



API Reference

Identity Store



Identity Store: API Reference

Copyright © 2026 Amazon Web Services, Inc. and/or its affiliates. All rights reserved.

Amazon's trademarks and trade dress may not be used in connection with any product or service that is not Amazon's, in any manner that is likely to cause confusion among customers, or in any manner that disparages or discredits Amazon. All other trademarks not owned by Amazon are the property of their respective owners, who may or may not be affiliated with, connected to, or sponsored by Amazon.

Table of Contents

Welcome	1
Actions	2
CreateGroup	3
Request Syntax	3
Request Parameters	3
Response Syntax	4
Response Elements	4
Errors	5
Examples	8
See Also	8
CreateGroupMembership	10
Request Syntax	10
Request Parameters	10
Response Syntax	11
Response Elements	11
Errors	12
Examples	15
See Also	15
CreateUser	17
Request Syntax	17
Request Parameters	18
Response Syntax	23
Response Elements	24
Errors	24
Examples	27
See Also	29
DeleteGroup	31
Request Syntax	31
Request Parameters	31
Response Elements	32
Errors	32
Examples	34
See Also	35
DeleteGroupMembership	36

Request Syntax	36
Request Parameters	36
Response Elements	37
Errors	37
Examples	39
See Also	40
DeleteUser	41
Request Syntax	41
Request Parameters	41
Response Elements	42
Errors	42
Examples	44
See Also	45
DescribeGroup	46
Request Syntax	46
Request Parameters	46
Response Syntax	47
Response Elements	47
Errors	49
Examples	51
See Also	52
DescribeGroupMembership	53
Request Syntax	53
Request Parameters	53
Response Syntax	54
Response Elements	54
Errors	56
Examples	58
See Also	59
DescribeUser	60
Request Syntax	60
Request Parameters	60
Response Syntax	61
Response Elements	63
Errors	68
Examples	70

See Also	73
GetGroupId	75
Request Syntax	75
Request Parameters	75
Response Syntax	76
Response Elements	76
Errors	77
Examples	79
See Also	79
GetGroupMembershipId	81
Request Syntax	81
Request Parameters	81
Response Syntax	82
Response Elements	82
Errors	83
Examples	85
See Also	86
GetUserId	87
Request Syntax	87
Request Parameters	87
Response Syntax	88
Response Elements	88
Errors	89
Examples	91
See Also	92
IsMemberInGroups	93
Request Syntax	93
Request Parameters	93
Response Syntax	94
Response Elements	94
Errors	95
Examples	97
See Also	98
ListGroupMemberships	99
Request Syntax	99
Request Parameters	99

Response Syntax	100
Response Elements	101
Errors	101
Examples	104
See Also	105
ListGroupMembershipsForMember	106
Request Syntax	106
Request Parameters	106
Response Syntax	107
Response Elements	108
Errors	108
Examples	111
See Also	112
ListGroups	113
Request Syntax	113
Request Parameters	113
Response Syntax	115
Response Elements	115
Errors	116
Examples	118
See Also	119
ListUsers	120
Request Syntax	120
Request Parameters	120
Response Syntax	122
Response Elements	124
Errors	124
Examples	127
See Also	129
UpdateGroup	130
Request Syntax	130
Request Parameters	130
Response Elements	131
Errors	131
Examples	134
See Also	136

UpdateUser	137
Request Syntax	137
Request Parameters	137
Response Elements	138
Errors	138
Examples	141
See Also	144
Data Types	145
Address	146
Contents	146
See Also	148
AlternateIdentifier	149
Contents	149
See Also	149
AttributeOperation	150
Contents	150
See Also	150
Email	151
Contents	151
See Also	151
ExternalId	153
Contents	153
See Also	153
Filter	154
Contents	154
See Also	154
Group	156
Contents	156
See Also	158
GroupMembership	159
Contents	159
See Also	161
GroupMembershipExistenceResult	162
Contents	162
See Also	162
MemberId	164

Contents	164
See Also	164
Name	165
Contents	165
See Also	166
PhoneNumber	167
Contents	167
See Also	167
Photo	169
Contents	169
See Also	170
Role	171
Contents	171
See Also	171
UniqueAttribute	173
Contents	173
See Also	173
User	174
Contents	174
See Also	180
Common Parameters	181
Common Error Types	184
Document History	187

Welcome to the Identity Store API Reference

Note

IAM Identity Center uses the `sso`, `sso-directory`, and `identitystore` API namespaces. The `sso-directory` and `identitystore` namespaces authorize access to data in the Identity Store. Make sure your policies with IAM actions from these two namespaces are consistent to avoid conflicting authorization to the same data.

The identity store service used by AWS IAM Identity Center provides a single place to retrieve all of your identities (users and groups). You can use the identity store API operations in this guide to manage your identity data programmatically. The scope of these APIs allows you to create, read, update, delete, and list users, groups, and memberships.

This guide also describes identity store operations that you can call and includes detailed information about data types and errors.

If you use an external identity provider or Active Directory as your identity source, we recommend that you use the `Create`, `Update`, and `Delete` APIs with caution. Because IAM Identity Center doesn't support outbound synchronization, your identity source won't automatically update with the changes that you make to users or groups using these APIs.

AWS provides SDKs that consist of libraries and sample code for various programming languages and platforms (Java, Ruby, .Net, iOS, Android, and more). The SDKs provide a convenient way to programmatically access Directory Service and other AWS services. For more information about the AWS SDKs, including how to download and install them, see [Tools for Amazon Web Services](#).

Actions

The following actions are supported:

- [CreateGroup](#)
- [CreateGroupMembership](#)
- [CreateUser](#)
- [DeleteGroup](#)
- [DeleteGroupMembership](#)
- [DeleteUser](#)
- [DescribeGroup](#)
- [DescribeGroupMembership](#)
- [DescribeUser](#)
- [GetGroupId](#)
- [GetGroupMembershipId](#)
- [GetUserId](#)
- [IsMemberInGroups](#)
- [ListGroupMemberships](#)
- [ListGroupMembershipsForMember](#)
- [ListGroups](#)
- [ListUsers](#)
- [UpdateGroup](#)
- [UpdateUser](#)

CreateGroup

Creates a group within the specified identity store.

Request Syntax

```
{
  "Description": "string",
  "DisplayName": "string",
  "IdentityStoreId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Description

A string containing the description of the group.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

DisplayName

A string containing the name of the group. This value is commonly displayed when the group is referenced. Administrator and AWSAdministrators are reserved names and can't be used for users or groups.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Syntax

```
{
  "GroupId": "string",
  "IdentityStoreId": "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

The identifier of the newly created group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ConflictException

This request cannot be completed for one of the following reasons:

- Performing the requested operation would violate an existing uniqueness claim in the identity store. Resolve the conflict before retrying this request.
- The requested resource was being concurrently modified by another request.

Reason

Indicates the reason for a conflict error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ServiceQuotaExceededException

The request would cause the number of users or groups in the identity store to exceed the maximum allowed.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example creates a new group called Developers in the specified identity store.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "DisplayName": "Developers",
  "Description": "Group that contains all developers"
}
```

Sample Response

```
{
  "GroupId": "1a2b3c4d-5e6f-7g8h-9i0j-1k2l3m4n5o6p",
  "IdentityStoreId": "d-1234567890"
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

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

CreateGroupMembership

Creates a relationship between a member and a group. The following identifiers must be specified: `GroupId`, `IdentityStoreId`, and `MemberId`.

