aws

IAM Identity Center API Reference

# IAM Identity Center



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# IAM Identity Center: IAM Identity Center API Reference

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# Welcome

AWS IAM Identity Center is the AWS solution for connecting your workforce users to AWS managed applications and other AWS resources. You can connect your existing identity provider and synchronize users and groups from your directory, or create and manage your users directly in IAM Identity Center. You can then use IAM Identity Center for either or both of the following:

- User access to applications
- User access to AWS accounts

This guide provides information about single sign-on operations that you can use for access to applications and AWS accounts. For information about IAM Identity Center features, see the IAM Identity Center User Guide.

**Note**

IAM Identity Center uses the `sso` and `identitystore` API namespaces.

Many API operations for IAM Identity Center rely on identifiers for users and groups, known as principals. For more information about how to work with principals and principal IDs in IAM Identity Center, see the Identity Store API Reference.

**Note**

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 create programmatic access to IAM Identity Center and other AWS services. For more information about the AWS SDKs, including how to download and install them, see Tools for Amazon Web Services.

This document was last published on November 14, 2026.

# Actions

The following actions are supported:

- AddRegion
- AttachCustomerManagedPolicyReferenceToPermissionSet
- AttachManagedPolicyToPermissionSet
- CreateAccountAssignment
- CreateApplication
- CreateApplicationAssignment
- CreateInstance
- CreateInstanceAccessControlAttributeConfiguration
- CreatePermissionSet
- CreateTrustedTokenIssuer
- DeleteAccountAssignment
- DeleteApplication
- DeleteApplicationAccessScope
- DeleteApplicationAssignment
- DeleteApplicationAuthenticationMethod
- DeleteApplicationGrant
- DeleteInlinePolicyFromPermissionSet
- DeleteInstance
- DeleteInstanceAccessControlAttributeConfiguration
- DeletePermissionsBoundaryFromPermissionSet
- DeletePermissionSet
- DeleteTrustedTokenIssuer
- DescribeAccountAssignmentCreationStatus
- DescribeAccountAssignmentDeletionStatus
- DescribeApplication
- DescribeApplicationAssignment
- DescribeApplicationProvider

- DescribeInstance
- DescribeInstanceAccessControlAttributeConfiguration
- DescribePermissionSet
- DescribePermissionSetProvisioningStatus
- DescribeRegion
- DescribeTrustedTokenIssuer
- DetachCustomerManagedPolicyReferenceFromPermissionSet
- DetachManagedPolicyFromPermissionSet
- GetApplicationAccessScope
- GetApplicationAssignmentConfiguration
- GetApplicationAuthenticationMethod
- GetApplicationGrant
- GetApplicationSessionConfiguration
- GetInlinePolicyForPermissionSet
- GetPermissionsBoundaryForPermissionSet
- ListAccountAssignmentCreationStatus
- ListAccountAssignmentDeletionStatus
- ListAccountAssignments
- ListAccountAssignmentsForPrincipal
- ListAccountsForProvisionedPermissionSet
- ListApplicationAccessScopes
- ListApplicationAssignments
- ListApplicationAssignmentsForPrincipal
- ListApplicationAuthenticationMethods
- ListApplicationGrants
- ListApplicationProviders
- ListApplications
- ListCustomerManagedPolicyReferencesInPermissionSet
- ListInstances
- ListManagedPoliciesInPermissionSet

- ListPermissionSetProvisioningStatus
- ListPermissionSets
- ListPermissionSetsProvisionedToAccount
- ListRegions
- ListTagsForResource
- ListTrustedTokenIssuers
- ProvisionPermissionSet
- PutApplicationAccessScope
- PutApplicationAssignmentConfiguration
- PutApplicationAuthenticationMethod
- PutApplicationGrant
- PutApplicationSessionConfiguration
- PutInlinePolicyToPermissionSet
- PutPermissionsBoundaryToPermissionSet
- RemoveRegion
- TagResource
- UntagResource
- UpdateApplication
- UpdateInstance
- UpdateInstanceAccessControlAttributeConfiguration
- UpdatePermissionSet
- UpdateTrustedTokenIssuer

# AddRegion

Adds a Region to an IAM Identity Center instance. This operation initiates an asynchronous workflow to replicate the IAM Identity Center instance to the target Region. The Region status is set to ADDING at first and changes to ACTIVE when the workflow completes.

To use this operation, your IAM Identity Center instance and the target Region must meet the requirements described in the IAM Identity Center User Guide.

The following actions are related to `AddRegion`:

- RemoveRegion
- DescribeRegion
- ListRegions

## Request Syntax

```
{
   "InstanceArn": "string",
   "RegionName": "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.

**InstanceArn**

The Amazon Resource Name (ARN) of the IAM Identity Center instance to replicate to the target Region.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**RegionName**

The name of the AWS Region to add to the IAM Identity Center instance. The Region name must be 1-32 characters long and follow the pattern of AWS Region names (for example, us-east-1).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `([a-z]+-){2,3}\d`

Required: Yes

## Response Syntax

```
{
   "Status": "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.

**Status**

The status of the Region after the Add operation. The status is ADDING when the asynchronous workflow is in progress and changes to ACTIVE when complete.

Type: String

Valid Values: `ACTIVE | ADDING | REMOVING`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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

HTTP Status Code: 500

**ServiceQuotaExceededException**

Indicates that the principal has crossed the permitted number of resources that can be created.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# AttachCustomerManagedPolicyReferenceToPermissionSet

Attaches the specified customer managed policy to the specified PermissionSet.

## Request Syntax

```
{
   "CustomerManagedPolicyReference": {
      "Name": "string",
      "Path": "string"
   },
   "InstanceArn": "string",
   "PermissionSetArn": "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.

**CustomerManagedPolicyReference**

Specifies the name and path of a customer managed policy. You must have an IAM policy that matches the name and path in each AWS account where you want to deploy your permission set.

Type: CustomerManagedPolicyReference object

Required: Yes

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionSetArn**

The ARN of the `PermissionSet`.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ServiceQuotaExceededException**

Indicates that the principal has crossed the permitted number of resources that can be created.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# AttachManagedPolicyToPermissionSet

Attaches an AWS managed policy ARN to a permission set.

> **Note**
>
> If the permission set is already referenced by one or more account assignments, you will need to call `ProvisionPermissionSet` after this operation. Calling `ProvisionPermissionSet` applies the corresponding IAM policy updates to all assigned accounts.

## Request Syntax

```
{
   "InstanceArn": "string",
   "ManagedPolicyArn": "string",
   "PermissionSetArn": "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.

### InstanceArn

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**ManagedPolicyArn**

The AWS managed policy ARN to be attached to a permission set.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:iam::aws:policy((/[A-Za-z0-9\.,\+@=_-]+)*)/([A-Za-z0-9\.,\+=@_-]+)`

Required: Yes

**PermissionSetArn**

The ARN of the PermissionSet that the managed policy should be attached to.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ServiceQuotaExceededException**

Indicates that the principal has crossed the permitted number of resources that can be created.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# CreateAccountAssignment

Assigns access to a principal for a specified AWS account using a specified permission set.

> **Note**
>
> The term *principal* here refers to a user or group that is defined in IAM Identity Center.

> **Note**
>
> As part of a successful `CreateAccountAssignment` call, the specified permission set will automatically be provisioned to the account in the form of an IAM policy. That policy is attached to the IAM role created in IAM Identity Center. If the permission set is subsequently updated, the corresponding IAM policies attached to roles in your accounts will not be updated automatically. In this case, you must call `ProvisionPermissionSet` to make these updates.

> **Note**
>
> After a successful response, call `DescribeAccountAssignmentCreationStatus` to describe the status of an assignment creation request.

## Request Syntax

```
{
   "InstanceArn": "string",
   "PermissionSetArn": "string",
   "PrincipalId": "string",
   "PrincipalType": "string",
   "TargetId": "string",
   "TargetType": "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.

### InstanceArn

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

### PermissionSetArn

The ARN of the permission set that the admin wants to grant the principal access to.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

### PrincipalId

An identifier for an object in IAM Identity Center, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in IAM Identity Center, see the IAM Identity Center Identity Store API Reference.

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

### PrincipalType

The entity type for which the assignment will be created.

Type: String

Valid Values: `USER | GROUP`

Required: Yes

### TargetId

TargetID is an AWS account identifier, (For example, 123456789012).

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: Yes

### TargetType

The entity type for which the assignment will be created.

Type: String

Valid Values: `AWS_ACCOUNT`

Required: Yes

## Response Syntax

```
{
   "AccountAssignmentCreationStatus": {
      "CreatedDate": number,
      "FailureReason": "string",
      "PermissionSetArn": "string",
      "PrincipalId": "string",
      "PrincipalType": "string",
      "RequestId": "string",
      "Status": "string",
```

```
        "TargetId": "string",
        "TargetType": "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.

**AccountAssignmentCreationStatus**

The status object for the account assignment creation operation.

Type: AccountAssignmentOperationStatus object

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ServiceQuotaExceededException**

Indicates that the principal has crossed the permitted number of resources that can be created.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# CreateApplication

Creates an OAuth 2.0 customer managed application in IAM Identity Center for the given application provider.

> **Note**
>
> This API does not support creating SAML 2.0 customer managed applications or AWS managed applications. To learn how to create an AWS managed application, see the application user guide. You can create a SAML 2.0 customer managed application in the AWS Management Console only. See Setting up customer managed SAML 2.0 applications. For more information on these application types, see AWS managed applications.

## Request Syntax

```
{
   "ApplicationProviderArn": "string",
   "ClientToken": "string",
   "Description": "string",
   "InstanceArn": "string",
   "Name": "string",
   "PortalOptions": {
      "SignInOptions": {
         "ApplicationUrl": "string",
         "Origin": "string"
      },
      "Visibility": "string"
   },
   "Status": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "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.

**ApplicationProviderArn**

The ARN of the application provider under which the operation will run.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::aws:applicationProvider/[a-zA-Z0-9-/]+`

Required: Yes

**ClientToken**

Specifies a unique, case-sensitive ID that you provide to ensure the idempotency of the request. This lets you safely retry the request without accidentally performing the same operation a second time. Passing the same value to a later call to an operation requires that you also pass the same value for all other parameters. We recommend that you use a UUID type of value.

If you don't provide this value, then AWS generates a random one for you.

If you retry the operation with the same `ClientToken`, but with different parameters, the retry fails with an `IdempotentParameterMismatch` error.

Type: String

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

Pattern: `[!-~]+`

Required: No

**Description**

The description of the Application.

Type: String

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

Required: No

**InstanceArn**

The ARN of the instance of IAM Identity Center under which the operation will run. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**Name**

The name of the Application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\S\s]*`

Required: Yes

**PortalOptions**

A structure that describes the options for the portal associated with an application.

Type: PortalOptions object

Required: No

**Status**

Specifies whether the application is enabled or disabled.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

**Tags**

Specifies tags to be attached to the application.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 75 items.

Required: No

## Response Syntax

```
{
   "ApplicationArn": "string",
   "IdentityStoreArn": "string",
   "InstanceArn": "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**

Specifies the ARN of the application.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

**IdentityStoreArn**

The ARN of the identity store that is connected to the instance of IAM Identity Center.

Type: String

**InstanceArn**

The ARN of the instance of IAM Identity Center under which the operation will run. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ServiceQuotaExceededException**

Indicates that the principal has crossed the permitted number of resources that can be created.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# CreateApplicationAssignment

Grant application access to a user or group.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "PrincipalId": "string",
   "PrincipalType": "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.

**ApplicationArn**

The ARN of the application for which the assignment is created.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**PrincipalId**

An identifier for an object in IAM Identity Center, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in IAM Identity Center, see the IAM Identity Center Identity Store API Reference.

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

**PrincipalType**

The entity type for which the assignment will be created.

Type: String

Valid Values: USER | GROUP

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ServiceQuotaExceededException**

Indicates that the principal has crossed the permitted number of resources that can be created.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# CreateInstance

Creates an instance of IAM Identity Center for a standalone AWS account that is not managed by AWS Organizations or a member AWS account in an organization. You can create only one instance per account and across all AWS Regions.

The CreateInstance request is rejected if the following apply:

- The instance is created within the organization management account.
- An instance already exists in the same account.

## Request Syntax

```
{
   "ClientToken": "string",
   "Name": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "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.

### ClientToken

Specifies a unique, case-sensitive ID that you provide to ensure the idempotency of the request. This lets you safely retry the request without accidentally performing the same operation a second time. Passing the same value to a later call to an operation requires that you also pass the same value for all other parameters. We recommend that you use a UUID type of value.

If you don't provide this value, then AWS generates a random one for you.

If you retry the operation with the same `ClientToken`, but with different parameters, the retry fails with an `IdempotentParameterMismatch` error.

Type: String

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

Pattern: `[!-~]+`

Required: No

**Name**

The name of the instance of IAM Identity Center.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\w+=,.@-]+`

Required: No

**Tags**

Specifies tags to be attached to the instance of IAM Identity Center.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 75 items.

Required: No

## Response Syntax

```
{
   "InstanceArn": "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.

**InstanceArn**

The ARN of the instance of IAM Identity Center under which the operation will run.

For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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

HTTP Status Code: 500

**ServiceQuotaExceededException**

Indicates that the principal has crossed the permitted number of resources that can be created.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# CreateInstanceAccessControlAttributeConfiguration

Enables the attributes-based access control (ABAC) feature for the specified IAM Identity Center instance. You can also specify new attributes to add to your ABAC configuration during the enabling process. For more information about ABAC, see Attribute-Based Access Control in the *IAM Identity Center User Guide*.

> **Note**
>
> After a successful response, call `DescribeInstanceAccessControlAttributeConfiguration` to validate that `InstanceAccessControlAttributeConfiguration` was created.

## Request Syntax

```
{
   "InstanceAccessControlAttributeConfiguration": {
      "AccessControlAttributes": [
         {
            "Key": "string",
            "Value": {
               "Source": [ "string" ]
            }
         }
      ]
   },
   "InstanceArn": "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.

**InstanceAccessControlAttributeConfiguration**

Specifies the IAM Identity Center identity store attributes to add to your ABAC configuration. When using an external identity provider as an identity source, you can pass attributes through

the SAML assertion. Doing so provides an alternative to configuring attributes from the IAM Identity Center identity store. If a SAML assertion passes any of these attributes, IAM Identity Center will replace the attribute value with the value from the IAM Identity Center identity store.

Type: InstanceAccessControlAttributeConfiguration object

Required: Yes

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# CreatePermissionSet

Creates a permission set within a specified IAM Identity Center instance.

> **Note**
>
> To grant users and groups access to AWS account resources, use `CreateAccountAssignment` .

## Request Syntax

```
{
   "Description": "string",
   "InstanceArn": "string",
   "Name": "string",
   "RelayState": "string",
   "SessionDuration": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "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

The description of the PermissionSet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 700.

