



API Reference

# IAM Roles Anywhere



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# IAM Roles Anywhere: API Reference

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# Welcome

AWS Identity and Access Management Roles Anywhere provides a secure way for your workloads such as servers, containers, and applications that run outside of AWS to obtain temporary AWS credentials. Your workloads can use the same IAM policies and roles you have for native AWS applications to access AWS resources. Using IAM Roles Anywhere eliminates the need to manage long-term credentials for workloads running outside of AWS.

To use IAM Roles Anywhere, your workloads must use X.509 certificates issued by their certificate authority (CA). You register the CA with IAM Roles Anywhere as a trust anchor to establish trust between your public key infrastructure (PKI) and IAM Roles Anywhere. If you don't manage your own PKI system, you can use AWS Private Certificate Authority to create a CA and then use that to establish trust with IAM Roles Anywhere.

This guide describes the IAM Roles Anywhere operations that you can call programmatically. For more information about IAM Roles Anywhere, see the [IAM Roles Anywhere User Guide](#).

This document was last published on July 2, 2024.

# Actions

The following actions are supported:

- [CreateProfile](#)
- [CreateTrustAnchor](#)
- [DeleteAttributeMapping](#)
- [DeleteCrl](#)
- [DeleteProfile](#)
- [DeleteTrustAnchor](#)
- [DisableCrl](#)
- [DisableProfile](#)
- [DisableTrustAnchor](#)
- [EnableCrl](#)
- [EnableProfile](#)
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- [GetCrl](#)
- [GetProfile](#)
- [GetSubject](#)
- [GetTrustAnchor](#)
- [ImportCrl](#)
- [ListCrls](#)
- [ListProfiles](#)
- [ListSubjects](#)
- [ListTagsForResource](#)
- [ListTrustAnchors](#)
- [PutAttributeMapping](#)
- [PutNotificationSettings](#)
- [ResetNotificationSettings](#)
- [TagResource](#)
- [UntagResource](#)

- [UpdateCrl](#)
- [UpdateProfile](#)
- [UpdateTrustAnchor](#)

# CreateProfile

Creates a *profile*, a list of the roles that Roles Anywhere service is trusted to assume. You use profiles to intersect permissions with IAM managed policies.

**Required permissions:** rolesanywhere:CreateProfile.

## Request Syntax

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

{
  "durationSeconds": number,
  "enabled": boolean,
  "managedPolicyArns": [ "string" ],
  "name": "string",
  "requireInstanceProperties": boolean,
  "roleArns": [ "string" ],
  "sessionPolicy": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### durationSeconds

Used to determine how long sessions vended using this profile are valid for. See the Expiration section of the [CreateSession API documentation](#) page for more details. In requests, if this value is not provided, the default value will be 3600.

Type: Integer

Valid Range: Minimum value of 900. Maximum value of 43200.

Required: No

### enabled

Specifies whether the profile is enabled.

Type: Boolean

Required: No

### managedPolicyArns

A list of managed policy ARNs that apply to the vended session credentials.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 200.

Required: No

### name

The name of the profile.

Type: String

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

Pattern: `^[ a-zA-Z0-9-_*]$`

Required: Yes

### requireInstanceProperties

Specifies whether instance properties are required in temporary credential requests with this profile.

Type: Boolean

Required: No



## roleArns

A list of IAM roles that this profile can assume in a temporary credential request.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 250 items.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `^arn:aws(-[^\:]+)?:iam(:.*){2}(:role.*)$`

Required: Yes

## sessionPolicy

A session policy that applies to the trust boundary of the vended session credentials.

Type: String

Required: No

## tags

The tags to attach to the profile.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "profile": {
    "attributeMappings": [
      {
        "certificateField": "string",
        "mappingRules": [
```

```
        {
          "specifier": "string"
        }
      ]
    }
  ],
  "createdAt": "string",
  "createdBy": "string",
  "durationSeconds": number,
  "enabled": boolean,
  "managedPolicyArns": [ "string" ],
  "name": "string",
  "profileArn": "string",
  "profileId": "string",
  "requireInstanceProperties": boolean,
  "roleArns": [ "string" ],
  "sessionPolicy": "string",
  "updatedAt": "string"
}
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### profile

The state of the profile after a read or write operation.

Type: [ProfileDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ValidationException

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

# CreateTrustAnchor

Creates a trust anchor to establish trust between IAM Roles Anywhere and your certificate authority (CA). You can define a trust anchor as a reference to an AWS Private Certificate Authority (AWS Private CA) or by uploading a CA certificate. Your AWS workloads can authenticate with the trust anchor using certificates issued by the CA in exchange for temporary AWS credentials.

**Required permissions:** `rolesanywhere:CreateTrustAnchor`.

## Request Syntax

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

```
{
  "enabled": boolean,
  "name": "string",
  "notificationSettings": [
    {
      "channel": "string",
      "enabled": boolean,
      "event": "string",
      "threshold": number
    }
  ],
  "source": {
    "sourceData": { ... },
    "sourceType": "string"
  },
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### enabled

Specifies whether the trust anchor is enabled.

Type: Boolean

Required: No

### name

The name of the trust anchor.

Type: String

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

Pattern: `^[ a-zA-Z0-9-_*]$`

Required: Yes

### notificationSettings

A list of notification settings to be associated to the trust anchor.

Type: Array of [NotificationSetting](#) objects

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

Required: No

### source

The trust anchor type and its related certificate data.

Type: [Source](#) object

Required: Yes

### tags

The tags to attach to the trust anchor.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

## Response Syntax

```
HTTP/1.1 201
Content-type: application/json

{
  "trustAnchor": {
    "createdAt": "string",
    "enabled": boolean,
    "name": "string",
    "notificationSettings": [
      {
        "channel": "string",
        "configuredBy": "string",
        "enabled": boolean,
        "event": "string",
        "threshold": number
      }
    ],
    "source": {
      "sourceData": { ... },
      "sourceType": "string"
    },
    "trustAnchorArn": "string",
    "trustAnchorId": "string",
    "updatedAt": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### trustAnchor

The state of the trust anchor after a read or write operation.

Type: [TrustAnchorDetail](#) object

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ValidationException

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

# DeleteAttributeMapping

Delete an entry from the attribute mapping rules enforced by a given profile.