Request Syntax

```
{
  "GroupId": "string",
  "IdentityStoreId": "string",
  "MemberId": { ... }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

GroupId

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Required: Yes

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

MemberId

An object that contains the identifier of a group member. Setting the `UserID` field to the specific identifier for a user indicates that the user is a member of the group.

Type: MemberId object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
{
  "IdentityStoreId": "string",
  "MembershipId": "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.

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `d-[0-9a-f]{10}$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

MembershipId

The identifier for a newly created `GroupMembership` in an identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ConflictException

This request cannot be completed for one of the following reasons:

- Performing the requested operation would violate an existing uniqueness claim in the identity store. Resolve the conflict before retrying this request.
- The requested resource was being concurrently modified by another request.

Reason

Indicates the reason for a conflict error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ServiceQuotaExceededException

The request would cause the number of users or groups in the identity store to exceed the maximum allowed.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example adds the specified user as a member of the specified group.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
  "MemberId": {
    "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111"
  }
}
```

Sample Response

```
{
  "MembershipId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE33333",
  "IdentityStoreId": "d-1234567890"
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)

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

CreateUser

Creates a user within the specified identity store.

Request Syntax

```
{
  "Addresses": [
    {
      "Country": "string",
      "Formatted": "string",
      "Locality": "string",
      "PostalCode": "string",
      "Primary": boolean,
      "Region": "string",
      "StreetAddress": "string",
      "Type": "string"
    }
  ],
  "Birthdate": "string",
  "DisplayName": "string",
  "Emails": [
    {
      "Primary": boolean,
      "Type": "string",
      "Value": "string"
    }
  ],
  "Extensions": {
    "string" : JSON value
  },
  "IdentityStoreId": "string",
  "Locale": "string",
  "Name": {
    "FamilyName": "string",
    "Formatted": "string",
    "GivenName": "string",
    "HonorificPrefix": "string",
    "HonorificSuffix": "string",
    "MiddleName": "string"
  },
  "NickName": "string",
  "PhoneNumbers": [
```

```
{
  "Primary": boolean,
  "Type": "string",
  "Value": "string"
},
"Photos": [
  {
    "Display": "string",
    "Primary": boolean,
    "Type": "string",
    "Value": "string"
  }
],
"PreferredLanguage": "string",
"ProfileUrl": "string",
"Roles": [
  {
    "Primary": boolean,
    "Type": "string",
    "Value": "string"
  }
],
"Timezone": "string",
"Title": "string",
"UserName": "string",
"UserType": "string",
"Website": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[Addresses](#)

A list of Address objects containing addresses associated with the user.

Type: Array of [Address](#) objects

Array Members: Fixed number of 1 item.

Required: No

Birthdate

The user's birthdate in YYYY-MM-DD format. This field supports standard date format for storing personal information.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

DisplayName

A string containing the name of the user. This value is typically formatted for display when the user is referenced. For example, "John Doe." When used in IAM Identity Center, this parameter is required.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Emails

A list of `Email` objects containing email addresses associated with the user.

Type: Array of [Email](#) objects

Array Members: Fixed number of 1 item.

Required: No

Extensions

A map with additional attribute extensions for the user. Each map key corresponds to an extension name, while map values represent extension data in Document type (not supported by Java V1, Go V1 and older versions of the AWS CLI). `aws:identitystore:enterprise` is the only supported extension name.

Type: String to JSON value map

Map Entries: Maximum number of 10 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Key Pattern: `aws:identitystore:[a-z]{1,20}`

Required: No

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `d-[0-9a-f]{10}$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

Locale

A string containing the geographical region or location of the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Name

An object containing the name of the user. When used in IAM Identity Center, this parameter is required.

Type: [Name](#) object

Required: No

NickName

A string containing an alternate name for the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

PhoneNumbers

A list of `PhoneNumber` objects containing phone numbers associated with the user.

Type: Array of [PhoneNumber](#) objects

Array Members: Fixed number of 1 item.

Required: No

Photos

A list of photos associated with the user. You can add up to 3 photos per user. Each photo can include a value, type, display name, and primary designation.

Type: Array of [Photo](#) objects

Array Members: Minimum number of 1 item. Maximum number of 3 items.

Required: No

PreferredLanguage

A string containing the preferred language of the user. For example, "American English" or "en-us."

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

ProfileUrl

A string containing a URL that might be associated with the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Roles

A list of Role objects containing roles associated with the user.

Type: Array of [Role](#) objects

Array Members: Fixed number of 1 item.

Required: No

Timezone

A string containing the time zone of the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Title

A string containing the title of the user. Possible values are left unspecified. The value can vary based on your specific use case.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

UserName

A unique string used to identify the user. The length limit is 128 characters. This value can consist of letters, accented characters, symbols, numbers, and punctuation. This value is

specified at the time the user is created and stored as an attribute of the user object in the identity store. `Administrator` and `AWSAdministrators` are reserved names and can't be used for users or groups.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}]+`

Required: No

UserType

A string indicating the type of user. Possible values are left unspecified. The value can vary based on your specific use case.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Website

The user's personal website or blog URL. This field allows users to provide a link to their personal or professional website.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Response Syntax

```
{
  "IdentityStoreId": "string",
  "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.

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^([0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12})

UserId

The identifier of the newly created user in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ConflictException

This request cannot be completed for one of the following reasons:

- Performing the requested operation would violate an existing uniqueness claim in the identity store. Resolve the conflict before retrying this request.
- The requested resource was being concurrently modified by another request.

Reason

Indicates the reason for a conflict error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ServiceQuotaExceededException

The request would cause the number of users or groups in the identity store to exceed the maximum allowed.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example creates a new user in the specified identity store.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "UserName": "johndoe",
  "Name": {
    "Formatted": "John Steve Doe",
    "FamilyName": "Doe",
    "GivenName": "John",
    "MiddleName": "Steve",
    "HonorificPrefix": "Mr",
    "HonorificSuffix": "Jr"
  },
  "DisplayName": "John Doe",
  "NickName": "Johny",
  "ProfileUrl": "www.amazondomains.com",
  "Emails": [
    {
      "Value": "johndoe@example.com",
      "Type": "work",
      "Primary": true
    }
  ],
  "Addresses": [
    {
      "StreetAddress": "100 Universal City Plaza",
      "Locality": "Any Town",
      "Region": "WA",
      "PostalCode": "12345",
      "Country": "USA",
      "Formatted": "100 Universal City Plaza Any Town USA",
      "Type": "home",
      "Primary": true
    }
  ],
  "PhoneNumbers": [
    {
      "Value": "832-555-0100",
      "Type": "work",
      "Primary": true
    }
  ],
  "UserType": "temp",
  "Title": "Contractor",
}
```

```
"PreferredLanguage": "en-us",
"Locale": "NA",
"Timezone": "pdt",
"Extensions": {
  "aws:identitystore:enterprise": {
    "employeeNumber": "701984",
    "costCenter": "4130",
    "organization": "Universal Studios",
    "division": "Theme Park",
    "department": "Tour Operations",
    "manager": {
      "value": "a1b2c3d4-5678-90ab-cdef-EXAMPLE44444"
    }
  }
}
```

Sample Response

```
{
  "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111",
  "IdentityStoreId": "d-1234567890"
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)

- [AWS SDK for Ruby V3](#)

DeleteGroup

Delete a group within an identity store given GroupId.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

GroupId

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Required: Yes

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^([0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12})

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 Error Types](#).

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ConflictException

This request cannot be completed for one of the following reasons:

- Performing the requested operation would violate an existing uniqueness claim in the identity store. Resolve the conflict before retrying this request.
- The requested resource was being concurrently modified by another request.

Reason

Indicates the reason for a conflict error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example removes the group from the specified identity store.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222"
}
```

Sample Response

No response

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteGroupMembership

Delete a membership within a group given MembershipId.

Request Syntax

```
{  
  "IdentityStoreId": "string",  
  "MembershipId": "string"  
}
```

Request Parameters

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

The request accepts the following data in JSON format.

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^([0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12})

Required: Yes

MembershipId

The identifier for a GroupMembership in an identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

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 Error Types](#).

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ConflictException

This request cannot be completed for one of the following reasons:

- Performing the requested operation would violate an existing uniqueness claim in the identity store. Resolve the conflict before retrying this request.
- The requested resource was being concurrently modified by another request.

Reason

Indicates the reason for a conflict error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example removes the specified user from the group.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "MembershipId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222"
}
```

Sample Response

No response

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DeleteUser

Deletes a user within an identity store given `UserId`.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^([0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12})

Required: Yes

UserId

The identifier for a user in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

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 Error Types](#).

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ConflictException

This request cannot be completed for one of the following reasons:

- Performing the requested operation would violate an existing uniqueness claim in the identity store. Resolve the conflict before retrying this request.
- The requested resource was being concurrently modified by another request.

Reason

Indicates the reason for a conflict error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerErrorException

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example removes the specified user from the identity store.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111"
}
```

Sample Response

No response

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeGroup

Retrieves the group metadata and attributes from GroupId in an identity store.