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]*`

Required: No

### InstanceArn

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

### Name

The name of the PermissionSet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `[\w+=,.@-]+`

Required: Yes

### RelayState

Used to redirect users within the application during the federation authentication process.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Pattern: `[a-zA-Z0-9&$@#\\\/%?=~\-_'"|!:,.;*+\[\]\ \(\)\{\}]+`

Required: No

### SessionDuration

The length of time that the application user sessions are valid in the ISO-8601 standard.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(-?)P(?=\d|T\d)(?:(\d+)Y)?(?:(\d+)M)?(?:(\d+)([DW]))?(?:T(?:(\d+)H)?(?:(\d+)M)?(?:(\d+(?:\.\d+)?)S)?)?`

Required: No

**Tags**

The tags to attach to the new PermissionSet.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 75 items.

Required: No

## Response Syntax

```
{
   "PermissionSet": {
      "CreatedDate": number,
      "Description": "string",
      "Name": "string",
      "PermissionSetArn": "string",
      "RelayState": "string",
      "SessionDuration": "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.

**PermissionSet**

Defines the level of access on an AWS account.

Type: PermissionSet object

# Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ServiceQuotaExceededException**

Indicates that the principal has crossed the permitted number of resources that can be created.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# CreateTrustedTokenIssuer

Creates a connection to a trusted token issuer in an instance of IAM Identity Center. A trusted token issuer enables trusted identity propagation to be used with applications that authenticate outside of AWS.

This trusted token issuer describes an external identity provider (IdP) that can generate claims or assertions in the form of access tokens for a user. Applications enabled for IAM Identity Center can use these tokens for authentication.

## Request Syntax

```
{
   "ClientToken": "string",
   "InstanceArn": "string",
   "Name": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "string"
      }
   ],
   "TrustedTokenIssuerConfiguration": { ... },
   "TrustedTokenIssuerType": "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.

### ClientToken

Specifies a unique, case-sensitive ID that you provide to ensure the idempotency of the request. This lets you safely retry the request without accidentally performing the same operation a second time. Passing the same value to a later call to an operation requires that you also pass the same value for all other parameters. We recommend that you use a UUID type of value..

If you don't provide this value, then AWS generates a random one for you.

If you retry the operation with the same `ClientToken`, but with different parameters, the retry fails with an `IdempotentParameterMismatch` error.

Type: String

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

Pattern: `[!-~]+`

Required: No

**InstanceArn**

Specifies the ARN of the instance of IAM Identity Center to contain the new trusted token issuer configuration.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**Name**

Specifies the name of the new trusted token issuer configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\w+=,.@-]+`

Required: Yes

**Tags**

Specifies tags to be attached to the new trusted token issuer configuration.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 75 items.

Required: No

**TrustedTokenIssuerConfiguration**

Specifies settings that apply to the new trusted token issuer configuration. The settings that are available depend on what `TrustedTokenIssuerType` you specify.

Type: TrustedTokenIssuerConfiguration object

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

Required: Yes

**TrustedTokenIssuerType**

Specifies the type of the new trusted token issuer.

Type: String

Valid Values: `OIDC_JWT`

Required: Yes

## Response Syntax

```
{
   "TrustedTokenIssuerArn": "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.

**TrustedTokenIssuerArn**

The ARN of the new trusted token issuer configuration.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:trustedTokenIssuer/(sso)?ins-[a-zA-Z0-9-.]{16}/tti-[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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

HTTP Status Code: 500

**ServiceQuotaExceededException**

Indicates that the principal has crossed the permitted number of resources that can be created.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DeleteAccountAssignment

Deletes a principal's access from a specified AWS account using a specified permission set.

> **Note**
>
> After a successful response, call `DescribeAccountAssignmentDeletionStatus` to describe the status of an assignment deletion request.

## Request Syntax

```
{
   "InstanceArn": "string",
   "PermissionSetArn": "string",
   "PrincipalId": "string",
   "PrincipalType": "string",
   "TargetId": "string",
   "TargetType": "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.

### InstanceArn

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

### PermissionSetArn

The ARN of the permission set that will be used to remove access.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

### PrincipalId

An identifier for an object in IAM Identity Center, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in IAM Identity Center, see the IAM Identity Center Identity Store API Reference.

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

### PrincipalType

The entity type for which the assignment will be deleted.

Type: String

Valid Values: `USER | GROUP`

Required: Yes

### TargetId

TargetID is an AWS account identifier, (For example, 123456789012).

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d{12}

Required: Yes

**TargetType**

The entity type for which the assignment will be deleted.

Type: String

Valid Values: AWS_ACCOUNT

Required: Yes

## Response Syntax

```
{
   "AccountAssignmentDeletionStatus": {
      "CreatedDate": number,
      "FailureReason": "string",
      "PermissionSetArn": "string",
      "PrincipalId": "string",
      "PrincipalType": "string",
      "RequestId": "string",
      "Status": "string",
      "TargetId": "string",
      "TargetType": "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.

**AccountAssignmentDeletionStatus**

The status object for the account assignment deletion operation.

Type: AccountAssignmentOperationStatus object

# Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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 the association with the application. The connected service resource still exists.

## Request Syntax

```
{
   "ApplicationArn": "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.

### ApplicationArn

Specifies the ARN of the application. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

## Response Elements

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

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DeleteApplicationAccessScope

Deletes an IAM Identity Center access scope from an application.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "Scope": "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.

### ApplicationArn

Specifies the ARN of the application with the access scope to delete.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

### Scope

Specifies the name of the access scope to remove from the application.

Type: String

Pattern: `([A-Za-z0-9_]{1,50})(:[A-Za-z0-9_]{1,50}){0,1}(:[A-Za-z0-9_]{1,50}){0,1}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DeleteApplicationAssignment

Revoke application access to an application by deleting application assignments for a user or group.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "PrincipalId": "string",
   "PrincipalType": "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.

**ApplicationArn**

Specifies the ARN of the application.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**PrincipalId**

An identifier for an object in IAM Identity Center, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in IAM Identity Center, see the IAM Identity Center Identity Store API Reference.

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

**PrincipalType**

The entity type for which the assignment will be deleted.

Type: String

Valid Values: `USER | GROUP`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DeleteApplicationAuthenticationMethod

Deletes an authentication method from an application.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "AuthenticationMethodType": "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.

**ApplicationArn**

Specifies the ARN of the application with the authentication method to delete.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**AuthenticationMethodType**

Specifies the authentication method type to delete from the application.

Type: String

Valid Values: `IAM`

Required: Yes

## Response Elements

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

# Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DeleteApplicationGrant

Deletes a grant from an application.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "GrantType": "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.

**ApplicationArn**

Specifies the ARN of the application with the grant to delete.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**GrantType**

Specifies the type of grant to delete from the application.

Type: String

Valid Values: `authorization_code | refresh_token | urn:ietf:params:oauth:grant-type:jwt-bearer | urn:ietf:params:oauth:grant-type:token-exchange`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DeleteInlinePolicyFromPermissionSet

Deletes the inline policy from a specified permission set.

## Request Syntax

```
{
   "InstanceArn": "string",
   "PermissionSetArn": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionSetArn**

The ARN of the permission set that will be used to remove access.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DeleteInstance

Deletes the instance of IAM Identity Center. Only the account that owns the instance can call this API. Neither the delegated administrator nor member account can delete the organization instance, but those roles can delete their own instance.

## Request Syntax

```
{
   "InstanceArn": "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.

**InstanceArn**

The ARN of the instance of IAM Identity Center under which the operation will run.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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

HTTP Status Code: 500

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DeleteInstanceAccessControlAttributeConfiguration

Disables the attributes-based access control (ABAC) feature for the specified IAM Identity Center instance and deletes all of the attribute mappings that have been configured. Once deleted, any attributes that are received from an identity source and any custom attributes you have previously configured will not be passed. For more information about ABAC, see Attribute-Based Access Control in the *IAM Identity Center User Guide*.

## Request Syntax

```
{
   "InstanceArn": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DeletePermissionsBoundaryFromPermissionSet

Deletes the permissions boundary from a specified PermissionSet.

## Request Syntax

```
{
   "InstanceArn": "string",
   "PermissionSetArn": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionSetArn**

The ARN of the `PermissionSet`.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DeletePermissionSet

Deletes the specified permission set.

## Request Syntax

```
{
   "InstanceArn": "string",
   "PermissionSetArn": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionSetArn**

The ARN of the permission set that should be deleted.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DeleteTrustedTokenIssuer

Deletes a trusted token issuer configuration from an instance of IAM Identity Center.

> **Note**
>
> Deleting this trusted token issuer configuration will cause users to lose access to any applications that are configured to use the trusted token issuer.

## Request Syntax

```
{
   "TrustedTokenIssuerArn": "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.

**TrustedTokenIssuerArn**

Specifies the ARN of the trusted token issuer configuration to delete.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:trustedTokenIssuer/(sso)?ins-[a-zA-Z0-9-.]{16}/tti-[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

## Response Elements

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

# Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DescribeAccountAssignmentCreationStatus

Describes the status of the assignment creation request.

## Request Syntax

```
{
   "AccountAssignmentCreationRequestId": "string",
   "InstanceArn": "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.

**AccountAssignmentCreationRequestId**

The identifier that is used to track the request operation progress.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `\b[0-9a-f]{8}\b-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-\b[0-9a-f]{12}\b`

Required: Yes

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

## Response Syntax

```
{
   "AccountAssignmentCreationStatus": {
      "CreatedDate": number,
      "FailureReason": "string",
      "PermissionSetArn": "string",
      "PrincipalId": "string",
      "PrincipalType": "string",
      "RequestId": "string",
      "Status": "string",
      "TargetId": "string",
      "TargetType": "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.

**AccountAssignmentCreationStatus**

The status object for the account assignment creation operation.

Type: AccountAssignmentOperationStatus object

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DescribeAccountAssignmentDeletionStatus

Describes the status of the assignment deletion request.

## Request Syntax

```
{
   "AccountAssignmentDeletionRequestId": "string",
   "InstanceArn": "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.

**AccountAssignmentDeletionRequestId**

The identifier that is used to track the request operation progress.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `\b[0-9a-f]{8}\b-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-\b[0-9a-f]{12}\b`

Required: Yes

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

## Response Syntax

```
{
   "AccountAssignmentDeletionStatus": {
      "CreatedDate": number,
      "FailureReason": "string",
      "PermissionSetArn": "string",
      "PrincipalId": "string",
      "PrincipalType": "string",
      "RequestId": "string",
      "Status": "string",
      "TargetId": "string",
      "TargetType": "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.

**AccountAssignmentDeletionStatus**

The status object for the account assignment deletion operation.

Type: AccountAssignmentOperationStatus object

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DescribeApplication

Retrieves the details of an application associated with an instance of IAM Identity Center.

## Request Syntax

```
{
   "ApplicationArn": "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.

### ApplicationArn

Specifies the ARN of the application. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

## Response Syntax

```
{
   "ApplicationAccount": "string",
   "ApplicationArn": "string",
   "ApplicationProviderArn": "string",
   "CreatedDate": number,
   "CreatedFrom": "string",
   "Description": "string",
   "IdentityStoreArn": "string",
```

```
   "InstanceArn": "string",
   "Name": "string",
   "PortalOptions": {
      "SignInOptions": {
         "ApplicationUrl": "string",
         "Origin": "string"
      },
      "Visibility": "string"
   },
   "Status": "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.

### ApplicationAccount

The account ID.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

### ApplicationArn

Specifies the ARN of the application.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

### ApplicationProviderArn

The ARN of the application provider under which the operation will run.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::aws:applicationProvider/[a-zA-Z0-9-/]+`

**CreatedDate**

The date the application was created.

Type: Timestamp

**CreatedFrom**

The AWS Region where the application was created in IAM Identity Center.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `([a-z]+-){2,3}\d`

**Description**

The description of the Application.

Type: String

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

**IdentityStoreArn**

The ARN of the identity store that is connected to the instance of IAM Identity Center.

Type: String

**InstanceArn**

The ARN of the IAM Identity Center application under which the operation will run. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

**Name**

The application name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\S\s]*`

**PortalOptions**

A structure that describes the options for the portal associated with an application.

Type: PortalOptions object

**Status**

Specifies whether the application is enabled or disabled.

Type: String

Valid Values: `ENABLED | DISABLED`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DescribeApplicationAssignment

Retrieves a direct assignment of a user or group to an application. If the user doesn't have a direct assignment to the application, the user may still have access to the application through a group. Therefore, don't use this API to test access to an application for a user. Instead use ListApplicationAssignmentsForPrincipal.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "PrincipalId": "string",
   "PrincipalType": "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.

**ApplicationArn**

Specifies the ARN of the application. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**PrincipalId**

An identifier for an object in IAM Identity Center, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in IAM Identity Center, see the IAM Identity Center Identity Store API Reference.

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

**PrincipalType**

The entity type for which the assignment will be created.

Type: String

Valid Values: `USER | GROUP`

Required: Yes

## Response Syntax

```
{
   "ApplicationArn": "string",
   "PrincipalId": "string",
   "PrincipalType": "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**

Specifies the ARN of the application. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

**PrincipalId**

An identifier for an object in IAM Identity Center, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in IAM Identity Center, see the IAM Identity Center Identity Store API Reference.

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}`

**PrincipalType**

The entity type for which the assignment will be created.

Type: String

Valid Values: `USER | GROUP`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DescribeApplicationProvider

Retrieves details about a provider that can be used to connect an AWS managed application or customer managed application to IAM Identity Center.

## Request Syntax

```
{
   "ApplicationProviderArn": "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.