## Request Syntax

```
DELETE /profiles/profileId/mappings?  
certificateField=certificateField&specifiers=specifiers HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### certificateField

Fields (x509Subject, x509Issuer and x509SAN) within X.509 certificates.

Valid Values: x509Subject | x509Issuer | x509SAN

Required: Yes

### profileId

The unique identifier of the profile.

Length Constraints: Fixed length of 36.

Pattern: [a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}

Required: Yes

### specifiers

A list of specifiers of a certificate field; for example, CN, OU, UID from a Subject.

## Request Body

The request does not have a request body.

## Response Syntax

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



```
{
  "profile": {
    "attributeMappings": [
      {
        "certificateField": "string",
        "mappingRules": [
          {
            "specifier": "string"
          }
        ]
      }
    ],
    "createdAt": "string",
    "createdBy": "string",
    "durationSeconds": number,
    "enabled": boolean,
    "managedPolicyArns": [ "string" ],
    "name": "string",
    "profileArn": "string",
    "profileId": "string",
    "requireInstanceProperties": boolean,
    "roleArns": [ "string" ],
    "sessionPolicy": "string",
    "updatedAt": "string"
  }
}
```

## Response Elements

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

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

### profile

The state of the profile after a read or write operation.

Type: [ProfileDetail](#) object

## Errors

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

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

## ValidationException

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

# DeleteCrl

Deletes a certificate revocation list (CRL).

**Required permissions:** rolesanywhere:DeleteCrl.

## Request Syntax

```
DELETE /crl/crlId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### crlId

The unique identifier of the certificate revocation list (CRL).

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "crl": {
    "createdAt": "string",
    "crlArn": "string",
    "crlData": blob,
    "crlId": "string",
    "enabled": boolean,
```

```
  "name": "string",  
  "trustAnchorArn": "string",  
  "updatedAt": "string"  
}  
}
```

## Response Elements

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

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

### crl

The state of the certificate revocation list (CRL) after a read or write operation.

Type: [CrlDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404

## See Also

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

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

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

# DeleteProfile

Deletes a profile.

**Required permissions:** rolesanywhere:DeleteProfile.

## Request Syntax

```
DELETE /profile/profileId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [profileId](#)

The unique identifier of the profile.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "profile": {
    "attributeMappings": [
      {
        "certificateField": "string",
        "mappingRules": [
```

```
        {
          "specifier": "string"
        }
      ]
    }
  ],
  "createdAt": "string",
  "createdBy": "string",
  "durationSeconds": number,
  "enabled": boolean,
  "managedPolicyArns": [ "string" ],
  "name": "string",
  "profileArn": "string",
  "profileId": "string",
  "requireInstanceProperties": boolean,
  "roleArns": [ "string" ],
  "sessionPolicy": "string",
  "updatedAt": "string"
}
}
```

## Response Elements

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

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

### profile

The state of the profile after a read or write operation.

Type: [ProfileDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

## See Also

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

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



# DeleteTrustAnchor

Deletes a trust anchor.

**Required permissions:** `rolesanywhere:DeleteTrustAnchor`.

## Request Syntax

```
DELETE /trustanchor/trustAnchorId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### trustAnchorId

The unique identifier of the trust anchor.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "trustAnchor": {
    "createdAt": "string",
    "enabled": boolean,
    "name": "string",
    "notificationSettings": [
      {
        "channel": "string",
```

```
    "configuredBy": "string",
    "enabled": boolean,
    "event": "string",
    "threshold": number
  }
],
"source": {
  "sourceData": { ... },
  "sourceType": "string"
},
"trustAnchorArn": "string",
"trustAnchorId": "string",
"updatedAt": "string"
}
```

## Response Elements

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

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

### trustAnchor

The state of the trust anchor after a read or write operation.

Type: [TrustAnchorDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404

## See Also

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

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

# DisableCrl

Disables a certificate revocation list (CRL).

**Required permissions:** `rolesanywhere:DisableCrl`.

## Request Syntax

```
POST /crl/crlId/disable HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### crlId

The unique identifier of the certificate revocation list (CRL).

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "crl": {
    "createdAt": "string",
    "crlArn": "string",
    "crlData": blob,
    "crlId": "string",
    "enabled": boolean,
```

```
    "name": "string",
    "trustAnchorArn": "string",
    "updatedAt": "string"
  }
}
```

## Response Elements

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

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

### crl

The state of the certificate revocation list (CRL) after a read or write operation.

Type: [CrlDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404

## See Also

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

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

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

# DisableProfile

Disables a profile. When disabled, temporary credential requests with this profile fail.

**Required permissions:** `rolesanywhere:DisableProfile`.

## Request Syntax

```
POST /profile/profileId/disable HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [profileId](#)

The unique identifier of the profile.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "profile": {
    "attributeMappings": [
      {
        "certificateField": "string",
        "mappingRules": [
```

```
        {
          "specifier": "string"
        }
      ]
    }
  ],
  "createdAt": "string",
  "createdBy": "string",
  "durationSeconds": number,
  "enabled": boolean,
  "managedPolicyArns": [ "string" ],
  "name": "string",
  "profileArn": "string",
  "profileId": "string",
  "requireInstanceProperties": boolean,
  "roleArns": [ "string" ],
  "sessionPolicy": "string",
  "updatedAt": "string"
}
}
```

## Response Elements

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

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

### profile

The state of the profile after a read or write operation.

Type: [ProfileDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403



## ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

## See Also

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

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

# DisableTrustAnchor

Disables a trust anchor. When disabled, temporary credential requests specifying this trust anchor are unauthorized.

**Required permissions:** `rolesanywhere:DisableTrustAnchor`.

## Request Syntax

```
POST /trustanchor/trustAnchorId/disable HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### trustAnchorId

The unique identifier of the trust anchor.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "trustAnchor": {
    "createdAt": "string",
    "enabled": boolean,
    "name": "string",
    "notificationSettings": [
```

```
{
  "channel": "string",
  "configuredBy": "string",
  "enabled": boolean,
  "event": "string",
  "threshold": number
},
"source": {
  "sourceData": { ... },
  "sourceType": "string"
},
"trustAnchorArn": "string",
"trustAnchorId": "string",
"updatedAt": "string"
}
```

## Response Elements

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

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

### trustAnchor

The state of the trust anchor after a read or write operation.

Type: [TrustAnchorDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

## HTTP Status Code: 404

### See Also

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

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

# EnableCrl

Enables a certificate revocation list (CRL). When enabled, certificates stored in the CRL are unauthorized to receive session credentials.

**Required permissions:** `rolesanywhere:EnableCrl`.

## Request Syntax

```
POST /crl/crlId/enable HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### crlId

The unique identifier of the certificate revocation list (CRL).

