aws

API Reference

# Account access manager

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# Account access manager: API Reference

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# Welcome

Account access manager enables you to manage applications and entitlements that grant IAM Identity Center principals access to IAM roles across accounts.

This document was last published on October 6, 2026.

# Actions

The following actions are supported:

- CreateApplication
- CreateEntitlement
- DeleteApplication
- DeleteEntitlement
- GetApplication
- GetEntitlement
- ListApplications
- ListEntitlements
- ListTagsForResource
- TagResource
- UntagResource

# CreateApplication

Creates an account access manager instance and its AWS account access application in the associated IAM Identity Center instance. This operation is idempotent; calling it multiple times with the same parameters returns the existing application.

## Request Syntax

```
POST /applications HTTP/1.1
Content-type: application/json

{
   "identitySource": { ... },
   "tags": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**identitySource**

Specifies the identity source for the application. The identity source defines the IAM Identity Center instance that provides principals for entitlements.

Type: IdentitySource object

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

Required: Yes

**tags**

Specifies the tags to assign to the application.

Type: String to string map

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "applicationArn": "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.

**applicationArn**

The Amazon Resource Name (ARN) of the created application.

Type: String

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this operation.

HTTP Status Code: 403

**AlreadyCreatedException**

The resource you are trying to create already exists. To retrieve the existing resource, use the corresponding Get operation.

HTTP Status Code: 400

**ConflictException**

The request conflicts with the current state of the resource.

HTTP Status Code: 409

**InternalServerException**

An internal service error occurred. Try your request again later.

HTTP Status Code: 500

**ValidationException**

The input does not satisfy the constraints specified by the service. Check your request parameters and retry the request.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# CreateEntitlement

Creates an entitlement (assignment) in account access manager. An entitlement (assignment) grants a principal (IAM Identity Center user or group) permission to assume a specified IAM role in an AWS account. This operation is idempotent.

## Request Syntax

```
POST /entitlements HTTP/1.1
Content-type: application/json

{
   "applicationArn": "string",
   "entitlement": { ... }
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**applicationArn**

Specifies the ARN of the application to create the entitlement for.

Type: String

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

Required: Yes

**entitlement**

Specifies the entitlement configuration, including the principal and the IAM role to grant access to.

Type: Entitlement object

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

Required: Yes

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "entitlementId": "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.

**entitlementId**

The unique identifier of the created entitlement.

Type: String

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this operation.

HTTP Status Code: 403

**ConflictException**

The request conflicts with the current state of the resource.

HTTP Status Code: 409

**InternalServerException**

An internal service error occurred. Try your request again later.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource does not exist. Verify that the resource identifier is correct and that the resource exists in the current Region.

HTTP Status Code: 404

**ServiceQuotaExceededException**

The request exceeds a service quota for your account.

HTTP Status Code: 402

**ThrottlingException**

The request was denied due to request throttling. Try your request again later.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by the service. Check your request parameters and retry the request.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteApplication

Deletes an account access manager application. This operation is idempotent; deleting an application that has already been deleted does not return an error.

## Request Syntax

```
DELETE /applications/applicationArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**applicationArn**

Specifies the ARN of the application to delete.

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this operation.

HTTP Status Code: 403

**ConflictException**

The request conflicts with the current state of the resource.

HTTP Status Code: 409

**InternalServerException**

An internal service error occurred. Try your request again later.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource does not exist. Verify that the resource identifier is correct and that the resource exists in the current Region.

HTTP Status Code: 404

**ValidationException**

The input does not satisfy the constraints specified by the service. Check your request parameters and retry the request.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# DeleteEntitlement

Deletes an entitlement from an account access manager application. This operation is idempotent; deleting an entitlement that has already been deleted does not return an error.

## Request Syntax

```
DELETE /entitlements/entitlementId?applicationArn=applicationArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**applicationArn**

Specifies the ARN of the application that the entitlement belongs to.