### ApplicationProviderArn

Specifies the ARN of the application provider for which you want details.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::aws:applicationProvider/[a-zA-Z0-9-/]+`

Required: Yes

## Response Syntax

```
{
   "ApplicationProviderArn": "string",
   "DisplayData": {
      "Description": "string",
      "DisplayName": "string",
      "IconUrl": "string"
   },
   "FederationProtocol": "string",
```

```
   "ResourceServerConfig": {
      "Scopes": {
         "string" : {
            "DetailedTitle": "string",
            "LongDescription": "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.

### ApplicationProviderArn

The ARN of the application provider.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::aws:applicationProvider/[a-zA-Z0-9-/]+`

### DisplayData

A structure with details about the display data for the application provider.

Type: DisplayData object

### FederationProtocol

The protocol used to federate to the application provider.

Type: String

Valid Values: `SAML | OAUTH`

### ResourceServerConfig

A structure with details about the receiving application.

Type: ResourceServerConfig object

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DescribeInstance

Returns the details of an instance of IAM Identity Center. The status can be one of the following:

- `CREATE_IN_PROGRESS` - The instance is in the process of being created. When the instance is ready for use, DescribeInstance returns the status of `ACTIVE`. While the instance is in the `CREATE_IN_PROGRESS` state, you can call only DescribeInstance and DeleteInstance operations.
- `DELETE_IN_PROGRESS` - The instance is being deleted. Returns `AccessDeniedException` after the delete operation completes.
- `ACTIVE` - The instance is active.

## Request Syntax

```
{
   "InstanceArn": "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.

**InstanceArn**

The ARN of the instance of IAM Identity Center under which the operation will run.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

## Response Syntax

```
{
```

```
   "CreatedDate": number,
   "EncryptionConfigurationDetails": {
      "EncryptionStatus": "string",
      "EncryptionStatusReason": "string",
      "KeyType": "string",
      "KmsKeyArn": "string"
   },
   "IdentityStoreArn": "string",
   "IdentityStoreId": "string",
   "InstanceArn": "string",
   "Name": "string",
   "NetworkConfigurationDetails": {
      "AllowSourceIps": [ "string" ],
      "ExcludeApplicationArns": [ "string" ],
      "RestrictSourceVpcs": [ "string" ],
      "VpceAccessRequired": boolean
   },
   "OwnerAccountId": "string",
   "PermissionSetsEnabled": boolean,
   "PrimaryRegion": "string",
   "Regions": [
      {
         "AddedDate": number,
         "IsPrimaryRegion": boolean,
         "RegionName": "string",
         "Status": "string"
      }
   ],
   "Status": "string",
   "StatusReason": "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.

### CreatedDate

The date the instance was created.

Type: Timestamp

### EncryptionConfigurationDetails

Contains the encryption configuration for your IAM Identity Center instance, including the encryption status, KMS key type, and KMS key ARN.

Type: EncryptionConfigurationDetails object

### IdentityStoreArn

The ARN of the identity store that is connected to the instance of IAM Identity Center.

Type: String

Length Constraints: Minimum length of 62. Maximum length of 93.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:identitystore::\d{12}:identitystore/(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})`

### IdentityStoreId

The identifier of the identity store that is connected to the instance of IAM Identity Center.

Type: String

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

Pattern: `[a-zA-Z0-9-]*`

### InstanceArn

The ARN of the instance of IAM Identity Center under which the operation will run. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

### Name

Specifies the instance name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\w+=,.@-]+`

**NetworkConfigurationDetails**

The network access controls configured for your Identity Center instance, including whether VPC endpoint access is required, and any VPC, IP address range, or application controls applied to instance traffic. Present only after a network configuration has been set on the instance.

Type: NetworkConfigurationInfo object

**OwnerAccountId**

The identifier of the AWS account for which the instance was created.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

**PermissionSetsEnabled**

Indicates whether permission sets are enabled for this Identity Center instance.

Type: Boolean

**PrimaryRegion**

The primary Region where the IAM Identity Center instance was originally enabled. The primary Region cannot be removed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `([a-z]+-){2,3}\d`

**Regions**

The list of Regions enabled in the IAM Identity Center instance, including Regions with ACTIVE, ADDING, or REMOVING status.

Type: Array of RegionMetadata objects

**Status**

The status of the instance.

Type: String

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

**StatusReason**

Provides additional context about the current status of the IAM Identity Center instance. This field is particularly useful when an instance is in a non-ACTIVE state, such as CREATE_FAILED. When an instance fails to create or update, this field contains information about the cause, which may include issues with KMS key configuration, permission problems with the specified KMS key, or service-related errors.

Type: String

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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

HTTP Status Code: 500

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DescribeInstanceAccessControlAttributeConfiguration

Returns the list of IAM Identity Center identity store attributes that have been configured to work with attributes-based access control (ABAC) for the specified IAM Identity Center instance. This will not return attributes configured and sent by an external identity provider. For more information about ABAC, see Attribute-Based Access Control in the *IAM Identity Center User Guide*.

## Request Syntax

```
{
   "InstanceArn": "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.

### InstanceArn

The ARN of the IAM Identity Center instance under which the operation will be executed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

## Response Syntax

```
{
   "InstanceAccessControlAttributeConfiguration": {
      "AccessControlAttributes": [
         {
            "Key": "string",
            "Value": {
```

```
                "Source": [ "string" ]
            }
         }
      ]
   },
   "Status": "string",
   "StatusReason": "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.

**InstanceAccessControlAttributeConfiguration**

Gets the list of IAM Identity Center identity store attributes that have been added to your ABAC configuration.

Type: InstanceAccessControlAttributeConfiguration object

**Status**

The status of the attribute configuration process.

Type: String

Valid Values: `ENABLED | CREATION_IN_PROGRESS | CREATION_FAILED`

**StatusReason**

Provides more details about the current status of the specified attribute.

Type: String

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DescribePermissionSet

Gets the details of the permission set.

## Request Syntax

```
{
   "InstanceArn": "string",
   "PermissionSetArn": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionSetArn**

The ARN of the permission set.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Syntax

```
{
   "PermissionSet": {
      "CreatedDate": number,
      "Description": "string",
      "Name": "string",
      "PermissionSetArn": "string",
      "RelayState": "string",
      "SessionDuration": "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.

**PermissionSet**

Describes the level of access on an AWS account.

Type: PermissionSet object

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DescribePermissionSetProvisioningStatus

Describes the status for the given permission set provisioning request.

## Request Syntax

```
{
   "InstanceArn": "string",
   "ProvisionPermissionSetRequestId": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**ProvisionPermissionSetRequestId**

The identifier that is provided by the ProvisionPermissionSet call to retrieve the current status of the provisioning workflow.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `\b[0-9a-f]{8}\b-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-\b[0-9a-f]{12}\b`

Required: Yes

## Response Syntax

```
{
   "PermissionSetProvisioningStatus": {
      "AccountId": "string",
      "CreatedDate": number,
      "FailureReason": "string",
      "PermissionSetArn": "string",
      "RequestId": "string",
      "Status": "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.

**PermissionSetProvisioningStatus**

The status object for the permission set provisioning operation.

Type: PermissionSetProvisioningStatus object

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DescribeRegion

Retrieves details about a specific Region enabled in an IAM Identity Center instance. Details include the Region name, current status (ACTIVE, ADDING, or REMOVING), the date when the Region was added, and whether it is the primary Region. The request must be made from one of the enabled Regions of the IAM Identity Center instance.

The following actions are related to `DescribeRegion`:

- AddRegion
- RemoveRegion
- ListRegions

## Request Syntax

```
{
   "InstanceArn": "string",
   "RegionName": "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.

**InstanceArn**

The Amazon Resource Name (ARN) of the IAM Identity Center instance.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

### RegionName

The name of the AWS Region to retrieve information about. The Region name must be 1-32 characters long and follow the pattern of AWS Region names (for example, us-east-1).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `([a-z]+-){2,3}\d`

Required: Yes

## Response Syntax

```
{
   "AddedDate": number,
   "IsPrimaryRegion": boolean,
   "RegionName": "string",
   "Status": "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.

### AddedDate

The timestamp when the Region was added to the IAM Identity Center instance. For the primary Region, this is the IAM Identity Center instance creation time.

Type: Timestamp

### IsPrimaryRegion

Indicates whether this is the primary Region where the IAM Identity Center instance was originally enabled. For more information on the difference between the primary Region and additional Regions, see IAM Identity Center User Guide

Type: Boolean

**RegionName**

The AWS Region name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `([a-z]+-){2,3}\d`

**Status**

The current status of the Region. Valid values are ACTIVE (Region is operational), ADDING (Region replication workflow is in progress), or REMOVING (Region removal workflow is in progress).

Type: String

Valid Values: `ACTIVE | ADDING | REMOVING`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DescribeTrustedTokenIssuer

Retrieves details about a trusted token issuer configuration stored in an instance of IAM Identity Center. Details include the name of the trusted token issuer, the issuer URL, and the path of the source attribute and the destination attribute for a trusted token issuer configuration.

## Request Syntax

```
{
   "TrustedTokenIssuerArn": "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.

**TrustedTokenIssuerArn**

Specifies the ARN of the trusted token issuer configuration that you want details about.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:trustedTokenIssuer/(sso)?ins-[a-zA-Z0-9-.]{16}/tti-[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

## Response Syntax

```
{
   "Name": "string",
   "TrustedTokenIssuerArn": "string",
   "TrustedTokenIssuerConfiguration": { ... },
   "TrustedTokenIssuerType": "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.

**Name**

The name of the trusted token issuer configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\w+=,.@-]+`

**TrustedTokenIssuerArn**

The ARN of the trusted token issuer configuration.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:trustedTokenIssuer/(sso)?ins-[a-zA-Z0-9-.]{16}/tti-[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

**TrustedTokenIssuerConfiguration**

A structure the describes the settings that apply of this trusted token issuer.

Type: TrustedTokenIssuerConfiguration object

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

**TrustedTokenIssuerType**

The type of the trusted token issuer.

Type: String

Valid Values: `OIDC_JWT`

# Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DetachCustomerManagedPolicyReferenceFromPermissionSet

Detaches the specified customer managed policy from the specified PermissionSet.

## Request Syntax

```
{
   "CustomerManagedPolicyReference": {
      "Name": "string",
      "Path": "string"
   },
   "InstanceArn": "string",
   "PermissionSetArn": "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.

**CustomerManagedPolicyReference**

Specifies the name and path of a customer managed policy. You must have an IAM policy that matches the name and path in each AWS account where you want to deploy your permission set.

Type: CustomerManagedPolicyReference object

Required: Yes

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionSetArn**

The ARN of the `PermissionSet`.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# DetachManagedPolicyFromPermissionSet

Detaches the attached AWS managed policy ARN from the specified permission set.

## Request Syntax

```
{
   "InstanceArn": "string",
   "ManagedPolicyArn": "string",
   "PermissionSetArn": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**ManagedPolicyArn**

The AWS managed policy ARN to be detached from a permission set.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:iam::aws:policy((/[A-Za-z0-9\.,\+@=_-]+)*)/([A-Za-z0-9\.,\+=@_-]+)`

Required: Yes

**PermissionSetArn**

The ARN of the PermissionSet from which the policy should be detached.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# GetApplicationAccessScope

Retrieves the authorized targets for an IAM Identity Center access scope for an application.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "Scope": "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.

### ApplicationArn

Specifies the ARN of the application with the access scope that you want to retrieve.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

### Scope

Specifies the name of the access scope for which you want the authorized targets.

Type: String

Pattern: `([A-Za-z0-9_]{1,50})(:[A-Za-z0-9_]{1,50}){0,1}(:[A-Za-z0-9_]{1,50}){0,1}`

Required: Yes

## Response Syntax

```
{
   "AuthorizedTargets": [ "string" ],
   "Scope": "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.

**AuthorizedTargets**

An array of authorized targets associated with this access scope.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::(\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}|:instance/(sso)?ins-[a-zA-Z0-9-.]{16})`

**Scope**

The name of the access scope that can be used with the authorized targets.

Type: String

Pattern: `([A-Za-z0-9_]{1,50})(:[A-Za-z0-9_]{1,50}){0,1}(:[A-Za-z0-9_]{1,50}){0,1}`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# GetApplicationAssignmentConfiguration

Retrieves the configuration of PutApplicationAssignmentConfiguration.

## Request Syntax

```
{
   "ApplicationArn": "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.

**ApplicationArn**

Specifies the ARN of the application. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

## Response Syntax

```
{
   "AssignmentRequired": 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.

**AssignmentRequired**

If `AssignmentsRequired` is `true` (default value), users don't have access to the application unless an assignment is created using the CreateApplicationAssignment API. If `false`, all users have access to the application.

Type: Boolean

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# GetApplicationAuthenticationMethod

Retrieves details about an authentication method used by an application.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "AuthenticationMethodType": "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.

### ApplicationArn

Specifies the ARN of the application.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

### AuthenticationMethodType

Specifies the type of authentication method for which you want details.

Type: String

Valid Values: `IAM`

Required: Yes

## Response Syntax

```
{
```

```
   "AuthenticationMethod": { ... }
}
```

## 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.

**AuthenticationMethod**

A structure that contains details about the requested authentication method.

Type: AuthenticationMethod object

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# GetApplicationGrant

Retrieves details about an application grant.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "GrantType": "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.

**ApplicationArn**

Specifies the ARN of the application that contains the grant.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**GrantType**

Specifies the type of grant.

Type: String

Valid Values: `authorization_code | refresh_token | urn:ietf:params:oauth:grant-type:jwt-bearer | urn:ietf:params:oauth:grant-type:token-exchange`

Required: Yes

## Response Syntax

```
{
   "Grant": { ... }
}
```

## 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.

**Grant**

A structure that describes the requested grant.

Type: Grant object

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# GetApplicationSessionConfiguration

Retrieves the session configuration for an application in IAM Identity Center.

The session configuration determines how users can access an application. This includes whether user background sessions are enabled. User background sessions allow users to start a job on a supported AWS managed application without having to remain signed in to an active session while the job runs.

## Request Syntax

```
{
   "ApplicationArn": "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.

### ApplicationArn

The Amazon Resource Name (ARN) of the application for which to retrieve the session configuration.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

## Response Syntax

```
{
   "UserBackgroundSessionApplicationStatus": "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.

**UserBackgroundSessionApplicationStatus**

The status of user background sessions for the application.

Type: String

Valid Values: `ENABLED | DISABLED`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# GetInlinePolicyForPermissionSet

Obtains the inline policy assigned to the permission set.

## Request Syntax

```
{
   "InstanceArn": "string",
   "PermissionSetArn": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionSetArn**

The ARN of the permission set.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Syntax

```
{
   "InlinePolicy": "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.

**InlinePolicy**

The inline policy that is attached to the permission set.

> **Note**
>
> For `Length Constraints`, if a valid ARN is provided for a permission set, it is possible for an empty inline policy to be returned.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Pattern: `[\u0009\u000A\u000D\u0020-\u00FF]+`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# GetPermissionsBoundaryForPermissionSet

Obtains the permissions boundary for a specified PermissionSet.

