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Welcome to the IAM Identity Center API Reference

With AWS IAM Identity Center, you can manage sign-in security for your workforce identities, also known as workforce users. IAM Identity Center provides one place where you can create or connect workforce users and manage their access centrally across all their AWS accounts and applications. IAM Identity Center is the recommended approach for workforce authentication and authorization in AWS, for organizations of any size and type.

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

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

Many operations in the IAM Identity Center APIs 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 programmatically access 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.
Actions

The following actions are supported:

- 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
• DescribeTrustedTokenIssuer
• DetachCustomerManagedPolicyReferenceFromPermissionSet
• DetachManagedPolicyFromPermissionSet
• GetApplicationAccessScope
• GetApplicationAssignmentConfiguration
• GetApplicationAuthenticationMethod
• GetApplicationGrant
• GetInlinePolicyForPermissionSet
• GetPermissionsBoundaryForPermissionSet
• ListAccountAssignmentCreationStatus
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• ListApplicationAccessScopes
• ListApplicationAssignments
• ListApplicationAssignmentsForPrincipal
• ListApplicationAuthenticationMethods
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• ListApplicationProviders
• ListApplications
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• ListInstances
• ListManagedPoliciesInPermissionSet
• ListPermissionSetProvisioningStatus
• ListPermissionSets
• ListPermissionSetsProvisionedToAccount
- ListTagsForResource
- ListTrustedTokenIssuers
- ProvisionPermissionSet
- PutApplicationAccessScope
- PutApplicationAssignmentConfiguration
- PutApplicationAuthenticationMethod
- PutApplicationGrant
- PutInlinePolicyToPermissionSet
- PutPermissionsBoundaryToPermissionSet
- TagResource
- UntagResource
- UpdateApplication
- UpdateInstance
- UpdateInstanceAccessControlAttributeConfiguration
- UpdatePermissionSet
- UpdateTrustedTokenIssuer
AttachCustomerManagedPolicyReferenceToPermissionSet

Attaches the specified customer managed policy to the specified PermissionSet.

Request Syntax

```json
{
  "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws.iso|aws.iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}$
Required: Yes

**PermissionSetArn**

The ARN of the PermissionSet.

Type: String


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

  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.

  HTTP Status Code: 400

ValidationException

  The request failed because it contains a syntax error.

  HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):iam::aws:policy/\[\p{L}\p{M}\p{Z}\p{S}\p{N}\p{P}]\]+$`

Required: Yes

**PermissionSetArn**

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

Type: String


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

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.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript V3
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
CreateAccountAssignment

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

ℹ️ Note

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

ℹ️ 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.

ℹ️ 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](https://docs.aws.amazon.com/AmazonS3/latest/dev/ARNs.html) in the *AWS General Reference*.

Type: String


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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](https://docs.aws.amazon.com/IAM/latest/APIReference/).

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]{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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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.

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.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
CreateApplication

Creates an application in IAM Identity Center for the given application provider.

Request Syntax

```json
{
    "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

Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


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


Required: Yes

**Name**

The name of the Application.

Type: String

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

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

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

```json
{
    "ApplicationArn": "string"
}
```

Response Elements

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

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

**ApplicationArn**

Specifies the ARN of the application.

Type: String


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-.]{16}/apl-[a-zA-Z0-9]{16}$`

Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

**ConflictException**

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.

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.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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-Za-f0-9]{8}-[A-Za-f0-9]{4}-[A-Za-f0-9]{4}-[A-Za-f0-9]{4}-[A-Za-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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.
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.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
Createnstance

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 Createnstance 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](https://docs.aws.amazon.com/AmazonSSE/2010-11-09/index.html) in the *AWS General Reference*.

Type: String


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9.-]{16}$`

**Errors**

For information about the errors that are common to all actions, see [Common Errors](https://docs.aws.amazon.com/IAM/latest/UserGuide/IAM_error_codes.html).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

```json
{
  "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: `^[\u0009\u000A\u000D\u0020-\u007E\u00A1-\u00FF]*$`
### IAM Identity Center API Reference

**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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-\.]{16}$`

Required: Yes

**Name**

The name of the PermissionSet.

Type: String


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

Required: Yes

**RelayState**

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

Type: String


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+.\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

```json
{
    "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 Errors.

