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# Amazon WorkMail

## API Reference

**API Version 2017-10-01**



## **Amazon WorkMail: API Reference**

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# Welcome

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

The WorkMail API is designed for the following scenarios:

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

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

This document was last published on April 18, 2019.



# Actions

The following actions are supported:

- [AssociateDelegateToResource](#) (p. 3)
- [AssociateMemberToGroup](#) (p. 5)
- [CreateAlias](#) (p. 8)
- [CreateGroup](#) (p. 11)
- [CreateResource](#) (p. 14)
- [CreateUser](#) (p. 17)
- [DeleteAlias](#) (p. 20)
- [DeleteGroup](#) (p. 22)
- [DeleteMailboxPermissions](#) (p. 24)
- [DeleteResource](#) (p. 26)
- [DeleteUser](#) (p. 28)
- [DeregisterFromWorkMail](#) (p. 30)
- [DescribeGroup](#) (p. 32)
- [DescribeOrganization](#) (p. 35)
- [DescribeResource](#) (p. 38)
- [DescribeUser](#) (p. 41)
- [DisassociateDelegateFromResource](#) (p. 44)
- [DisassociateMemberFromGroup](#) (p. 46)
- [ListAliases](#) (p. 49)
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- [ListResourceDelegates](#) (p. 63)
- [ListResources](#) (p. 66)
- [ListUsers](#) (p. 69)
- [PutMailboxPermissions](#) (p. 72)
- [RegisterToWorkMail](#) (p. 75)
- [ResetPassword](#) (p. 78)
- [UpdatePrimaryEmailAddress](#) (p. 81)
- [UpdateResource](#) (p. 84)

# AssociateDelegateToResource

Adds a member (user or group) to the resource's set of delegates.

## Request Syntax

```
{  
  "EntityId": "string",  
  "OrganizationId": "string",  
  "ResourceId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### EntityId (p. 3)

The member (user or group) to associate to the resource.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### OrganizationId (p. 3)

The organization under which the resource exists.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

### ResourceId (p. 3)

The resource for which members (users or groups) are associated.

Type: String

Pattern: `^r-[0-9a-f]{32}$`

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# AssociateMemberToGroup

Adds a member (user or group) to the group's set.

## Request Syntax

```
{  
  "GroupId": "string",  
  "MemberId": "string",  
  "OrganizationId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### GroupId (p. 5)

The group to which the member (user or group) is associated.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### MemberId (p. 5)

The member (user or group) to associate to the group.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### OrganizationId (p. 5)

The organization under which the group exists.

Type: String

Pattern: ^m-[0-9a-f]{32}\$

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **DirectoryServiceAuthenticationFailedException**

The directory service doesn't recognize the credentials supplied by WorkMail.

HTTP Status Code: 400

### **DirectoryUnavailableException**

The directory on which you are trying to perform operations isn't available.

HTTP Status Code: 400

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

### **UnsupportedOperationException**

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# CreateAlias

Adds an alias to the set of a given member (user or group) of Amazon WorkMail.

## Request Syntax

```
{  
  "Alias": "string",  
  "EntityId": "string",  
  "OrganizationId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### Alias (p. 8)

The alias to add to the member set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 254.

Pattern: [a-zA-Z0-9.\_%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}

Required: Yes

### EntityId (p. 8)

The member (user or group) to which this alias is added.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### OrganizationId (p. 8)

The organization under which the member (user or group) exists.

Type: String

Pattern: ^m-[0-9a-f]{32}\$

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **EmailAddressInUseException**

The email address that you're trying to assign is already created for a different user, group, or resource.

HTTP Status Code: 400

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **MailDomainNotFoundException**

For an email or alias to be created in Amazon WorkMail, the included domain must be defined in the organization.

HTTP Status Code: 400

### **MailDomainStateException**

After a domain has been added to the organization, it must be verified. The domain is not yet verified.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## **See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)



- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

## CreateGroup

Creates a group that can be used in Amazon WorkMail by calling the [RegisterToWorkMail \(p. 75\)](#) operation.

### Request Syntax

```
{  
  "Name": "string",  
  "OrganizationId": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### **Name (p. 11)**

The name of the group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\u0020-\u00FF]+`

Required: Yes

#### **OrganizationId (p. 11)**

The organization under which the group is to be created.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

### Response Syntax

```
{  
  "GroupId": "string"  
}
```

### Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

#### **GroupId (p. 11)**

The identifier of the group.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **DirectoryServiceAuthenticationFailedException**

The directory service doesn't recognize the credentials supplied by WorkMail.

HTTP Status Code: 400

### **DirectoryUnavailableException**

The directory on which you are trying to perform operations isn't available.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **NameAvailabilityException**

The user, group, or resource name isn't unique in Amazon WorkMail.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

### **ReservedNameException**

This user, group, or resource name is not allowed in Amazon WorkMail.

HTTP Status Code: 400

### **UnsupportedOperationException**

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# CreateResource

Creates a new Amazon WorkMail resource.

## Request Syntax

```
{  
  "Name": "string",  
  "OrganizationId": "string",  
  "Type": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### Name (p. 14)

The name of the new resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: [\w\-. ]+(\@[a-zA-Z0-9.\-]+\.[a-zA-Z0-9]{2,})?

Required: Yes

### OrganizationId (p. 14)

The identifier associated with the organization for which the resource is created.

Type: String

Pattern: ^m-[0-9a-f]{32}\$

Required: Yes

### Type (p. 14)

The type of the new resource. The available types are `equipment` and `room`.

Type: String

Valid Values: `ROOM` | `EQUIPMENT`

Required: Yes

## Response Syntax

```
{  
  "ResourceId": "string"  
}
```

```
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **ResourceId** (p. 14)

The identifier of the new resource.