## Request Syntax

```
{
   "InstanceArn": "string",
   "PermissionSetArn": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionSetArn**

The ARN of the `PermissionSet`.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Syntax

```
{
   "PermissionsBoundary": {
      "CustomerManagedPolicyReference": {
         "Name": "string",
         "Path": "string"
      },
      "ManagedPolicyArn": "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.

**PermissionsBoundary**

The permissions boundary attached to the specified permission set.

Type: PermissionsBoundary object

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListAccountAssignmentCreationStatus

Lists the status of the AWS account assignment creation requests for a specified IAM Identity Center instance.

## Request Syntax

```
{
   "Filter": {
      "Status": "string"
   },
   "InstanceArn": "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.

**Filter**

Filters results based on the passed attribute value.

Type: OperationStatusFilter object

Required: No

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**MaxResults**

The maximum number of results to display for the assignment.

Type: Integer

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

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "AccountAssignmentsCreationStatus": [
      {
         "CreatedDate": number,
         "RequestId": "string",
         "Status": "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.

**AccountAssignmentsCreationStatus**

The status object for the account assignment creation operation.

Type: Array of AccountAssignmentOperationStatusMetadata objects

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListAccountAssignmentDeletionStatus

Lists the status of the AWS account assignment deletion requests for a specified IAM Identity Center instance.

## Request Syntax

```
{
   "Filter": {
      "Status": "string"
   },
   "InstanceArn": "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.

**Filter**

Filters results based on the passed attribute value.

Type: OperationStatusFilter object

Required: No

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**MaxResults**

The maximum number of results to display for the assignment.

Type: Integer

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

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "AccountAssignmentsDeletionStatus": [
      {
         "CreatedDate": number,
         "RequestId": "string",
         "Status": "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.

**AccountAssignmentsDeletionStatus**

The status object for the account assignment deletion operation.

Type: Array of AccountAssignmentOperationStatusMetadata objects

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListAccountAssignments

Lists the assignee of the specified AWS account with the specified permission set.

## Request Syntax

```
{
   "AccountId": "string",
   "InstanceArn": "string",
   "MaxResults": number,
   "NextToken": "string",
   "PermissionSetArn": "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.

**AccountId**

The identifier of the AWS account from which to list the assignments.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: Yes

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**MaxResults**

The maximum number of results to display for the assignment.

Type: Integer

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

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

**PermissionSetArn**

The ARN of the permission set from which to list assignments.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Syntax

```
{
   "AccountAssignments": [
```

```
      {
         "AccountId": "string",
         "PermissionSetArn": "string",
         "PrincipalId": "string",
         "PrincipalType": "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.

**AccountAssignments**

The list of assignments that match the input AWS account and permission set.

Type: Array of AccountAssignment objects

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListAccountAssignmentsForPrincipal

Retrieves a list of the IAM Identity Center associated AWS accounts that the principal has access to. This action must be called from the management account containing your organization instance of IAM Identity Center. This action is not valid for account instances of IAM Identity Center.

## Request Syntax

```
{
   "Filter": {
      "AccountId": "string"
   },
   "InstanceArn": "string",
   "MaxResults": number,
   "NextToken": "string",
   "PrincipalId": "string",
   "PrincipalType": "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.

**Filter**

Specifies an AWS account ID number. Results are filtered to only those that match this ID number.

Type: ListAccountAssignmentsFilter object

Required: No

**InstanceArn**

Specifies the ARN of the instance of IAM Identity Center that contains the principal.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**MaxResults**

Specifies the total number of results that you want included in each response. If additional items exist beyond the number you specify, the `NextToken` response element is returned with a value (not null). Include the specified value as the `NextToken` request parameter in the next call to the operation to get the next set of results. Note that the service might return fewer results than the maximum even when there are more results available. You should check `NextToken` after every operation to ensure that you receive all of the results.

Type: Integer

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

Required: No

**NextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `NextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `NextToken` response to request the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

**PrincipalId**

Specifies the principal for which you want to retrieve the list of account assignments.

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

**PrincipalType**

Specifies the type of the principal.

Type: String

Valid Values: USER | GROUP

Required: Yes

## Response Syntax

```
{
   "AccountAssignments": [
      {
         "AccountId": "string",
         "PermissionSetArn": "string",
         "PrincipalId": "string",
         "PrincipalType": "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.

**AccountAssignments**

An array list of the account assignments for the principal.

Type: Array of AccountAssignmentForPrincipal objects

**NextToken**

If present, this value indicates that more output is available than is included in the current response. Use this value in the NextToken request parameter in a subsequent call to the

operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`. This indicates that this is the last page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListAccountsForProvisionedPermissionSet

Lists all the AWS accounts where the specified permission set is provisioned.

## Request Syntax

```
{
   "InstanceArn": "string",
   "MaxResults": number,
   "NextToken": "string",
   "PermissionSetArn": "string",
   "ProvisioningStatus": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**MaxResults**

The maximum number of results to display for the PermissionSet.

Type: Integer

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

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

**PermissionSetArn**

The ARN of the PermissionSet from which the associated AWS accounts will be listed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

**ProvisioningStatus**

The permission set provisioning status for an AWS account.

Type: String

Valid Values: `LATEST_PERMISSION_SET_PROVISIONED | LATEST_PERMISSION_SET_NOT_PROVISIONED`

Required: No

## Response Syntax

```
{
   "AccountIds": [ "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.

**AccountIds**

The list of AWS `AccountIds`.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListApplicationAccessScopes

Lists the access scopes and authorized targets associated with an application.

## Request Syntax

```
{
   "ApplicationArn": "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.

### ApplicationArn

Specifies the ARN of the application.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

### MaxResults

Specifies the total number of results that you want included in each response. If additional items exist beyond the number you specify, the `NextToken` response element is returned with a value (not null). Include the specified value as the `NextToken` request parameter in the next call to the operation to get the next set of results. Note that the service might return fewer results than the maximum even when there are more results available. You should check `NextToken` after every operation to ensure that you receive all of the results.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 10.

Required: No

**NextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `NextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `NextToken` response to request the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "NextToken": "string",
   "Scopes": [
      {
         "AuthorizedTargets": [ "string" ],
         "Scope": "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**

If present, this value indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the

operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`. This indicates that this is the last page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

**Scopes**

An array list of access scopes and their authorized targets that are associated with the application.

Type: Array of ScopeDetails objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListApplicationAssignments

Lists AWS account users that are assigned to an application.

## Request Syntax

```
{
   "ApplicationArn": "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.

### ApplicationArn

Specifies the ARN of the application.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

### MaxResults

Specifies the total number of results that you want included in each response. If additional items exist beyond the number you specify, the `NextToken` response element is returned with a value (not null). Include the specified value as the `NextToken` request parameter in the next call to the operation to get the next set of results. Note that the service might return fewer results than the maximum even when there are more results available. You should check `NextToken` after every operation to ensure that you receive all of the results.

Type: Integer

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

Required: No

**NextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `NextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `NextToken` response to request the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "ApplicationAssignments": [
      {
         "ApplicationArn": "string",
         "PrincipalId": "string",
         "PrincipalType": "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.

**ApplicationAssignments**

The list of users assigned to an application.

Type: Array of ApplicationAssignment objects

**NextToken**

If present, this value indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`. This indicates that this is the last page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListApplicationAssignmentsForPrincipal

Lists the applications to which a specified principal is assigned. You must provide a filter when calling this action from a member account against your organization instance of IAM Identity Center. A filter is not required when called from the management account against an organization instance of IAM Identity Center, or from a member account against an account instance of IAM Identity Center in the same account.

## Request Syntax

```
{
   "Filter": {
      "ApplicationArn": "string"
   },
   "InstanceArn": "string",
   "MaxResults": number,
   "NextToken": "string",
   "PrincipalId": "string",
   "PrincipalType": "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.

### Filter

Filters the output to include only assignments associated with the application that has the specified ARN.

Type: ListApplicationAssignmentsFilter object

Required: No

### InstanceArn

Specifies the instance of IAM Identity Center that contains principal and applications.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

### MaxResults

Specifies the total number of results that you want included in each response. If additional items exist beyond the number you specify, the `NextToken` response element is returned with a value (not null). Include the specified value as the `NextToken` request parameter in the next call to the operation to get the next set of results. Note that the service might return fewer results than the maximum even when there are more results available. You should check `NextToken` after every operation to ensure that you receive all of the results.

Type: Integer

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

Required: No

### NextToken

Specifies that you want to receive the next page of results. Valid only if you received a `NextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `NextToken` response to request the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

### PrincipalId

Specifies the unique identifier of the principal for which you want to retrieve its assignments.

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

**PrincipalType**

Specifies the type of the principal for which you want to retrieve its assignments.

Type: String

Valid Values: `USER | GROUP`

Required: Yes

## Response Syntax

```
{
   "ApplicationAssignments": [
      {
         "ApplicationArn": "string",
         "PrincipalId": "string",
         "PrincipalType": "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.

**ApplicationAssignments**

An array list of the application assignments for the specified principal.

Type: Array of ApplicationAssignmentForPrincipal objects

**NextToken**

If present, this value indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`. This indicates that this is the last page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListApplicationAuthenticationMethods

Lists all of the authentication methods supported by the specified application.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "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.

### ApplicationArn

Specifies the ARN of the application with the authentication methods you want to list.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

### NextToken

Specifies that you want to receive the next page of results. Valid only if you received a `NextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `NextToken` response to request the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "AuthenticationMethods": [
      {
         "AuthenticationMethod": { ... },
         "AuthenticationMethodType": "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.

**AuthenticationMethods**

An array list of authentication methods for the specified application.

Type: Array of AuthenticationMethodItem objects

**NextToken**

If present, this value indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`. This indicates that this is the last page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListApplicationGrants

List the grants associated with an application.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "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.

### ApplicationArn

Specifies the ARN of the application whose grants you want to list.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

### NextToken

Specifies that you want to receive the next page of results. Valid only if you received a `NextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `NextToken` response to request the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "Grants": [
      {
         "Grant": { ... },
         "GrantType": "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.

**Grants**

An array list of structures that describe the requested grants.

Type: Array of GrantItem objects

**NextToken**

If present, this value indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`. This indicates that this is the last page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListApplicationProviders

Lists the application providers configured in the IAM Identity Center identity store.

## Request Syntax

```
{
   "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.

**MaxResults**

Specifies the total number of results that you want included in each response. If additional items exist beyond the number you specify, the `NextToken` response element is returned with a value (not null). Include the specified value as the `NextToken` request parameter in the next call to the operation to get the next set of results. Note that the service might return fewer results than the maximum even when there are more results available. You should check `NextToken` after every operation to ensure that you receive all of the results.

Type: Integer

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

Required: No

**NextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `NextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `NextToken` response to request the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "ApplicationProviders": [
      {
         "ApplicationProviderArn": "string",
         "DisplayData": {
            "Description": "string",
            "DisplayName": "string",
            "IconUrl": "string"
         },
         "FederationProtocol": "string",
         "ResourceServerConfig": {
            "Scopes": {
               "string" : {
                  "DetailedTitle": "string",
                  "LongDescription": "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.

### ApplicationProviders

An array list of structures that describe application providers.

Type: Array of ApplicationProvider objects

**NextToken**

If present, this value indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`. This indicates that this is the last page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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

HTTP Status Code: 500

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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 all applications associated with the instance of IAM Identity Center. When listing applications for an organization instance in the management account, member accounts must use the `applicationAccount` parameter to filter the list to only applications created from that account. When listing applications for an account instance in the same member account, a filter is not required.

## Request Syntax

```
{
   "Filter": {
      "ApplicationAccount": "string",
      "ApplicationProvider": "string"
   },
   "InstanceArn": "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.

**Filter**

Filters response results.

Type: ListApplicationsFilter object

Required: No

**InstanceArn**

The ARN of the IAM Identity Center application under which the operation will run. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**MaxResults**

Specifies the total number of results that you want included in each response. If additional items exist beyond the number you specify, the `NextToken` response element is returned with a value (not null). Include the specified value as the `NextToken` request parameter in the next call to the operation to get the next set of results. Note that the service might return fewer results than the maximum even when there are more results available. You should check `NextToken` after every operation to ensure that you receive all of the results.

Type: Integer

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

Required: No

**NextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `NextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `NextToken` response to request the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "Applications": [
```

```
      {
         "ApplicationAccount": "string",
         "ApplicationArn": "string",
         "ApplicationProviderArn": "string",
         "CreatedDate": number,
         "CreatedFrom": "string",
         "Description": "string",
         "IdentityStoreArn": "string",
         "InstanceArn": "string",
         "Name": "string",
         "PortalOptions": {
            "SignInOptions": {
               "ApplicationUrl": "string",
               "Origin": "string"
            },
            "Visibility": "string"
         },
         "Status": "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

Retrieves all applications associated with the instance.

Type: Array of Application objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

### NextToken

If present, this value indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`. This indicates that this is the last page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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

HTTP Status Code: 500

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListCustomerManagedPolicyReferencesInPermissionSet

Lists all customer managed policies attached to a specified PermissionSet.

## Request Syntax

```
{
   "InstanceArn": "string",
   "MaxResults": number,
   "NextToken": "string",
   "PermissionSetArn": "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.

### InstanceArn

The ARN of the IAM Identity Center instance under which the operation will be executed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

### MaxResults

The maximum number of results to display for the list call.

Type: Integer

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

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

**PermissionSetArn**

The ARN of the `PermissionSet`.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Syntax

```
{
   "CustomerManagedPolicyReferences": [
      {
         "Name": "string",
         "Path": "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.

**CustomerManagedPolicyReferences**

Specifies the names and paths of the customer managed policies that you have attached to your permission set.

Type: Array of CustomerManagedPolicyReference objects

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListInstances

Lists the details of the organization and account instances of IAM Identity Center that were created in or visible to the account calling this API.