Note

If you have access to a member account, you can use this API operation from the member account. For more information, see [Limiting access to the identity store from member accounts](#) in the *AWS IAM Identity Center User Guide*.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

GroupId

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Required: Yes

IdentityStoreId

The globally unique identifier for the identity store, such as d-1234567890. In this example, d- is a fixed prefix, and 1234567890 is a randomly generated string that contains numbers and lower case letters. This value is generated at the time that a new identity store is created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^([0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12})

Required: Yes

Response Syntax

```
{
  "CreatedAt": number,
  "CreatedBy": "string",
  "Description": "string",
  "DisplayName": "string",
  "ExternalIds": [
    {
      "Id": "string",
      "Issuer": "string"
    }
  ],
  "GroupId": "string",
  "IdentityStoreId": "string",
  "UpdatedAt": number,
  "UpdatedBy": "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.

CreatedAt

The date and time the group was created.

Type: Timestamp

CreatedBy

The identifier of the user or system that created the group.

Type: String

Description

A string containing a description of the group.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

DisplayName

The group's display name value. The length limit is 1,024 characters. This value can consist of letters, accented characters, symbols, numbers, punctuation, tab, new line, carriage return, space, and nonbreaking space in this attribute. This value is specified at the time that the group is created and stored as an attribute of the group object in the identity store.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

ExternalIds

A list of `ExternalId` objects that contains the identifiers issued to this resource by an external identity provider.

Type: Array of [ExternalId](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

GroupId

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: `([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}`

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

UpdatedAt

The date and time the group was last updated.

Type: Timestamp

UpdatedBy

The identifier of the user or system that last updated the group.

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example retrieves the group name and description for a group called Developers.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222"
}
```

Sample Response

```
{
  "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
  "DisplayName": "Developers",
  "Description": "Group that contains all developers",
  "IdentityStoreId": "d-1234567890"
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeGroupMembership

Retrieves membership metadata and attributes from MembershipId in an identity store.

Note

If you have access to a member account, you can use this API operation from the member account. For more information, see [Limiting access to the identity store from member accounts](#) in the *AWS IAM Identity Center User Guide*.

Request Syntax

```
{
  "IdentityStoreId": "string",
  "MembershipId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

MembershipId

The identifier for a GroupMembership in an identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Required: Yes

Response Syntax

```
{
  "CreatedAt": number,
  "CreatedBy": "string",
  "GroupId": "string",
  "IdentityStoreId": "string",
  "MemberId": { ... },
  "MembershipId": "string",
  "UpdatedAt": number,
  "UpdatedBy": "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.

CreatedAt

The date and time the group membership was created.

Type: Timestamp

CreatedBy

The identifier of the user or system that created the group membership.

Type: String

GroupId

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

MemberId

An object containing the identifier of a group member.

Type: [MemberId](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

MembershipId

The identifier for a GroupMembership in an identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

UpdatedAt

The date and time the group membership was last updated.

Type: Timestamp

UpdatedBy

The identifier of the user or system that last updated the group membership.

Type: String

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example retrieves the member ID for the user and group ID for the group for the specified membership.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "MembershipId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222"
}
```

Sample Response

```
{
  "IdentityStoreId": "d-1234567890",
  "MembershipId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE33333",
  "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
  "MemberId": {
    "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111"
  }
}
```

```
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

DescribeUser

Retrieves the user metadata and attributes from the `UserId` in an identity store.

Note

If you have access to a member account, you can use this API operation from the member account. For more information, see [Limiting access to the identity store from member accounts](#) in the *AWS IAM Identity Center User Guide*.

Request Syntax

```
{
  "Extensions": [ "string" ],
  "IdentityStoreId": "string",
  "UserId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Extensions

A collection of extension names indicating what extensions the service should retrieve alongside other user attributes. `aws:identitystore:enterprise` is the only supported extension name.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `aws:identitystore:[a-z]{1,20}`

Required: No

IdentityStoreId

The globally unique identifier for the identity store, such as d-1234567890. In this example, d- is a fixed prefix, and 1234567890 is a randomly generated string that contains numbers and lower case letters. This value is generated at the time that a new identity store is created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

UserId

The identifier for a user in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Required: Yes

Response Syntax

```
{
  "Addresses": [
    {
      "Country": "string",
      "Formatted": "string",
      "Locality": "string",
      "PostalCode": "string",
      "Primary": boolean,
      "Region": "string",
      "StreetAddress": "string",
      "Type": "string"
    }
  ],
  "Birthdate": "string",
```

```
"CreatedAt": number,
"CreatedBy": "string",
"DisplayName": "string",
"Emails": [
  {
    "Primary": boolean,
    "Type": "string",
    "Value": "string"
  }
],
"Extensions": {
  "string" : JSON value
},
"ExternalIds": [
  {
    "Id": "string",
    "Issuer": "string"
  }
],
"IdentityStoreId": "string",
"Locale": "string",
"Name": {
  "FamilyName": "string",
  "Formatted": "string",
  "GivenName": "string",
  "HonorificPrefix": "string",
  "HonorificSuffix": "string",
  "MiddleName": "string"
},
"NickName": "string",
"PhoneNumbers": [
  {
    "Primary": boolean,
    "Type": "string",
    "Value": "string"
  }
],
"Photos": [
  {
    "Display": "string",
    "Primary": boolean,
    "Type": "string",
    "Value": "string"
  }
]
```

```
],
  "PreferredLanguage": "string",
  "ProfileUrl": "string",
  "Roles": [
    {
      "Primary": boolean,
      "Type": "string",
      "Value": "string"
    }
  ],
  "Timezone": "string",
  "Title": "string",
  "UpdatedAt": number,
  "UpdatedBy": "string",
  "UserId": "string",
  "UserName": "string",
  "UserStatus": "string",
  "UserType": "string",
  "Website": "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.

Addresses

The physical address of the user.

Type: Array of [Address](#) objects

Array Members: Fixed number of 1 item.

Birthdate

The user's birthdate in YYYY-MM-DD format. This field returns the stored birthdate information for the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

CreatedAt

The date and time the user was created.

Type: Timestamp

CreatedBy

The identifier of the user or system that created the user.

Type: String

DisplayName

The display name of the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Emails

The email address of the user.

Type: Array of [Email](#) objects

Array Members: Fixed number of 1 item.

Extensions

A map of explicitly requested attribute extensions associated with the user. Not populated if the user has no requested extensions.

Type: String to JSON value map

Map Entries: Maximum number of 10 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Key Pattern: `aws:identitystore:[a-z]{1,20}`

ExternalIds

A list of `ExternalId` objects that contains the identifiers issued to this resource by an external identity provider.

Type: Array of [ExternalId](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

[IdentityStoreId](#)

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

[Locale](#)

A string containing the geographical region or location of the user.

Type: String

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

Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+

[Name](#)

The name of the user.

Type: [Name](#) object

[NickName](#)

An alternative descriptive name for the user.

Type: String

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

Pattern: [\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+

[PhoneNumbers](#)

A list of [PhoneNumber](#) objects associated with a user.

Type: Array of [PhoneNumber](#) objects

Array Members: Fixed number of 1 item.

Photos

A list of photos associated with the user. Returns up to 3 photos with their associated metadata including type, display name, and primary designation.

Type: Array of [Photo](#) objects

Array Members: Minimum number of 1 item. Maximum number of 3 items.

PreferredLanguage

The preferred language of the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

ProfileUrl

A URL link for the user's profile.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Roles

The roles of the user.

Type: Array of [Role](#) objects

Array Members: Fixed number of 1 item.

Timezone

The time zone for a user.

Type: String

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

Pattern: `[\\p{L}\\p{M}\\p{S}\\p{N}\\p{P}\\t\\n\\r]+`

Title

A string containing the title of the user.

Type: String

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

Pattern: `[\\p{L}\\p{M}\\p{S}\\p{N}\\p{P}\\t\\n\\r]+`

UpdatedAt

The date and time the user was last updated.

Type: Timestamp

UpdatedBy

The identifier of the user or system that last updated the user.

Type: String

UserId

The identifier for a user in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: `([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}`

UserName

A unique string used to identify the user. The length limit is 128 characters. This value can consist of letters, accented characters, symbols, numbers, and punctuation. This value is specified at the time the user is created and stored as an attribute of the user object in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\\p{L}\\p{M}\\p{S}\\p{N}\\p{P}]+`

UserStatus

The current status of the user account.

Type: String

Valid Values: ENABLED | DISABLED

UserType

A string indicating the type of user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Website

The user's personal website or blog URL. Returns the stored website information for the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example 1

This example retrieves only the core information about a user called John Doe.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "UserId": "1a2b3c4d-5e6f-7g8h-9i0j-1k2l3m4n5o6p"
}
```