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

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.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.
HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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|aws-us-gov|aws-cn|aws-isol|aws-isob):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**

```json
{
   "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

IAM Identity Center

Pattern: \^arn:\(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b\):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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.
HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}$
**PermissionSetArn**

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

Type: String


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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]{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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteApplication

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

Request Syntax

```json
{
    "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.
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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
DeleteApplicationAssignment

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

Request Syntax

```json
{
   "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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]{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 Errors](#).  

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: \^arn:(aws|aws-us-gov|aws-cn|aws-is|aws-iso-b):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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400
See Also

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

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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Required: Yes
Response Elements

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

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

Conflictrexception

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400
See Also

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

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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.
HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-is|aws-iso-b):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 Errors](#).
**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

```json
{
   "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors.
AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/ (sso)?ins-[a-zA-Z0-9-\.]{16}$

Required: Yes

**PermissionSetArn**

The ARN of the PermissionSet.

Type: String


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: \^arn:\(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b\):sso:::instance/(sso)?ins-[a-zA-Z0-9-\.]{16}\$

Required: Yes

**PermissionSetArn**

The ARN of the permission set that should be deleted.

Type: String


Pattern: \^arn:\(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b\):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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.
HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
  "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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]{12}$`

Required: Yes

Response Elements

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

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400
See Also

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

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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}$

Required: Yes
Response Syntax

```json
{
  "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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

**InternalServerError**

The request processing has failed because of an unknown error, exception, or failure with an internal server.
HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

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

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

Request Syntax

```json
{
   "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::
d{12}:application/(sso)?ins-[a-zA-Z0-9-\.]{16}/apl-[a-zA-Z0-9]{16}$`

Required: Yes

Response Syntax

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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-isobotaws-isob):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


**CreatedAt**

The date the application was created.

Type: Timestamp

**Description**

The description of the Application.

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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::instance/(sso)?ins-[a-zA-Z0-9-].{16}$

**Name**

The application name.

Type: String

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

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

**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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
   "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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**

```json
{
   "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](https://docs.aws.amazon.com/AmazonS3/latest/dev/using-with-s3-api-interface.html) in the [AWS General Reference](https://docs.aws.amazon.com/AmazonS3/latest/dev/using-with-s3-api-interface.html).

Type: String


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400
**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
    "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::aws:applicationProvider/[a-zA-Z0-9-]+$`

Required: Yes

Response Syntax

```json
{
    "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

## See Also

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

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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/\((sso)\)?ins-[a-zA-Z0-9-.]{16}\$`

Required: Yes

**Response Syntax**

```
{
}
```
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

### 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](https://docs.aws.amazon.com/general/latest/aarch2016/index.html) in the [AWS General Reference](https://docs.aws.amazon.com/general/latest/aarch2016/index.html).

Type: String


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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+=,.@-]+$

**OwnerAccountId**

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

Type: String

Length Constraints: Fixed length of 12.

Pattern: ^\d{12}$

**Status**

The status of the instance.

Type: String

Valid Values: CREATE_IN_PROGRESS | DELETE_IN_PROGRESS | ACTIVE

**Errors**

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

**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.
HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}$

Required: Yes

Response Syntax

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


"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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.
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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

Gets the details of the permission set.

Request Syntax

```json
{
   "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]\{16}\$

Required: Yes

**PermissionSetArn**

The ARN of the permission set.

Type: String


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors.

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

Describes the status for the given permission set provisioning request.

Request Syntax

```json
{
   "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws iso|aws iso-b):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$
Response Syntax

```json
{
   "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 Errors.

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
   "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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

```json
{
   "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-isol|aws-iso-b):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 that describes the settings that apply to 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 Errors.

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript V3
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
DetachCustomerManagedPolicyReferenceFromPermissionSet

Detaches the specified customer managed policy from the specified PermissionSet.