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

Required: Yes

**entitlementId**

Specifies the unique identifier of the entitlement to delete.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 204
```

## Response Elements

If the action is successful, the service sends back an HTTP 204 response with an empty HTTP body.

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this operation.

HTTP Status Code: 403

**ConflictException**

The request conflicts with the current state of the resource.

HTTP Status Code: 409

**InternalServerException**

An internal service error occurred. Try your request again later.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource does not exist. Verify that the resource identifier is correct and that the resource exists in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling. Try your request again later.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by the service. Check your request parameters and retry the request.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetApplication

Retrieves details about an account access manager application, including its status, identity source, and tags.

## Request Syntax

```
GET /applications/applicationArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### applicationArn

Specifies the ARN of the application to retrieve.

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "createdAt": "string",
   "error": {
      "code": "string",
      "message": "string"
   },
```

```
   "identitySource": { ... },
   "status": "string",
   "tags": {
      "string" : "string"
   },
   "tenantId": "string",
   "updatedAt": "string"
}
```

## Response Elements

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

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

**createdAt**

The date and time when the application was created.

Type: Timestamp

**error**

The error details if the application is in a failed state.

Type: ErrorDetails object

**identitySource**

The identity source details for the application, including the IAM Identity Center instance configuration.

Type: IdentitySourceDetails object

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

**status**

The current status of the application.

Type: String

Valid Values: `CREATE_IN_PROGRESS | ACTIVE | DELETE_IN_PROGRESS | CREATE_FAILED | DELETE_FAILED`

**tags**

The tags associated with the application.

Type: String to string map

**tenantId**

The tenant identifier associated with the application.

Type: String

**updatedAt**

The date and time when the application was last updated.

Type: Timestamp

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this operation.

HTTP Status Code: 403

**InternalServerException**

An internal service error occurred. Try your request again later.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource does not exist. Verify that the resource identifier is correct and that the resource exists in the current Region.

HTTP Status Code: 404

**ValidationException**

The input does not satisfy the constraints specified by the service. Check your request parameters and retry the request.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# GetEntitlement

Retrieves details about a specific entitlement for an account access manager application, including the principal, IAM role, and target account.

## Request Syntax

```
GET /entitlements/entitlementId?applicationArn=applicationArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**applicationArn**

Specifies the ARN of the application that the entitlement belongs to.

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

Required: Yes

**entitlementId**

Specifies the unique identifier of the entitlement to retrieve.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "applicationArn": "string",
```

```
   "createdAt": "string",
   "entitlement": { ... },
   "entitlementId": "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.

**applicationArn**

The ARN of the application that the entitlement belongs to.

Type: String

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

**createdAt**

The date and time when the entitlement was created.

Type: Timestamp

**entitlement**

The entitlement details, including the principal, IAM role, and target account.

Type: EntitlementDetails object

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

**entitlementId**

The unique identifier of the entitlement.

Type: String

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this operation.

HTTP Status Code: 403

**InternalServerException**

An internal service error occurred. Try your request again later.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource does not exist. Verify that the resource identifier is correct and that the resource exists in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling. Try your request again later.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by the service. Check your request parameters and retry the request.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2

- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListApplications

Lists the account access manager applications in your account. Use pagination to ensure that the operation returns quickly and successfully.

## Request Syntax

```
POST /applications-list HTTP/1.1
Content-type: application/json

{
   "maxResults": number,
   "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

**maxResults**

Specifies the maximum number of results to return in a single call.

Type: Integer

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

Required: No

**nextToken**

Specifies the pagination token from a previous call to retrieve the next set of results.

Type: String

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "applications": [
      {
         "applicationArn": "string",
         "createdAt": "string",
         "tenantId": "string",
         "updatedAt": "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.

**applications**

The list of applications.

Type: Array of ApplicationSummary objects

**nextToken**

The pagination token to use in a subsequent request to retrieve the next set of results. This value is null when there are no more results to return.

Type: String

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this operation.

HTTP Status Code: 403

**InternalServerException**

An internal service error occurred. Try your request again later.

HTTP Status Code: 500

**ThrottlingException**

The request was denied due to request throttling. Try your request again later.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by the service. Check your request parameters and retry the request.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListEntitlements

Lists the entitlements for a specified account access manager application. You can filter results by principal, IAM role, or account. Use pagination to ensure that the operation returns quickly and successfully.

## Request Syntax

