AWS Single Sign-On

API Reference

AWS Single Sign-On: API Reference

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Welcome to the AWS Single Sign-On API Reference Guide

AWS Single Sign-On (SSO) is a cloud SSO service that makes it easy to centrally manage SSO access to multiple AWS accounts and business applications. This guide provides information on SSO operations which could be used for access management of AWS accounts. For information about AWS SSO features, see the AWS Single Sign-On User Guide.

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

> **Note**
> AWS provides SDKs that consist of libraries and sample code for various programming languages and platforms (Java, Ruby, .Net, iOS, Android, and more). The SDKs provide a convenient way to create programmatic access to AWS SSO 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:

AttachManagedPolicyToPermissionSet

Attaches an IAM 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 (p. 77)` 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 (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 3)

The ARN of the SSO 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 (p. 3)

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

Type: String

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

Required: Yes

PermissionSetArn (p. 3)

The ARN of the PermissionSet (p. 106) that the managed policy should be attached to.

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}`

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 (p. 114).

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: 400

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
- 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.

Note
The term *principal* here refers to a user or group that is defined in AWS SSO.

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 SSO-created IAM role. 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 (p. 77)   to make these updates.

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 (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 6)

The ARN of the SSO 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

PermissionSetArn (p. 6)

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

Type: String

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

Pattern: `arn:(aws|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 (p. 6)

An identifier for an object in AWS SSO, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in AWS SSO, see the AWS SSO 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 (p. 6)

The entity type for which the assignment will be created.

Type: String

Valid Values: `USER | GROUP`

Required: Yes

TargetId (p. 6)

TargetID is an AWS account identifier, typically a 10-12 digit string (For example, 123456789012).

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: Yes

TargetType (p. 6)

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 (p. 7)

> The status object for the account assignment creation operation.

> Type: AccountAssignmentOperationStatus (p. 99) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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 AWS SSO 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 *AWS SSO 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 (p. 112).

The request accepts the following data in JSON format.

InstanceAccessControlAttributeConfiguration (p. 10)

Specifies the AWS SSO 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 AWS SSO identity store. If a SAML assertion passes any of these attributes, AWS SSO will replace the attribute value with the value from the AWS SSO identity store.

Type: InstanceAccessControlAttributeConfiguration (p. 103) object

Required: Yes

InstanceArn (p. 10)

The ARN of the SSO instance under which the operation will be executed.

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

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 (p. 114).

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: 400

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
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

CreatePermissionSet

Creates a permission set within a specified SSO instance.

Note
To grant users and groups access to AWS account resources, use
CreateAccountAssignment (p. 6) .

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 (p. 112).

The request accepts the following data in JSON format.

Description (p. 12)

The description of the PermissionSet (p. 106).

Type: String

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

Pattern: [\u0009\u000A\u000D\u0020-\u007E\u00A0-\u00FF]*

Required: No

InstanceArn (p. 12)

The ARN of the SSO 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

Name (p. 12)

The name of the PermissionSet (p. 106).

Type: String

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

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

Required: Yes

RelayState (p. 12)

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

Type: String

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

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

Required: No

SessionDuration (p. 12)

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

Type: String

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

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

Required: No

Tags (p. 12)

The tags to attach to the new PermissionSet (p. 106).

Type: Array of Tag (p. 111) objects

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

Required: No

Response Syntax

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

Response Elements

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

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

PermissionSet (p. 13)

Defines the level of access on an AWS account.

Type: PermissionSet (p. 106) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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.

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 (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 16)

The ARN of the SSO 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

PermissionSetArn (p. 16)

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

Type: String

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

Pattern: `arn:(aws|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 (p. 16)

An identifier for an object in AWS SSO, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in AWS SSO, see the AWS SSO 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 (p. 16)

The entity type for which the assignment will be deleted.

Type: String

Valid Values: `USER | GROUP`

Required: Yes

TargetId (p. 16)

TargetID is an AWS account identifier, typically a 10-12 digit string (For example, 123456789012).

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: Yes

TargetType (p. 16)

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 (p. 17)

The status object for the account assignment deletion operation.