Type: String

Pattern: `^r-[0-9a-f]{32}$`

## Errors

For information about the errors that are common to all actions, see [Common Errors](#) (p. 103).

### **DirectoryServiceAuthenticationFailedException**

The directory service doesn't recognize the credentials supplied by WorkMail.

HTTP Status Code: 400

### **DirectoryUnavailableException**

The directory on which you are trying to perform operations isn't available.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **NameAvailabilityException**

The user, group, or resource name isn't unique in Amazon WorkMail.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

### **ReservedNameException**

This user, group, or resource name is not allowed in Amazon WorkMail.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

## CreateUser

Creates a user who can be used in Amazon WorkMail by calling the [RegisterToWorkMail \(p. 75\)](#) operation.

### Request Syntax

```
{  
  "DisplayName": "string",  
  "Name": "string",  
  "OrganizationId": "string",  
  "Password": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### DisplayName (p. 17)

The display name for the new user.

Type: String

Length Constraints: Maximum length of 256.

Required: Yes

#### Name (p. 17)

The name for the new user. Simple AD or AD Connector user names have a maximum length of 20. All others have a maximum length of 64.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w\-. ]+(\@[a-zA-Z0-9.\-]+\.[a-zA-Z0-9]{2,})?

Required: Yes

#### OrganizationId (p. 17)

The identifier of the organization for which the user is created.

Type: String

Pattern: ^m-[0-9a-f]{32}\$

Required: Yes

#### Password (p. 17)

The password for the new user.

Type: String



Length Constraints: Maximum length of 256.

Pattern: [\u0020-\u00FF]+

Required: Yes

## Response Syntax

```
{  
  "UserId": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### UserId (p. 18)

The identifier for the new user.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### DirectoryServiceAuthenticationFailedException

The directory service doesn't recognize the credentials supplied by WorkMail.

HTTP Status Code: 400

### DirectoryUnavailableException

The directory on which you are trying to perform operations isn't available.

HTTP Status Code: 400

### InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### InvalidPasswordException

The supplied password doesn't match the minimum security constraints, such as length or use of special characters.

HTTP Status Code: 400

### NameAvailabilityException

The user, group, or resource name isn't unique in Amazon WorkMail.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

### **ReservedNameException**

This user, group, or resource name is not allowed in Amazon WorkMail.

HTTP Status Code: 400

### **UnsupportedOperationException**

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# DeleteAlias

Remove one or more specified aliases from a set of aliases for a given user.

## Request Syntax

```
{  
  "Alias": "string",  
  "EntityId": "string",  
  "OrganizationId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### Alias (p. 20)

The aliases to be removed from the user's set of aliases. Duplicate entries in the list are collapsed into single entries (the list is transformed into a set).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 254.

Pattern: [a-zA-Z0-9.\_%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}

Required: Yes

### EntityId (p. 20)

The identifier for the member (user or group) from which to have the aliases removed.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### OrganizationId (p. 20)

The identifier for the organization under which the user exists.

Type: String

Pattern: ^m-[0-9a-f]{32}\$

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# DeleteGroup

Deletes a group from Amazon WorkMail.

## Request Syntax

```
{  
  "GroupId": "string",  
  "OrganizationId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### GroupId (p. 22)

The identifier of the group to be deleted.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### OrganizationId (p. 22)

The organization that contains the group.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### DirectoryServiceAuthenticationFailedException

The directory service doesn't recognize the credentials supplied by WorkMail.

HTTP Status Code: 400

### DirectoryUnavailableException

The directory on which you are trying to perform operations isn't available.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

### **UnsupportedOperationException**

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# DeleteMailboxPermissions

Deletes permissions granted to a member (user or group).

## Request Syntax

```
{  
  "EntityId": "string",  
  "GranteeId": "string",  
  "OrganizationId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### EntityId (p. 24)

The identifier of the member (user or group) that owns the mailbox.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### GranteeId (p. 24)

The identifier of the member (user or group) for which to delete granted permissions.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### OrganizationId (p. 24)

The identifier of the organization under which the member (user or group) exists.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)



# DeleteResource

Deletes the specified resource.

## Request Syntax

```
{  
  "OrganizationId": "string",  
  "ResourceId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### OrganizationId (p. 26)

The identifier associated with the organization from which the resource is deleted.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

### ResourceId (p. 26)

The identifier of the resource to be deleted.

Type: String

Pattern: `^r-[0-9a-f]{32}$`

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### EntityStateException

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

**OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

## DeleteUser

Deletes a user from Amazon WorkMail and all subsequent systems. Before you can delete a user, the user state must be `DISABLED`. Use the [DescribeUser \(p. 41\)](#) action to confirm the user state.

Deleting a user is permanent and cannot be undone. WorkMail archives user mailboxes for 30 days before they are permanently removed.

### Request Syntax

```
{  
  "OrganizationId": "string",  
  "UserId": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### **OrganizationId (p. 28)**

The organization that contains the user to be deleted.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

#### **UserId (p. 28)**

The identifier of the user to be deleted.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

### Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

#### **DirectoryServiceAuthenticationFailedException**

The directory service doesn't recognize the credentials supplied by WorkMail.

HTTP Status Code: 400

### **DirectoryUnavailableException**

The directory on which you are trying to perform operations isn't available.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

### **UnsupportedOperationException**

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# DeregisterFromWorkMail

Mark a user, group, or resource as no longer used in Amazon WorkMail. This action disassociates the mailbox and schedules it for clean-up. WorkMail keeps mailboxes for 30 days before they are permanently removed. The functionality in the console is *Disable*.

## Request Syntax

```
{  
  "EntityId": "string",  
  "OrganizationId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### EntityId (p. 30)

The identifier for the member (user or group) to be updated.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### OrganizationId (p. 30)

The identifier for the organization under which the Amazon WorkMail entity exists.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### EntityNotFoundException

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### EntityStateException

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

**InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

**OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

**OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

## DescribeGroup

Returns the data available for the group.