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{
  "crl": {
    "createdAt": "string",
    "crlArn": "string",
    "crlData": blob,
    "crlId": "string",
```

```
"enabled": boolean,  
"name": "string",  
"trustAnchorArn": "string",  
"updatedAt": "string"  
}  
}
```

## Response Elements

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

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

### [crl](#)

The state of the certificate revocation list (CRL) after a read or write operation.

Type: [CrlDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404

## See Also

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

- [AWS Command Line Interface](#)

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

# EnableProfile

Enables temporary credential requests for a profile.

**Required permissions:** `rolesanywhere:EnableProfile`.

## Request Syntax

```
POST /profile/profileId/enable HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [profileId](#)

The unique identifier of the profile.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "profile": {
    "attributeMappings": [
      {
        "certificateField": "string",
        "mappingRules": [
```



```
        {
          "specifier": "string"
        }
      ]
    }
  ],
  "createdAt": "string",
  "createdBy": "string",
  "durationSeconds": number,
  "enabled": boolean,
  "managedPolicyArns": [ "string" ],
  "name": "string",
  "profileArn": "string",
  "profileId": "string",
  "requireInstanceProperties": boolean,
  "roleArns": [ "string" ],
  "sessionPolicy": "string",
  "updatedAt": "string"
}
}
```

## Response Elements

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

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

### profile

The state of the profile after a read or write operation.

Type: [ProfileDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

## See Also

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

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

# EnableTrustAnchor

Enables a trust anchor. When enabled, certificates in the trust anchor chain are authorized for trust validation.

**Required permissions:** `rolesanywhere:EnableTrustAnchor`.

## Request Syntax

```
POST /trustanchor/trustAnchorId/enable HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### trustAnchorId

The unique identifier of the trust anchor.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "trustAnchor": {
    "createdAt": "string",
    "enabled": boolean,
    "name": "string",
    "notificationSettings": [
```

```
{
  "channel": "string",
  "configuredBy": "string",
  "enabled": boolean,
  "event": "string",
  "threshold": number
},
"source": {
  "sourceData": { ... },
  "sourceType": "string"
},
"trustAnchorArn": "string",
"trustAnchorId": "string",
"updatedAt": "string"
}
```

## Response Elements

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

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

### trustAnchor

The state of the trust anchor after a read or write operation.

Type: [TrustAnchorDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

## HTTP Status Code: 404

### See Also

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

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

# GetCrl

Gets a certificate revocation list (CRL).

**Required permissions:** rolesanywhere:GetCrl.

## Request Syntax

```
GET /crl/crlId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### crlId

The unique identifier of the certificate revocation list (CRL).

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "crl": {
    "createdAt": "string",
    "crlArn": "string",
    "crlData": blob,
    "crlId": "string",
    "enabled": boolean,
```

```
    "name": "string",
    "trustAnchorArn": "string",
    "updatedAt": "string"
  }
}
```

## Response Elements

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

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

### crl

The state of the certificate revocation list (CRL) after a read or write operation.

Type: [CrlDetail](#) object

## Errors

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

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404

## See Also

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

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

- [AWS SDK for PHP V3](#)
- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# GetProfile

Gets a profile.

**Required permissions:** rolesanywhere:GetProfile.

## Request Syntax

```
GET /profile/profileId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [profileId](#)

The unique identifier of the profile.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "profile": {
    "attributeMappings": [
      {
        "certificateField": "string",
        "mappingRules": [
```

```
        {
          "specifier": "string"
        }
      ]
    }
  ],
  "createdAt": "string",
  "createdBy": "string",
  "durationSeconds": number,
  "enabled": boolean,
  "managedPolicyArns": [ "string" ],
  "name": "string",
  "profileArn": "string",
  "profileId": "string",
  "requireInstanceProperties": boolean,
  "roleArns": [ "string" ],
  "sessionPolicy": "string",
  "updatedAt": "string"
}
}
```

## Response Elements

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

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

### profile

The state of the profile after a read or write operation.

Type: [ProfileDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

## See Also

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

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

# GetSubject

Gets a *subject*, which associates a certificate identity with authentication attempts. The subject stores auditing information such as the status of the last authentication attempt, the certificate data used in the attempt, and the last time the associated identity attempted authentication.

**Required permissions:** `rolesanywhere:GetSubject`.

## Request Syntax

```
GET /subject/subjectId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### subjectId

The unique identifier of the subject.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "subject": {
    "createdAt": "string",
    "credentials": [
```

```
{
  {
    "enabled": boolean,
    "failed": boolean,
    "issuer": "string",
    "seenAt": "string",
    "serialNumber": "string",
    "x509CertificateData": "string"
  }
],
"enabled": boolean,
"instanceProperties": [
  {
    "failed": boolean,
    "properties": {
      "string" : "string"
    },
    "seenAt": "string"
  }
],
"lastSeenAt": "string",
"subjectArn": "string",
"subjectId": "string",
"updatedAt": "string",
"x509Subject": "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.

### subject

The state of the subject after a read or write operation.

Type: [SubjectDetail](#) object

## Errors

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

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

## See Also

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

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

# GetTrustAnchor

Gets a trust anchor.

**Required permissions:** `rolesanywhere:GetTrustAnchor`.

## Request Syntax

```
GET /trustanchor/trustAnchorId HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### trustAnchorId

The unique identifier of the trust anchor.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "trustAnchor": {
    "createdAt": "string",
    "enabled": boolean,
    "name": "string",
    "notificationSettings": [
      {
        "channel": "string",
```

```
    "configuredBy": "string",
    "enabled": boolean,
    "event": "string",
    "threshold": number
  }
],
"source": {
  "sourceData": { ... },
  "sourceType": "string"
},
"trustAnchorArn": "string",
"trustAnchorId": "string",
"updatedAt": "string"
}
```

## Response Elements

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

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

### trustAnchor

The state of the trust anchor after a read or write operation.

Type: [TrustAnchorDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404



## ValidationException

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

# ImportCrl

Imports the certificate revocation list (CRL). A CRL is a list of certificates that have been revoked by the issuing certificate Authority (CA). In order to be properly imported, a CRL must be in PEM format. IAM Roles Anywhere validates against the CRL before issuing credentials.

**Required permissions:** `rolesanywhere:ImportCrl`.

## Request Syntax

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

{
  "crlData": blob,
  "enabled": boolean,
  "name": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ],
  "trustAnchorArn": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### crlData

The x509 v3 specified certificate revocation list (CRL).