Request Syntax

```json
{
    "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws iso|aws iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]\{16\}$
## PermissionSetArn

The ARN of the PermissionSet.

- **Type:** String
- **Length Constraints:** Minimum length of 10. Maximum length of 1224.
- **Pattern:** `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]\{16\}/ps-[a-zA-Z0-9-./]\{16\}$`

## Response Elements

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

## Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

**ConflictException**

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

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

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

Request Syntax

```json
{
    "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):iam::aws:policy/\p{L}\p{M}\p{Z}\p{S}\p{N}\p{P}]+$`
Required: Yes

**PermissionSetArn**

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

Type: String


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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

```json
{
    "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.


**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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.
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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

Retrieves the configuration of `PutApplicationAssignmentConfiguration`.

**Request Syntax**

```json
{
    "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::
\d{12}:application/(sso)?ins-[a-zA-Z0-9-\.]{16}/apl-[a-zA-Z0-9]{16}$

Required: Yes

**Response Syntax**

```json
{
    "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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400
See Also

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

- **AWS Command Line Interface**
- **AWS SDK for .NET**
- **AWS SDK for C++**
- **AWS SDK for Go**
- **AWS SDK for Java V2**
- **AWS SDK for JavaScript V3**
- **AWS SDK for PHP V3**
- **AWS SDK for Python**
- **AWS SDK for Ruby V3**
GetApplicationAuthenticationMethod

Retrieves details about an authentication method used by an application.

Request Syntax

```json
{
    "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws iso|aws iso b):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

```json
{
}
```
"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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

Indicates that the principal has crossed the throttling limits of the API operations.
HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetApplicationGrant

Retrieves details about an application grant.

**Request Syntax**

```json
{
    "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


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 Errors.

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400
ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
GetInlinePolicyForPermissionSet

Obtains the inline policy assigned to the permission set.

Request Syntax

```json
{
    "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}$`

Required: Yes

**PermissionSetArn**

The ARN of the permission set.

Type: String


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


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

Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400
**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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]\{16}\$`

Required: Yes

**PermissionSetArn**

The ARN of the PermissionSet.

Type: String


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-.]\{16}/ps-[a-zA-Z0-9-.]\{16}\$`
Required: Yes

Response Syntax

```json
{
   "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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

   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

**ResourceNotFound Exception**

Indicates that a requested resource is not found.

HTTP Status Code: 400

**Throttling Exception**

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

HTTP Status Code: 400

**Validation Exception**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

```json
{
    "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


*Pattern:* \^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-\.]{16}$
**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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400
**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

```json
{
    "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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**

```json
{
    "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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400
ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
**ListAccountAssignments**

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

**Request Syntax**

```json
{
    "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

IAM Identity Center

Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors.

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

Retrieves a list of the IAM Identity Center associated AWS accounts that the principal has access to.

Request Syntax

```json
{
  "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::instance/(sso)?ins-[a-zA-Z0-9-.]{16}$`
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}$

Required: Yes
**PrincipalType**

Specifies the type of the principal.

Type: String

Valid Values: USER | GROUP

Required: Yes

**Response Syntax**

```json
{
   "AccountAssignments": [
   {
      "AccountId": "string",
      "PermissionSetName": "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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-is|aws-iso-b):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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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**

```json
{
    "AccountIds": [ "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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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

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 Errors](#).

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

InternalServerError

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

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

ThrottlingException

Indicates that the principal has crossed the throttling limits of the API operations.
HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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**

```json
{
    "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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400
ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListApplicationAssignmentsForPrincipal

Lists the applications to which a specified principal is assigned.

Request Syntax

```json
{
  "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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**

```json
{
    "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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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+=/_\-\*]+$`
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 Errors](#).
AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

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

List the grants associated with an application.

Request Syntax

```json
{
    "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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+=/\_]*$`
Response Syntax

```json
{
    "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 Errors.
AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

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

```json
{
   "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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400
See Also

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

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

Lists all applications associated with the instance of IAM Identity Center. When listing applications for an instance in the management account, member accounts must use the applicationAccount parameter to filter the list to only applications created from that account.

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

Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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**

```json
{
   "Applications": [
      {
         "ApplicationAccount": "string",
         "ApplicationArn": "string",
      }
   ]
}
```
"ApplicationProviderArn": "string",
"CreatedDate": number,
"Description": "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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

InternalServerErrorException

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

HTTP Status Code: 500

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

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

Lists all customer managed policies attached to a specified PermissionSet.