## Request Syntax

```
{
   "MaxResults": number,
   "NextToken": "string",
   "RegionScope": "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.

**MaxResults**

The maximum number of results to display for the instance.

Type: Integer

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

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

### RegionScope

Specifies which AWS Regions to list AWS IAM Identity Center instances from. Valid values:

- CURRENT_REGION - Lists only the instances in the Region that you call this API from.
- ALL_REGIONS - Lists the instances that the caller owns or that are shared with the caller across all Regions.

If you don't specify a value, the default is CURRENT_REGION.

Type: String

Valid Values: CURRENT_REGION | ALL_REGIONS

Required: No

## Response Syntax

```
{
   "Instances": [
      {
         "CreatedDate": number,
         "IdentityStoreArn": "string",
         "IdentityStoreId": "string",
         "InstanceArn": "string",
         "Name": "string",
         "OwnerAccountId": "string",
         "PrimaryRegion": "string",
         "Regions": [
            {
               "AddedDate": number,
               "IsPrimaryRegion": boolean,
               "RegionName": "string",
               "Status": "string"
            }
         ],
         "Status": "string",
         "StatusReason": "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.

**Instances**

Lists the IAM Identity Center instances that the caller has access to.

Type: Array of InstanceMetadata objects

Array Members: Minimum number of 0 items. Maximum number of 10 items.

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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

HTTP Status Code: 500

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

HTTP Status Code: 400

# Examples

## List instances in the primary Region

This example lists the instances in us-east-1, the primary Region of the instance.

### Sample Request

```
{
    "RegionScope": "CURRENT_REGION"
}
```

### Sample Response

```
{
    "Instances": [
        {
            "CreatedDate": 1736373600,
            "IdentityStoreArn": "arn:aws:identitystore::111122223333:identitystore/
d-1234567890",
            "IdentityStoreId": "d-1234567890",
            "InstanceArn": "arn:aws:sso:::instance/ssoins-1234567890abcdef",
            "OwnerAccountId": "111122223333",
            "PrimaryRegion": "us-east-1",
            "Regions": [
```

```
                {
                    "AddedDate": 1736373600,
                    "IsPrimaryRegion": true,
                    "RegionName": "us-east-1",
                    "Status": "ACTIVE"
                },
                {
                    "AddedDate": 1739052000,
                    "IsPrimaryRegion": false,
                    "RegionName": "us-west-2",
                    "Status": "ACTIVE"
                }
            ],
            "Status": "ACTIVE"
        }
    ]
}
```

## List instances in a replicated Region

This example lists the instances in us-west-2, a Region that the instance is replicated to. The response is the same as in the primary Region.

### Sample Request

```
{
    "RegionScope": "CURRENT_REGION"
}
```

### Sample Response

```
{
    "Instances": [
        {
            "CreatedDate": 1736373600,
            "IdentityStoreArn": "arn:aws:identitystore::111122223333:identitystore/
d-1234567890",
            "IdentityStoreId": "d-1234567890",
            "InstanceArn": "arn:aws:sso:::instance/ssoins-1234567890abcdef",
            "OwnerAccountId": "111122223333",
            "PrimaryRegion": "us-east-1",
            "Regions": [
                {
```

```
                    "AddedDate": 1736373600,
                    "IsPrimaryRegion": true,
                    "RegionName": "us-east-1",
                    "Status": "ACTIVE"
                },
                {
                    "AddedDate": 1739052000,
                    "IsPrimaryRegion": false,
                    "RegionName": "us-west-2",
                    "Status": "ACTIVE"
                }
            ],
            "Status": "ACTIVE"
        }
    ]
}
```

## List instances in a Region with no instances

This example lists the instances in eu-west-1, where the instance isn't present, and returns an empty list.

### Sample Request

```
{
    "RegionScope": "CURRENT_REGION"
}
```

### Sample Response

```
{
    "Instances": []
}
```

## List instances in all Regions

This example lists the instances in all Regions from eu-west-1, where the instance isn't present. The response is the same in every Region that is enabled for your account.

### Sample Request

```
{
```

```
    "RegionScope": "ALL_REGIONS"
}
```

### Sample Response

```
{
    "Instances": [
        {
            "CreatedDate": 1736373600,
            "IdentityStoreArn": "arn:aws:identitystore::111122223333:identitystore/
d-1234567890",
            "IdentityStoreId": "d-1234567890",
            "InstanceArn": "arn:aws:sso:::instance/ssoins-1234567890abcdef",
            "OwnerAccountId": "111122223333",
            "PrimaryRegion": "us-east-1",
            "Regions": [
                {
                    "AddedDate": 1736373600,
                    "IsPrimaryRegion": true,
                    "RegionName": "us-east-1",
                    "Status": "ACTIVE"
                },
                {
                    "AddedDate": 1739052000,
                    "IsPrimaryRegion": false,
                    "RegionName": "us-west-2",
                    "Status": "ACTIVE"
                }
            ],
            "Status": "ACTIVE"
        }
    ]
}
```

## 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

# ListManagedPoliciesInPermissionSet

Lists the AWS managed policy that is attached to a specified permission set.

## Request Syntax

```
{
   "InstanceArn": "string",
   "MaxResults": number,
   "NextToken": "string",
   "PermissionSetArn": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**MaxResults**

The maximum number of results to display for the PermissionSet.

Type: Integer

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

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

**PermissionSetArn**

The ARN of the PermissionSet whose managed policies will be listed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Syntax

```
{
   "AttachedManagedPolicies": [
      {
         "Arn": "string",
         "Name": "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.

**AttachedManagedPolicies**

An array of the AttachedManagedPolicy data type object.

Type: Array of AttachedManagedPolicy objects

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListPermissionSetProvisioningStatus

Lists the status of the permission set provisioning requests for a specified IAM Identity Center instance.

## Request Syntax

```
{
   "Filter": {
      "Status": "string"
   },
   "InstanceArn": "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.

**Filter**

Filters results based on the passed attribute value.

Type: OperationStatusFilter object

Required: No

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**MaxResults**

The maximum number of results to display for the assignment.

Type: Integer

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

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "NextToken": "string",
   "PermissionSetsProvisioningStatus": [
      {
         "CreatedDate": number,
         "RequestId": "string",
         "Status": "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 for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

**PermissionSetsProvisioningStatus**

The status object for the permission set provisioning operation.

Type: Array of PermissionSetProvisioningStatusMetadata objects

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListPermissionSets

Lists the PermissionSets in an IAM Identity Center instance.

## Request Syntax

```
{
   "InstanceArn": "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.

### InstanceArn

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

### MaxResults

The maximum number of results to display for the assignment.

Type: Integer

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

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "NextToken": "string",
   "PermissionSets": [ "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 for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

**PermissionSets**

Defines the level of access on an AWS account.

Type: Array of strings

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListPermissionSetsProvisionedToAccount

Lists all the permission sets that are provisioned to a specified AWS account.

## Request Syntax

```
{
   "AccountId": "string",
   "InstanceArn": "string",
   "MaxResults": number,
   "NextToken": "string",
   "ProvisioningStatus": "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.

**AccountId**

The identifier of the AWS account from which to list the assignments.

Type: String

Length Constraints: Fixed length of 12.

Pattern: \d{12}

Required: Yes

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**MaxResults**

The maximum number of results to display for the assignment.

Type: Integer

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

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

**ProvisioningStatus**

The status object for the permission set provisioning operation.

Type: String

Valid Values: `LATEST_PERMISSION_SET_PROVISIONED | LATEST_PERMISSION_SET_NOT_PROVISIONED`

Required: No

## Response Syntax

```
{
   "NextToken": "string",
   "PermissionSets": [ "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 for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

**PermissionSets**

Defines the level of access that an AWS account has.

Type: Array of strings

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListRegions

Lists all enabled Regions of an IAM Identity Center instance, including those that are being added or removed. This operation returns Regions with ACTIVE, ADDING, or REMOVING status.

The following actions are related to `ListRegions`:

- AddRegion
- RemoveRegion
- DescribeRegion

## Request Syntax

```
{
   "InstanceArn": "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.

**InstanceArn**

The Amazon Resource Name (ARN) of the IAM Identity Center instance.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**MaxResults**

The maximum number of results to return in a single call. Default is 100.

Type: Integer

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

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "NextToken": "string",
   "Regions": [
      {
         "AddedDate": number,
         "IsPrimaryRegion": boolean,
         "RegionName": "string",
         "Status": "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 to be used in subsequent calls. If the value is null, then there are no more entries.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

**Regions**

The list of Regions enabled in the IAM Identity Center instance, including Regions with ACTIVE, ADDING, or REMOVING status.

Type: Array of RegionMetadata objects

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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

HTTP Status Code: 500

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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 that are attached to a specified resource.

## Request Syntax

```
{
   "InstanceArn": "string",
   "NextToken": "string",
   "ResourceArn": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: No

**NextToken**

The pagination token for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

**ResourceArn**

The ARN of the resource with the tags to be listed.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 2048.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::((:instance/(sso)?ins-[a-zA-Z0-9-.]{16})|(:permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16})|(\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16})|(\d{12}:trustedTokenIssuer/(sso)?ins-[a-zA-Z0-9-.]{16}/tti-[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}))`

Required: Yes

## Response Syntax

```
{
   "NextToken": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "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 for the list API. Initially the value is null. Use the output of previous API calls to make subsequent calls.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

**Tags**

A set of key-value pairs that are used to manage the resource.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 75 items.

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ListTrustedTokenIssuers

Lists all the trusted token issuers configured in an instance of IAM Identity Center.

## Request Syntax

```
{
   "InstanceArn": "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.

**InstanceArn**

Specifies the ARN of the instance of IAM Identity Center with the trusted token issuer configurations that you want to list.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**MaxResults**

Specifies the total number of results that you want included in each response. If additional items exist beyond the number you specify, the `NextToken` response element is returned with a value (not null). Include the specified value as the `NextToken` request parameter in the next call to the operation to get the next set of results. Note that the service might return fewer results than the maximum even when there are more results available. You should check `NextToken` after every operation to ensure that you receive all of the results.

Type: Integer

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

Required: No

**NextToken**

Specifies that you want to receive the next page of results. Valid only if you received a `NextToken` response in the previous request. If you did, it indicates that more output is available. Set this parameter to the value provided by the previous call's `NextToken` response to request the next page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

Required: No

## Response Syntax

```
{
   "NextToken": "string",
   "TrustedTokenIssuers": [
      {
         "Name": "string",
         "TrustedTokenIssuerArn": "string",
         "TrustedTokenIssuerType": "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**

If present, this value indicates that more output is available than is included in the current response. Use this value in the `NextToken` request parameter in a subsequent call to the

operation to get the next part of the output. You should repeat this until the `NextToken` response element comes back as `null`. This indicates that this is the last page of results.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 2048.

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

**TrustedTokenIssuers**

An array list of the trusted token issuer configurations.

Type: Array of TrustedTokenIssuerMetadata objects

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**InternalServerException**

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

HTTP Status Code: 500

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# ProvisionPermissionSet

The process by which a specified permission set is provisioned to the specified target.

## Request Syntax

```
{
   "InstanceArn": "string",
   "PermissionSetArn": "string",
   "TargetId": "string",
   "TargetType": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionSetArn**

The ARN of the permission set.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

**TargetId**

TargetID is an AWS account identifier, (For example, 123456789012).

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

**TargetType**

The entity type for which the assignment will be created.

Type: String

Valid Values: `AWS_ACCOUNT | ALL_PROVISIONED_ACCOUNTS`

Required: Yes

## Response Syntax

```
{
   "PermissionSetProvisioningStatus": {
      "AccountId": "string",
      "CreatedDate": number,
      "FailureReason": "string",
      "PermissionSetArn": "string",
      "RequestId": "string",
      "Status": "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.

**PermissionSetProvisioningStatus**

The status object for the permission set provisioning operation.

Type: PermissionSetProvisioningStatus object

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# PutApplicationAccessScope

Adds or updates the list of authorized targets for an IAM Identity Center access scope for an application.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "AuthorizedTargets": [ "string" ],
   "Scope": "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.

**ApplicationArn**

Specifies the ARN of the application with the access scope with the targets to add or update.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**AuthorizedTargets**

Specifies an array list of ARNs that represent the authorized targets for this access scope.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::(\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}|:instance/(sso)?ins-[a-zA-Z0-9-.]{16})`

Required: No

**Scope**

Specifies the name of the access scope to be associated with the specified targets.

Type: String

Pattern: `([A-Za-z0-9_]{1,50})(:[A-Za-z0-9_]{1,50}){0,1}(:[A-Za-z0-9_]{1,50}){0,1}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# PutApplicationAssignmentConfiguration

Configure how users gain access to an application. If `AssignmentsRequired` is `true` (default value), users don't have access to the application unless an assignment is created using the CreateApplicationAssignment API. If `false`, all users have access to the application. If an assignment is created using CreateApplicationAssignment., the user retains access if `AssignmentsRequired` is set to `true`.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "AssignmentRequired": boolean
}
```

## 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.

**ApplicationArn**

Specifies the ARN of the application. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**AssignmentRequired**

If `AssignmentsRequired` is `true` (default value), users don't have access to the application unless an assignment is created using the CreateApplicationAssignment API. If `false`, all users have access to the application.

Type: Boolean

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# PutApplicationAuthenticationMethod

Adds or updates an authentication method for an application.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "AuthenticationMethod": { ... },
   "AuthenticationMethodType": "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.

**ApplicationArn**

Specifies the ARN of the application with the authentication method to add or update.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**AuthenticationMethod**

Specifies a structure that describes the authentication method to add or update. The structure type you provide is determined by the `AuthenticationMethodType` parameter.

Type: AuthenticationMethod object

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

Required: Yes

**AuthenticationMethodType**

Specifies the type of the authentication method that you want to add or update.

Type: String

Valid Values: `IAM`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# PutApplicationGrant

Creates a configuration for an application to use grants. Conceptually grants are authorization to request actions related to tokens. This configuration will be used when parties are requesting and receiving tokens during the trusted identity propagation process. For more information on the IAM Identity Center supported grant workflows, see SAML 2.0 and OAuth 2.0.

A grant is created between your applications and Identity Center instance which enables an application to use specified mechanisms to obtain tokens. These tokens are used by your applications to gain access to AWS resources on behalf of users. The following elements are within these exchanges:

- **Requester** - The application requesting access to AWS resources.
- **Subject** - Typically the user that is requesting access to AWS resources.
- **Grant** - Conceptually, a grant is authorization to access AWS resources. These grants authorize token generation for authenticating access to the requester and for the request to make requests on behalf of the subjects. There are four types of grants:
  - **AuthorizationCode** - Allows an application to request authorization through a series of user-agent redirects.
  - **JWT bearer** - Authorizes an application to exchange a JSON Web Token that came from an external identity provider. To learn more, see RFC 6479.
  - **Refresh token** - Enables application to request new access tokens to replace expiring or expired access tokens.
  - **Exchange token** - A grant that requests tokens from the authorization server by providing a 'subject' token with access scope authorizing trusted identity propagation to this application. To learn more, see RFC 8693.
- **Authorization server** - IAM Identity Center requests tokens.