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 1. Maximum length of 300000.

Required: Yes

### enabled

Specifies whether the certificate revocation list (CRL) is enabled.

Type: Boolean

Required: No

### name

The name of the certificate revocation list (CRL).

Type: String

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

Pattern: `^[ a-zA-Z0-9-_*]*$`

Required: Yes

### tags

A list of tags to attach to the certificate revocation list (CRL).

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: No

### trustAnchorArn

The ARN of the TrustAnchor the certificate revocation list (CRL) will provide revocation for.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `^arn:aws(-[^\:]+)?:rolesanywhere(:.*)"2}(:trust-anchor.*)$`

Required: Yes

## Response Syntax

```
HTTP/1.1 201
```

```
Content-type: application/json

{
  "crl": {
    "createdAt": "string",
    "crlArn": "string",
    "crlData": blob,
    "crlId": "string",
    "enabled": boolean,
    "name": "string",
    "trustAnchorArn": "string",
    "updatedAt": "string"
  }
}
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response.

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

### crl

The state of the certificate revocation list (CRL) after a read or write operation.

Type: [CrlDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ValidationException**

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

# ListCrls

Lists all certificate revocation lists (CRL) in the authenticated account and AWS Region.

**Required permissions:** `rolesanywhere:ListCrls`.

## Request Syntax

```
GET /crls?nextToken=nextToken&pageSize=pageSize HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [nextToken](#)

A token that indicates where the output should continue from, if a previous request did not show all results. To get the next results, make the request again with this value.

Length Constraints: Minimum length of 1. Maximum length of 10000.

### [pageSize](#)

The number of resources in the paginated list.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "crls": [
    {
      "createdAt": "string",
      "crlArn": "string",
      "crlData": blob,
      "crlId": "string",
```

```
    "enabled": boolean,
    "name": "string",
    "trustAnchorArn": "string",
    "updatedAt": "string"
  }
],
"nextToken": "string"
}
```

## Response Elements

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

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

### crls

A list of certificate revocation lists (CRL).

Type: Array of [CrlDetail](#) objects

### nextToken

A token that indicates where the output should continue from, if a previous request did not show all results. To get the next results, make the request again with this value.

Type: String

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ValidationException**

Validation exception error.

HTTP Status Code: 400

## See Also

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

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



# ListProfiles

Lists all profiles in the authenticated account and AWS Region.

**Required permissions:** `rolesanywhere:ListProfiles`.

## Request Syntax

```
GET /profiles?nextToken=nextToken&pageSize=pageSize HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [nextToken](#)

A token that indicates where the output should continue from, if a previous request did not show all results. To get the next results, make the request again with this value.

Length Constraints: Minimum length of 1. Maximum length of 10000.

### [pageSize](#)

The number of resources in the paginated list.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "profiles": [
    {
      "attributeMappings": [
```

```
{
  {
    "certificateField": "string",
    "mappingRules": [
      {
        "specifier": "string"
      }
    ]
  }
],
"createdAt": "string",
"createdBy": "string",
"durationSeconds": number,
"enabled": boolean,
"managedPolicyArns": [ "string" ],
"name": "string",
"profileArn": "string",
"profileId": "string",
"requireInstanceProperties": boolean,
"roleArns": [ "string" ],
"sessionPolicy": "string",
"updatedAt": "string"
}
]
```

## Response Elements

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

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

### nextToken

A token that indicates where the output should continue from, if a previous request did not show all results. To get the next results, make the request again with this value.

Type: String

### profiles

A list of profiles.

Type: Array of [ProfileDetail](#) objects

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ValidationException**

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

# ListSubjects

Lists the subjects in the authenticated account and AWS Region.

**Required permissions:** `rolesanywhere:ListSubjects`.

## Request Syntax

```
GET /subjects?nextToken=nextToken&pageSize=pageSize HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [nextToken](#)

A token that indicates where the output should continue from, if a previous request did not show all results. To get the next results, make the request again with this value.

Length Constraints: Minimum length of 1. Maximum length of 10000.

### [pageSize](#)

The number of resources in the paginated list.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "subjects": [
    {
      "createdAt": "string",
      "enabled": boolean,
```

```
    "lastSeenAt": "string",
    "subjectArn": "string",
    "subjectId": "string",
    "updatedAt": "string",
    "x509Subject": "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

A token that indicates where the output should continue from, if a previous request did not show all results. To get the next results, make the request again with this value.

Type: String

### subjects

A list of subjects.

Type: Array of [SubjectSummary](#) objects

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ValidationException**

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

# ListTagsForResource

Lists the tags attached to the resource.

**Required permissions:** `rolesanywhere:ListTagsForResource`.

## Request Syntax

```
GET /ListTagsForResource?resourceArn=resourceArn HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### resourceArn

The ARN of the resource.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

## Request Body

The request does not have a request body.

## Response Syntax

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

```
{  
  "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.

### tags

A list of tags attached to the resource.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404

### **ValidationException**

Validation exception error.

HTTP Status Code: 400

## See Also

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

- [AWS Command Line Interface](#)



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

# ListTrustAnchors

Lists the trust anchors in the authenticated account and AWS Region.

**Required permissions:** `rolesanywhere:ListTrustAnchors`.

## Request Syntax

```
GET /trustanchors?nextToken=nextToken&pageSize=pageSize HTTP/1.1
```

## URI Request Parameters

The request uses the following URI parameters.

### [nextToken](#)

A token that indicates where the output should continue from, if a previous request did not show all results. To get the next results, make the request again with this value.

Length Constraints: Minimum length of 1. Maximum length of 10000.

### [pageSize](#)

The number of resources in the paginated list.

## Request Body

The request does not have a request body.