Request Syntax

```json
{
    "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::permissionSet/(sso)?ins-[a-zA-Z0-9-.]\{16}/ps-[a-zA-Z0-9-./]\{16}$`

Required: Yes

**Response Syntax**

```json
{
    "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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

Indicates that the principal has crossed the throttling limits of the API operations.
HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

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
Response Syntax

```json
{
    "Instances": [
    {
        "CreatedDate": number,
        "IdentityStoreId": "string",
        "InstanceArn": "string",
        "Name": "string",
        "OwnerAccountID": "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.

**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 Errors.

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-isob):sso:::permissionSet/(sso)?ins-[a-zA-Z0-9-\.]\{16\}/ps-[a-zA-Z0-9-\.]\{16\}$

Required: Yes

**Response Syntax**

```json
{
   "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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

Indicates that the principal has crossed the throttling limits of the API operations.
HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

Lists the status of the permission set provisioning requests for a specified IAM Identity Center instance.

Request Syntax

```json
{
  "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400
ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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**

```json
{
   "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

Pattern: \^arn:\^(aws|aws-us-gov|aws-cn|aws-is\|aws-is\-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

For more information about using this API in one of the language-specific AWS SDKs, see the following:
- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
ListPermissionSetsProvisionedToAccount

Lists all the permission sets that are provisioned to a specified AWS account.

Request Syntax

```json
{
    "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

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Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-sso|aws-sso-b):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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

Lists the tags that are attached to a specified resource.

Request Syntax

```json
{
    "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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-\.]\{12\}$

Required: Yes

**Response Syntax**

```json
{
   "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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.
HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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**

```json
{
   "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\-Z\0-9+/\_]*$`

**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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}$

Required: Yes

**PermissionSetArn**

The ARN of the permission set.

Type: String

Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400
ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
    "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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.

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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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

```json
{
    "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400
ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

See Also
PutApplicationAuthenticationMethod

 Adds or updates an authentication method for an application.

 Request Syntax

```json
{
   "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400
**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

Adds a grant to an application.

**Request Syntax**

```json
{
    "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Required: Yes

Response Elements

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

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400
**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

Attaches an inline policy to a permission set.

ℹ️ 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


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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-is|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9- .]{16}$

Required: Yes

**PermissionSetArn**

The ARN of the permission set.

Type: String


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-is|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ServiceQuotaExceedededException**

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.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3
TagResource

Associates a set of tags with a specified resource.

Request Syntax

```json
{
    "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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

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.

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-isocharns:b):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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-isocharns:b):sso::(:instance/(sso)?ins-[a-zA-Z0-9-].{16})|(:permissionSet/(sso)?ins-[a-zA-Z0-9-].}$
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.


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 Errors.

AccessDeniedException

You do not have sufficient access to perform this action.

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
**InternalServerErrorException**

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

HTTP Status Code: 500

**ResourceNotFoundException**

Indicates that a requested resource is not found.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

Updates application properties.

Request Syntax

```json
{
   "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](https://docs.aws.amazon.com/AmazonS3/latest/userguide/arns.html) in the [AWS General Reference](https://docs.aws.amazon.com/AmazonS3/latest/userguide/arns.html).

Type: String


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::\d{12}:application/(sso)?ins-[a-zA-Z0-9-]\.\d{16}/apl-[a-zA-Z0-9]\{16}$

Required: Yes

**Description**

The description of the Application.
Type: String


Required: No

**Name**

Specifies the updated name for the application.

Type: String

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

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

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 Errors](#).
AccessDeniedException

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

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

- AWS Command Line Interface
• AWS SDK for .NET
• AWS SDK for C++
• AWS SDK for Go
• AWS SDK for Java V2
• AWS SDK for JavaScript V3
• AWS SDK for PHP V3
• AWS SDK for Python
• AWS SDK for Ruby V3
UpdateInstance

Update the details for the instance of IAM Identity Center that is owned by the AWS account.

Request Syntax

```
{
    "InstanceArn": "string",
    "Name": "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. For more information about ARNs, see Amazon Resource Names (ARNs) and AWS Service Namespaces in the AWS General Reference.

Type: String


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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: Yes
Response Elements

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

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

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.

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400

See Also

For more information about using this API in one of the language-specific AWS SDKs, see the following:
• **AWS Command Line Interface**
• **AWS SDK for .NET**
• **AWS SDK for C++**
• **AWS SDK for Go**
• **AWS SDK for Java V2**
• **AWS SDK for JavaScript V3**
• **AWS SDK for PHP V3**
• **AWS SDK for Python**
• **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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.
HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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


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

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Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-]{16}$`

Required: Yes

**PermissionSetArn**

The ARN of the permission set.