User credentials are never shared directly within these exchanges. Instead, applications use grants to request access tokens from IAM Identity Center. For more information, see RFC 6479.

**Use cases**

- Connecting to custom applications.
- Configuring an AWS service to make calls to another AWS services using JWT tokens.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "Grant": { ... },
   "GrantType": "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.

**ApplicationArn**

Specifies the ARN of the application to update.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**Grant**

Specifies a structure that describes the grant to update.

Type: Grant object

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

Required: Yes

**GrantType**

Specifies the type of grant to update.

Type: String

Valid Values: `authorization_code | refresh_token | urn:ietf:params:oauth:grant-type:jwt-bearer | urn:ietf:params:oauth:grant-type:token-exchange`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# PutApplicationSessionConfiguration

Updates the session configuration for an application in IAM Identity Center.

The session configuration determines how users can access an application. This includes whether user background sessions are enabled. User background sessions allow users to start a job on a supported AWS managed application without having to remain signed in to an active session while the job runs.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "UserBackgroundSessionApplicationStatus": "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.

**ApplicationArn**

The Amazon Resource Name (ARN) of the application for which to update the session configuration.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**UserBackgroundSessionApplicationStatus**

The status of user background sessions for the application.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# PutInlinePolicyToPermissionSet

Attaches an inline policy to a permission set.

> **Note**
>
> If the permission set is already referenced by one or more account assignments, you will need to call `ProvisionPermissionSet` after this action to apply the corresponding IAM policy updates to all assigned accounts.

## Request Syntax

```
{
   "InlinePolicy": "string",
   "InstanceArn": "string",
   "PermissionSetArn": "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.

**InlinePolicy**

The inline policy to attach to a PermissionSet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32768.

Pattern: `[\u0009\u000A\u000D\u0020-\u00FF]+`

Required: Yes

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionSetArn**

The ARN of the permission set.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ServiceQuotaExceededException**

Indicates that the principal has crossed the permitted number of resources that can be created.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# PutPermissionsBoundaryToPermissionSet

Attaches an AWS managed or customer managed policy to the specified PermissionSet as a permissions boundary.

## Request Syntax

```
{
   "InstanceArn": "string",
   "PermissionsBoundary": {
      "CustomerManagedPolicyReference": {
         "Name": "string",
         "Path": "string"
      },
      "ManagedPolicyArn": "string"
   },
   "PermissionSetArn": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionsBoundary**

The permissions boundary that you want to attach to a `PermissionSet`.

Type: PermissionsBoundary object

Required: Yes

**PermissionSetArn**

The ARN of the `PermissionSet`.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# RemoveRegion

Removes an additional Region from an IAM Identity Center instance. This operation initiates an asynchronous workflow to clean up IAM Identity Center resources in the specified additional Region. The Region status is set to REMOVING and the Region record is deleted when the workflow completes. The request must be made from the primary Region. The target Region cannot be the primary Region, and no other add or remove Region workflows can be in progress.

The following actions are related to `RemoveRegion`:

- AddRegion
- DescribeRegion
- ListRegions

## Request Syntax

```
{
   "InstanceArn": "string",
   "RegionName": "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.

**InstanceArn**

The Amazon Resource Name (ARN) of the IAM Identity Center instance.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**RegionName**

The name of the AWS Region to remove from the IAM Identity Center instance. The Region name must be 1-32 characters long and follow the pattern of AWS Region names (for example, us-east-1). The primary Region cannot be removed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `([a-z]+-){2,3}\d`

Required: Yes

## Response Syntax

```
{
   "Status": "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.

**Status**

The status of the Region after the remove operation. The status is REMOVING when the asynchronous workflow is in progress. The Region record is deleted when the workflow completes.

Type: String

Valid Values: `ACTIVE | ADDING | REMOVING`

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

Associates a set of tags with a specified resource.

## Request Syntax

```
{
   "InstanceArn": "string",
   "ResourceArn": "string",
   "Tags": [
      {
         "Key": "string",
         "Value": "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: No

**ResourceArn**

The ARN of the resource with the tags to be listed.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 2048.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::((:instance/(sso)?ins-[a-zA-Z0-9-.]{16})|(:permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16})|(\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16})|(\d{12}:trustedTokenIssuer/(sso)?ins-[a-zA-Z0-9-.]{16}/tti-[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}))`

Required: Yes

**Tags**

A set of key-value pairs that are used to manage the resource.

Type: Array of Tag objects

Array Members: Minimum number of 0 items. Maximum number of 75 items.

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ServiceQuotaExceededException**

Indicates that the principal has crossed the permitted number of resources that can be created.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

Disassociates a set of tags from a specified resource.

## Request Syntax

```
{
   "InstanceArn": "string",
   "ResourceArn": "string",
   "TagKeys": [ "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.

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: No

**ResourceArn**

The ARN of the resource with the tags to be listed.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 2048.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::((:instance/(sso)?ins-[a-zA-Z0-9-.]{16})|(:permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]`

`{16})|(\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16})|(\d{12}:trustedTokenIssuer/(sso)?ins-[a-zA-Z0-9-.]{16}/tti-[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}))`

Required: Yes

**TagKeys**

The keys of tags that are attached to the resource.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 75 items.

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

Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# UpdateApplication

Updates application properties.

## Request Syntax

```
{
   "ApplicationArn": "string",
   "Description": "string",
   "Name": "string",
   "PortalOptions": {
      "SignInOptions": {
         "ApplicationUrl": "string",
         "Origin": "string"
      }
   },
   "Status": "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.

### ApplicationArn

Specifies the ARN of the application. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

### Description

The description of the Application.

Type: String

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

Required: No

**Name**

Specifies the updated name for the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\S\s]*`

Required: No

**PortalOptions**

A structure that describes the options for the portal associated with an application.

Type: UpdateApplicationPortalOptions object

Required: No

**Status**

Specifies whether the application is enabled or disabled.

Type: String

Valid Values: `ENABLED | DISABLED`

Required: No

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# UpdateInstance

Update the details for the instance of IAM Identity Center that is owned by the AWS account.

In a single `UpdateInstance` request, you can perform only one of the following operations:

- Update the encryption configuration of the instance by specifying `EncryptionConfiguration`.
- Enable permission sets for the instance by specifying `PermissionSetsEnabled`.
- Update the network configuration of the instance by specifying `NetworkConfiguration`.

A request that specifies more than one of `EncryptionConfiguration`, `PermissionSetsEnabled`, and `NetworkConfiguration` returns a `ValidationException`. To perform more than one of these operations, call `UpdateInstance` separately for each. The calls can be made in parallel.

## Request Syntax

```
{
   "EncryptionConfiguration": {
      "KeyType": "string",
      "KmsKeyArn": "string"
   },
   "InstanceArn": "string",
   "Name": "string",
   "NetworkConfiguration": {
      "AllowSourceIps": [ "string" ],
      "ExcludeApplicationArns": [ "string" ],
      "RestrictSourceVpcs": [ "string" ],
      "VpceAccessRequired": boolean
   },
   "PermissionSetsEnabled": boolean
}
```

## 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.

### EncryptionConfiguration

Specifies the encryption configuration for your IAM Identity Center instance. You can use this to configure customer managed KMS keys or AWS owned KMS keys for encrypting your instance data.

> **Note**
>
> You can't set more than one of `EncryptionConfiguration`, `PermissionSetsEnabled`, and `NetworkConfiguration` in the same request. To configure more than one of them, make a separate `UpdateInstance` call for each. These calls can be made in parallel.

Type: EncryptionConfiguration object

Required: No

### InstanceArn

The ARN of the instance of IAM Identity Center under which the operation will run. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

### Name

Updates the instance name.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\w+=,.@-]+`

Required: No

**NetworkConfiguration**

Specifies the network access controls for your Identity Center instance. Use this to require that access to your instance and to applications originates from VPC endpoints, and to optionally restrict which VPCs are permitted, allow specific IP address ranges that bypass the VPC endpoint requirement, or exempt specific applications from the controls.

If you omit `NetworkConfiguration`, the stored network configuration is preserved. If you specify `NetworkConfiguration`, it replaces the stored network configuration in its entirety. Any list that you omit from the object, or include as an empty list, is cleared.

Type: NetworkConfigurationInfo object

Required: No

**PermissionSetsEnabled**

Enables permission sets for this Identity Center instance. The only accepted value is `true` . After permission sets are enabled, they cannot be disabled.

Type: Boolean

Required: No

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# UpdateInstanceAccessControlAttributeConfiguration

Updates the IAM Identity Center identity store attributes that you can use with the IAM Identity Center instance for attributes-based access control (ABAC). When using an external identity provider as an identity source, you can pass attributes through the SAML assertion as an alternative to configuring attributes from the IAM Identity Center identity store. If a SAML assertion passes any of these attributes, IAM Identity Center replaces the attribute value with the value from the IAM Identity Center identity store. For more information about ABAC, see Attribute-Based Access Control in the *IAM Identity Center User Guide*.

## Request Syntax

```
{
   "InstanceAccessControlAttributeConfiguration": {
      "AccessControlAttributes": [
         {
            "Key": "string",
            "Value": {
               "Source": [ "string" ]
            }
         }
      ]
   },
   "InstanceArn": "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.

**InstanceAccessControlAttributeConfiguration**

Updates the attributes for your ABAC configuration.

Type: InstanceAccessControlAttributeConfiguration object

Required: Yes

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# UpdatePermissionSet

Updates an existing permission set.

## Request Syntax

```
{
   "Description": "string",
   "InstanceArn": "string",
   "PermissionSetArn": "string",
   "RelayState": "string",
   "SessionDuration": "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**

The description of the PermissionSet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 700.

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]*`

Required: No

**InstanceArn**

The ARN of the IAM Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: Yes

**PermissionSetArn**

The ARN of the permission set.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: Yes

**RelayState**

Used to redirect users within the application during the federation authentication process.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Pattern: `[a-zA-Z0-9&$@#\\\/%?=~\-_'"|!:,.;*+\[\]\ \(\)\{\}]+`

Required: No

**SessionDuration**

The length of time that the application user sessions are valid for in the ISO-8601 standard.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(-?)P(?=\d|T\d)(?:(\d+)Y)?(?:(\d+)M)?(?:(\d+)([DW]))?(?:T(?:(\d+)H)?(?:(\d+)M)?(?:(\d+(?:\.\d+)?)S)?)?`

Required: No

## Response Elements

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

# Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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

# UpdateTrustedTokenIssuer

Updates the name of the trusted token issuer, or the path of a source attribute or destination attribute for a trusted token issuer configuration.

> **Note**
>
> Updating this trusted token issuer configuration might cause users to lose access to any applications that are configured to use the trusted token issuer.

## Request Syntax