```
POST /entitlements-list HTTP/1.1
Content-type: application/json

{
   "applicationArn": "string",
   "filter": {
      "principalRole": {
         "account": "string",
         "principal": { ... },
         "roleArn": "string"
      }
   },
   "maxResults": number,
   "nextToken": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### applicationArn

Specifies the ARN of the application to list entitlements for.

Type: String

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

Required: Yes

**filter**

Specifies filter criteria to narrow the entitlements returned. You can filter by principal, IAM role, or account.

Type: EntitlementFilter object

Required: Yes

**maxResults**

Specifies the maximum number of results to return in a single call.

Type: Integer

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

Required: No

**nextToken**

Specifies the pagination token from a previous call to retrieve the next set of results.

Type: String

Required: No

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "entitlements": [
      {
         "createdAt": "string",
         "entitlement": { ... },
         "entitlementId": "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.

**entitlements**

The list of entitlements for the specified application.

Type: Array of EntitlementsListMember objects

**nextToken**

The pagination token to use in a subsequent request to retrieve the next set of results. This value is null when there are no more results to return.

Type: String

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**AccessDeniedException**

You do not have sufficient access to perform this operation.

HTTP Status Code: 403

**InternalServerException**

An internal service error occurred. Try your request again later.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource does not exist. Verify that the resource identifier is correct and that the resource exists in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling. Try your request again later.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by the service. Check your request parameters and retry the request.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# ListTagsForResource

Lists the tags associated with an account access manager resource.

## Request Syntax

```
GET /tags/resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**resourceArn**

Specifies the ARN of the resource to list tags for.

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
Content-type: application/json

{
   "tags": {
      "string" : "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.

**tags**

The tags associated with the resource.

Type: String to string map

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**InternalServerException**

An internal service error occurred. Try your request again later.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource does not exist. Verify that the resource identifier is correct and that the resource exists in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling. Try your request again later.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by the service. Check your request parameters and retry the request.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# TagResource

Adds tags to an account access manager resource.

## Request Syntax

```
POST /tags/resourceArn HTTP/1.1
Content-type: application/json

{
   "tags": {
      "string" : "string"
   }
}
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

Specifies the ARN of the resource to add tags to.

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### tags

Specifies the tags to add to the resource.

Type: String to string map

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**InternalServerException**

An internal service error occurred. Try your request again later.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource does not exist. Verify that the resource identifier is correct and that the resource exists in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling. Try your request again later.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by the service. Check your request parameters and retry the request.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# UntagResource

Removes tags from an account access manager resource.

