="#">revoke_ip_rules</a>	Removes one or more rules from the specified IP access control group
<a href="#">start_workspaces</a>	Starts the specified WorkSpaces
<a href="#">start_workspaces_pool</a>	Starts the specified pool
<a href="#">stop_workspaces</a>	Stops the specified WorkSpaces
<a href="#">stop_workspaces_pool</a>	Stops the specified pool
<a href="#">terminate_workspaces</a>	Terminates the specified WorkSpaces
<a href="#">terminate_workspaces_pool</a>	Terminates the specified pool
<a href="#">terminate_workspaces_pool_session</a>	Terminates the pool session
<a href="#">update_connect_client_add_in</a>	Updates a Amazon Connect client add-in
<a href="#">update_connection_alias_permission</a>	Shares or unshares a connection alias with one account by specifying whether t
<a href="#">update_rules_of_ip_group</a>	Replaces the current rules of the specified IP access control group with the spec
<a href="#">update_workspace_bundle</a>	Updates a WorkSpace bundle with a new image
<a href="#">update_workspace_image_permission</a>	Shares or unshares an image with one account in the same Amazon Web Servic
<a href="#">update_workspaces_pool</a>	Update the specified pool

### Examples

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

## End(Not run)
```

---

workspacesweb

*Amazon WorkSpaces Web*

---

### Description

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

**Usage**

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

**Arguments**

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

**Value**

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

**Service syntax**

```

svc <- 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**

<a href="#">associate_browser_settings</a>	Associates a browser settings resource with a web portal
<a href="#">associate_data_protection_settings</a>	Associates a data protection settings resource with a web portal
<a href="#">associate_ip_access_settings</a>	Associates an IP access settings resource with a web portal
<a href="#">associate_network_settings</a>	Associates a network settings resource with a web portal
<a href="#">associate_session_logger</a>	Associates a session logger with a portal
<a href="#">associate_trust_store</a>	Associates a trust store with a web portal
<a href="#">associate_user_access_logging_settings</a>	Associates a user access logging settings resource with a web portal
<a href="#">associate_user_settings</a>	Associates a user settings resource with a web portal
<a href="#">create_browser_settings</a>	Creates a browser settings resource that can be associated with a web portal
<a href="#">create_data_protection_settings</a>	Creates a data protection settings resource that can be associated with a web portal
<a href="#">create_identity_provider</a>	Creates an identity provider resource that is then associated with a web portal
<a href="#">create_ip_access_settings</a>	Creates an IP access settings resource that can be associated with a web portal
<a href="#">create_network_settings</a>	Creates a network settings resource that can be associated with a web portal

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

### Examples

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

## End(Not run)
```

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