Sample Response

```
{
  "UserName": "johndoe",
  "UserId": "1a2b3c4d-5e6f-7g8h-9i0j-1k2l3m4n5o6p",
  "Name": {
    "Formatted": "John Doe",
    "FamilyName": "Doe",
    "GivenName": "John",
  },
  "DisplayName": "John Doe",
  "Emails": [
    {
      "Value": "johndoe@example.com",
      "Type": "work",
      "Primary": true
    }
  ],
  "Addresses": [
    {
      "StreetAddress": "123 Main St",
      "Locality": "Any Town",
      "Region": "ST",
      "PostalCode": "12345",
      "Country": "USA",
      "Formatted": "123 Main St, Anytown, ST 12345, USA",
      "Type": "home"
    }
  ],
  "PhoneNumbers": [
    {
      "Value": "+1 (832) 555-0100",
      "Type": "work",
      "Primary": true
    }
  ],
}
```

```
"IdentityStoreId": "d-1234567890"  
}
```

Example 2

This example retrieves both core and enterprise information about a user called John Doe.

Sample Request

```
{  
  "IdentityStoreId": "d-1234567890",  
  "UserId": "1a2b3c4d-5e6f-7g8h-9i0j-1k2l3m4n5o6p",  
  "Extensions": ["aws:identitystore:enterprise"]  
}
```

Sample Response

```
{  
  "UserName": "johndoe",  
  "UserId": "1a2b3c4d-5e6f-7g8h-9i0j-1k2l3m4n5o6p",  
  "Name": {  
    "Formatted": "John Doe",  
    "FamilyName": "Doe",  
    "GivenName": "John",  
  },  
  "DisplayName": "John Doe",  
  "Emails": [  
    {  
      "Value": "johndoe@example.com",  
      "Type": "work",  
      "Primary": true  
    }  
  ],  
  "Addresses": [  
    {  
      "StreetAddress": "123 Main St",  
      "Locality": "Any Town",  
      "Region": "ST",  
      "PostalCode": "12345",  
      "Country": "USA",  
      "Formatted": "123 Main St, Anytown, ST 12345, USA",  
      "Type": "home"  
    }  
  ]  
}
```

```
    }
  ],
  "PhoneNumbers": [
    {
      "Value": "+1 (832) 555-0100",
      "Type": "work",
      "Primary": true
    }
  ],
  "IdentityStoreId": "d-1234567890",
  "Extensions": {
    "aws:identitystore:enterprise": {
      "employeeNumber": "701984",
      "costCenter": "4130",
      "organization": "Universal Studios",
      "division": "Theme Park",
      "department": "Tour Operations",
      "manager": {
        "value": "a1b2c3d4-5678-90ab-cdef-EXAMPLE44444"
      }
    }
  }
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetGroupId

Retrieves GroupId in an identity store.

Note

If you have access to a member account, you can use this API operation from the member account. For more information, see [Limiting access to the identity store from member accounts](#) in the *AWS IAM Identity Center User Guide*.

Request Syntax

```
{
  "AlternateIdentifier": { ... },
  "IdentityStoreId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

[AlternateIdentifier](#)

A unique identifier for a user or group that is not the primary identifier. This value can be an identifier from an external identity provider (IdP) that is associated with the user, the group, or a unique attribute. For the unique attribute, the only valid path is `displayName`.

Type: [AlternateIdentifier](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

[IdentityStoreId](#)

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Syntax

```
{
  "GroupId": "string",
  "IdentityStoreId": "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

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example retrieves the group ID for the Developers group using the display name.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "AlternateIdentifier": {
    "UniqueAttribute": {
      "AttributePath": "displayName",
      "AttributeValue": "Developers"
    }
  }
}
```

Sample Response

```
{
  "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
  "IdentityStoreId": "d-1234567890"
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetGroupMembershipId

Retrieves the MembershipId in an identity store.

Note

If you have access to a member account, you can use this API operation from the member account. For more information, see [Limiting access to the identity store from member accounts](#) in the *AWS IAM Identity Center User Guide*.

Request Syntax

```
{
  "GroupId": "string",
  "IdentityStoreId": "string",
  "MemberId": { ... }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

GroupId

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Required: Yes

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^-[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

MemberId

An object that contains the identifier of a group member. Setting the `UserID` field to the specific identifier for a user indicates that the user is a member of the group.

Type: [MemberId](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
{
  "IdentityStoreId": "string",
  "MembershipId": "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.

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^-[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

MembershipId

The identifier for a GroupMembership in an identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example retrieves the membership ID using the group ID and member ID.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
  "MemberId": {
    "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111"
  }
}
```

```
}
```

Sample Response

```
{  
  "MembershipId": "74b864b8-7061-70d4-0d6f-22c89feaacbb",  
  "IdentityStoreId": "d-1234567890"  
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

GetUserId

Retrieves the `UserId` in an identity store.

Note

If you have access to a member account, you can use this API operation from the member account. For more information, see [Limiting access to the identity store from member accounts](#) in the *AWS IAM Identity Center User Guide*.

Request Syntax

```
{
  "AlternateIdentifier": { ... },
  "IdentityStoreId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

AlternateIdentifier

A unique identifier for a user or group that is not the primary identifier. This value can be an identifier from an external identity provider (IdP) that is associated with the user, the group, or a unique attribute. For the unique attribute, the only valid paths are `userName` and `emails.value`.

Type: [AlternateIdentifier](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Response Syntax

```
{
  "IdentityStoreId": "string",
  "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.

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

UserId

The identifier for a user in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example retrieves the user ID based on the user name.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "AlternateIdentifier": {
    "UniqueAttribute": {
      "AttributePath": "userName",
      "AttributeValue": "johndoe"
    }
  }
}
```

Sample Response

```
{
  "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111",
  "IdentityStoreId": "d-1234567890"
```

```
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

IsMemberInGroups

Checks the user's membership in all requested groups and returns if the member exists in all queried groups.

Note

If you have access to a member account, you can use this API operation from the member account. For more information, see [Limiting access to the identity store from member accounts](#) in the *AWS IAM Identity Center User Guide*.

Request Syntax

```
{
  "GroupIds": [ "string" ],
  "IdentityStoreId": "string",
  "MemberId": { ... }
}
```

Request Parameters

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

The request accepts the following data in JSON format.

GroupIds

A list of identifiers for groups in the identity store.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Required: Yes

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

MemberId

An object containing the identifier of a group member.

Type: [MemberId](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

Response Syntax

```
{
  "Results": [
    {
      "GroupId": "string",
      "MemberId": { ... },
      "MembershipExists": boolean
    }
  ]
}
```

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.

Results

A list containing the results of membership existence checks.

Type: Array of [GroupMembershipExistenceResult](#) objects

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example indicates that the specified user is a member of the specified group.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "MemberId": {
    "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111"
  },
  "GroupIds": [
    "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222"
  ]
}
```

Sample Response

```
{
  "Results": [
    {
      "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
    }
  ]
}
```

```
    "MemberId": {
      "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111"
    },
    "MembershipExists": true
  }
]
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListGroupMemberships

For the specified group in the specified identity store, returns the list of all `GroupMembership` objects and returns results in paginated form.