```
{
   "Name": "string",
   "TrustedTokenIssuerArn": "string",
   "TrustedTokenIssuerConfiguration": { ... }
}
```

## 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.

### Name

Specifies the updated name to be applied to the trusted token issuer configuration.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\w+=,.@-]+`

Required: No

### TrustedTokenIssuerArn

Specifies the ARN of the trusted token issuer configuration that you want to update.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:trustedTokenIssuer/(sso)?ins-[a-zA-Z0-9-.]{16}/tti-[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: Yes

**TrustedTokenIssuerConfiguration**

Specifies a structure with settings to apply to the specified trusted token issuer. The settings that you can provide are determined by the type of the trusted token issuer that you are updating.

Type: TrustedTokenIssuerUpdateConfiguration object

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

Required: No

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

**Reason**

The reason for the access denied exception.

HTTP Status Code: 400

**ConflictException**

Occurs when a conflict with a previous successful write is detected. This generally occurs when the previous write did not have time to propagate to the host serving the current request. A retry (with appropriate backoff logic) is the recommended response to this exception.

HTTP Status Code: 400

**InternalServerException**

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.

**Reason**

The reason for the resource not found exception.

HTTP Status Code: 400

**ThrottlingException**

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

**Reason**

The reason for the throttling exception.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

**Reason**

The reason for the validation exception.

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 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:

- AccessControlAttribute
- AccessControlAttributeValue
- AccountAssignment
- AccountAssignmentForPrincipal
- AccountAssignmentOperationStatus
- AccountAssignmentOperationStatusMetadata
- Application
- ApplicationAssignment
- ApplicationAssignmentForPrincipal
- ApplicationProvider
- AttachedManagedPolicy
- AuthenticationMethod
- AuthenticationMethodItem
- AuthorizationCodeGrant
- AuthorizedTokenIssuer
- CustomerManagedPolicyReference
- DisplayData
- EncryptionConfiguration
- EncryptionConfigurationDetails
- Grant

- GrantItem
- IamAuthenticationMethod
- InstanceAccessControlAttributeConfiguration
- InstanceMetadata
- JwtBearerGrant
- ListAccountAssignmentsFilter
- ListApplicationAssignmentsFilter
- ListApplicationsFilter
- NetworkConfigurationInfo
- OidcJwtConfiguration
- OidcJwtUpdateConfiguration
- OperationStatusFilter
- PermissionsBoundary
- PermissionSet
- PermissionSetProvisioningStatus
- PermissionSetProvisioningStatusMetadata
- PortalOptions
- RefreshTokenGrant
- RegionMetadata
- ResourceServerConfig
- ResourceServerScopeDetails
- ScopeDetails
- SignInOptions
- Tag
- TokenExchangeGrant
- TrustedTokenIssuerConfiguration
- TrustedTokenIssuerMetadata
- TrustedTokenIssuerUpdateConfiguration
- UpdateApplicationPortalOptions

# AccessControlAttribute

These are IAM Identity Center identity store attributes that you can configure for use in attributes-based access control (ABAC). You can create permissions policies that determine who can access your AWS resources based upon the configured attribute values. When you enable ABAC and specify `AccessControlAttributes`, IAM Identity Center passes the attribute values of the authenticated user into IAM for use in policy evaluation.

## Contents

**Key**

The name of the attribute associated with your identities in your identity source. This is used to map a specified attribute in your identity source with an attribute in IAM Identity Center.

Type: String

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

Pattern: `[\p{L}\p{Z}\p{N}_.:\/=+\-@]+`

Required: Yes

**Value**

The value used for mapping a specified attribute to an identity source.

Type: AccessControlAttributeValue object

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

# AccessControlAttributeValue

The value used for mapping a specified attribute to an identity source. For more information, see Attribute mappings in the *IAM Identity Center User Guide*.

## Contents

### Source

The identity source to use when mapping a specified attribute to IAM Identity Center.

Type: Array of strings

Array Members: Fixed number of 1 item.

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `[\p{L}\p{Z}\p{N}_.:\/=+\-@\[\]\{\}\$\\"]*`

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

# AccountAssignment

The assignment that indicates a principal's limited access to a specified AWS account with a specified permission set.

> **Note**
>
> The term *principal* here refers to a user or group that is defined in IAM Identity Center.

## Contents

**AccountId**

The identifier of the AWS account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

**PermissionSetArn**

The ARN of the permission set. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: No

**PrincipalId**

An identifier for an object in IAM Identity Center, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in IAM Identity Center, see the IAM Identity Center Identity Store API Reference.

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

**PrincipalType**

The entity type for which the assignment will be created.

Type: String

Valid Values: `USER | GROUP`

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

# AccountAssignmentForPrincipal

A structure that describes an assignment of an AWS account to a principal and the permissions that principal has in the account.

## Contents

**AccountId**

The account ID number of the AWS account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

**PermissionSetArn**

The ARN of the IAM Identity Center permission set assigned to this principal for this AWS account.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: No

**PrincipalId**

The ID of the principal.

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

**PrincipalType**

The type of the principal.

Type: String

Valid Values: USER | GROUP

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

# AccountAssignmentOperationStatus

The status of the creation or deletion operation of an assignment that a principal needs to access an account.

## Contents

**CreatedDate**

The date that the permission set was created.

Type: Timestamp

Required: No

**FailureReason**

The message that contains an error or exception in case of an operation failure.

Type: String

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

Required: No

**PermissionSetArn**

The ARN of the permission set. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: No

**PrincipalId**

An identifier for an object in IAM Identity Center, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in IAM Identity Center, see the IAM Identity Center Identity Store API Reference.

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

**PrincipalType**

The entity type for which the assignment will be created.

Type: String

Valid Values: `USER | GROUP`

Required: No

**RequestId**

The identifier for tracking the request operation that is generated by the universally unique identifier (UUID) workflow.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `\b[0-9a-f]{8}\b-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-\b[0-9a-f]{12}\b`

Required: No

**Status**

The status of the permission set provisioning process.

Type: String

Valid Values: `IN_PROGRESS | FAILED | SUCCEEDED`

Required: No

**TargetId**

TargetID is an AWS account identifier, (For example, 123456789012).

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

**TargetType**

The entity type for which the assignment will be created.

Type: String

Valid Values: `AWS_ACCOUNT`

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

# AccountAssignmentOperationStatusMetadata

Provides information about the AccountAssignment creation request.

## Contents

**CreatedDate**

The date that the permission set was created.

Type: Timestamp

Required: No

**RequestId**

The identifier for tracking the request operation that is generated by the universally unique identifier (UUID) workflow.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `\b[0-9a-f]{8}\b-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-\b[0-9a-f]{12}\b`

Required: No

**Status**

The status of the permission set provisioning process.

Type: String

Valid Values: `IN_PROGRESS | FAILED | SUCCEEDED`

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

# Application

A structure that describes an application that uses IAM Identity Center for access management.

## Contents

**ApplicationAccount**

The AWS account ID number of the application.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

**ApplicationArn**

The ARN of the application.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: No

**ApplicationProviderArn**

The ARN of the application provider for this application.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::aws:applicationProvider/[a-zA-Z0-9-/]+`

Required: No

**CreatedDate**

The date and time when the application was originally created.

Type: Timestamp

Required: No

**CreatedFrom**

The AWS Region where the application was created in IAM Identity Center.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `([a-z]+-){2,3}\d`

Required: No

**Description**

The description of the application.

Type: String

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

Required: No

**IdentityStoreArn**

The ARN of the identity store that is connected to the instance of IAM Identity Center.

Type: String

Required: No

**InstanceArn**

The ARN of the instance of IAM Identity Center that is configured with this application.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: No

**Name**

The name of the application.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `[\S\s]*`

Required: No

**PortalOptions**

A structure that describes the options for the access portal associated with this application.

Type: PortalOptions object

Required: No

**Status**

The current status of the application in this instance of IAM Identity Center.

Type: String

Valid Values: `ENABLED | DISABLED`

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

# ApplicationAssignment

A structure that describes an assignment of a principal to an application.

## Contents

**ApplicationArn**

The ARN of the application that has principals assigned.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: Yes

**PrincipalId**

The unique identifier of the principal assigned to the application.

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

**PrincipalType**

The type of the principal assigned to the application.

Type: String

Valid Values: `USER | GROUP`

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

# ApplicationAssignmentForPrincipal

A structure that describes an application to which a principal is assigned.

## Contents

**ApplicationArn**

The ARN of the application to which the specified principal is assigned.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}`

Required: No

**PrincipalId**

The unique identifier of the principal assigned to the application.

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

**PrincipalType**

The type of the principal assigned to the application.

Type: String

Valid Values: `USER | GROUP`

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

# ApplicationProvider

A structure that describes a provider that can be used to connect an AWS managed application or customer managed application to IAM Identity Center.

## Contents

**ApplicationProviderArn**

The ARN of the application provider.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::aws:applicationProvider/[a-zA-Z0-9-/]+`

Required: Yes

**DisplayData**

A structure that describes how IAM Identity Center represents the application provider in the portal.

Type: DisplayData object

Required: No

**FederationProtocol**

The protocol that the application provider uses to perform federation.

Type: String

Valid Values: `SAML | OAUTH`

Required: No

**ResourceServerConfig**

A structure that describes the application provider's resource server.

Type: ResourceServerConfig 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

# AttachedManagedPolicy

A structure that stores a list of managed policy ARNs that describe the associated AWS managed policy.

## Contents

**Arn**

The ARN of the AWS managed policy. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:iam::aws:policy((/[A-Za-z0-9\.,\+@=_-]+)*)/([A-Za-z0-9\.,\+=@_-]+)`

Required: No

**Name**

The name of the AWS managed policy.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

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

# AuthenticationMethod

A structure that describes an authentication method that can be used by an application.

## Contents

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

**Iam**

A structure that describes details for IAM authentication.

Type: IamAuthenticationMethod 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

# AuthenticationMethodItem

A structure that describes an authentication method and its type.

## Contents

**AuthenticationMethod**

A structure that describes an authentication method. The contents of this structure is determined by the `AuthenticationMethodType`.

Type: AuthenticationMethod object

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

Required: No

**AuthenticationMethodType**

The type of authentication that is used by this method.

Type: String

Valid Values: `IAM`

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

# AuthorizationCodeGrant

A structure that defines configuration settings for an application that supports the OAuth 2.0 Authorization Code Grant.

## Contents

### RedirectUris

A list of URIs that are valid locations to redirect a user's browser after the user is authorized.

> **Note**
>
> RedirectUris is required when the grant type is `authorization_code`.

Type: Array of strings

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

# AuthorizedTokenIssuer

A structure that describes a trusted token issuer and associates it with a set of authorized audiences.

## Contents

**AuthorizedAudiences**

An array list of authorized audiences, or applications, that can consume the tokens generated by the associated trusted token issuer.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 512.

Required: No

**TrustedTokenIssuerArn**

The ARN of the trusted token issuer.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:trustedTokenIssuer/(sso)?ins-[a-zA-Z0-9-.]{16}/tti-[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-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

# CustomerManagedPolicyReference

Specifies the name and path of a customer managed policy. You must have an IAM policy that matches the name and path in each AWS account where you want to deploy your permission set.

## Contents

**Name**

The name of the IAM policy that you have configured in each account where you want to deploy your permission set.

Type: String

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

Pattern: `[\w+=,.@-]+`

Required: Yes

**Path**

The path to the IAM policy that you have configured in each account where you want to deploy your permission set. The default is `/`. For more information, see Friendly names and paths in the *IAM User Guide*.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `((/[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

# DisplayData

A structure that describes how the portal represents an application provider.

## Contents

**Description**

The description of the application provider that appears in the portal.

Type: String

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

Required: No

**DisplayName**

The name of the application provider that appears in the portal.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Required: No

**IconUrl**

A URL that points to an icon that represents the application provider.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 768.

Pattern: `(http|https):\/\/.*`

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

# EncryptionConfiguration

A structure that specifies the KMS key type and KMS key ARN used to encrypt data in your IAM Identity Center instance.

## Contents

**KeyType**

The type of KMS key used for encryption.

Type: String

Valid Values: `AWS_OWNED_KMS_KEY | CUSTOMER_MANAGED_KEY`

Required: Yes

**KmsKeyArn**

The ARN of the KMS key used to encrypt data. Required when KeyType is CUSTOMER_MANAGED_KEY. Cannot be specified when KeyType is AWS_OWNED_KMS_KEY.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:kms:([a-z]{2,}(-[a-z0-9]+)+){1}:[0-9]{12}:key/(mrk-[a-f0-9]{32}|[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{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

# EncryptionConfigurationDetails

The encryption configuration of your IAM Identity Center instance, including the key type, KMS key ARN, and current encryption status.

## Contents

**EncryptionStatus**

The current status of encryption configuration.

Type: String

Valid Values: `UPDATING | ENABLED | UPDATE_FAILED`

Required: No

**EncryptionStatusReason**

Provides additional context about the current encryption status. This field is particularly useful when the encryption status is UPDATE_FAILED. When encryption configuration update fails, this field contains information about the cause, which may include KMS key access issues, key not found errors, invalid key configuration, key in an invalid state, or a disabled key.

Type: String

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

Required: No

**KeyType**

The type of KMS key used for encryption.

Type: String

Valid Values: `AWS_OWNED_KMS_KEY | CUSTOMER_MANAGED_KEY`

Required: No

**KmsKeyArn**

The ARN of the KMS key currently used to encrypt data in your IAM Identity Center instance.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:kms:([a-z]{2,}(-[a-z0-9]+)+){1}:[0-9]{12}:key/(mrk-[a-f0-9]{32}|[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{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

# Grant

The Grant union represents the set of possible configuration options for the selected grant type. Exactly one member of the union must be specified, and must match the grant type selected.

## Contents

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

**AuthorizationCode**

Configuration options for the `authorization_code` grant type.

Type: AuthorizationCodeGrant object

Required: No

**JwtBearer**

Configuration options for the `urn:ietf:params:oauth:grant-type:jwt-bearer` grant type.

Type: JwtBearerGrant object

Required: No

**RefreshToken**

Configuration options for the `refresh_token` grant type.

Type: RefreshTokenGrant object

Required: No

**TokenExchange**

Configuration options for the `urn:ietf:params:oauth:grant-type:token-exchange` grant type.

Type: TokenExchangeGrant 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

# GrantItem

A structure that defines a single grant and its configuration.

## Contents

**Grant**

The configuration structure for the selected grant.

Type: Grant object

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

Required: Yes

**GrantType**

The type of the selected grant.

Type: String

Valid Values: `authorization_code | refresh_token | urn:ietf:params:oauth:grant-type:jwt-bearer | urn:ietf:params:oauth:grant-type:token-exchange`

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

# IamAuthenticationMethod

A structure that describes details for authentication that uses IAM.

## Contents

**ActorPolicy**

An IAM policy document in JSON.

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

# InstanceAccessControlAttributeConfiguration

Specifies the attributes to add to your attribute-based access control (ABAC) configuration.

## Contents

**AccessControlAttributes**

Lists the attributes that are configured for ABAC in the specified IAM Identity Center instance.

Type: Array of AccessControlAttribute objects

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

# InstanceMetadata

Provides information about the IAM Identity Center instance.

## Contents

**CreatedDate**

The date and time that the Identity Center instance was created.

Type: Timestamp

Required: No

**IdentityStoreArn**

The ARN of the identity store that is connected to the Identity Center instance.

Type: String

Length Constraints: Minimum length of 62. Maximum length of 93.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:identitystore::\d{12}:identitystore/(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: No

**IdentityStoreId**

The identifier of the identity store that is connected to the Identity Center instance.