## Request Syntax

```
DELETE /tags/resourceArn?tagKeys=tagKeys HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

**resourceArn**

Specifies the ARN of the resource to remove tags from.

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

Required: Yes

**tagKeys**

Specifies the tag keys to remove from the resource.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

For information about the errors that are common to all actions, see Common Error Types.

**InternalServerException**

An internal service error occurred. Try your request again later.

HTTP Status Code: 500

**ResourceNotFoundException**

The specified resource does not exist. Verify that the resource identifier is correct and that the resource exists in the current Region.

HTTP Status Code: 404

**ThrottlingException**

The request was denied due to request throttling. Try your request again later.

HTTP Status Code: 429

**ValidationException**

The input does not satisfy the constraints specified by the service. Check your request parameters and retry the request.

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 V2
- AWS SDK for .NET V4
- AWS SDK for C++
- AWS SDK for Go v2
- AWS SDK for Java V2
- AWS SDK for JavaScript V3

- AWS SDK for Kotlin
- AWS SDK for PHP V3
- AWS SDK for Python (Boto3)
- AWS SDK for Ruby V3

# Data Types

The Account Access 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:

- ApplicationSummary
- Entitlement
- EntitlementDetails
- EntitlementFilter
- EntitlementsListMember
- EntitlementSummary
- ErrorDetails
- IdentityCenter
- IdentityCenterDetails
- IdentityCenterPrincipal
- IdentityCenterPrincipalFilter
- IdentitySource
- IdentitySourceDetails
- Principal
- PrincipalFilter
- PrincipalRoleEntitlement
- PrincipalRoleEntitlementDetails
- PrincipalRoleEntitlementFilter
- PrincipalRoleEntitlementSummary

# ApplicationSummary

Contains summary information about an account access manager application.

## Contents

**applicationArn**

The ARN of the IAM Identity Center application created for this account access manager application. This property is not required or supported as input. It can be read after creation.

Type: String

Length Constraints: Minimum length of 49. Maximum length of 2048.

Pattern: `arn:[a-z0-9-]+:account-access:[a-z0-9]+(-[a-z0-9]+)*:[0-9]{12}:application/[a-zA-Z0-9-]+`

Required: Yes

**createdAt**

The date and time when the application was created.

Type: Timestamp

Required: Yes

**updatedAt**

The date and time when the application was last updated.

Type: Timestamp

Required: Yes

**tenantId**

The tenant identifier associated with the application.

Type: String

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# Entitlement

Specifies the entitlement configuration for an account access manager application, defining which principal can assume which IAM role.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**principalRole**

The principal-to-role mapping for the entitlement.

Type: PrincipalRoleEntitlement 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

# EntitlementDetails

Contains detailed information about an entitlement, including the principal, IAM role, and target account.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**principalRole**

The principal-to-role mapping details for the entitlement, including the target account.

Type: PrincipalRoleEntitlementDetails 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

# EntitlementFilter

Specifies filter criteria for listing entitlements.

## Contents

**principalRole**

The principal-to-role filter criteria for narrowing entitlement results.

Type: PrincipalRoleEntitlementFilter 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

# EntitlementsListMember

Contains information about an entitlement in a list result.

## Contents

**createdAt**

The date and time when the entitlement was created.

Type: Timestamp

Required: Yes

**entitlement**

The summary information for the entitlement.

Type: EntitlementSummary object

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

Required: Yes

**entitlementId**

The unique identifier of the entitlement.

Type: String

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

# EntitlementSummary

Contains summary information about an entitlement.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**principalRole**

The principal-to-role mapping summary for the entitlement.

Type: PrincipalRoleEntitlementSummary 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

# ErrorDetails

Contains information about an error that occurred during application processing.

## Contents

**code**

The error code that identifies the type of error.

Type: String

Valid Values: `AUTHORIZATION_ERROR | RESOURCE_NOT_FOUND_ERROR | SERVICE_QUOTA_EXCEEDED_ERROR | INTERNAL_SERVICE_ERROR`

Required: Yes

**message**

A human-readable message that describes the error.

Type: String

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

# IdentityCenter

Specifies the IAM Identity Center instance to use as the identity source for an application.

## Contents

**instanceArn**

The ARN of the IAM Identity Center instance.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 1224.

Pattern: `arn:[a-z0-9-]+:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

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

# IdentityCenterDetails

Contains detailed information about the IAM Identity Center configuration for an application.