Type: String


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


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+)[\d\.]\d+)S\)\)$`

Required: No

Request Parameters
Response Elements

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

Errors

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

AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 400

ConflictException

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

InternalServerErrorException

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

HTTP Status Code: 500

ResourceNotFoundException

Indicates that a requested resource is not found.

HTTP Status Code: 400

ThrottlingException

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

HTTP Status Code: 400

ValidationException

The request failed because it contains a syntax error.

HTTP Status Code: 400
See Also

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

- AWS Command Line Interface
- AWS SDK for .NET
- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript V3
- AWS SDK for PHP V3
- AWS SDK for Python
- 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.

ℹ️ 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

```json
{
   "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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Errors](#).

**AccessDeniedException**

You do not have sufficient access to perform this action.

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.

HTTP Status Code: 400

**ThrottlingException**

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

HTTP Status Code: 400

**ValidationException**

The request failed because it contains a syntax error.

HTTP Status Code: 400

**See Also**

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

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

The 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`
- `Grant`
- `GrantItem`
- `IamAuthenticationMethod`
• InstanceAccessControlAttributeConfiguration
• InstanceMetadata
• JwtBearerGrant
• ListAccountAssignmentsFilter
• ListApplicationAssignmentsFilter
• ListApplicationsFilter
• OidcJwtConfiguration
• OidcJwtUpdateConfiguration
• OperationStatusFilter
• PermissionsBoundary
• PermissionSet
• PermissionSetProvisioningStatus
• PermissionSetProvisioningStatusMetadata
• PortalOptions
• RefreshTokenGrant
• 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


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 Go
- 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 Go
- 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Go](#)
- [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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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}-|)[0a-f]{8}-[0a-f]{4}-[0a-f]{4}-[0a-f]{12}$
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 Go
- 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws iso|aws iso-b):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}$

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 Go](#)
- [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: `^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[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 Go
- 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso::aws:applicationProvider/[a-zA-Z0-9-]+$

Required: No
**CreatedDate**

The date and time when the application was originally created.

Type: Timestamp

Required: No

**Description**

The description of the application.

Type: String


Required: No

**InstanceArn**

The ARN of the instance of IAM Identity Center that is configured with this application.

Type: String


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):sso:::instance/(sso)?ins-[a-zA-Z0-9-.]{16}$

Required: No

**Name**

The name of the application.

Type: String

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

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

Required: No

**PortalOptions**

A structure that describes the options for the access portal associated with this application.
Type: \texttt{PortalOptions} object

Required: No

\textbf{Status}

The current status of the application in this instance of IAM Identity Center.

Type: String

Valid Values: \texttt{ENABLED} | \texttt{DISABLED}

Required: No

\textbf{See Also}

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

- \texttt{AWS SDK for C++}
- \texttt{AWS SDK for Go}
- \texttt{AWS SDK for Java V2}
- \texttt{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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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]{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 Go](#)
- [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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Go](#)
- [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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)
AttachedManagedPolicy

A structure that stores the details of the 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):iam::aws:policy/[^\p{L}\p{M}\p{Z}\p{S}\p{N}\p{P}]+$

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 Go
- 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 Go
- 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 Go
- 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.

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 Go](#)
- [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.


Required: No

TrustedTokenIssuerArn

The ARN of the trusted token issuer.

Type: String


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Go
• 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


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


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 Go]
See Also

- 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


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 Go
• 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 Go](#)
- [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


Required: Yes

See Also

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

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

**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](https://docs.aws.amazon.com/AmazonS3/latest/API/ARNs.html) in the *AWS General Reference*.

Type: String


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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

---

**Status**

The current status of this Identity Center instance.

**Type**

String

**Valid Values**

CREATE_IN_PROGRESS | DELETE_IN_PROGRESS | ACTIVE

**Required**

No

---

**See Also**

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

- [AWS SDK for C++](#)
- [AWS SDK for Go](#)
- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)
JwttBearerGrant

A structure that defines configuration settings for an application that supports the JWT Bearer Token Authorization Grant.

Contents

AuthorizedTokenIssuers