Type: AccountAssignmentOperationStatus (p. 99) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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 (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 20)

The ARN of the SSO 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

PermissionSetArn (p. 20)

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

Type: String

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

Pattern: `arn:(aws|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 (p. 114).

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: 400

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
- 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 AWS SSO 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 *AWS SSO User Guide*.

Request Syntax

```
{
    "InstanceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 22)

The ARN of the SSO instance under which the operation will be executed.

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

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 (p. 114).

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: 400

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:

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- AWS SDK for C++
- AWS SDK for Go
- AWS SDK for Java V2
- AWS SDK for JavaScript
- 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 (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 24)

The ARN of the SSO 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

PermissionSetArn (p. 24)

The ARN of the permission set that should be deleted.

Type: String

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

Pattern: `arn:(aws|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 (p. 114).

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: 400

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:

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- AWS SDK for JavaScript
- 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 (p. 112).

The request accepts the following data in JSON format.

AccountAssignmentCreationRequestId (p. 26)

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 (p. 26)

The ARN of the SSO 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

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 (p. 26)

> The status object for the account assignment creation operation.
>
> Type: AccountAssignmentOperationStatus (p. 99) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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 (p. 112).

The request accepts the following data in JSON format.

AccountAssignmentDeletionRequestId (p. 29)

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 (p. 29)

The ARN of the SSO 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

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 (p. 29)

> The status object for the account assignment deletion operation.

> Type: AccountAssignmentOperationStatus (p. 99) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribeInstanceAccessControlAttributeConfiguration

Returns the list of AWS SSO identity store attributes that have been configured to work with attributes-based access control (ABAC) for the specified AWS SSO 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 *AWS SSO User Guide*.

Request Syntax

```
{
    "InstanceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 32)

> The ARN of the SSO instance under which the operation will be executed.
>
> 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

Response Syntax

```
{
    "InstanceAccessControlAttributeConfiguration": {
        "AccessControlAttributes": [
            {
                "Key": "string",
                "Value": {
                    "Source": [ "string" ]
                }
            }
        ]
    },
    "Status": "string",
    "StatusReason": "string"
}
```

Response Elements

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

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

InstanceAccessControlAttributeConfiguration (p. 32)

Gets the list of AWS SSO identity store attributes that have been added to your ABAC configuration.

Type: InstanceAccessControlAttributeConfiguration (p. 103) object

Status (p. 32)

The status of the attribute configuration process.

Type: String

Valid Values: `ENABLED | CREATION_IN_PROGRESS | CREATION_FAILED`

StatusReason (p. 32)

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 (p. 114).

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: 400

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
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DescribePermissionSet

Gets the details of the permission set.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 35)

The ARN of the SSO 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

PermissionSetArn (p. 35)

The ARN of the permission set.

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}`

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 (p. 35)

>   Describes the level of access on an AWS account.

>   Type: PermissionSet (p. 106) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 38)

The ARN of the SSO 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

ProvisionPermissionSetRequestId (p. 38)

The identifier that is provided by the ProvisionPermissionSet (p. 77) call to retrieve the current status of the provisioning workflow.

Type: String

Length Constraints: Fixed length of 36.

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

Required: Yes

Response Syntax

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

```
    }
}
```

Response Elements

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

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

PermissionSetProvisioningStatus (p. 38)

The status object for the permission set provisioning operation.

Type: PermissionSetProvisioningStatus (p. 108) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

DetachManagedPolicyFromPermissionSet

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

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 41)

The ARN of the SSO 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 (p. 41)

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

Type: String

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

Required: Yes

PermissionSetArn (p. 41)

The ARN of the PermissionSet (p. 106) from which the policy should be detached.

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}`

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 (p. 114).

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: 400

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
- 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

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 44)

The ARN of the SSO 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

PermissionSetArn (p. 44)

The ARN of the permission set.

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}

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 (p. 44)

The IAM inline policy that is attached to the permission set.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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 SSO instance.