Note

If you have access to a member account, you can use this API operation from the member account. For more information, see [Limiting access to the identity store from member accounts](#) in the *AWS IAM Identity Center User Guide*.

Request Syntax

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

Request Parameters

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

The request accepts the following data in JSON format.

GroupId

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: (`[0-9a-f]{10}-` | `)``[A-Fa-f0-9]{8}-``[A-Fa-f0-9]{4}-``[A-Fa-f0-9]{4}-``[A-Fa-f0-9]{4}-``[A-Fa-f0-9]{4}-``[A-Fa-f0-9]{12}`

Required: Yes

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `d-[0-9a-f]{10}$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

MaxResults

The maximum number of results to be returned per request. This parameter is used in all `List` requests to specify how many results to return in one page.

Type: Integer

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

Required: No

NextToken

The pagination token used for the `ListUsers`, `ListGroups` and `ListGroupMemberships` API operations. This value is generated by the identity store service. It is returned in the API response if the total results are more than the size of one page. This token is also returned when it is used in the API request to search for the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: `[-a-zA-Z0-9+="/: _]*`

Required: No

Response Syntax

```
{  
  "GroupMemberships": [  
    ...  
  ]  
}
```

```
{
  "CreatedAt": number,
  "CreatedBy": "string",
  "GroupId": "string",
  "IdentityStoreId": "string",
  "MemberId": { ... },
  "MembershipId": "string",
  "UpdatedAt": number,
  "UpdatedBy": "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.

GroupMemberships

A list of GroupMembership objects in the group.

Type: Array of [GroupMembership](#) objects

NextToken

The pagination token used for the ListUsers, ListGroups, and ListGroupMemberships API operations. This value is generated by the identity store service. It is returned in the API response if the total results are more than the size of one page. This token is also returned when it is used in the API request to search for the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: [-a-zA-Z0-9+="/:_*]

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example lists the two users who are members of the specified group.

Sample Request

```
{
  "IdentityStoreId": "d-9067f85685",
  "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
  "MaxResults": 100,
  "NextToken": ""
}
```

Sample Response

```
{
  "GroupMemberships": [
    {
      "IdentityStoreId": "d-1234567890",
      "MembershipId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE33333",
      "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
      "MemberId": {
        "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111"
      }
    },
    {
      "IdentityStoreId": "d-1234567890",
      "MembershipId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE33333",
      "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
      "MemberId": {
        "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111"
      }
    }
  ]
}
```

```
}  
  }  
] }  
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListGroupMembershipsForMember

For the specified member in the specified identity store, returns the list of all `GroupMembership` objects and returns results in paginated form.

Note

If you have access to a member account, you can use this API operation from the member account. For more information, see [Limiting access to the identity store from member accounts](#) in the *AWS IAM Identity Center User Guide*.

Request Syntax

```
{
  "IdentityStoreId": "string",
  "MaxResults": number,
  "MemberId": { ... },
  "NextToken": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

MaxResults

The maximum number of results to be returned per request. This parameter is used in the `ListUsers` and `ListGroups` requests to specify how many results to return in one page. The length limit is 50 characters.

Type: Integer

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

Required: No

MemberId

An object that contains the identifier of a group member. Setting the `UserID` field to the specific identifier for a user indicates that the user is a member of the group.

Type: [MemberId](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: Yes

NextToken

The pagination token used for the `ListUsers`, `ListGroups`, and `ListGroupMemberships` API operations. This value is generated by the identity store service. It is returned in the API response if the total results are more than the size of one page. This token is also returned when it is used in the API request to search for the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: `[-a-zA-Z0-9+="/: _]*`

Required: No

Response Syntax

```
{
  "GroupMemberships": [
```

```
{
  "CreatedAt": number,
  "CreatedBy": "string",
  "GroupId": "string",
  "IdentityStoreId": "string",
  "MemberId": { ... },
  "MembershipId": "string",
  "UpdatedAt": number,
  "UpdatedBy": "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.

GroupMemberships

A list of GroupMembership objects in the group for a specified member.

Type: Array of [GroupMembership](#) objects

NextToken

The pagination token used for the ListUsers, ListGroups, and ListGroupMemberships API operations. This value is generated by the identity store service. It is returned in the API response if the total results are more than the size of one page. This token is also returned when it is used in the API request to search for the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: [-a-zA-Z0-9+="/:_*]

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example lists the two group memberships for the specified user.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "MemberId": {
    "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111"
  },
  "MaxResults": 100,
  "NextToken": ""
}
```

Sample Response

```
{
  "GroupMemberships": [
    {
      "IdentityStoreId": "d-1234567890",
      "MembershipId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE33333",
      "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
      "MemberId": {
        "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111"
      }
    },
    {
      "IdentityStoreId": "d-1234567890",
      "MembershipId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE33333",
      "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",

```

```
    "MemberId": {
      "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111"
    }
  ]
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListGroups

Lists all groups in the identity store. Returns a paginated list of complete Group objects. Filtering for a Group by the `DisplayName` attribute is deprecated. Instead, use the `GetGroupId` API action.

Note

If you have access to a member account, you can use this API operation from the member account. For more information, see [Limiting access to the identity store from member accounts](#) in the *AWS IAM Identity Center User Guide*.

Request Syntax

```
{
  "Filters": [
    {
      "AttributePath": "string",
      "AttributeValue": "string"
    }
  ],
  "IdentityStoreId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Filters

This parameter has been deprecated.

A list of `Filter` objects, which is used in the `ListUsers` and `ListGroups` requests.

Type: Array of [Filter](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Required: No

IdentityStoreId

The globally unique identifier for the identity store, such as d-1234567890. In this example, d- is a fixed prefix, and 1234567890 is a randomly generated string that contains numbers and lower case letters. This value is generated at the time that a new identity store is created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

MaxResults

The maximum number of results to be returned per request. This parameter is used in the `ListUsers` and `ListGroups` requests to specify how many results to return in one page. The length limit is 50 characters.

Type: Integer

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

Required: No

NextToken

The pagination token used for the `ListUsers` and `ListGroups` API operations. This value is generated by the identity store service. It is returned in the API response if the total results are more than the size of one page. This token is also returned when it is used in the API request to search for the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: [-a-zA-Z0-9+="/:~]*

Required: No

Response Syntax

```
{
  "Groups": [
    {
      "CreatedAt": number,
      "CreatedBy": "string",
      "Description": "string",
      "DisplayName": "string",
      "ExternalIds": [
        {
          "Id": "string",
          "Issuer": "string"
        }
      ],
      "GroupId": "string",
      "IdentityStoreId": "string",
      "UpdatedAt": number,
      "UpdatedBy": "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

A list of Group objects in the identity store.

Type: Array of [Group](#) objects

NextToken

The pagination token used for the `ListUsers` and `ListGroups` API operations. This value is generated by the identity store service. It is returned in the API response if the total results are more than the size of one page. This token is also returned when it is used in the API request to search for the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: [-a-zA-Z0-9+="/: _]*

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example

This example lists the two groups in the specified identity store.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "MaxResults": 100,
  "NextToken": "",
}
```

Sample Response

```
{
  "Groups": [
    {
      "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
    }
  ]
}
```

```
    "DisplayName": "Developers",
    "Description": "Group that contains all developers",
    "IdentityStoreId": "d-1234567890"
  },
  {
    "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
    "DisplayName": "Engineers",
    "Description": "Group that contains all engineers",
    "IdentityStoreId": "d-1234567890"
  }
]
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

ListUsers

Lists all users in the identity store. Returns a paginated list of complete `User` objects. Filtering for a `User` by the `UserName` attribute is deprecated. Instead, use the `GetUserId` API action.

Note

If you have access to a member account, you can use this API operation from the member account. For more information, see [Limiting access to the identity store from member accounts](#) in the *AWS IAM Identity Center User Guide*.

