



API Reference

# Identity Store



# Identity Store: API Reference

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# 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 AWS 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 Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

### InternalServerError

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

HTTP Status Code: 500

### ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

### ServiceQuotaExceededException

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

HTTP Status Code: 400

## ThrottlingException

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

HTTP Status Code: 400

## ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

### AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

### InternalServerError

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

HTTP Status Code: 500

### ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

### ServiceQuotaExceededException

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

HTTP Status Code: 400

## ThrottlingException

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

HTTP Status Code: 400

## ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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"
    }
  ],
  "DisplayName": "string",
  "Emails": [
    {
      "Primary": boolean,
      "Type": "string",
      "Value": "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"
    }
  ]
}
```

```
    }  
  ],  
  "PreferredLanguage": "string",  
  "ProfileUrl": "string",  
  "Timezone": "string",  
  "Title": "string",  
  "UserName": "string",  
  "UserType": "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

### [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."

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

### 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.

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

### 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

### 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

## 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 Errors](#).

## **AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

## **InternalServerError**

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

HTTP Status Code: 500

## **ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

## **ServiceQuotaExceededException**

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

HTTP Status Code: 400

## **ThrottlingException**

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

HTTP Status Code: 400

## **ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

### AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

### InternalServerError

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

HTTP Status Code: 500

### ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

### ThrottlingException

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

HTTP Status Code: 400

### ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

### AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

### InternalServerError

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

HTTP Status Code: 500

### ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

### ThrottlingException

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

HTTP Status Code: 400

### ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

### AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

### InternalServerError

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

HTTP Status Code: 500

### ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

### ThrottlingException

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

HTTP Status Code: 400

### ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

```
{
  "Description": "string",
  "DisplayName": "string",
  "ExternalIds": [
    {
      "Id": "string",
      "Issuer": "string"
    }
  ],
  "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.

### 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}`

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

### **ThrottlingException**

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

HTTP Status Code: 400

### **ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{4}-[A-Fa-f0-9]{12}

Required: Yes

## Response Syntax

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

### 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}

### 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}

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerError**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

## ThrottlingException

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

HTTP Status Code: 400

## ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

```
{  
  "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, 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"
    }
  ],
  "DisplayName": "string",
  "Emails": [
    {
      "Primary": boolean,
      "Type": "string",
      "Value": "string"
    }
  ],
  "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"
    }
  ],
  "PreferredLanguage": "string",
  "ProfileUrl": "string",
  "Timezone": "string",
  "Title": "string",
  "UserId": "string",
  "UserName": "string",
  "UserType": "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.

### 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.

## 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.

## 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 ]+`

## 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 ]+`

### 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}]+`

### 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 ]+`

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

### **ThrottlingException**

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

HTTP Status Code: 400

### **ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

### **ThrottlingException**

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

HTTP Status Code: 400

### **ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### InternalServerError

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

HTTP Status Code: 500

### ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

### ThrottlingException

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

HTTP Status Code: 400

### ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

### **ThrottlingException**

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

HTTP Status Code: 400

### **ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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 Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### InternalServerErrorException

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

HTTP Status Code: 500

### ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

### ThrottlingException

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

HTTP Status Code: 400

### ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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]{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": [
```

```
{
  "GroupId": "string",
  "IdentityStoreId": "string",
  "MemberId": { ... },
  "MembershipId": "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 Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

### **ThrottlingException**

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

HTTP Status Code: 400

### **ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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": [  
    ...  
  ]  
}
```

```
{
  "GroupId": "string",
  "IdentityStoreId": "string",
  "MemberId": { ... },
  "MembershipId": "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 Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

### **ThrottlingException**

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

HTTP Status Code: 400

### **ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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": [
    {
      "Description": "string",
      "DisplayName": "string",
      "ExternalIds": [
        {
          "Id": "string",
          "Issuer": "string"
        }
      ],
      "GroupId": "string",
      "IdentityStoreId": "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 `it1` 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 Errors](#).

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### InternalServerErrorException

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

HTTP Status Code: 500

### ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

### ThrottlingException

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

HTTP Status Code: 400

### ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)

- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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

```
{
  "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

```
{
  "NextToken": "string",
  "Users": [
    {
      "Addresses": [
        {
          "Country": "string",
          "Formatted": "string",
          "Locality": "string",
          "PostalCode": "string",
          "Primary": boolean,
          "Region": "string",
          "StreetAddress": "string",
          "Type": "string"
        }
      ],
      "DisplayName": "string",
      "Emails": [
        {
          "Primary": boolean,
          "Type": "string",
          "Value": "string"
        }
      ],
      "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"
      }
    ],
    "PreferredLanguage": "string",
    "ProfileUrl": "string",
    "Timezone": "string",
    "Title": "string",
    "UserId": "string",
    "UserName": "string",
    "UserType": "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 Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

### **ThrottlingException**

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

HTTP Status Code: 400

### **ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)

# UpdateGroup

For the specified group in the specified identity store, updates the group metadata and attributes.

## 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.

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 Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

### **ServiceQuotaExceededException**

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

HTTP Status Code: 400

### **ThrottlingException**

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

HTTP Status Code: 400

### **ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

## **See Also**

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

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



# UpdateUser

For the specified user in the specified identity store, updates the user metadata and attributes.

## 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.

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 Errors](#).

### **AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

### **InternalServerErrorException**

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

HTTP Status Code: 500

### **ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

### **ServiceQuotaExceededException**

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

HTTP Status Code: 400

### **ThrottlingException**

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

HTTP Status Code: 400

### **ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

## **See Also**

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

- [AWS Command Line Interface](#)
- [AWS SDK for .NET](#)
- [AWS SDK for C++](#)
- [AWS SDK for Go v2](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for JavaScript V3](#)
- [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](#)
- [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}+){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 100.

Pattern: `(?!(?i)(arn|aws):)[\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}+){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`]{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

### 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.

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

## 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

### 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

## 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](#)

# 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}+){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

### DisplayName

A string containing the name of the user that is formatted for display when the user is referenced. For example, "John Doe."

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

## 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

## 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

### 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.

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

## 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*.

## Action

The action to be performed.

Type: string

Required: Yes

## Version

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

Type: string

Required: Yes

## X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

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

For more information, see [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 Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

## **InternalFailure**

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

HTTP Status Code: 500

## **InvalidAction**

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

HTTP Status Code: 400

## **InvalidClientTokenId**

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

HTTP Status Code: 403

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

## **OptInRequired**

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

HTTP Status Code: 403

**RequestExpired**

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

HTTP Status Code: 400

**ServiceUnavailable**

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

HTTP Status Code: 503

**ThrottlingException**

The request was denied due to request throttling.

HTTP Status Code: 400

**ValidationError**

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

HTTP Status Code: 400

## 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 <a href="#">IAM Identity Center rename</a> .	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