Request Syntax

```
{
    "Filter": {
        "Status": "string"
    },
    "InstanceArn": "string",
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 112).

The request accepts the following data in JSON format.

Filter (p. 47)

Filters results based on the passed attribute value.

Type: OperationStatusFilter (p. 105) object

Required: No

InstanceArn (p. 47)

The ARN of the SSO 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

MaxResults (p. 47)

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 (p. 47)

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: 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 (p. 48)

The status object for the account assignment creation operation.

Type: Array of AccountAssignmentOperationStatusMetadata (p. 101) objects

NextToken (p. 48)

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: Maximum length of 2048.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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 SSO instance.

Request Syntax

```
{
    "Filter": {
        "Status": "string"
    },
    "InstanceArn": "string",
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 112).

The request accepts the following data in JSON format.

Filter (p. 50)

Filters results based on the passed attribute value.

Type: OperationStatusFilter (p. 105) object

Required: No

InstanceArn (p. 50)

The ARN of the SSO 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

MaxResults (p. 50)

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 (p. 50)

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: Maximum length of 2048.

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

Required: No

Response Syntax

```
{
    "AccountAssignmentsDeletionStatus": [
        {
            "CreatedDate": number,
            "RequestId": "string",
            "Status": "string"
        }
    ],
    "NextToken": "string"
}
```

Response Elements

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

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

AccountAssignmentsDeletionStatus (p. 51)

The status object for the account assignment deletion operation.

Type: Array of AccountAssignmentOperationStatusMetadata (p. 101) objects

NextToken (p. 51)

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: Maximum length of 2048.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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

```
{
    "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 (p. 112).

The request accepts the following data in JSON format.

AccountId (p. 53)

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 (p. 53)

The ARN of the SSO 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

MaxResults (p. 53)

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 (p. 53)

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: Maximum length of 2048.

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

Required: No

PermissionSetArn (p. 53)

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

Type: String

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

Pattern: `arn:(aws|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 (p. 54)

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

Type: Array of AccountAssignment (p. 97) objects

NextToken (p. 54)

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: Maximum length of 2048.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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 (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 56)

The ARN of the SSO 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

MaxResults (p. 56)

The maximum number of results to display for the PermissionSet (p. 106).

Type: Integer

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

Required: No

NextToken (p. 56)

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: Maximum length of 2048.

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

Required: No

PermissionSetArn (p. 56)

The ARN of the PermissionSet (p. 106) from which the associated AWS accounts will be listed.

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}`

Required: Yes

ProvisioningStatus (p. 56)

The permission set provisioning status for an AWS account.

Type: String

Valid Values: `LATEST_PERMISSION_SET_PROVISIONED` | `LATEST_PERMISSION_SET_NOT_PROVISIONED`

Required: No

Response Syntax

```
{
    "AccountIds": [ "string" ],
    "NextToken": "string"
}
```

Response Elements

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

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

AccountIds (p. 57)

The list of AWS `AccountIds`.

Type: Array of strings

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

NextToken (p. 57)

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: Maximum length of 2048.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListInstances

Lists the SSO instances that the caller has access to.

Request Syntax

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

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 112).

The request accepts the following data in JSON format.

MaxResults (p. 59)

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 (p. 59)

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: Maximum length of 2048.

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

Required: No

Response Syntax

```
{
    "Instances": [
        {
            "IdentityStoreId": "string",
            "InstanceArn": "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 (p. 59)

Lists the SSO instances that the caller has access to.

Type: Array of InstanceMetadata (p. 104) objects

NextToken (p. 59)

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: Maximum length of 2048.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 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
- AWS SDK for PHP V3

- AWS SDK for Python
- AWS SDK for Ruby V3

ListManagedPoliciesInPermissionSet

Lists the IAM 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 (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 62)

The ARN of the SSO 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

MaxResults (p. 62)

The maximum number of results to display for the PermissionSet (p. 106).

Type: Integer

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

Required: No

NextToken (p. 62)

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: Maximum length of 2048.

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

Required: No

PermissionSetArn (p. 62)

The ARN of the PermissionSet (p. 106) whose managed policies will be listed.