### Request Syntax

```
{  
  "GroupId": "string",  
  "OrganizationId": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### GroupId (p. 32)

The identifier for the group to be described.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

#### OrganizationId (p. 32)

The identifier for the organization under which the group exists.

Type: String

Pattern: ^m-[0-9a-f]{32}\$

Required: Yes

### Response Syntax

```
{  
  "DisabledDate": number,  
  "Email": "string",  
  "EnabledDate": number,  
  "GroupId": "string",  
  "Name": "string",  
  "State": "string"  
}
```

### Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### DisabledDate (p. 32)

The date and time when a user was deregistered from WorkMail, in UNIX epoch time format.

Type: Timestamp

### Email (p. 32)

The email of the described group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 254.

Pattern: `[a-zA-Z0-9._%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}`

### EnabledDate (p. 32)

The date and time when a user was registered to WorkMail, in UNIX epoch time format.

Type: Timestamp

### GroupId (p. 32)

The identifier of the described group.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

### Name (p. 32)

The name of the described group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: `[\u0020-\u00FF]+`

### State (p. 32)

The state of the user: enabled (registered to Amazon WorkMail) or disabled (deregistered or never registered to WorkMail).

Type: String

Valid Values: `ENABLED | DISABLED | DELETED`

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### EntityNotFoundException

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400



### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# DescribeOrganization

Provides more information regarding a given organization based on its identifier.

## Request Syntax

```
{  
  "OrganizationId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 101).

The request accepts the following data in JSON format.

### OrganizationId (p. 35)

The identifier for the organization to be described.

Type: String

Pattern: ^m-[0-9a-f]{32}\$

Required: Yes

## Response Syntax

```
{  
  "Alias": "string",  
  "CompletedDate": number,  
  "DefaultMailDomain": "string",  
  "DirectoryId": "string",  
  "DirectoryType": "string",  
  "ErrorMessage": "string",  
  "OrganizationId": "string",  
  "State": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### Alias (p. 35)

The alias for an organization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 62.

Pattern: ^(?!\d-)([\da-zA-Z]+)([-]\*[\da-zA-Z])\*

### **CompletedDate (p. 35)**

The date at which the organization became usable in the WorkMail context, in UNIX epoch time format.

Type: Timestamp

### **DefaultMailDomain (p. 35)**

The default mail domain associated with the organization.

Type: String

Length Constraints: Maximum length of 256.

### **DirectoryId (p. 35)**

The identifier for the directory associated with an Amazon WorkMail organization.

Type: String

Length Constraints: Maximum length of 256.

### **DirectoryType (p. 35)**

The type of directory associated with the WorkMail organization.

Type: String

Length Constraints: Maximum length of 256.

### **ErrorMessage (p. 35)**

(Optional) The error message indicating if unexpected behavior was encountered with regards to the organization.

Type: String

Length Constraints: Maximum length of 256.

### **OrganizationId (p. 35)**

The identifier of an organization.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

### **State (p. 35)**

The state of an organization.

Type: String

Length Constraints: Maximum length of 256.

## **Errors**

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

## DescribeResource

Returns the data available for the resource.

### Request Syntax

```
{  
  "OrganizationId": "string",  
  "ResourceId": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### OrganizationId (p. 38)

The identifier associated with the organization for which the resource is described.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

#### ResourceId (p. 38)

The identifier of the resource to be described.

Type: String

Pattern: `^r-[0-9a-f]{32}$`

Required: Yes

### Response Syntax

```
{  
  "BookingOptions": {  
    "AutoAcceptRequests": boolean,  
    "AutoDeclineConflictingRequests": boolean,  
    "AutoDeclineRecurringRequests": boolean  
  },  
  "DisabledDate": number,  
  "Email": "string",  
  "EnabledDate": number,  
  "Name": "string",  
  "ResourceId": "string",  
  "State": "string",  
  "Type": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### **BookingOptions (p. 38)**

The booking options for the described resource.

Type: [BookingOptions \(p. 88\)](#) object

### **DisabledDate (p. 38)**

The date and time when a resource was disabled from WorkMail, in UNIX epoch time format.

Type: Timestamp

### **Email (p. 38)**

The email of the described resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 254.

Pattern: `[a-zA-Z0-9._%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}`

### **EnabledDate (p. 38)**

The date and time when a resource was enabled for WorkMail, in UNIX epoch time format.

Type: Timestamp

### **Name (p. 38)**

The name of the described resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `[\w\-.]+(@[a-zA-Z0-9\-.]+\.[a-zA-Z0-9]{2,})?`

### **ResourceId (p. 38)**

The identifier of the described resource.

Type: String

Pattern: `^r-[0-9a-f]{32}$`

### **State (p. 38)**

The state of the resource: enabled (registered to Amazon WorkMail) or disabled (deregistered or never registered to WorkMail).

Type: String

Valid Values: `ENABLED` | `DISABLED` | `DELETED`

### **Type (p. 38)**

The type of the described resource.

Type: String

Valid Values: ROOM | EQUIPMENT

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# DescribeUser

Provides information regarding the user.

## Request Syntax