## Response Syntax

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

{
  "nextToken": "string",
  "trustAnchors": [
    {
      "createdAt": "string",
      "enabled": boolean,

```

```
    "name": "string",
    "notificationSettings": [
      {
        "channel": "string",
        "configuredBy": "string",
        "enabled": boolean,
        "event": "string",
        "threshold": number
      }
    ],
    "source": {
      "sourceData": { ... },
      "sourceType": "string"
    },
    "trustAnchorArn": "string",
    "trustAnchorId": "string",
    "updatedAt": "string"
  }
]
```

## Response Elements

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

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

### nextToken

A token that indicates where the output should continue from, if a previous request did not show all results. To get the next results, make the request again with this value.

Type: String

### trustAnchors

A list of trust anchors.

Type: Array of [TrustAnchorDetail](#) objects

## Errors

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

## AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## ValidationException

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

# PutAttributeMapping

Put an entry in the attribute mapping rules that will be enforced by a given profile. A mapping specifies a certificate field and one or more specifiers that have contextual meanings.

## Request Syntax

```
PUT /profiles/profileId/mappings HTTP/1.1
Content-type: application/json

{
  "certificateField": "string",
  "mappingRules": [
    {
      "specifier": "string"
    }
  ]
}
```

## URI Request Parameters

The request uses the following URI parameters.

### profileId

The unique identifier of the profile.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### certificateField

Fields (x509Subject, x509Issuer and x509SAN) within X.509 certificates.

Type: String

Valid Values: x509Subject | x509Issuer | x509SAN

Required: Yes

### mappingRules

A list of mapping entries for every supported specifier or sub-field.

Type: Array of [MappingRule](#) objects

Required: Yes

## Response Syntax

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

{
  "profile": {
    "attributeMappings": [
      {
        "certificateField": "string",
        "mappingRules": [
          {
            "specifier": "string"
          }
        ]
      }
    ],
    "createdAt": "string",
    "createdBy": "string",
    "durationSeconds": number,
    "enabled": boolean,
    "managedPolicyArns": [ "string" ],
    "name": "string",
    "profileArn": "string",
    "profileId": "string",
    "requireInstanceProperties": boolean,
    "roleArns": [ "string" ],
    "sessionPolicy": "string",
    "updatedAt": "string"
  }
}
```

```
}  
}
```

## Response Elements

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

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

### profile

The state of the profile after a read or write operation.

Type: [ProfileDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404

### **ValidationException**

Validation exception error.

HTTP Status Code: 400

## See Also

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

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



# PutNotificationSettings

Attaches a list of *notification settings* to a trust anchor.

A notification setting includes information such as event name, threshold, status of the notification setting, and the channel to notify.

**Required permissions:** `rolesanywhere:PutNotificationSettings`.

## Request Syntax

```
PATCH /put-notifications-settings HTTP/1.1
Content-type: application/json
```

```
{
  "notificationSettings": [
    {
      "channel": "string",
      "enabled": boolean,
      "event": "string",
      "threshold": number
    }
  ],
  "trustAnchorId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### notificationSettings

A list of notification settings to be associated to the trust anchor.

Type: Array of [NotificationSetting](#) objects

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

Required: Yes

### trustAnchorId

The unique identifier of the trust anchor.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Response Syntax

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

{
  "trustAnchor": {
    "createdAt": "string",
    "enabled": boolean,
    "name": "string",
    "notificationSettings": [
      {
        "channel": "string",
        "configuredBy": "string",
        "enabled": boolean,
        "event": "string",
        "threshold": number
      }
    ],
    "source": {
      "sourceData": { ... },
      "sourceType": "string"
    },
    "trustAnchorArn": "string",
    "trustAnchorId": "string",
    "updatedAt": "string"
  }
}
```

## Response Elements

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

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

### [trustAnchor](#)

The state of the trust anchor after a read or write operation.

Type: [TrustAnchorDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404

### **ValidationException**

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

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

# ResetNotificationSettings

Resets the *custom notification setting* to IAM Roles Anywhere default setting.

**Required permissions:** rolesanywhere:ResetNotificationSettings.

## Request Syntax

```
PATCH /reset-notifications-settings HTTP/1.1
Content-type: application/json

{
  "notificationSettingKeys": [
    {
      "channel": "string",
      "event": "string"
    }
  ],
  "trustAnchorId": "string"
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### notificationSettingKeys

A list of notification setting keys to reset. A notification setting key includes the event and the channel.

Type: Array of [NotificationSettingKey](#) objects

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

Required: Yes

### trustAnchorId

The unique identifier of the trust anchor.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Response Syntax

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

{
  "trustAnchor": {
    "createdAt": "string",
    "enabled": boolean,
    "name": "string",
    "notificationSettings": [
      {
        "channel": "string",
        "configuredBy": "string",
        "enabled": boolean,
        "event": "string",
        "threshold": number
      }
    ],
    "source": {
      "sourceData": { ... },
      "sourceType": "string"
    },
    "trustAnchorArn": "string",
    "trustAnchorId": "string",
    "updatedAt": "string"
  }
}
```

## Response Elements

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

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

## trustAnchor

The state of the trust anchor after a read or write operation.

Type: [TrustAnchorDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404

### **ValidationException**

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

- [AWS SDK for Python](#)
- [AWS SDK for Ruby V3](#)



# TagResource

Attaches tags to a resource.

**Required permissions:** rolesanywhere:TagResource.

## Request Syntax

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

```
{
  "resourceArn": "string",
  "tags": [
    {
      "key": "string",
      "value": "string"
    }
  ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### resourceArn

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

### tags

The tags to attach to the resource.

Type: Array of [Tag](#) objects

Array Members: Minimum number of 0 items. Maximum number of 200 items.

Required: Yes

## Response Syntax

```
HTTP/1.1 201
```

## Response Elements

If the action is successful, the service sends back an HTTP 201 response with an empty HTTP body.

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

### TooManyTagsException

Too many tags.

HTTP Status Code: 400

### ValidationException

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

# UntagResource

Removes tags from the resource.

**Required permissions:** rolesanywhere:UntagResource.

## Request Syntax

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

```
{
  "resourceArn": "string",
  "tagKeys": [ "string" ]
}
```

## URI Request Parameters

The request does not use any URI parameters.

## Request Body

The request accepts the following data in JSON format.

### resourceArn

The ARN of the resource.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Required: Yes

### tagKeys

A list of keys. Tag keys are the unique identifiers of tags.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 200 items.

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

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

Required: Yes

## Response Syntax

```
HTTP/1.1 200
```

## Response Elements

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

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

### ValidationException

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

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

# UpdateCrl

Updates the certificate revocation list (CRL). A CRL is a list of certificates that have been revoked by the issuing certificate authority (CA). IAM Roles Anywhere validates against the CRL before issuing credentials.

**Required permissions:** `rolesanywhere:UpdateCrl`.

## Request Syntax

```
PATCH /crl/crlId HTTP/1.1
Content-type: application/json

{
  "crlData": blob,
  "name": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### crlId

The unique identifier of the certificate revocation list (CRL).

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

### crlData

The x509 v3 specified certificate revocation list (CRL).

Type: Base64-encoded binary data object

Length Constraints: Minimum length of 1. Maximum length of 300000.