## Contents

**instanceArn**

The ARN of the IAM Identity Center instance.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 1224.

Pattern: `arn:[a-z0-9-]+:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**applicationArn**

The ARN of the IAM Identity Center application created for this account access manager application. This property is not required or supported as input. It can be read after creation.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 1224.

Pattern: `arn:[a-z0-9-]+:sso::[0-9]{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

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

# IdentityCenterPrincipal

Identifies a user or group from IAM Identity Center.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**groupId**

The unique identifier of a group in IAM Identity Center.

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

**userId**

The unique identifier of a user in IAM Identity Center.

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

# IdentityCenterPrincipalFilter

Specifies filter criteria for an IAM Identity Center principal.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**groupId**

The unique identifier of a group in IAM Identity Center to filter by.

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

**userId**

The unique identifier of a user in IAM Identity Center to filter by.

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

# IdentitySource

Specifies the identity source for an account access manager application.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**identityCenter**

The IAM Identity Center instance to use as the identity source.

Type: IdentityCenter 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

# IdentitySourceDetails

Contains detailed information about the identity source for an application.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**identityCenter**

The IAM Identity Center configuration details for the identity source.

Type: IdentityCenterDetails 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

# Principal

Identifies a principal (user or group) that can be granted entitlements.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**identityCenter**

The IAM Identity Center principal (user or group).

Type: IdentityCenterPrincipal object

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

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

# PrincipalFilter

Specifies filter criteria for a principal.

## Contents

> **Important**
>
> This data type is a UNION, so only one of the following members can be specified when used or returned.

**identityCenter**

The IAM Identity Center principal filter criteria.

Type: IdentityCenterPrincipalFilter object

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

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

# PrincipalRoleEntitlement

Specifies a principal-to-role entitlement that grants an IAM Identity Center principal permission to assume an IAM role.

## Contents

**principal**

The principal (user or group) that is granted access to assume the IAM role.

Type: Principal object

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

Required: Yes

**roleArn**

The ARN of the IAM role that the principal can assume.

Type: String

Pattern: `arn:[a-z0-9-]+:iam::[0-9]{12}:role/([a-zA-Z0-9+=,.@_-]+/)*[a-zA-Z0-9+=,.@_-]+`

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

# PrincipalRoleEntitlementDetails

Contains detailed information about a principal-to-role entitlement, including the target account.

## Contents

**account**

The 12-digit AWS account ID where the IAM role resides.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

**principal**

The principal (user or group) that is granted access to assume the IAM role.

Type: Principal object

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

Required: Yes

**roleArn**

The ARN of the IAM role that the principal can assume.

Type: String

Pattern: `arn:[a-z0-9-]+:iam::[0-9]{12}:role/([a-zA-Z0-9+=,.@_-]+/)*[a-zA-Z0-9+=,.@_-]+`

Required: Yes

**accountName**

The friendly name of the AWS account where the IAM role resides.

Type: String

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# PrincipalRoleEntitlementFilter

Specifies filter criteria for principal-to-role entitlements. All specified criteria must match for an entitlement to be returned.

## Contents

**account**

The 12-digit AWS account ID to filter entitlements by.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: No

**principal**

The principal to filter entitlements by.

Type: PrincipalFilter object

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

Required: No

**roleArn**

The IAM role ARN to filter entitlements by.

Type: String

Pattern: `arn:[a-z0-9-]+:iam::[0-9]{12}:role/([a-zA-Z0-9+=,.@_-]+/)*[a-zA-Z0-9+=,.@_-]+`

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

# PrincipalRoleEntitlementSummary

Contains summary information about a principal-to-role entitlement.

## Contents

**account**

The 12-digit AWS account ID where the IAM role resides.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `[0-9]{12}`

Required: Yes

**principal**

The principal (user or group) that is granted access to assume the IAM role.

Type: Principal object

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

Required: Yes

**roleArn**

The ARN of the IAM role that the principal can assume.