```
{  
  "OrganizationId": "string",  
  "UserId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### OrganizationId (p. 41)

The identifier for the organization under which the user exists.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

### UserId (p. 41)

The identifier for the user to be described.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

## Response Syntax

```
{  
  "DisabledDate": number,  
  "DisplayName": "string",  
  "Email": "string",  
  "EnabledDate": number,  
  "Name": "string",  
  "State": "string",  
  "UserId": "string",  
  "UserRole": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.



#### DisabledDate (p. 41)

The date and time at which the user was disabled for Amazon WorkMail usage, in UNIX epoch time format.

Type: Timestamp

#### DisplayName (p. 41)

The display name of the user.

Type: String

Length Constraints: Maximum length of 256.

#### Email (p. 41)

The email of the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 254.

Pattern: [a-zA-Z0-9.\_%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}

#### EnabledDate (p. 41)

The date and time at which the user was enabled for Amazon WorkMail usage, in UNIX epoch time format.

Type: Timestamp

#### Name (p. 41)

The name for the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\w\-. ]+(\@[a-zA-Z0-9.\-]+\.[a-zA-Z0-9]{2,})?

#### State (p. 41)

The state of a user: enabled (registered to Amazon WorkMail) or disabled (deregistered or never registered to WorkMail).

Type: String

Valid Values: ENABLED | DISABLED | DELETED

#### UserId (p. 41)

The identifier for the described user.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

#### UserRole (p. 41)

In certain cases, other entities are modeled as users. If interoperability is enabled, resources are imported into Amazon WorkMail as users. Because different WorkMail organizations rely on different directory types, administrators can distinguish between an unregistered user (account is disabled and has a user role) and the directory administrators. The values are USER, RESOURCE, and SYSTEM\_USER.

Type: String

Valid Values: USER | RESOURCE | SYSTEM\_USER

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# DisassociateDelegateFromResource

Removes a member from the resource's set of delegates.

## Request Syntax

```
{  
  "EntityId": "string",  
  "OrganizationId": "string",  
  "ResourceId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### EntityId (p. 44)

The identifier for the member (user, group) to be removed from the resource's delegates.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### OrganizationId (p. 44)

The identifier for the organization under which the resource exists.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

### ResourceId (p. 44)

The identifier of the resource from which delegates' set members are removed.

Type: String

Pattern: `^r-[0-9a-f]{32}$`

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# DisassociateMemberFromGroup

Removes a member from a group.

## Request Syntax

```
{  
  "GroupId": "string",  
  "MemberId": "string",  
  "OrganizationId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### GroupId (p. 46)

The identifier for the group from which members are removed.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### MemberId (p. 46)

The identifier for the member to be removed to the group.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### OrganizationId (p. 46)

The identifier for the organization under which the group exists.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **DirectoryServiceAuthenticationFailedException**

The directory service doesn't recognize the credentials supplied by WorkMail.

HTTP Status Code: 400

### **DirectoryUnavailableException**

The directory on which you are trying to perform operations isn't available.

HTTP Status Code: 400

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

### **UnsupportedOperationException**

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

## ListAliases

Creates a paginated call to list the aliases associated with a given entity.

### Request Syntax

```
{  
  "EntityId": "string",  
  "MaxResults": number,  
  "NextToken": "string",  
  "OrganizationId": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### **EntityId (p. 49)**

The identifier for the entity for which to list the aliases.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

#### **MaxResults (p. 49)**

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

#### **NextToken (p. 49)**

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

#### **OrganizationId (p. 49)**

The identifier for the organization under which the entity exists.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes



## Response Syntax

```
{  
  "Aliases": [ "string" ],  
  "NextToken": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### Aliases (p. 50)

The entity's paginated aliases.

Type: Array of strings

Length Constraints: Minimum length of 1. Maximum length of 254.

Pattern: [a-zA-Z0-9.\_%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}

### NextToken (p. 50)

The token to use to retrieve the next page of results. The value is "null" when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### EntityNotFoundException

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### EntityStateException

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

## ListGroupMembers

Returns an overview of the members of a group. Users and groups can be members of a group.

### Request Syntax

```
{  
  "GroupId": "string",  
  "MaxResults": number,  
  "NextToken": "string",  
  "OrganizationId": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### GroupId (p. 52)

The identifier for the group to which the members (users or groups) are associated.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

#### MaxResults (p. 52)

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

#### NextToken (p. 52)

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

#### OrganizationId (p. 52)

The identifier for the organization under which the group exists.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

## Response Syntax

```
{
  "Members": [
    {
      "DisabledDate": number,
      "EnabledDate": number,
      "Id": "string",
      "Name": "string",
      "State": "string",
      "Type": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### Members (p. 53)

The members associated to the group.

Type: Array of [Member \(p. 92\)](#) objects

### NextToken (p. 53)

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### EntityNotFoundException

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### EntityStateException

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

## ListGroups

Returns summaries of the organization's groups.

### Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string",  
  "OrganizationId": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### MaxResults (p. 55)

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

#### NextToken (p. 55)

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

#### OrganizationId (p. 55)

The identifier for the organization under which the groups exist.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

### Response Syntax

```
{  
  "Groups": [  
    {  
      "DisabledDate": number,  
      "Email": "string",  
      "EnabledDate": number,  
      "Id": "string",
```

```
    "Name": "string",  
    "State": "string"  
  }  
],  
"NextToken": "string"  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### Groups (p. 55)

The overview of groups for an organization.