Required: No

### name

The name of the Crl.

Type: String

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

Pattern: `^[ a-zA-Z0-9-_*]*$`

Required: No

## Response Syntax

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

{
  "crl": {
    "createdAt": "string",
    "crlArn": "string",
    "crlData": blob,
    "crlId": "string",
    "enabled": boolean,
    "name": "string",
    "trustAnchorArn": "string",
    "updatedAt": "string"
  }
}
```

## Response Elements

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

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

### crl

The state of the certificate revocation list (CRL) after a read or write operation.



Type: [CrlDetail](#) object

## Errors

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

### AccessDeniedException

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### ResourceNotFoundException

The resource could not be found.

HTTP Status Code: 404

### ValidationException

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

# UpdateProfile

Updates a *profile*, a list of the roles that IAM Roles Anywhere service is trusted to assume. You use profiles to intersect permissions with IAM managed policies.

**Required permissions:** rolesanywhere:UpdateProfile.

## Request Syntax

```
PATCH /profile/profileId HTTP/1.1
Content-type: application/json

{
  "durationSeconds": number,
  "managedPolicyArns": [ "string" ],
  "name": "string",
  "roleArns": [ "string" ],
  "sessionPolicy": "string"
}
```

## URI Request Parameters

The request uses the following URI parameters.

### profileId

The unique identifier of the profile.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## durationSeconds

Used to determine how long sessions vended using this profile are valid for. See the Expiration section of the [CreateSession API documentation](#) page for more details. In requests, if this value is not provided, the default value will be 3600.

Type: Integer

Valid Range: Minimum value of 900. Maximum value of 43200.

Required: No

## managedPolicyArns

A list of managed policy ARNs that apply to the vended session credentials.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 200.

Required: No

## name

The name of the profile.

Type: String

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

Pattern: `^[ a-zA-Z0-9-_*]$`

Required: No

## roleArns

A list of IAM roles that this profile can assume in a temporary credential request.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 250 items.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `^arn:aws(-[^\:]+)?:iam(:.*){2}(:role.*)$`

Required: No

### sessionPolicy

A session policy that applies to the trust boundary of the vended session credentials.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 100000.

Required: No

## Response Syntax

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

{
  "profile": {
    "attributeMappings": [
      {
        "certificateField": "string",
        "mappingRules": [
          {
            "specifier": "string"
          }
        ]
      }
    ],
    "createdAt": "string",
    "createdBy": "string",
    "durationSeconds": number,
    "enabled": boolean,
    "managedPolicyArns": [ "string" ],
    "name": "string",
    "profileArn": "string",
    "profileId": "string",
    "requireInstanceProperties": boolean,
    "roleArns": [ "string" ],
    "sessionPolicy": "string",
    "updatedAt": "string"
  }
}
```

```
}  
}
```

## Response Elements

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

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

### profile

The state of the profile after a read or write operation.

Type: [ProfileDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404

### **ValidationException**

Validation exception error.

HTTP Status Code: 400

## See Also

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

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

# UpdateTrustAnchor

Updates a trust anchor. You establish trust between IAM Roles Anywhere and your certificate authority (CA) by configuring a trust anchor. You can define a trust anchor as a reference to an AWS Private Certificate Authority (AWS Private CA) or by uploading a CA certificate. Your AWS workloads can authenticate with the trust anchor using certificates issued by the CA in exchange for temporary AWS credentials.

**Required permissions:** `rolesanywhere:UpdateTrustAnchor`.

## Request Syntax

```
PATCH /trustanchor/trustAnchorId HTTP/1.1  
Content-type: application/json
```

```
{  
  "name": "string",  
  "source": {  
    "sourceData": { ... },  
    "sourceType": "string"  
  }  
}
```

## URI Request Parameters

The request uses the following URI parameters.

### trustAnchorId

The unique identifier of the trust anchor.

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: Yes

## Request Body

The request accepts the following data in JSON format.

## name

The name of the trust anchor.

Type: String

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

Pattern: `^[ a-zA-Z0-9-_*]*$`

Required: No

## source

The trust anchor type and its related certificate data.

Type: [Source](#) object

Required: No

## Response Syntax

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

{
  "trustAnchor": {
    "createdAt": "string",
    "enabled": boolean,
    "name": "string",
    "notificationSettings": [
      {
        "channel": "string",
        "configuredBy": "string",
        "enabled": boolean,
        "event": "string",
        "threshold": number
      }
    ],
    "source": {
      "sourceData": { ... },
      "sourceType": "string"
    },
    "trustAnchorArn": "string",
```