Request Syntax

```
{
  "Extensions": [ "string" ],
  "Filters": [
    {
      "AttributePath": "string",
      "AttributeValue": "string"
    }
  ],
  "IdentityStoreId": "string",
  "MaxResults": number,
  "NextToken": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

Extensions

A collection of extension names indicating what extensions the service should retrieve alongside other user attributes. `aws:identitystore:enterprise` is the only supported extension name.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Length Constraints: Minimum length of 1. Maximum length of 50.

Pattern: `aws:identitystore:[a-z]{1,20}`

Required: No

Filters

This parameter has been deprecated.

A list of `Filter` objects, which is used in the `ListUsers` and `ListGroups` requests.

Type: Array of [Filter](#) objects

Array Members: Minimum number of 0 items. Maximum number of 1 item.

Required: No

IdentityStoreId

The globally unique identifier for the identity store, such as `d-1234567890`. In this example, `d-` is a fixed prefix, and `1234567890` is a randomly generated string that contains numbers and lower case letters. This value is generated at the time that a new identity store is created.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `d-[0-9a-f]{10}$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

MaxResults

The maximum number of results to be returned per request. This parameter is used in the `ListUsers` and `ListGroups` requests to specify how many results to return in one page. The length limit is 50 characters.

Type: Integer

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

Required: No

NextToken

The pagination token used for the `ListUsers` and `ListGroups` API operations. This value is generated by the identity store service. It is returned in the API response if the total results are more than the size of one page. This token is also returned when it is used in the API request to search for the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: `[-a-zA-Z0-9+="/: _]*`

Required: No

Response Syntax

```
{
  "NextToken": "string",
  "Users": [
    {
      "Addresses": [
        {
          "Country": "string",
          "Formatted": "string",
          "Locality": "string",
          "PostalCode": "string",
          "Primary": boolean,
          "Region": "string",
          "StreetAddress": "string",
          "Type": "string"
        }
      ],
      "Birthdate": "string",
      "CreatedAt": number,
      "CreatedBy": "string",
      "DisplayName": "string",
      "Emails": [
        {
          "Primary": boolean,
          "Type": "string",
          "Value": "string"
        }
      ]
    }
  ]
}
```

```
],
  "Extensions": {
    "string" : JSON value
  },
  "ExternalIds": [
    {
      "Id": "string",
      "Issuer": "string"
    }
  ],
  "IdentityStoreId": "string",
  "Locale": "string",
  "Name": {
    "FamilyName": "string",
    "Formatted": "string",
    "GivenName": "string",
    "HonorificPrefix": "string",
    "HonorificSuffix": "string",
    "MiddleName": "string"
  },
  "NickName": "string",
  "PhoneNumbers": [
    {
      "Primary": boolean,
      "Type": "string",
      "Value": "string"
    }
  ],
  "Photos": [
    {
      "Display": "string",
      "Primary": boolean,
      "Type": "string",
      "Value": "string"
    }
  ],
  "PreferredLanguage": "string",
  "ProfileUrl": "string",
  "Roles": [
    {
      "Primary": boolean,
      "Type": "string",
      "Value": "string"
    }
  ]
}
```

```
    ],  
    "Timezone": "string",  
    "Title": "string",  
    "UpdatedAt": number,  
    "UpdatedBy": "string",  
    "UserId": "string",  
    "UserName": "string",  
    "UserStatus": "string",  
    "UserType": "string",  
    "Website": "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

The pagination token used for the `ListUsers` and `ListGroups` API operations. This value is generated by the identity store service. It is returned in the API response if the total results are more than the size of one page. This token is also returned when it is used in the API request to search for the next page.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 65535.

Pattern: `[-a-zA-Z0-9+="/: _]*`

Users

A list of `User` objects in the identity store.

Type: Array of [User](#) objects

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example 1

This example lists the users in the specified identity store.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "MaxResults": 100,
  "NextToken": ""
}
```

Sample Response

```
{
  "Users": [
    {
      "UserName": "john_doe",
      "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111",
      "Name": {
        "FamilyName": "Doe",
        "GivenName": "John"
      }
    },
    {
      "UserName": "mary_major",
      "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
      "Name": {
        "FamilyName": "Major",
        "GivenName": "Mary"
      }
    }
  ]
}
```

```
    }
  ],
  "NextToken": "EXAMPLE-TOKEN"
}
```

Example 2

This example lists users with extensions in the specified identity store.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "Extensions": ["aws:identitystore:enterprise"]
  "MaxResults": 100,
  "NextToken": ""
}
```

Sample Response

```
{
  "Users": [
    {
      "UserName": "john_doe",
      "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111",
      "Name": {
        "FamilyName": "Doe",
        "GivenName": "John"
      },
      "Extensions": {
        "aws:identitystore:enterprise": {
          "employeeNumber": "701984",
          "costCenter": "4130",
          "organization": "Universal Studios",
          "division": "Theme Park",
          "department": "Tour Operations",
          "manager": {
            "value": "a1b2c3d4-5678-90ab-cdef-EXAMPLE44444"
          }
        }
      }
    },
  ],
  {
```

```
    "UserName": "mary_major",
    "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE222222",
    "Name": {
      "FamilyName": "Major",
      "GivenName": "Mary"
    }
  ],
  "NextToken": "EXAMPLE-TOKEN"
}
```

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateGroup

Updates the specified group metadata and attributes in the specified identity store.

Request Syntax

```
{
  "GroupId": "string",
  "IdentityStoreId": "string",
  "Operations": [
    {
      "AttributePath": "string",
      "AttributeValue": JSON value
    }
  ]
}
```

Request Parameters

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

The request accepts the following data in JSON format.

GroupId

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}- |) [A-Fa-f0-9]{8}- [A-Fa-f0-9]{4}- [A-Fa-f0-9]{4}- [A-Fa-f0-9]{4}- [A-Fa-f0-9]{12}

Required: Yes

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Operations

A list of `AttributeOperation` objects to apply to the requested group. These operations might add, replace, or remove an attribute. For more information on the attributes that can be added, replaced, or removed, see [Group](#).

Type: Array of [AttributeOperation](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

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 Error Types](#).

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ConflictException

This request cannot be completed for one of the following reasons:

- Performing the requested operation would violate an existing uniqueness claim in the identity store. Resolve the conflict before retrying this request.
- The requested resource was being concurrently modified by another request.

Reason

Indicates the reason for a conflict error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ServiceQuotaExceededException

The request would cause the number of users or groups in the identity store to exceed the maximum allowed.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example 1

This example updates the display name of the specified group to "Engineers".

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",
  "Operations": [
    {
      "AttributePath": "displayName",
      "AttributeValue": "Engineers"
    }
  ]
}
```

```
    }  
  ]  
}
```

Sample Response

No response

Example 2

This example updates the description of the specified group to "Contains all engineers".

Sample Request

```
{  
  "IdentityStoreId": "d-1234567890",  
  "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",  
  "Operations": [  
    {  
      "AttributePath": "description",  
      "AttributeValue": "Contains all engineers"  
    }  
  ]  
}
```

Sample Response

No response

Example 3

This example removes the description from the specified group.

Sample Request

```
{  
  "IdentityStoreId": "d-1234567890",  
  "GroupId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE22222",  
  "Operations": [  
    {  
      "AttributePath": "description",
```

```
}  
  ]  
}
```

Sample Response

No response

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

UpdateUser

Updates the specified user metadata and attributes in the specified identity store.

Request Syntax