Type: Array of [Group \(p. 90\)](#) objects

### NextToken (p. 55)

The token to use to retrieve the next page of results. The value is "null" when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### EntityNotFoundException

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)



# ListMailboxPermissions

Lists the mailbox permissions associated with a user, group, or resource mailbox.

## Request Syntax

```
{  
  "EntityId": "string",  
  "MaxResults": number,  
  "NextToken": "string",  
  "OrganizationId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### EntityId (p. 58)

The identifier of the user, group, or resource for which to list mailbox permissions.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### MaxResults (p. 58)

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

### NextToken (p. 58)

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

### OrganizationId (p. 58)

The identifier of the organization under which the user, group, or resource exists.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

## Response Syntax

```
{
  "NextToken": "string",
  "Permissions": [
    {
      "GranteeId": "string",
      "GranteeType": "string",
      "PermissionValues": [ "string" ]
    }
  ]
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### NextToken (p. 59)

The token to use to retrieve the next page of results. The value is "null" when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

### Permissions (p. 59)

One page of the user, group, or resource mailbox permissions.

Type: Array of [Permission \(p. 96\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### EntityNotFoundException

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

## ListOrganizations

Returns summaries of the customer's non-deleted organizations.

### Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters](#) (p. 101).

The request accepts the following data in JSON format.

#### MaxResults (p. 61)

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

#### NextToken (p. 61)

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

### Response Syntax

```
{  
  "NextToken": "string",  
  "OrganizationSummaries": [  
    {  
      "Alias": "string",  
      "ErrorMessage": "string",  
      "OrganizationId": "string",  
      "State": "string"  
    }  
  ]  
}
```

### Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

#### **NextToken (p. 61)**

The token to use to retrieve the next page of results. The value is "null" when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

#### **OrganizationSummaries (p. 61)**

The overview of owned organizations presented as a list of organization summaries.

Type: Array of [OrganizationSummary \(p. 94\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

#### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

## ListResourceDelegates

Lists the delegates associated with a resource. Users and groups can be resource delegates and answer requests on behalf of the resource.

### Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string",  
  "OrganizationId": "string",  
  "ResourceId": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### MaxResults (p. 63)

The number of maximum results in a page.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

#### NextToken (p. 63)

The token used to paginate through the delegates associated with a resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

#### OrganizationId (p. 63)

The identifier for the organization that contains the resource for which delegates are listed.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

#### ResourceId (p. 63)

The identifier for the resource whose delegates are listed.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

## Response Syntax

```
{
  "Delegates": [
    {
      "Id": "string",
      "Type": "string"
    }
  ],
  "NextToken": "string"
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### Delegates (p. 64)

One page of the resource's delegates.

Type: Array of [Delegate \(p. 89\)](#) objects

### NextToken (p. 64)

The token used to paginate through the delegates associated with a resource. While results are still available, it has an associated value. When the last page is reached, the token is empty.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### EntityNotFoundException

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### EntityStateException

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)



## ListResources

Returns summaries of the organization's resources.

### Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string",  
  "OrganizationId": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### MaxResults (p. 66)

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

#### NextToken (p. 66)

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

#### OrganizationId (p. 66)

The identifier for the organization under which the resources exist.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

### Response Syntax

```
{  
  "NextToken": "string",  
  "Resources": [  
    {  
      "DisabledDate": number,  
      "Email": "string",  
    }  
  ]  
}
```

```
    "EnabledDate": number,  
    "Id": "string",  
    "Name": "string",  
    "State": "string",  
    "Type": "string"  
  }  
]  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### NextToken (p. 66)

The token used to paginate through all the organization's resources. While results are still available, it has an associated value. When the last page is reached, the token is empty.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

### Resources (p. 66)

One page of the organization's resource representation.

Type: Array of [Resource \(p. 97\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

## ListUsers

Returns summaries of the organization's users.

### Request Syntax

```
{  
  "MaxResults": number,  
  "NextToken": "string",  
  "OrganizationId": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### MaxResults (p. 69)

The maximum number of results to return in a single call.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 100.

Required: No

#### NextToken (p. 69)

The token to use to retrieve the next page of results. The first call does not contain any tokens.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

Required: No

#### OrganizationId (p. 69)

The identifier for the organization under which the users exist.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

### Response Syntax

```
{  
  "NextToken": "string",  
  "Users": [  
    {  
      "DisabledDate": number,  
      "DisplayName": "string",
```

```
    "Email": "string",  
    "EnabledDate": number,  
    "Id": "string",  
    "Name": "string",  
    "State": "string",  
    "UserRole": "string"  
  }  
]  
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 200 response.

The following data is returned in JSON format by the service.

### NextToken (p. 69)

The token to use to retrieve the next page of results. This value is `null` when there are no more results to return.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1024.

### Users (p. 69)

The overview of users for an organization.

Type: Array of [User \(p. 99\)](#) objects

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### InvalidParameterException

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### OrganizationNotFoundException

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### OrganizationStateException

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# PutMailboxPermissions

Sets permissions for a user, group, or resource. This replaces any pre-existing permissions.