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}`

Required: Yes

Response Syntax

```
{
   "AttachedManagedPolicies": [
      {
         "Arn": "string",
         "Name": "string"
      }
   ],
   "NextToken": "string"
}
```

Response Elements

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

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

AttachedManagedPolicies (p. 63)

The array of the AttachedManagedPolicy (p. 102) data type object.

Type: Array of AttachedManagedPolicy (p. 102) objects

NextToken (p. 63)

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: Maximum length of 2048.

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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 SSO instance.

Request Syntax

```
{
    "Filter": {
        "Status": "string"
    },
    "InstanceArn": "string",
    "MaxResults": number,
    "NextToken": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 112).

The request accepts the following data in JSON format.

Filter (p. 65)

Filters results based on the passed attribute value.

Type: OperationStatusFilter (p. 105) object

Required: No

InstanceArn (p. 65)

The ARN of the SSO 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

MaxResults (p. 65)

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 (p. 65)

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: 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 (p. 66)

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: Maximum length of 2048.

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

PermissionSetsProvisioningStatus (p. 66)

The status object for the permission set provisioning operation.

Type: Array of PermissionSetProvisioningStatusMetadata (p. 110) objects

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

ListPermissionSets

Lists the PermissionSet (p. 106)s in an SSO 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 (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 68)

The ARN of the SSO 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

MaxResults (p. 68)

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 (p. 68)

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: Maximum length of 2048.

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

Required: No

Response Syntax

```
{
   "NextToken": "string",
   "PermissionSets": [ "string" ]
}
```

Response Elements

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

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

NextToken (p. 69)

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: Maximum length of 2048.

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

PermissionSets (p. 69)

Defines the level of access on an AWS account.

Type: Array of strings

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

Pattern: `arn:(aws|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}`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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

```
{
    "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 (p. 112).

The request accepts the following data in JSON format.

AccountId (p. 71)

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 (p. 71)

The ARN of the SSO 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

MaxResults (p. 71)

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 (p. 71)

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: Maximum length of 2048.

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

Required: No

ProvisioningStatus (p. 71)

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 (p. 72)

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: Maximum length of 2048.

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

PermissionSets (p. 72)

Defines the level of access that an AWS account has.

Type: Array of strings

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

Pattern: `arn:(aws|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}`

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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

```
{
    "InstanceArn": "string",
    "NextToken": "string",
    "ResourceArn": "string"
}
```

Request Parameters

For information about the parameters that are common to all actions, see Common Parameters (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 74)

The ARN of the SSO 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

NextToken (p. 74)

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: Maximum length of 2048.

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

Required: No

ResourceArn (p. 74)

The ARN of the resource with the tags to be listed.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 2048.

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

Required: Yes

Response Syntax

```
{
    "NextToken": "string",
    "Tags": [
        {
            "Key": "string",
            "Value": "string"
        }
    ]
}
```

Response Elements

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

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

NextToken (p. 75)

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: Maximum length of 2048.

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

Tags (p. 75)

A set of key-value pairs that are used to manage the resource.

Type: Array of Tag (p. 111) objects

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- 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 (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 77)

The ARN of the SSO 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

PermissionSetArn (p. 77)

The ARN of the permission set.

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}`

Required: Yes

TargetId (p. 77)

TargetID is an AWS account identifier, typically a 10-12 digit string (For example, 123456789012).

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

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 (p. 78)

The status object for the permission set provisioning operation.

Type: PermissionSetProvisioningStatus (p. 108) object

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

PutInlinePolicyToPermissionSet

Attaches an IAM inline policy to a permission set.

> **Note**
> If the permission set is already referenced by one or more account assignments, you will need
> to call `ProvisionPermissionSet` (p. 77) 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 (p. 112).

The request accepts the following data in JSON format.

InlinePolicy (p. 80)

The IAM inline policy to attach to a PermissionSet (p. 106).

Type: String

Length Constraints: Minimum length of 1. Maximum length of 10240.

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

Required: Yes

InstanceArn (p. 80)

The ARN of the SSO 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

PermissionSetArn (p. 80)

The ARN of the permission set.

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}`

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 (p. 114).