```
    "trustAnchorId": "string",  
    "updatedAt": "string"  
  }  
}
```

## Response Elements

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

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

### trustAnchor

The state of the trust anchor after a read or write operation.

Type: [TrustAnchorDetail](#) object

## Errors

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

### **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

### **ResourceNotFoundException**

The resource could not be found.

HTTP Status Code: 404

### **ValidationException**

Validation exception error.

HTTP Status Code: 400


## See Also

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

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

# Data Types

The IAM Roles Anywhere 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:

- [AttributeMapping](#)
- [CredentialSummary](#)
- [CrlDetail](#)
- [InstanceProperty](#)
- [MappingRule](#)
- [NotificationSetting](#)
- [NotificationSettingDetail](#)
- [NotificationSettingKey](#)
- [ProfileDetail](#)
- [Source](#)
- [SourceData](#)
- [SubjectDetail](#)
- [SubjectSummary](#)
- [Tag](#)
- [TrustAnchorDetail](#)

# AttributeMapping

A mapping applied to the authenticating end-entity certificate.

## Contents

### **certificateField**

Fields (x509Subject, x509Issuer and x509SAN) within X.509 certificates.

Type: String

Valid Values: x509Subject | x509Issuer | x509SAN

Required: No

### **mappingRules**

A list of mapping entries for every supported specifier or sub-field.

Type: Array of [MappingRule](#) objects

Required: No

## See Also

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

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

# CredentialSummary

A record of a presented X509 credential from a temporary credential request.

## Contents

### **enabled**

Indicates whether the credential is enabled.

Type: Boolean

Required: No

### **failed**

Indicates whether the temporary credential request was successful.

Type: Boolean

Required: No

### **issuer**

The fully qualified domain name of the issuing certificate for the presented end-entity certificate.

Type: String

Required: No

### **seenAt**

The ISO-8601 time stamp of when the certificate was last used in a temporary credential request.

Type: Timestamp

Required: No

### **serialNumber**

The serial number of the certificate.

Type: String

Required: No

### **x509CertificateData**

The PEM-encoded data of the certificate.

Type: String

Required: No

## **See Also**

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

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

# CrlDetail

The state of the certificate revocation list (CRL) after a read or write operation.

## Contents

### createdAt

The ISO-8601 timestamp when the certificate revocation list (CRL) was created.

Type: Timestamp

Required: No

### crlArn

The ARN of the certificate revocation list (CRL).

Type: String

Required: No

### crlData

The state of the certificate revocation list (CRL) after a read or write operation.

Type: Base64-encoded binary data object

Required: No

### crlId

The unique identifier of the certificate revocation list (CRL).

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: No

### enabled

Indicates whether the certificate revocation list (CRL) is enabled.

Type: Boolean

Required: No

### **name**

The name of the certificate revocation list (CRL).

Type: String

Required: No

### **trustAnchorArn**

The ARN of the TrustAnchor the certificate revocation list (CRL) will provide revocation for.

Type: String

Required: No

### **updatedAt**

The ISO-8601 timestamp when the certificate revocation list (CRL) was last updated.

Type: Timestamp

Required: No

## **See Also**

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

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



# InstanceProperty

A key-value pair you set that identifies a property of the authenticating instance.

## Contents

### failed

Indicates whether the temporary credential request was successful.

Type: Boolean

Required: No

### properties

A list of instanceProperty objects.

Type: String to string map

Map Entries: Minimum number of 0 items. Maximum number of 50 items.

Key Length Constraints: Minimum length of 1. Maximum length of 200.

Value Length Constraints: Minimum length of 1. Maximum length of 200.

Required: No

### seenAt

The ISO-8601 time stamp of when the certificate was last used in a temporary credential request.

Type: Timestamp

Required: No

## See Also

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

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

- [AWS SDK for Java V2](#)
- [AWS SDK for Ruby V3](#)

# MappingRule

A single mapping entry for each supported specifier or sub-field.

## Contents

### specifier

Specifier within a certificate field, such as CN, OU, or UID from the Subject field.

Type: String

Length Constraints: Minimum length of 0. Maximum length of 60.

Required: Yes

## See Also

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

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

# NotificationSetting

Customizable notification settings that will be applied to notification events. IAM Roles Anywhere consumes these settings while notifying across multiple channels - CloudWatch metrics, EventBridge, and AWS Health Dashboard.

## Contents

### enabled

Indicates whether the notification setting is enabled.

Type: Boolean

Required: Yes

### event

The event to which this notification setting is applied.

Type: String

Valid Values: CA\_CERTIFICATE\_EXPIRY | END\_ENTITY\_CERTIFICATE\_EXPIRY

Required: Yes

### channel

The specified channel of notification. IAM Roles Anywhere uses CloudWatch metrics, EventBridge, and AWS Health Dashboard to notify for an event.

#### Note

In the absence of a specific channel, IAM Roles Anywhere applies this setting to 'ALL' channels.

Type: String

Valid Values: ALL

Required: No

## threshold

The number of days before a notification event. This value is required for a notification setting that is enabled.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 360.

Required: No

## See Also

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

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

# NotificationSettingDetail

The state of a notification setting.

A notification setting includes information such as event name, threshold, status of the notification setting, and the channel to notify.

## Contents

### enabled

Indicates whether the notification setting is enabled.

Type: Boolean

Required: Yes

### event

The event to which this notification setting is applied.

Type: String

Valid Values: CA\_CERTIFICATE\_EXPIRY | END\_ENTITY\_CERTIFICATE\_EXPIRY

Required: Yes

### channel

The specified channel of notification. IAM Roles Anywhere uses CloudWatch metrics, EventBridge, and AWS Health Dashboard to notify for an event.

#### Note

In the absence of a specific channel, IAM Roles Anywhere applies this setting to 'ALL' channels.

Type: String

Valid Values: ALL

Required: No

## configuredBy

The principal that configured the notification setting. For default settings configured by IAM Roles Anywhere, the value is `rolesanywhere.amazonaws.com`, and for customized notifications settings, it is the respective account ID.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 200.

Required: No

## threshold

The number of days before a notification event.

Type: Integer

Valid Range: Minimum value of 1. Maximum value of 360.

Required: No

## See Also

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

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

# NotificationSettingKey

A notification setting key to reset. A notification setting key includes the event and the channel.

## Contents

### event

The notification setting event to reset.

Type: String

Valid Values: CA\_CERTIFICATE\_EXPIRY | END\_ENTITY\_CERTIFICATE\_EXPIRY

Required: Yes

### channel

The specified channel of notification.

Type: String

Valid Values: ALL

Required: No

## See Also

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

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



# ProfileDetail

The state of the profile after a read or write operation.

## Contents

### **attributeMappings**

A mapping applied to the authenticating end-entity certificate.

Type: Array of [AttributeMapping](#) objects

Required: No

### **createdAt**

The ISO-8601 timestamp when the profile was created.

Type: Timestamp

Required: No

### **createdBy**

The AWS account that created the profile.

Type: String

Required: No

### **durationSeconds**

Used to determine how long sessions vended using this profile are valid for. See the [Expiration](#) section of the [CreateSession API documentation](#) page for more details. In requests, if this value is not provided, the default value will be 3600.

Type: Integer

Required: No

### **enabled**

Indicates whether the profile is enabled.

Type: Boolean

Required: No

### **managedPolicyArns**

A list of managed policy ARNs that apply to the vended session credentials.

Type: Array of strings

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

Length Constraints: Minimum length of 1. Maximum length of 200.

Required: No

### **name**

The name of the profile.

Type: String

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

Pattern: `^[ a-zA-Z0-9-_*]*$`

Required: No

### **profileArn**

The ARN of the profile.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `^arn:aws(-[^\:]+)?:rolesanywhere(:.*)"2}(:profile.*)$`