A list of allowed token issuers trusted by the Identity Center instances for this application.

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 Go
- 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 Go]
- [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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Go
- 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


Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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++](https://aws.amazon.com/sdk-for-cpp/)
- [AWS SDK for Go](https://github.com/aws/aws-sdk-go)
- [AWS SDK for Java V2](https://github.com/aws/aws-java-sdk)
- [AWS SDK for Ruby V3](https://github.com/aws/aws-sdk-ruby)
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}\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}+)\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 Go](#)
- [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 Go
- 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 Go
- 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


Required: No
See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for 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


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

Required: No

Name

The name of the permission set.

Type: String


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

Pattern: ^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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


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]))(?:(:\d+)((?:([DH]))(?:([H])?))(?:([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 Go
- 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

Pattern: `^arn:(aws|aws-us-gov|aws-cn|awsIso|aws-iso-b):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 Go](#)
- [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: `^[0-9a-f]{8}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{4}-[0-9a-f]{12}$`

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 Go
- 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 Go
- 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.

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 Go
- 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_\-\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 Go
- 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


Required: No

LongDescription

The description of an access scope for a resource server.

Type: String


Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- 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}(:[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.


Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for 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


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 Go
• 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


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 Go
- 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.

**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 Go
- 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 Go
- 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


Pattern: `^arn:(aws|aws-us-gov|aws-cn|aws-iso|aws-iso-b):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 Go](#)
- [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 Go
- 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 Go
- AWS SDK for Java V2
- AWS SDK for Ruby V3
Common Parameters

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

Action

The action to be performed.

Type: string

Required: Yes

Version

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

Type: string

Required: Yes

X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

X-Amz-Credential

The credential scope value, which is a string that includes your access key, the date, the region you are targeting, the service you are requesting, and a termination string ("aws4_request"). The value is expressed in the following format: access_key/YYYYMMDD/region/service/aws4_request.
For more information, see [Create a signed AWS API request](https://docs.aws.amazon.com/iam/latest/userguide/create-signed-api-request.html) 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](https://docs.aws.amazon.com/iam/latest/userguide/create-signed-api-request.html) 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](https://docs.aws.amazon.com/iam/latest/userguide/aws-services-that-work-with-iam.html) in the IAM User Guide.

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

Type: string

Required: Conditional

**X-Amz-Signature**

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

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

Required: Conditional

**X-Amz-SignedHeaders**

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

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

Type: string

Required: Conditional
Common Errors

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

**AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 400

**IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 400

**InternalFailure**

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

HTTP Status Code: 500

**InvalidAction**

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

HTTP Status Code: 400

**InvalidClientTokenId**

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

HTTP Status Code: 403

**Unauthorized**

You do not have permission to perform this action.

HTTP Status Code: 400

**OptInRequired**

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

HTTP Status Code: 403
RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400
## Document History

The following table describes the important changes to the documentation in this release of the *IAM Identity Center* API Reference Guide.

- **Latest documentation update:** July 26, 2022

<table>
<thead>
<tr>
<th>Change</th>
<th>Description</th>
<th>Date Changed</th>
</tr>
</thead>
<tbody>
<tr>
<td>AWS Single Sign-On (AWS SSO) renamed to AWS IAM Identity Center</td>
<td>AWS introduces AWS IAM Identity Center. IAM Identity Center expands the capabilities of AWS Identity and Access Management (IAM) to help you centrally manage account and access to cloud applications for your workforce users. For more information, see <a href="#">IAM Identity Center rename</a>.</td>
<td>July 26th, 2022</td>
</tr>
<tr>
<td>Permission boundaries</td>
<td>Added new APIs to support permission boundaries and customer managed policies in permission sets. For more information, see <a href="#">Permission sets</a>.</td>
<td>July 14, 2022</td>
</tr>
<tr>
<td>ABAC</td>
<td>Added new APIs to support attribute-based access control (ABAC). For more information, see <a href="#">Attribute-based access control</a>.</td>
<td>November 4, 2020</td>
</tr>
<tr>
<td>New guide</td>
<td>This is the first release of the IAM Identity Center API Reference Guide.</td>
<td>September 10, 2020</td>
</tr>
</tbody>
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