```
{
  "IdentityStoreId": "string",
  "Operations": [
    {
      "AttributePath": "string",
      "AttributeValue": JSON value
    }
  ],
  "UserId": "string"
}
```

Request Parameters

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

The request accepts the following data in JSON format.

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

Operations

A list of `AttributeOperation` objects to apply to the requested user. These operations might add, replace, or remove an attribute. For more information on the attributes that can be added, replaced, or removed, see [User](#).

Type: Array of [AttributeOperation](#) objects

Array Members: Minimum number of 1 item. Maximum number of 100 items.

Required: Yes

UserId

The identifier for a user in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

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 Error Types](#).

AccessDeniedException

You do not have sufficient access to perform this action.

Reason

Indicates the reason for an access denial when returned by KMS while accessing a Customer Managed KMS key. For non-KMS access-denied errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ConflictException

This request cannot be completed for one of the following reasons:

- Performing the requested operation would violate an existing uniqueness claim in the identity store. Resolve the conflict before retrying this request.
- The requested resource was being concurrently modified by another request.

Reason

Indicates the reason for a conflict error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

InternalServerError

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

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

Reason

Indicates the reason for a resource not found error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

ResourceId

The identifier for a resource in the identity store that can be used as `UserId` or `GroupId`. The format for `ResourceId` is either `UUID` or `1234567890-UUID`, where `UUID` is a randomly generated value for each resource when it is created and `1234567890` represents the `IdentityStoreId` string value. In the case that the identity store is migrated from a legacy SSO identity store, the `ResourceId` for that identity store will be in the format of `UUID`. Otherwise, it will be in the `1234567890-UUID` format.

ResourceType

An enum object indicating the type of resource in the identity store service. Valid values include `USER`, `GROUP`, and `IDENTITY_STORE`.

HTTP Status Code: 400

ServiceQuotaExceededException

The request would cause the number of users or groups in the identity store to exceed the maximum allowed.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.

Reason

Indicates the reason for the throttling error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

RetryAfterSeconds

The number of seconds to wait before retrying the next request.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

Reason

Indicates the reason for the validation error when the service is unable to access a Customer Managed KMS key. For non-KMS permission errors, this field is not included.

RequestId

The identifier for each request. This value is a globally unique ID that is generated by the identity store service for each sent request, and is then returned inside the exception if the request fails.

HTTP Status Code: 400

Examples

Example 1

This example updates the specified user's nickname to Johnny and the user name to John Doe.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111",
  "Operations": [
    {
      "AttributePath": "nickName",
      "AttributeValue": "Johnny"
    },
  ],
}
```

```
{
  "AttributePath": "userName",
  "AttributeValue": "John Doe"
}
```

Sample Response

No response

Example 2

This example updates the family name of the specified user to Smith.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111",
  "Operations": [
    {
      "AttributePath": "name.familyName",
      "AttributeValue": "Smith"
    }
  ]
}
```

Sample Response

No response

Example 3

This example updates the phone number for the specified user.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111",
  "Operations": [
```

```
{
  "AttributePath": "phoneNumbers",
  "AttributeValue": [
    {
      "Value": "832-555-0100",
      "Type": "home",
      "Primary": true
    }
  ]
}
```

Sample Response

No response

Example 4

This example replaces all attributes in `aws:identitystore:enterprise` extension for the specified user.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111",
  "Operations": [
    {
      "AttributePath": "aws:identitystore:enterprise",
      "AttributeValue": {
        "employeeNumber": "701984",
        "costCenter": "4130"
      }
    }
  ]
}
```

Sample Response

No response

Example 5

This example replaces only department in `aws:identitystore:enterprise` extension for the specified user.

Sample Request