## Request Syntax

```
{  
  "EntityId": "string",  
  "GranteeId": "string",  
  "OrganizationId": "string",  
  "PermissionValues": [ "string" ]  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### EntityId (p. 72)

The identifier of the user, group, or resource for which to update mailbox permissions.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### GranteeId (p. 72)

The identifier of the user, group, or resource to which to grant the permissions.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### OrganizationId (p. 72)

The identifier of the organization under which the user, group, or resource exists.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

### PermissionValues (p. 72)

The permissions granted to the grantee. SEND\_AS allows the grantee to send email as the owner of the mailbox (the grantee is not mentioned on these emails). SEND\_ON\_BEHALF allows the grantee to send email on behalf of the owner of the mailbox (the grantee is not mentioned as the physical sender of these emails). FULL\_ACCESS allows the grantee full access to the mailbox, irrespective of other folder-level permissions set on the mailbox.

Type: Array of strings

Valid Values: `FULL_ACCESS` | `SEND_AS` | `SEND_ON_BEHALF`

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)



- [AWS SDK for Ruby V2](#)

## RegisterToWorkMail

Registers an existing and disabled user, group, or resource for Amazon WorkMail use by associating a mailbox and calendaring capabilities. It performs no change if the user, group, or resource is enabled and fails if the user, group, or resource is deleted. This operation results in the accumulation of costs. For more information, see [Pricing](#). The equivalent console functionality for this operation is *Enable*.

Users can either be created by calling the [CreateUser \(p. 17\)](#) API operation or they can be synchronized from your directory. For more information, see [DeregisterFromWorkMail \(p. 30\)](#).

### Request Syntax

```
{  
  "Email": "string",  
  "EntityId": "string",  
  "OrganizationId": "string"  
}
```

### Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

#### Email (p. 75)

The email for the user, group, or resource to be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 254.

Pattern: [a-zA-Z0-9.\_%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}

Required: Yes

#### EntityId (p. 75)

The identifier for the user, group, or resource to be updated.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

#### OrganizationId (p. 75)

The identifier for the organization under which the user, group, or resource exists.

Type: String

Pattern: ^m-[0-9a-f]{32}\$

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **DirectoryServiceAuthenticationFailedException**

The directory service doesn't recognize the credentials supplied by WorkMail.

HTTP Status Code: 400

### **DirectoryUnavailableException**

The directory on which you are trying to perform operations isn't available.

HTTP Status Code: 400

### **EmailAddressInUseException**

The email address that you're trying to assign is already created for a different user, group, or resource.

HTTP Status Code: 400

### **EntityAlreadyRegisteredException**

The user, group, or resource that you're trying to register is already registered.

HTTP Status Code: 400

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **MailDomainNotFoundException**

For an email or alias to be created in Amazon WorkMail, the included domain must be defined in the organization.

HTTP Status Code: 400

### **MailDomainStateException**

After a domain has been added to the organization, it must be verified. The domain is not yet verified.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# ResetPassword

Allows the administrator to reset the password for a user.

## Request Syntax

```
{  
  "OrganizationId": "string",  
  "Password": "string",  
  "UserId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### OrganizationId (p. 78)

The identifier of the organization that contains the user for which the password is reset.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

### Password (p. 78)

The new password for the user.

Type: String

Length Constraints: Maximum length of 256.

Pattern: `[\u0020-\u00FF]+`

Required: Yes

### UserId (p. 78)

The identifier of the user for whom the password is reset.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **DirectoryServiceAuthenticationFailedException**

The directory service doesn't recognize the credentials supplied by WorkMail.

HTTP Status Code: 400

### **DirectoryUnavailableException**

The directory on which you are trying to perform operations isn't available.

HTTP Status Code: 400

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **InvalidPasswordException**

The supplied password doesn't match the minimum security constraints, such as length or use of special characters.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

### **UnsupportedOperationException**

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)

- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# UpdatePrimaryEmailAddress

Updates the primary email for a user, group, or resource. The current email is moved into the list of aliases (or swapped between an existing alias and the current primary email), and the email provided in the input is promoted as the primary.

## Request Syntax

```
{  
  "Email": "string",  
  "EntityId": "string",  
  "OrganizationId": "string"  
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### Email (p. 81)

The value of the email to be updated as primary.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 254.

Pattern: [a-zA-Z0-9.\_%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}

Required: Yes

### EntityId (p. 81)

The user, group, or resource to update.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### OrganizationId (p. 81)

The organization that contains the user, group, or resource to update.

Type: String

Pattern: ^m-[0-9a-f]{32}\$

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.



## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **DirectoryServiceAuthenticationFailedException**

The directory service doesn't recognize the credentials supplied by WorkMail.

HTTP Status Code: 400

### **DirectoryUnavailableException**

The directory on which you are trying to perform operations isn't available.

HTTP Status Code: 400

### **EmailAddressInUseException**

The email address that you're trying to assign is already created for a different user, group, or resource.

HTTP Status Code: 400

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **InvalidParameterException**

One or more of the input parameters don't match the service's restrictions.

HTTP Status Code: 400

### **MailDomainNotFoundException**

For an email or alias to be created in Amazon WorkMail, the included domain must be defined in the organization.

HTTP Status Code: 400

### **MailDomainStateException**

After a domain has been added to the organization, it must be verified. The domain is not yet verified.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

### **UnsupportedOperationException**

You can't perform a write operation against a read-only directory.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# UpdateResource

Updates data for the resource. To have the latest information, it must be preceded by a [DescribeResource \(p. 38\)](#) call. The dataset in the request should be the one expected when performing another [DescribeResource](#) call.

## Request Syntax