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: 400

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
- 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

```
{
    "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 (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 83)

The ARN of the SSO 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

ResourceArn (p. 83)

The ARN of the resource with the tags to be listed.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 2048.

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

Required: Yes

Tags (p. 83)

A set of key-value pairs that are used to manage the resource.

Type: Array of Tag (p. 111) objects

Array Members: Minimum number of 0 items. Maximum number of 50 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 (p. 114).

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: 400

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
- 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 (p. 112).

The request accepts the following data in JSON format.

InstanceArn (p. 86)

The ARN of the SSO 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

ResourceArn (p. 86)

The ARN of the resource with the tags to be listed.

Type: String

Length Constraints: Minimum length of 10. Maximum length of 2048.

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

Required: Yes

TagKeys (p. 86)

The keys of tags that are attached to the resource.

Type: Array of strings

Array Members: Minimum number of 1 item. Maximum number of 50 items.

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

Pattern: `^([\p{L}\p{Z}\p{N}_.:/=+\-@]*)$`

Required: Yes

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- AWS SDK for PHP V3
- AWS SDK for Python

- AWS SDK for Ruby V3

UpdateInstanceAccessControlAttributeConfiguration

Updates the AWS SSO identity store attributes that you can use with the AWS SSO 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 AWS SSO identity store. If a SAML assertion passes any of these attributes, AWS SSO replaces the attribute value with the value from the AWS SSO identity store. For more information about ABAC, see Attribute-Based Access Control in the *AWS SSO 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 (p. 112).

The request accepts the following data in JSON format.

InstanceAccessControlAttributeConfiguration (p. 89)

Updates the attributes for your ABAC configuration.

Type: InstanceAccessControlAttributeConfiguration (p. 103) object

Required: Yes

InstanceArn (p. 89)

The ARN of the SSO instance under which the operation will be executed.

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

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 (p. 114).

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: 400

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
- 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 (p. 112).

The request accepts the following data in JSON format.

Description (p. 91)

The description of the PermissionSet (p. 106).

Type: String

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

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u00A0-\u00FF]*`

Required: No

InstanceArn (p. 91)

The ARN of the SSO 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

PermissionSetArn (p. 91)

The ARN of the permission set.

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}`

Required: Yes

RelayState (p. 91)

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

Type: String

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

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

Required: No

SessionDuration (p. 91)

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

Type: String

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

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

Required: No

Response Elements

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

Errors

For information about the errors that are common to all actions, see Common Errors (p. 114).

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: 400

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
- AWS SDK for PHP V3
- AWS SDK for Python
- AWS SDK for Ruby V3

Data Types

The AWS Single Sign-On Admin 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

These are AWS SSO 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`, AWS SSO 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 AWS SSO.

Type: String

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

Pattern: `[\p{L}\p{Z}\p{N}_.:\/=+\-@]+`

Required: Yes

Value

The value used for mapping a specified attribute to an identity source.

Type: AccessControlAttributeValue (p. 96) 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.

Contents

Source

The identity source to use when mapping a specified attribute to AWS SSO.

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 AWS SSO.

Contents

AccountId

The identifier of the AWS account.

Type: String

Length Constraints: Fixed length of 12.

Pattern: `\d{12}`

Required: No

PermissionSetArn

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

Type: String

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

Pattern: `arn:(aws|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 AWS SSO, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in AWS SSO, see the AWS SSO 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

AccountAssignmentOperationStatus

The status of the creation or deletion operation of an assignment that a principal needs to access an account.

Contents

CreatedDate

The date that the permission set was created.

Type: Timestamp

Required: No

FailureReason

The message that contains an error or exception in case of an operation failure.

Type: String

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

Required: No

PermissionSetArn

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

Type: String

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

Pattern: `arn:(aws|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 AWS SSO, such as a user or group. PrincipalIds are GUIDs (For example, f81d4fae-7dec-11d0-a765-00a0c91e6bf6). For more information about PrincipalIds in AWS SSO, see the AWS SSO Identity Store API Reference.

Type: String

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

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

Required: No

PrincipalType