Required: No

### **profileId**

The unique identifier of the profile.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: No

### **requireInstanceProperties**

Specifies whether instance properties are required in temporary credential requests with this profile.

Type: Boolean

Required: No

### **roleArns**

A list of IAM roles that this profile can assume in a temporary credential request.

Type: Array of strings

Array Members: Minimum number of 0 items. Maximum number of 250 items.

Length Constraints: Minimum length of 1. Maximum length of 1011.

Pattern: `^arn:aws(-[^\:]+)?:iam(:.* ){2}(:role.*)$`

Required: No

### **sessionPolicy**

A session policy that applies to the trust boundary of the vended session credentials.

Type: String

Required: No

### **updatedAt**

The ISO-8601 timestamp when the profile was last updated.

Type: Timestamp

Required: No

## **See Also**

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

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

# Source

The trust anchor type and its related certificate data.

## Contents

### sourceData

The data field of the trust anchor depending on its type.

Type: [SourceData](#) object

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

Required: No

### sourceType

The type of the trust anchor.

Type: String

Valid Values: AWS\_ACM\_PCA | CERTIFICATE\_BUNDLE | SELF\_SIGNED\_REPOSITORY

Required: No

## See Also

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

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

# SourceData

The data field of the trust anchor depending on its type.

## Contents

### Important

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

### acmPcaArn

The root certificate of the AWS Private Certificate Authority specified by this ARN is used in trust validation for temporary credential requests. Included for trust anchors of type `AWS_ACM_PCA`.

Type: String

Required: No

### x509CertificateData

The PEM-encoded data for the certificate anchor. Included for trust anchors of type `CERTIFICATE_BUNDLE`.

Type: String

Length Constraints: Minimum length of 1. Maximum length of 8000.

Required: No

## See Also

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

- [AWS SDK for C++](#)
- [AWS SDK for Java V2](#)

- [AWS SDK for Ruby V3](#)

# SubjectDetail

The state of the subject after a read or write operation.

## Contents

### **createdAt**

The ISO-8601 timestamp when the subject was created.

Type: Timestamp

Required: No

### **credentials**

The temporary session credentials vended at the last authenticating call with this subject.

Type: Array of [CredentialSummary](#) objects

Required: No

### **enabled**

The enabled status of the subject.

Type: Boolean

Required: No

### **instanceProperties**

The specified instance properties associated with the request.

Type: Array of [InstanceProperty](#) objects

Required: No

### **lastSeenAt**

The ISO-8601 timestamp of the last time this subject requested temporary session credentials.

Type: Timestamp

Required: No



## subjectArn

The ARN of the resource.

Type: String

Required: No

## subjectId

The id of the resource

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: No

## updatedAt

The ISO-8601 timestamp when the subject was last updated.

Type: Timestamp

Required: No

## x509Subject

The x509 principal identifier of the authenticating certificate.

Type: String

Required: No

## See Also

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

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



# SubjectSummary

A summary representation of subjects.

## Contents

### **createdAt**

The ISO-8601 time stamp of when the certificate was first used in a temporary credential request.

Type: Timestamp

Required: No

### **enabled**

The enabled status of the subject.

Type: Boolean

Required: No

### **lastSeenAt**

The ISO-8601 time stamp of when the certificate was last used in a temporary credential request.

Type: Timestamp

Required: No

### **subjectArn**

The ARN of the resource.

Type: String

Required: No

### **subjectId**

The id of the resource.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: No

### **updatedAt**

The ISO-8601 timestamp when the subject was last updated.

Type: Timestamp

Required: No

### **x509Subject**

The x509 principal identifier of the authenticating certificate.

Type: String

Required: No

## **See Also**

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

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

# Tag

A label that consists of a key and value you define.

## Contents

### key

The tag key.

Type: String

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

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

Required: Yes

### value

The tag value.

Type: String

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

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

Required: Yes

## See Also

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

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

# TrustAnchorDetail

The state of the trust anchor after a read or write operation.

## Contents

### createdAt

The ISO-8601 timestamp when the trust anchor was created.

Type: Timestamp

Required: No

### enabled

Indicates whether the trust anchor is enabled.

Type: Boolean

Required: No

### name

The name of the trust anchor.

Type: String

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

Pattern: `^[ a-zA-Z0-9-_*]$`

Required: No

### notificationSettings

A list of notification settings to be associated to the trust anchor.

Type: Array of [NotificationSettingDetail](#) objects

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

Required: No

### source

The trust anchor type and its related certificate data.

Type: [Source](#) object

Required: No

### **trustAnchorArn**

The ARN of the trust anchor.

Type: String

Required: No

### **trustAnchorId**

The unique identifier of the trust anchor.

Type: String

Length Constraints: Fixed length of 36.

Pattern: `[a-f0-9]{8}-([a-z0-9]{4}-){3}[a-z0-9]{12}`

Required: No

### **updatedAt**

The ISO-8601 timestamp when the trust anchor was last updated.

Type: Timestamp

Required: No

## **See Also**

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

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

# Common Parameters

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

## Action

The action to be performed.

Type: string

Required: Yes

## Version

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

Type: string

Required: Yes

## X-Amz-Algorithm

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

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

Type: string

Valid Values: AWS4-HMAC-SHA256

Required: Conditional

## X-Amz-Credential

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



For more information, see [Create a signed AWS API request](#) in the *IAM User Guide*.

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

Type: string

Required: Conditional

### **X-Amz-Date**

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

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

Type: string

Required: Conditional

### **X-Amz-Security-Token**

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

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

Type: string

Required: Conditional

### **X-Amz-Signature**

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

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

Type: string

Required: Conditional

### **X-Amz-SignedHeaders**

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

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

Type: string

Required: Conditional

# Common Errors

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

## **AccessDeniedException**

You do not have sufficient access to perform this action.

HTTP Status Code: 403

## **ExpiredTokenException**

The security token included in the request is expired

HTTP Status Code: 403

## **IncompleteSignature**

The request signature does not conform to AWS standards.

HTTP Status Code: 403

## **InternalFailure**

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

HTTP Status Code: 500

## **MalformedHttpRequestException**

Problems with the request at the HTTP level, e.g. we can't decompress the body according to the decompression algorithm specified by the content-encoding.

HTTP Status Code: 400

## **NotAuthorized**

You do not have permission to perform this action.

HTTP Status Code: 401

## **OptInRequired**

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

HTTP Status Code: 403

### **RequestAbortedException**

Convenient exception that can be used when a request is aborted before a reply is sent back (e.g. client closed connection).

HTTP Status Code: 400

### **RequestEntityTooLargeException**

Problems with the request at the HTTP level. The request entity is too large.

HTTP Status Code: 413

### **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

### **RequestTimeoutException**

Problems with the request at the HTTP level. Reading the Request timed out.

HTTP Status Code: 408

### **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

### **UnrecognizedClientException**

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

HTTP Status Code: 403

**UnknownOperationException**

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

HTTP Status Code: 404

**ValidationError**

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

HTTP Status Code: 400