```
{
  "BookingOptions": {
    "AutoAcceptRequests": boolean,
    "AutoDeclineConflictingRequests": boolean,
    "AutoDeclineRecurringRequests": boolean
  },
  "Name": "string",
  "OrganizationId": "string",
  "ResourceId": "string"
}
```

## Request Parameters

For information about the parameters that are common to all actions, see [Common Parameters \(p. 101\)](#).

The request accepts the following data in JSON format.

### BookingOptions (p. 84)

The resource's booking options to be updated.

Type: [BookingOptions \(p. 88\)](#) object

Required: No

### Name (p. 84)

The name of the resource to be updated.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `[\w\-\.\ ]+(\@[a-zA-Z0-9.\-]+\.[a-zA-Z0-9]{2,})?`

Required: No

### OrganizationId (p. 84)

The identifier associated with the organization for which the resource is updated.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: Yes

### ResourceId (p. 84)

The identifier of the resource to be updated.

Type: String

Pattern: `^r-[0-9a-f]{32}$`

Required: Yes

## Response Elements

If the action is successful, the service sends back an HTTP 200 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see [Common Errors \(p. 103\)](#).

### **DirectoryUnavailableException**

The directory on which you are trying to perform operations isn't available.

HTTP Status Code: 400

### **EmailAddressInUseException**

The email address that you're trying to assign is already created for a different user, group, or resource.

HTTP Status Code: 400

### **EntityNotFoundException**

The identifier supplied for the user, group, or resource does not exist in your organization.

HTTP Status Code: 400

### **EntityStateException**

You are performing an operation on a user, group, or resource that isn't in the expected state, such as trying to delete an active user.

HTTP Status Code: 400

### **InvalidConfigurationException**

The configuration for a resource isn't valid. A resource must either be able to auto-respond to requests or have at least one delegate associated that can do so on its behalf.

HTTP Status Code: 400

### **MailDomainNotFoundException**

For an email or alias to be created in Amazon WorkMail, the included domain must be defined in the organization.

HTTP Status Code: 400

### **MailDomainStateException**

After a domain has been added to the organization, it must be verified. The domain is not yet verified.

HTTP Status Code: 400

### **NameAvailabilityException**

The user, group, or resource name isn't unique in Amazon WorkMail.

HTTP Status Code: 400

### **OrganizationNotFoundException**

An operation received a valid organization identifier that either doesn't belong or exist in the system.

HTTP Status Code: 400

### **OrganizationStateException**

The organization must have a valid state (Active or Synchronizing) to perform certain operations on the organization or its members.

HTTP Status Code: 400

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for JavaScript](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V2](#)

# Data Types

The Amazon WorkMail API contains several data types that various actions use. This section describes each data type in detail.

**Note**

The order of each element in a data type structure is not guaranteed. Applications should not assume a particular order.

The following data types are supported:

- [BookingOptions](#) (p. 88)
- [Delegate](#) (p. 89)
- [Group](#) (p. 90)
- [Member](#) (p. 92)
- [OrganizationSummary](#) (p. 94)
- [Permission](#) (p. 96)
- [Resource](#) (p. 97)
- [User](#) (p. 99)

# BookingOptions

At least one delegate must be associated to the resource to disable automatic replies from the resource.

## Contents

### **AutoAcceptRequests**

The resource's ability to automatically reply to requests. If disabled, delegates must be associated to the resource.

Type: Boolean

Required: No

### **AutoDeclineConflictingRequests**

The resource's ability to automatically decline any conflicting requests.

Type: Boolean

Required: No

### **AutoDeclineRecurringRequests**

The resource's ability to automatically decline any recurring requests.

Type: Boolean

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

## Delegate

The name of the attribute, which is one of the values defined in the `UserAttribute` enumeration.

### Contents

#### Id

The identifier for the user or group associated as the resource's delegate.

Type: String

Length Constraints: Maximum length of 256.

Required: Yes

#### Type

The type of the delegate: user or group.

Type: String

Valid Values: `GROUP` | `USER`

Required: Yes

### See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)



## Group

The representation of an Amazon WorkMail group.

### Contents

#### **DisabledDate**

The date indicating when the group was disabled from Amazon WorkMail use.

Type: Timestamp

Required: No

#### **Email**

The email of the group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 254.

Pattern: [a-zA-Z0-9.\_%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}

Required: No

#### **EnabledDate**

The date indicating when the group was enabled for Amazon WorkMail use.

Type: Timestamp

Required: No

#### **Id**

The identifier of the group.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: No

#### **Name**

The name of the group.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 256.

Pattern: [\u0020-\u00FF]+

Required: No

#### **State**

The state of the group, which can be ENABLED, DISABLED, or DELETED.

Type: String

Valid Values: `ENABLED` | `DISABLED` | `DELETED`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

# Member

The representation of a user or group.

## Contents

### **DisabledDate**

The date indicating when the member was disabled from Amazon WorkMail use.

Type: Timestamp

Required: No

### **EnabledDate**

The date indicating when the member was enabled for Amazon WorkMail use.

Type: Timestamp

Required: No

### **Id**

The identifier of the member.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### **Name**

The name of the member.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### **State**

The state of the member, which can be ENABLED, DISABLED, or DELETED.

Type: String

Valid Values: `ENABLED` | `DISABLED` | `DELETED`

Required: No

### **Type**

A member can be a user or group.

Type: String

Valid Values: `GROUP` | `USER`

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

# OrganizationSummary

The representation of an organization.

## Contents

### Alias

The alias associated with the organization.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 62.

Pattern: `^(?!d-)([\da-zA-Z]+)([-]*[\da-zA-Z])*`

Required: No

### ErrorMessage

The error message associated with the organization. It is only present if unexpected behavior has occurred with regards to the organization. It provides insight or solutions regarding unexpected behavior.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### OrganizationId

The identifier associated with the organization.

Type: String

Pattern: `^m-[0-9a-f]{32}$`

Required: No

### State

The state associated with the organization.

Type: String

Length Constraints: Maximum length of 256.

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)