Type: String

Pattern: `arn:[a-z0-9-]+:iam::[0-9]{12}:role/([a-zA-Z0-9+=,.@_-]+/)*[a-zA-Z0-9+=,.@_-]+`

Required: Yes

**accountName**

The friendly name of the AWS account where the IAM role resides.

Type: String

Required: No

## See Also

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

- AWS SDK for C++
- AWS SDK for Java V2
- AWS SDK for Ruby V3

# Common Parameters

The following list contains the parameters that all actions use for signing Signature Version 4 requests with a query string. Any action-specific parameters are listed in the topic for that action. For more information about Signature Version 4, see Signing AWS API requests in the *IAM User Guide*.

**X-Amz-Algorithm**

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

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

Type: string

Valid Values: `AWS4-HMAC-SHA256`

Required: Conditional

**X-Amz-Credential**

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

For more information, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

**X-Amz-Date**

The date that is used to create the signature. The format must be ISO 8601 basic format (YYYYMMDD'T'HHMMSS'Z'). For example, the following date time is a valid X-Amz-Date value: `20120325T120000Z`.

Condition: X-Amz-Date is optional for all requests; it can be used to override the date used for signing requests. If the Date header is specified in the ISO 8601 basic format, X-Amz-Date is not required. When X-Amz-Date is used, it always overrides the value of the Date header. For more information, see Elements of an AWS API request signature in the *IAM User Guide*.

Type: string

Required: Conditional

**X-Amz-Security-Token**

The temporary security token that was obtained through a call to AWS Security Token Service (AWS STS). For a list of services that support temporary security credentials from AWS STS, see AWS services that work with IAM in the *IAM User Guide*.

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

Type: string

Required: Conditional

**X-Amz-Signature**

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

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

Type: string

Required: Conditional

**X-Amz-SignedHeaders**

Specifies all the HTTP headers that were included as part of the canonical request. For more information about specifying signed headers, see Create a signed AWS API request in the *IAM User Guide*.

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

Type: string

Required: Conditional

# Common Error Types

This section lists common error types that this AWS service may return. Not all services return all error types listed here. For errors specific to an API action for this service, see the topic for that API action.

**AccessDeniedException**

You don't have permission to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 403

**ExpiredTokenException**

The security token included in the request has expired. Request a new security token and try again.

HTTP Status Code: 403

**IncompleteSignature**

The request signature doesn't conform to AWS standards. Verify that you're using valid AWS credentials and that your request is properly formatted. If you're using an SDK, ensure it's up to date.

HTTP Status Code: 403

**InternalFailure**

The request can't be processed right now because of an internal server issue. Try again later. If the problem persists, contact AWS Support.

HTTP Status Code: 500

**MalformedHttpRequestException**

The request body can't be processed. This typically happens when the request body can't be decompressed using the specified content encoding algorithm. Verify that the content encoding header matches the compression format used.

HTTP Status Code: 400

**NotAuthorized**

You don't have permissions to perform this action. Verify that your IAM policy includes the required permissions.

HTTP Status Code: 401

**OptInRequired**

Your AWS account needs a subscription for this service. Verify that you've enabled the service in your account.

HTTP Status Code: 403

**RequestAbortedException**

The request was aborted before a response could be returned. This typically happens when the client closes the connection.

HTTP Status Code: 400

**RequestEntityTooLargeException**

The request entity is too large. Reduce the size of the request body and try again.

HTTP Status Code: 413

**RequestTimeoutException**

The request timed out. The server didn't receive the complete request within the expected time frame. Try again.

HTTP Status Code: 408

**ServiceUnavailable**

The service is temporarily unavailable. Try again later.

HTTP Status Code: 503

**ThrottlingException**

Your request rate is too high. The AWS SDKs automatically retry requests that receive this exception. Reduce the frequency of requests.

HTTP Status Code: 400

**UnknownOperationException**

The action or operation isn't recognized. Verify that the action name is spelled correctly and that it's supported by the API version you're using.

HTTP Status Code: 404

**UnrecognizedClientException**

The X.509 certificate or AWS access key ID you provided doesn't exist in our records. Verify that you're using valid credentials and that they haven't expired.

HTTP Status Code: 403

**ValidationError**

The input doesn't meet the required format or constraints. Check that all required parameters are included and that values are valid.

HTTP Status Code: 400