```
{
  "IdentityStoreId": "d-1234567890",
  "UserId": "a1b2c3d4-5678-90ab-cdef-EXAMPLE11111",
  "Operations": [
    {
      "AttributePath": "aws:identitystore:enterprise.department",
      "AttributeValue": "Park Admissions"
    }
  ]
}
```

Sample Response

No response

See Also

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

- [AWS Command Line Interface V2](#)
- [AWS SDK for .NET V4](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for Kotlin](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

Data Types

The AWS IAM Identity Center 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:

- [Address](#)
- [AlternateIdentifier](#)
- [AttributeOperation](#)
- [Email](#)
- [ExternalId](#)
- [Filter](#)
- [Group](#)
- [GroupMembership](#)
- [GroupMembershipExistenceResult](#)
- [MemberId](#)
- [Name](#)
- [PhoneNumber](#)
- [Photo](#)
- [Role](#)
- [UniqueAttribute](#)
- [User](#)

Address

The address associated with the specified user.

Contents

Country

The country of the address.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Formatted

A string containing a formatted version of the address for display.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Locality

A string of the address locality.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

PostalCode

The postal code of the address.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Primary

A Boolean value representing whether this is the primary address for the associated resource.

Type: Boolean

Required: No

Region

The region of the address.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

StreetAddress

The street of the address.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Type

A string representing the type of address. For example, "Home."

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

Alternateldentifier

A unique identifier for a user or group that is not the primary identifier. This value can be an identifier from an external identity provider (IdP) that is associated with the user, the group, or a unique attribute.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

ExternalId

The identifier issued to this resource by an external identity provider.

Type: [ExternalId](#) object

Required: No

UniqueAttribute

An entity attribute that's unique to a specific entity.

Type: [UniqueAttribute](#) object

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

AttributeOperation

An operation that applies to the requested group. This operation might add, replace, or remove an attribute.

Contents

AttributePath

A string representation of the path to a given attribute or sub-attribute. Supports JMESPath.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: $(?:\p{L}+:\p{L}+:\p{L}+(?:\.\p{L}+){0,3}|\p{L}+(?:\.\p{L}+){0,2})$

Required: Yes

AttributeValue

The value of the attribute. This is a Document type. This type is not supported by Java V1, Go V1, and older versions of the AWS CLI.

Type: JSON value

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

Email

The email address associated with the user.

Contents

Primary

A Boolean value representing whether this is the primary email address for the associated resource.

Type: Boolean

Required: No

Type

A string representing the type of address. For example, "Work."

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Value

A string containing an email address. For example, "johndoe@amazon.com."

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

ExternalId

The identifier issued to this resource by an external identity provider.

Contents

Id

The identifier issued to this resource by an external identity provider.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}]+`

Required: Yes

Issuer

The issuer for an external identifier.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}]+`

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

Filter

A query filter used by `ListUsers` and `ListGroups`. This filter object provides the attribute name and attribute value to search users or groups.

Contents

AttributePath

The attribute path that is used to specify which attribute name to search. Length limit is 255 characters. For example, `UserName` is a valid attribute path for the `ListUsers` API, and `DisplayName` is a valid attribute path for the `ListGroups` API.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `(?:\p{L}+:\p{L}+:\p{L}+(?:\.\p{L}+){0,3}|\p{L}+(?:\.\p{L}+){0,2})`

Required: Yes

AttributeValue

Represents the data for an attribute. Each attribute value is described as a name-value pair.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

Group

A group object that contains the metadata and attributes for a specified group.

Contents

GroupId

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: (`[0-9a-f]{10}-` | `)``[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}`

Required: Yes

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: `d-[0-9a-f]{10}$|^``[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}`

Required: Yes

CreatedAt

The date and time the group was created.

Type: Timestamp

Required: No

CreatedBy

The identifier of the user or system that created the group.

Type: String

Required: No

Description

A string containing a description of the specified group.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

DisplayName

The display name value for the group. The length limit is 1,024 characters. This value can consist of letters, accented characters, symbols, numbers, punctuation, tab, new line, carriage return, space, and nonbreaking space in this attribute. This value is specified at the time the group is created and stored as an attribute of the group object in the identity store.

Prefix search supports a maximum of 1,000 characters for the string.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

ExternalIds

A list of `ExternalId` objects that contains the identifiers issued to this resource by an external identity provider.

Type: Array of [ExternalId](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

UpdatedAt

The date and time the group was last updated.

Type: Timestamp

Required: No

UpdatedBy

The identifier of the user or system that last updated the group.

Type: String

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

GroupMembership

Contains the identifiers for a group, a group member, and a GroupMembership object in the identity store.

Contents

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

CreatedAt

The date and time the group membership was created.

Type: Timestamp

Required: No

CreatedBy

The identifier of the user or system that created the group membership.

Type: String

Required: No

GroupId

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Required: No

MemberId

An object that contains the identifier of a group member. Setting the UserID field to the specific identifier for a user indicates that the user is a member of the group.

Type: [MemberId](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

MembershipId

The identifier for a GroupMembership object in an identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Required: No

UpdatedAt

The date and time the group membership was last updated.

Type: Timestamp

Required: No

UpdatedBy

The identifier of the user or system that last updated the group membership.

Type: String

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

GroupMembershipExistenceResult

Indicates whether a resource is a member of a group in the identity store.

Contents

GroupId

The identifier for a group in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: (`[0-9a-f]{10} - |`)`[A-Fa-f0-9]{8} - [A-Fa-f0-9]{4} - [A-Fa-f0-9]{4} - [A-Fa-f0-9]{4} - [A-Fa-f0-9]{4} - [A-Fa-f0-9]{12}`

Required: No

MemberId

An object that contains the identifier of a group member. Setting the `UserID` field to the specific identifier for a user indicates that the user is a member of the group.

Type: [MemberId](#) object

Note: This object is a Union. Only one member of this object can be specified or returned.

Required: No

MembershipExists

Indicates whether a membership relation exists or not.

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

MemberId

An object containing the identifier of a group member.

Contents

Important

This data type is a UNION, so only one of the following members can be specified when used or returned.

UserId

An object containing the identifiers of resources that can be members.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}- |) [A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

Name

The full name of the user.

Contents

FamilyName

The family name of the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Formatted

A string containing a formatted version of the name for display.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

GivenName

The given name of the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

HonorificPrefix

The honorific prefix of the user. For example, "Dr."

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

HonorificSuffix

The honorific suffix of the user. For example, "M.D."

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

MiddleName

The middle name of the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

PhoneNumber

The phone number associated with the user.

Contents

Primary

A Boolean value representing whether this is the primary phone number for the associated resource.

Type: Boolean

Required: No

Type

A string representing the type of a phone number. For example, "Mobile."

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Value

A string containing a phone number. For example, "8675309" or "+1 (800) 123-4567".

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

Photo

Contains information about a user's photo. Users can have up to 3 photos, with one designated as primary. Supports common image formats, including jpg, jpeg, png, and gif.

Contents

Value

The photo data or URL. Supported formats include jpg, jpeg, png, and gif. This field is required for all photo entries.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: Yes

Display

A human-readable description of the photo for display purposes. This optional field provides context about the photo.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Primary

Specifies whether this is the user's primary photo. Default value is `false`. Only one photo can be designated as primary per user.

Type: Boolean

Required: No

Type

The type of photo. This field is optional and can be used to categorize different types of photos.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

Role

The role associated with the user.

Contents

Primary

A Boolean value representing whether this is the primary role for the associated resource.

Type: Boolean

Required: No

Type

A string representing the type of role. For example, "Work."

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Value

A string containing a role name. For example, "Researcher."

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

UniqueAttribute

An entity attribute that's unique to a specific entity.

Contents

AttributePath

A string representation of the path to a given attribute or sub-attribute. Supports JMESPath.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `(?:\p{L}+:\p{L}+:\p{L}+(?:\.\p{L}+){0,3}|\p{L}+(?:\.\p{L}+){0,2})`

Required: Yes

AttributeValue

The value of the attribute. This is a Document type. This type is not supported by Java V1, Go V1, and older versions of the AWS CLI.

Type: JSON value

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

User

A user object that contains the metadata and attributes for a specified user.

Contents

IdentityStoreId

The globally unique identifier for the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 36.

Pattern: d-[0-9a-f]{10}\$|^-[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}

Required: Yes

UserId

The identifier for a user in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 47.

Pattern: ([0-9a-f]{10}-|)[A-Fa-f0-9]{8}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{4}-[A-Fa-f0-9]{12}

Required: Yes

Addresses

A list of [Address](#) objects containing addresses associated with the user.

Type: Array of [Address](#) objects

Array Members: Fixed number of 1 item.

Required: No

Birthdate

The user's birthdate in YYYY-MM-DD format. This field stores personal birthdate information for the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

CreatedAt

The date and time the user was created.

Type: Timestamp

Required: No

CreatedBy

The identifier of the user or system that created the user.

Type: String

Required: No

DisplayName

A string containing the name of the user that is formatted for display when the user is referenced. For example, "John Doe."

Prefix search supports a maximum of 1,000 characters for the string.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Emails

A list of `Email` objects containing email addresses associated with the user.

Type: Array of [Email](#) objects

Array Members: Fixed number of 1 item.

Required: No

Extensions

A map of explicitly requested attribute extensions associated with the user. Not populated if the user has no requested extensions.

Type: String to JSON value map

Map Entries: Maximum number of 10 items.

Key Length Constraints: Minimum length of 1. Maximum length of 50.

Key Pattern: `aws:identitystore:[a-z]{1,20}`

Required: No

ExternalIds

A list of `ExternalId` objects that contains the identifiers issued to this resource by an external identity provider.

Type: Array of [ExternalId](#) objects

Array Members: Minimum number of 1 item. Maximum number of 10 items.

Required: No

Locale

A string containing the geographical region or location of the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Name

An object containing the name of the user.

Type: [Name](#) object

Required: No

NickName

A string containing an alternate name for the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

PhoneNumbers

A list of `PhoneNumber` objects containing phone numbers associated with the user.

Type: Array of [PhoneNumber](#) objects

Array Members: Fixed number of 1 item.

Required: No

Photos

A list of photos associated with the user. Users can have up to 3 photos with metadata including type, display name, and primary designation.

Type: Array of [Photo](#) objects

Array Members: Minimum number of 1 item. Maximum number of 3 items.

Required: No

PreferredLanguage

A string containing the preferred language of the user. For example, "American English" or "en-us."

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

ProfileUrl

A string containing a URL that might be associated with the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Roles

A list of `Role` objects containing roles associated with the user.

Type: Array of [Role](#) objects

Array Members: Fixed number of 1 item.

Required: No

Timezone

A string containing the time zone of the user.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Title

A string containing the title of the user. Possible values are left unspecified. The value can vary based on your specific use case.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

UpdatedAt

The date and time the user was last updated.

Type: Timestamp

Required: No

UpdatedBy

The identifier of the user or system that last updated the user.

Type: String

Required: No

UserName

A unique string used to identify the user. The length limit is 128 characters. This value can consist of letters, accented characters, symbols, numbers, and punctuation. This value is specified at the time the user is created and stored as an attribute of the user object in the identity store.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 128.

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}]+`

Required: No

UserStatus

The current status of the user account.

Type: String

Valid Values: ENABLED | DISABLED

Required: No

UserType

A string indicating the type of user. Possible values are left unspecified. The value can vary based on your specific use case.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

Required: No

Website

The user's personal website or blog URL. This field stores website information for personal or professional use.

Type: String

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

Pattern: `[\p{L}\p{M}\p{S}\p{N}\p{P}\t\n\r]+`

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 Java V2](#)
- [AWS SDK for Ruby V3](#)

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 [Signing AWS API requests](#) in the *IAM User Guide*.

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 [Create a signed AWS API request](#) in the *IAM User Guide*.

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'T'HHMMSS'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 [Elements of an AWS API request signature](#) in the *IAM User Guide*.

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 STS, see [AWS services that work with IAM](#) in the *IAM User Guide*.

Condition: If you're using temporary security credentials from AWS STS, 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 [Create a signed AWS API request](#) in the *IAM User Guide*.

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 Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

AccessDeniedException

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

ExpiredTokenException

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

IncompleteSignature

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

InternalFailure

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

MalformedHttpRequestException

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

NotAuthorized

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

OptInRequired

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

RequestAbortedException

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

RequestEntityTooLargeException

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

RequestTimeoutException

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

ServiceUnavailable

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

ThrottlingException

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

UnknownOperationException

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

UnrecognizedClientException

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

ValidationError

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400

Document History

The following table describes the important changes to the documentation in this release of the *Identity Store* API Reference Guide.

- **Latest documentation update:** August 31, 2022

Change	Description	Date Changed
AWS Single Sign-On (AWS SSO) renamed to AWS IAM Identity Center	AWS introduces AWS IAM Identity Center. IAM Identity Center expands the capabilities of AWS Identity and Access Management (IAM) to help you centrally manage account and access to cloud applications for your workforce users. For more information, see IAM Identity Center rename .	July 26, 2022
New guide	This is the first release of the Identity Store API Reference Guide.	August 18, 2020
Updated users and groups	This update includes new Create, Update and Delete APIs in the Identity Store API Reference Guide.	August 31, 2022