- [AWS SDK for Ruby V2](#)

# Permission

Permission granted to a user, group, or resource to access a certain aspect of another user, group, or resource mailbox.

## Contents

### GranteeId

The identifier of the user, group, or resource to which the permissions are granted.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: Yes

### GranteeType

The type of user, group, or resource referred to in GranteeId.

Type: String

Valid Values: `GROUP` | `USER`

Required: Yes

### PermissionValues

The permissions granted to the grantee. `SEND_AS` allows the grantee to send email as the owner of the mailbox (the grantee is not mentioned on these emails). `SEND_ON_BEHALF` allows the grantee to send email on behalf of the owner of the mailbox (the grantee is not mentioned as the physical sender of these emails). `FULL_ACCESS` allows the grantee full access to the mailbox, irrespective of other folder-level permissions set on the mailbox.

Type: Array of strings

Valid Values: `FULL_ACCESS` | `SEND_AS` | `SEND_ON_BEHALF`

Required: Yes

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

## Resource

The representation of a resource.

### Contents

#### **DisabledDate**

The date indicating when the resource was disabled from Amazon WorkMail use.

Type: Timestamp

Required: No

#### **Email**

The email of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 254.

Pattern: `[a-zA-Z0-9._%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}`

Required: No

#### **EnabledDate**

The date indicating when the resource was enabled for Amazon WorkMail use.

Type: Timestamp

Required: No

#### **Id**

The identifier of the resource.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: No

#### **Name**

The name of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 20.

Pattern: `[\w\-.]+(@[a-zA-Z0-9\-.]+\.[a-zA-Z0-9]{2,})?`

Required: No

#### **State**

The state of the resource, which can be ENABLED, DISABLED, or DELETED.

Type: String

Valid Values: `ENABLED` | `DISABLED` | `DELETED`



Required: No

**Type**

The type of the resource: equipment or room.

Type: String

Valid Values: ROOM | EQUIPMENT

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

# User

The representation of an Amazon WorkMail user.

## Contents

### DisabledDate

The date indicating when the user was disabled from Amazon WorkMail use.

Type: Timestamp

Required: No

### DisplayName

The display name of the user.

Type: String

Length Constraints: Maximum length of 256.

Required: No

### Email

The email of the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 254.

Pattern: [a-zA-Z0-9.\_%+-]{1,64}@[a-zA-Z0-9.-]+\.[a-zA-Z]{2,}

Required: No

### EnabledDate

The date indicating when the user was enabled for Amazon WorkMail use.

Type: Timestamp

Required: No

### Id

The identifier of the user.

Type: String

Length Constraints: Minimum length of 12. Maximum length of 256.

Required: No

### Name

The name of the user.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 64.

Pattern: [\\w\\-\\.]+(@[a-zA-Z0-9\\.\\-]+\\.[a-zA-Z0-9]{2,})?

Required: No

**State**

The state of the user, which can be ENABLED, DISABLED, or DELETED.

Type: String

Valid Values: ENABLED | DISABLED | DELETED

Required: No

**UserRole**

The role of the user.

Type: String

Valid Values: USER | RESOURCE | SYSTEM\_USER

Required: No

## See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Go - Pilot](#)
- [AWS SDK for Java](#)
- [AWS SDK for Ruby V2](#)

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see [Signature Version 4 Signing Process](#) in the *Amazon Web Services General Reference*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

The API version that the request is written for, expressed in the format YYYY-MM-DD.

Type: string

Required: Yes

## X-Amz-Algorithm

The hash algorithm that you used to create the request signature.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

## X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4\_request"). The value is expressed in the following format: `access_key/YYYYMMDD/region/service/aws4_request`.

For more information, see [Task 2: Create a String to Sign for Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

## X-Amz-Date

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'THHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is

not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see [Handling Dates in Signature Version 4](#) in the *Amazon Web Services General Reference*.

Type: string

Required: Conditional

#### **X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS Security Token Service, go to [AWS Services That Work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, you must include the security token.

Type: string

Required: Conditional

#### **X-Amz-Signature**

Specifies the hex-encoded signature that was calculated from the string to sign and the derived signing key.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

#### **X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see [Task 1: Create a Canonical Request For Signature Version 4](#) in the *Amazon Web Services General Reference*.

Condition: Specify this parameter when you include authentication information in a query string instead of in the HTTP authorization header.

Type: string

Required: Conditional

# Common Errors

This section lists the errors common to the API actions of all AWS services. For errors specific to an API action for this service, see the topic for that API action.

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

## **InternalFailure**

The request processing has failed because of an unknown error, exception or failure.

HTTP Status Code: 500

## **InvalidAction**

The action or operation requested is invalid. Verify that the action is typed correctly.

HTTP Status Code: 400

## **InvalidClientTokenId**

The X.509 certificate or AWS access key ID provided does not exist in our records.

HTTP Status Code: 403

## **InvalidParameterCombination**

Parameters that must not be used together were used together.

HTTP Status Code: 400

## **InvalidParameterValue**

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

## **InvalidQueryParameter**

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

## **MalformedQueryString**

The query string contains a syntax error.

HTTP Status Code: 404

## **MissingAction**

The request is missing an action or a required parameter.

HTTP Status Code: 400

**MissingAuthenticationToken**

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

**MissingParameter**

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

**OptInRequired**

The AWS access key ID needs a subscription for the service.

HTTP Status Code: 403

**RequestExpired**

The request reached the service more than 15 minutes after the date stamp on the request or more than 15 minutes after the request expiration date (such as for pre-signed URLs), or the date stamp on the request is more than 15 minutes in the future.

HTTP Status Code: 400

**ServiceUnavailable**

The request has failed due to a temporary failure of the server.

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

The input fails to satisfy the constraints specified by an AWS service.

HTTP Status Code: 400