The entity type for which the assignment will be created.

Type: String

Valid Values: `USER | GROUP`

Required: No

RequestId

The identifier for tracking the request operation that is generated by the universally unique identifier (UUID) workflow.

Type: String

Length Constraints: Fixed length of 36.

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

Required: No

Status

The status of the permission set provisioning process.

Type: String

Valid Values: `IN_PROGRESS | FAILED | SUCCEEDED`

Required: No

TargetId

TargetID is an AWS account identifier, typically a 10-12 digit string (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 (p. 97) creation request.

Contents

CreatedDate

The date that the permission set was created.

Type: Timestamp

Required: No

RequestId

The identifier for tracking the request operation that is generated by the universally unique identifier (UUID) workflow.

Type: String

Length Constraints: Fixed length of 36.

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

Required: No

Status

The status of the permission set provisioning process.

Type: String

Valid Values: `IN_PROGRESS | FAILED | SUCCEEDED`

Required: No

See Also

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

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

AttachedManagedPolicy

A structure that stores the details of the IAM managed policy.

Contents

Arn

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

Type: String

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

Required: No

Name

The name of the IAM 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

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 AWS SSO instance.

Type: Array of AccessControlAttribute (p. 95) 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 SSO instance.

Contents

IdentityStoreId

The identifier of the identity store that is connected to the SSO 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 SSO 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: 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 he 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

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 (p. 106).

Type: String

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

Pattern: `[\u0009\u000A\u000D\u0020-\u007E\u00A0-\u00FF]*`

Required: No

Name

The name of the permission set.

Type: String

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

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

Required: No

PermissionSetArn

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

Type: String

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

Pattern: `arn:(aws|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

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

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

Required: No

SessionDuration

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

Type: String

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

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

Required: No

See Also

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

- AWS SDK for C++
- AWS SDK for 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

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}`

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: `\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

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 AWS SSO creates in AWS accounts.

Contents

Key

The key for the tag.

Type: String

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

Pattern: `^([\p{L}\p{Z}\p{N}_.:/=+\-@]*)$`

Required: Yes

Value

The value of the tag.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 256.

Pattern: `^([\p{L}\p{Z}\p{N}_.:/=+\-@]*)$`

Required: Yes

See Also

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

- AWS SDK for C++
- AWS SDK for 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 Signature Version 4 Signing Process in the *Amazon Web Services General Reference*.

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 Task 2: Create a String to Sign for Signature Version 4 in the *Amazon Web Services General Reference*.

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 Handling Dates in Signature Version 4 in the *Amazon Web Services General Reference*.

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 Security Token Service, go to AWS Services That Work with IAM in the *IAM User Guide*.

Condition: If you're using temporary security credentials from the AWS Security Token Service, 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 Task 1: Create a Canonical Request For Signature Version 4 in the *Amazon Web Services General Reference*.

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

InvalidParameterCombination

Parameters that must not be used together were used together.

HTTP Status Code: 400

InvalidParameterValue

An invalid or out-of-range value was supplied for the input parameter.

HTTP Status Code: 400

InvalidQueryParameter

The AWS query string is malformed or does not adhere to AWS standards.

HTTP Status Code: 400

MalformedQueryString

The query string contains a syntax error.

HTTP Status Code: 404

MissingAction

The request is missing an action or a required parameter.

HTTP Status Code: 400

MissingAuthenticationToken

The request must contain either a valid (registered) AWS access key ID or X.509 certificate.

HTTP Status Code: 403

MissingParameter

A required parameter for the specified action is not supplied.

HTTP Status Code: 400

NotAuthorized

You do not have permission to perform this action.

HTTP Status Code: 400

OptInRequired

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

HTTP Status Code: 403

RequestExpired

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

HTTP Status Code: 400

ServiceUnavailable

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

HTTP Status Code: 503

ThrottlingException

The request was denied due to request throttling.

HTTP Status Code: 400

ValidationError

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

HTTP Status Code: 400

Document History

The following table describes the important changes to the documentation in this release of the *AWS SSO* API Reference Guide.

- **Latest documentation update:** September 10, 2020

Change	Description	Date Changed
New guide	This is the first release of the AWS Single Sign-On API Reference Guide.	September 10, 2020