Type: String

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

Pattern: `[a-zA-Z0-9-]*`

Required: No

**InstanceArn**

The ARN of the Identity Center instance under which the operation will be executed. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}`

Required: No

**Name**

The name of the Identity Center instance.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 255.

Pattern: `[\w+=,.@-]+`

Required: No

**OwnerAccountId**

The AWS account ID number of the owner of the Identity Center instance.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

**PrimaryRegion**

The primary Region where the IAM Identity Center instance was originally enabled. The primary Region cannot be removed.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `([a-z]+-){2,3}\d`

Required: No

**Regions**

The list of Regions enabled in the IAM Identity Center instance, including Regions with ACTIVE, ADDING, or REMOVING status.

Type: Array of RegionMetadata objects

Required: No

**Status**

The current status of this Identity Center instance.

Type: String

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

Required: No

**StatusReason**

Provides additional context about the current status of the IAM Identity Center instance. This field is particularly useful when an instance is in a non-ACTIVE state, such as CREATE_FAILED. When an instance creation fails, this field contains information about the cause, which may include issues with KMS key configuration or insufficient permissions.

Type: String

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

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

# JwtBearerGrant

A structure that defines configuration settings for an application that supports the JWT Bearer Token Authorization Grant. The `AuthorizedAudience` field is the aud claim. For more information, see RFC 7523.

## Contents

### AuthorizedTokenIssuers

A list of allowed token issuers trusted by the Identity Center instances for this application.

> **Note**
>
> `AuthorizedTokenIssuers` is required when the grant type is `JwtBearerGrant`.

Type: Array of AuthorizedTokenIssuer 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

# ListAccountAssignmentsFilter

A structure that describes a filter for account assignments.

## Contents

**AccountId**

The ID number of an AWS account that filters the results in the response.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{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

# ListApplicationAssignmentsFilter

A structure that describes a filter for application assignments.

## Contents

### ApplicationArn

The ARN of an application.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{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

# ListApplicationsFilter

A structure that describes a filter for applications.

## Contents

**ApplicationAccount**

An AWS account ID number that filters the results in the response.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

**ApplicationProvider**

The ARN of an application provider that can filter the results in the response.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::aws:applicationProvider/[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

# NetworkConfigurationInfo

The network access controls for your Identity Center instance. These controls restrict which networks can reach your instance and applications.

## Contents

**VpceAccessRequired**

Specifies whether access to your Identity Center instance and to applications must originate from a VPC endpoint. When this value is `true` and no other field is specified, access is allowed from any VPC in your organization, or from any VPC in the AWS account for an account instance, and applies to all applications. When this value is `false`, no network access control is enforced and the values of `RestrictSourceVpcs`, `AllowSourceIps`, and `ExcludeApplicationArns` are cleared.

Type: Boolean

Required: Yes

**AllowSourceIps**

Allows access from the IPv4 or IPv6 CIDR blocks that you specify, in addition to the VPCs allowed by `RestrictSourceVpcs`. If you don't specify this value, no additional IP address ranges are allowed.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 2. Maximum length of 43.

Pattern: `(([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])\.){3}([0-9]|[1-9][0-9]|1[0-9]{2}|2[0-4][0-9]|25[0-5])(\/(3[0-2]|[1-2][0-9]|[0-9]))?|(([0-9a-fA-F]{1,4}:){7}[0-9a-fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,7}:|([0-9a-fA-F]{1,4}:){1,6}:[0-9a-fA-F]{1,4}|([0-9a-fA-F]{1,4}:){1,5}(:[0-9a-fA-F]{1,4}){1,2}|([0-9a-fA-F]{1,4}:){1,4}(:[0-9a-fA-F]{1,4}){1,3}|([0-9a-fA-F]{1,4}:){1,3}(:[0-9a-fA-F]{1,4}){1,4}|([0-9a-fA-F]{1,4}:){1,2}(:[0-9a-fA-F]{1,4}){1,5}|[0-9a-fA-F]{1,4}:(:[0-9a-fA-F]{1,4}){1,6}|:((:[0-9a-fA-F]{1,4}){1,7}|:))(\/(12[0-8]|1[0-1][0-9]|[1-9][0-9]|[0-9]))?)`

Required: No

**ExcludeApplicationArns**

Exempts the applications that you specify from the network access control, so that access to them is unchanged. You can specify both AWS managed applications and customer managed applications, and you can use wildcards. These applications are not restricted by `RestrictSourceVpcs` or `AllowSourceIps`. If you don't specify this value, the controls apply to all applications.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:[a-z0-9-]+:[a-z0-9-*]*:[0-9]{12}:[-a-zA-Z0-9./:_*]+`

Required: No

**RestrictSourceVpcs**

Limits access to the VPC endpoints in the VPCs that you specify. These VPCs must be in your organization, or in the AWS account for an account instance. If you don't specify this value, access is allowed from any VPC in your organization or AWS account.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 50 items.

Length Constraints: Minimum length of 43. Maximum length of 128.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:ec2:[a-z0-9-]+:[0-9]{12}:vpc/vpc-([0-9a-f]){8}(([0-9a-f]){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

# OidcJwtConfiguration

A structure that describes configuration settings for a trusted token issuer that supports OpenID Connect (OIDC) and JSON Web Tokens (JWTs).

## Contents

**ClaimAttributePath**

The path of the source attribute in the JWT from the trusted token issuer. The attribute mapped by this JMESPath expression is compared against the attribute mapped by `IdentityStoreAttributePath` when a trusted token issuer token is exchanged for an IAM Identity Center token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `\p{L}+(?:(\.|\_)\p{L}+){0,2}`

Required: Yes

**IdentityStoreAttributePath**

The path of the destination attribute in a JWT from IAM Identity Center. The attribute mapped by this JMESPath expression is compared against the attribute mapped by `ClaimAttributePath` when a trusted token issuer token is exchanged for an IAM Identity Center token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `\p{L}+(?:\.\p{L}+){0,2}`

Required: Yes

**IssuerUrl**

The URL that IAM Identity Center uses for OpenID Discovery. OpenID Discovery is used to obtain the information required to verify the tokens that the trusted token issuer generates.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `https?:\/\/[-a-zA-Z0-9+&@\/%=~_|!:,.;]*[-a-zA-Z0-9+&@\/%=~_|]`

Required: Yes

**JwksRetrievalOption**

The method that the trusted token issuer can use to retrieve the JSON Web Key Set used to verify a JWT.

Type: String

Valid Values: `OPEN_ID_DISCOVERY`

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

# OidcJwtUpdateConfiguration

A structure that describes updated configuration settings for a trusted token issuer that supports OpenID Connect (OIDC) and JSON Web Tokens (JWTs).

## Contents

**ClaimAttributePath**

The path of the source attribute in the JWT from the trusted token issuer. The attribute mapped by this JMESPath expression is compared against the attribute mapped by `IdentityStoreAttributePath` when a trusted token issuer token is exchanged for an IAM Identity Center token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `\p{L}+(?:(\.|\_)\p{L}+){0,2}`

Required: No

**IdentityStoreAttributePath**

The path of the destination attribute in a JWT from IAM Identity Center. The attribute mapped by this JMESPath expression is compared against the attribute mapped by `ClaimAttributePath` when a trusted token issuer token is exchanged for an IAM Identity Center token.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `\p{L}+(?:\.\p{L}+){0,2}`

Required: No

**JwksRetrievalOption**

The method that the trusted token issuer can use to retrieve the JSON Web Key Set used to verify a JWT.

Type: String

Valid Values: `OPEN_ID_DISCOVERY`

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

# OperationStatusFilter

Filters the operation status list based on the passed attribute value.

## Contents

**Status**

Filters the list operations result based on the status attribute.

Type: String

Valid Values: `IN_PROGRESS | FAILED | SUCCEEDED`

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

# PermissionsBoundary

Specifies the configuration of the AWS managed or customer managed policy that you want to set as a permissions boundary. Specify either `CustomerManagedPolicyReference` to use the name and path of a customer managed policy, or `ManagedPolicyArn` to use the ARN of an AWS managed policy. A permissions boundary represents the maximum permissions that any policy can grant your role. For more information, see Permissions boundaries for IAM entities in the *IAM User Guide*.

> **Important**
>
> Policies used as permissions boundaries don't provide permissions. You must also attach an IAM policy to the role. To learn how the effective permissions for a role are evaluated, see IAM JSON policy evaluation logic in the *IAM User Guide*.

## Contents

**CustomerManagedPolicyReference**

Specifies the name and path of a customer managed policy. You must have an IAM policy that matches the name and path in each AWS account where you want to deploy your permission set.

Type: CustomerManagedPolicyReference object

Required: No

**ManagedPolicyArn**

The AWS managed policy ARN that you want to attach to a permission set as a permissions boundary.

Type: String

Length Constraints: Minimum length of 20. Maximum length of 2048.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:iam::aws:policy((/[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

# PermissionSet

An entity that contains IAM policies.

## Contents

**CreatedDate**

The date that the permission set was created.

Type: Timestamp

Required: No

**Description**

The description of the PermissionSet.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 700.

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]*`

Required: No

**Name**

The name of the permission set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `[\w+=,.@-]+`

Required: No

**PermissionSetArn**

The ARN of the permission set. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: No

**RelayState**

Used to redirect users within the application during the federation authentication process.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 240.

Pattern: `[a-zA-Z0-9&$@#\\\/%?=~\-_'"|!:,.;*+\[\]\ \(\)\{\}]+`

Required: No

**SessionDuration**

The length of time that the application user sessions are valid for in the ISO-8601 standard.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `(-?)P(?=\d|T\d)(?:(\d+)Y)?(?:(\d+)M)?(?:(\d+)([DW]))?(?:T(?:(\d+)H)?(?:(\d+)M)?(?:(\d+(?:\.\d+)?)S)?)?`

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

# PermissionSetProvisioningStatus

A structure that is used to provide the status of the provisioning operation for a specified permission set.

## Contents

**AccountId**

The identifier of the AWS account from which to list the assignments.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

**CreatedDate**

The date that the permission set was created.

Type: Timestamp

Required: No

**FailureReason**

The message that contains an error or exception in case of an operation failure.

Type: String

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

Required: No

**PermissionSetArn**

The ARN of the permission set that is being provisioned. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the *AWS General Reference*.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]{16}/ps-[a-zA-Z0-9-./]{16}`

Required: No

**RequestId**

The identifier for tracking the request operation that is generated by the universally unique identifier (UUID) workflow.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `\b[0-9a-f]{8}\b-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-\b[0-9a-f]{12}\b`

Required: No

**Status**

The status of the permission set provisioning process.

Type: String

Valid Values: `IN_PROGRESS | FAILED | SUCCEEDED`

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

# PermissionSetProvisioningStatusMetadata

Provides information about the permission set provisioning status.

## Contents

**CreatedDate**

The date that the permission set was created.

Type: Timestamp

Required: No

**RequestId**

The identifier for tracking the request operation that is generated by the universally unique identifier (UUID) workflow.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `\b[0-9a-f]{8}\b-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-\b[0-9a-f]{12}\b`

Required: No

**Status**

The status of the permission set provisioning process.

Type: String

Valid Values: `IN_PROGRESS | FAILED | SUCCEEDED`

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

# PortalOptions

A structure that describes the options for the access portal associated with an application.

## Contents

**SignInOptions**

A structure that describes the sign-in options for the access portal.

Type: SignInOptions object

Required: No

**Visibility**

Indicates whether this application is visible in the access portal.

Type: String

Valid Values: `ENABLED | DISABLED`

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

# RefreshTokenGrant

A structure that defines configuration settings for an application that supports the OAuth 2.0 Refresh Token Grant. For more, see RFC 6749.

## Contents

The members of this exception structure are context-dependent.

## 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

# RegionMetadata

Contains information about an enabled Region of an IAM Identity Center instance, including the Region name, status, date added, and whether it is the primary Region.

## Contents

**AddedDate**

The timestamp when the Region was added to the IAM Identity Center instance. For the primary Region, this is the instance creation time.

Type: Timestamp

Required: No

**IsPrimaryRegion**

Indicates whether this is the primary Region where the IAM Identity Center instance was originally enabled. The primary Region cannot be removed.

Type: Boolean

Required: No

**RegionName**

The AWS Region name.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 32.

Pattern: `([a-z]+-){2,3}\d`

Required: No

**Status**

The current status of the Region. Valid values are ACTIVE (Region is operational), ADDING (Region extension workflow is in progress), or REMOVING (Region removal workflow is in progress).

Type: String

Valid Values: `ACTIVE | ADDING | REMOVING`

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

# ResourceServerConfig

A structure that describes the configuration of a resource server.

## Contents

### Scopes

A list of the IAM Identity Center access scopes that are associated with this resource server.

Type: String to ResourceServerScopeDetails object map

Key Length Constraints: Minimum length of 1. Maximum length of 80.

Key Pattern: `[^:=\-\.\s][0-9a-zA-Z_:\-\.]+`

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

# ResourceServerScopeDetails

A structure that describes details for an IAM Identity Center access scope that is associated with a resource server.

## Contents

**DetailedTitle**

The title of an access scope for a resource server.

Type: String

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

Required: No

**LongDescription**

The description of an access scope for a resource server.

Type: String

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

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

# ScopeDetails

A structure that describes an IAM Identity Center access scope and its authorized targets.

## Contents

**Scope**

The name of the access scope.

Type: String

Pattern: `([A-Za-z0-9_]{1,50})(:[A-Za-z0-9_]{1,50}){0,1}(:[A-Za-z0-9_]{1,50}){0,1}`

Required: Yes

**AuthorizedTargets**

An array list of ARNs of applications.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 100.

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::(\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}|:instance/(sso)?ins-[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

# SignInOptions

A structure that describes the sign-in options for an application portal.

## Contents

**Origin**

This determines how IAM Identity Center navigates the user to the target application. It can be one of the following values:

- `APPLICATION`: IAM Identity Center redirects the customer to the configured `ApplicationUrl`.
- `IDENTITY_CENTER`: IAM Identity Center uses SAML identity-provider initiated authentication to sign the customer directly into a SAML-based application.

Type: String

Valid Values: `IDENTITY_CENTER | APPLICATION`

Required: Yes

**ApplicationUrl**

The URL that accepts authentication requests for an application. This is a required parameter if the `Origin` parameter is `APPLICATION`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 512.

Pattern: `http(s)?:\/\/[-a-zA-Z0-9+&@#\/%?=~_|!:,.;]*[-a-zA-Z0-9+&bb@#\/%?=~_|]`

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

# Tag

A set of key-value pairs that are used to manage the resource. Tags can only be applied to permission sets and cannot be applied to corresponding roles that IAM Identity Center creates in AWS accounts.

## Contents

**Key**

The key for the tag.

Type: String

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

Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

Required: Yes

**Value**

The value of the tag.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `([\p{L}\p{Z}\p{N}_.:/=+\-@]*)`

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

# TokenExchangeGrant

A structure that defines configuration settings for an application that supports the OAuth 2.0 Token Exchange Grant. For more information, see RFC 8693.

## Contents

The members of this exception structure are context-dependent.

## 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

# TrustedTokenIssuerConfiguration

A structure that describes the configuration of a trusted token issuer. The structure and available settings are determined by the type of the trusted token issuer.

## Contents

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

### OidcJwtConfiguration

A structure that describes the settings for a trusted token issuer that works with OpenID Connect (OIDC) by using JSON Web Tokens (JWT).

Type: OidcJwtConfiguration 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

# TrustedTokenIssuerMetadata

A structure that describes a trusted token issuer.

## Contents

**Name**

The name of the trusted token issuer configuration in the instance of IAM Identity Center.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 255.

Pattern: `[\w+=,.@-]+`

Required: No

**TrustedTokenIssuerArn**

The ARN of the trusted token issuer configuration in the instance of IAM Identity Center.

Type: String

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

Pattern: `arn:aws(-[a-z]{1,5}){0,3}:sso::\d{12}:trustedTokenIssuer/(sso)?ins-[a-zA-Z0-9-.]{16}/tti-[a-f0-9]{8}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{4}-[a-f0-9]{12}`

Required: No

**TrustedTokenIssuerType**

The type of trusted token issuer.

Type: String

Valid Values: `OIDC_JWT`

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

# TrustedTokenIssuerUpdateConfiguration

A structure that contains details to be updated for a trusted token issuer configuration. The structure and settings that you can include depend on the type of the trusted token issuer being updated.

## Contents

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

**OidcJwtConfiguration**

A structure that describes an updated configuration for a trusted token issuer that uses OpenID Connect (OIDC) with JSON web tokens (JWT).

Type: OidcJwtUpdateConfiguration 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

# UpdateApplicationPortalOptions

A structure that describes the options for the access portal associated with an application that can be updated.

## Contents

### SignInOptions

A structure that describes the sign-in options for an application portal.

Type: SignInOptions 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

# 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