



Manage SAML service

ONTAP 9.6 REST API reference

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Manage SAML service

Security authentication cluster saml-sp endpoint overview

Overview

You can use this API to retrieve and display relevant information pertaining to the SAML service provider configuration in the cluster. The POST operation creates a SAML service provider configuration if there is none present. The DELETE operation removes the SAML service provider configuration. The PATCH operation enables and disables SAML in the cluster. Various responses are shown in the examples below.

Examples

Retrieving the SAML service provider configuration in the cluster.

The following output shows the SAML service provider configuration in the cluster.

```
# The API:
/api/security/authentication/cluster/saml-sp

# The call:
curl -X GET "https://<mgmt-ip>/api/security/authentication/cluster/saml-sp" -H "accept: application/hal+json"

# The response:
{
  "idp_uri": "https://examplelab.customer.com/idp/Metadata",
  "enabled": true,
  "host": "172.21.74.181",
  "certificate": {
    "ca": "cluster1",
    "serial_number": "156F10C3EB4C51C1",
    "common_name": "cluster1"
  },
  "_links": {
    "self": {
      "href": "/api/security/authentication/cluster/saml-sp"
    }
  }
}
```

Creating the SAML service provider configuration

The following output shows how to create a SAML service provider configuration in the cluster.

```
# The API:
/api/security/authentication/cluster/saml-sp

# The call:
curl -X POST "https://<mgmt-ip>/api/security/authentication/cluster/saml-sp?return_records=true" -H "accept: application/hal+json" -d '{ "idp_uri": "https://examplelab.customer.com/idp/Metadata", "host": "172.21.74.181", "certificate": { "ca": "cluster1", "serial_number": "156F10C3EB4C51C1" } }'
```

Updating the SAML service provider configuration

The following output shows how to enable a SAML service provider configuration in the cluster.

Disabling the configuration requires the client to be authenticated through SAML prior to performing the operation.

```
# The API:
/api/security/authentication/cluster/saml-sp

# The call:
curl -X PATCH "https://<mgmt-ip>/api/security/authentication/cluster/saml-sp/" -d '{ "enabled": true }'
```

Deleting the SAML service provider configuration

```
# The API:
/api/security/authentication/cluster/saml-sp

# The call:
curl -X DELETE "https://<mgmt-ip>/api/security/authentication/cluster/saml-sp/"
```

Delete a SAML service provider configuration

DELETE /security/authentication/cluster/saml-sp

Deletes a SAML service provider configuration.

Learn more

- [DOC /security/authentication/cluster/saml-sp](#)

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 12320803 | SAML must be disabled before the configuration can be removed. |

| Name | Type | Description |
|-------|-----------------------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|--|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Retrieve a SAML service provider configuration

GET /security/authentication/cluster/saml-sp

Retrieves a SAML service provider configuration.

Learn more

- [DOC /security/authentication/cluster/saml-sp](#)

Parameters

| Name | Type | In | Required | Description |
|--------|---------------|-------|----------|-------------------------------|
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|-------------|--|
| _links | _links | |
| certificate | certificate | |
| enabled | boolean | The SAML service provider is enabled. Valid for PATCH and GET operations only. |
| host | string | The SAML service provider host. |
| idp_uri | string | The identity provider (IdP) metadata location. Required for POST operations. |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "certificate": {
    "ca": "string",
    "common_name": "cluster1",
    "serial_number": "1506B24A94F566BA"
  },
  "host": "string",
  "idp_uri": "https://idp.example.com/FederationMetadata/2007-06/FederationMetadata.xml"
}
```

Error

Status: Default, Error

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

certificate

| Name | Type | Description |
|---------------|--------|---|
| ca | string | Server certificate issuing certificate authority (CA). This cannot be used with the server certificate common name. |
| common_name | string | Server certificate common name. This cannot be used with the certificate authority (CA) or serial_number. |
| serial_number | string | Server certificate serial number. This cannot be used with the server certificate common name. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|--|-------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |

| Name | Type | Description |
|--------|--------|---|
| target | string | The target parameter that caused the error. |

Update a SAML service provider configuration

PATCH /security/authentication/cluster/saml-sp

Updates a SAML service provider configuration.

Learn more

- [DOC /security/authentication/cluster/saml-sp](#)

Request Body

| Name | Type | Description |
|-------------|-----------------------------|--|
| _links | _links | |
| certificate | certificate | |
| enabled | boolean | The SAML service provider is enabled. Valid for PATCH and GET operations only. |
| host | string | The SAML service provider host. |
| idp_uri | string | The identity provider (IdP) metadata location. Required for POST operations. |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "certificate": {
    "ca": "string",
    "common_name": "cluster1",
    "serial_number": "1506B24A94F566BA"
  },
  "host": "string",
  "idp_uri": "https://idp.example.com/FederationMetadata/2007-06/FederationMetadata.xml"
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 12320791 | SAML can only be disabled using the console or a SAML-authenticated application. |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

certificate

| Name | Type | Description |
|---------------|--------|---|
| ca | string | Server certificate issuing certificate authority (CA). This cannot be used with the server certificate common name. |
| common_name | string | Server certificate common name. This cannot be used with the certificate authority (CA) or serial_number. |
| serial_number | string | Server certificate serial number. This cannot be used with the server certificate common name. |

security_saml_sp

| Name | Type | Description |
|-------------|-----------------------------|--|
| _links | _links | |
| certificate | certificate | |
| enabled | boolean | The SAML service provider is enabled. Valid for PATCH and GET operations only. |
| host | string | The SAML service provider host. |
| idp_uri | string | The identity provider (IdP) metadata location. Required for POST operations. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|--|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

Create a SAML service provider configuration

POST `/security/authentication/cluster/saml-sp`

Creates a SAML service provider configuration. Note that "common_name" is mutually exclusive with "serial_number" and "ca" in the POST. SAML will initially be disabled, requiring a patch to set "enabled" to "true", so that the user has time to complete the setup of the IdP.

Required properties

- `idp_uri`

Optional properties

- `certificate`
- `enabled`
- `host`

Learn more

- [DOC /security/authentication/cluster/saml-sp](#)

Parameters

| Name | Type | In | Required | Description |
|------------------------|---------|-------|----------|--|
| verify_metadata_server | boolean | query | False | Verify IdP metadata server identity. • Default value: 1 |

Request Body

| Name | Type | Description |
|-------------|-----------------------------|--|
| _links | _links | |
| certificate | certificate | |
| enabled | boolean | The SAML service provider is enabled. Valid for PATCH and GET operations only. |
| host | string | The SAML service provider host. |
| idp_uri | string | The identity provider (IdP) metadata location. Required for POST operations. |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "certificate": {
    "ca": "string",
    "common_name": "cluster1",
    "serial_number": "1506B24A94F566BA"
  },
  "host": "string",
  "idp_uri": "https://idp.example.com/FederationMetadata/2007-06/FederationMetadata.xml"
}
```

Response

Status: 202, Accepted

| Name | Type | Description |
|------|----------|-------------|
| job | job_link | |

Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|---|
| 12320814 | An invalid IDP URI has been entered. |
| 12320815 | The IDP URI must be an HTTPS or FTPS URI. |
| 12320794 | The host parameter provided must be the cluster management LIF's IP address. If the cluster management LIF is not available, the node management LIF's IP address must be used. |
| 12320795 | A valid cluster or node management LIF IP address must be provided. |
| 12320805 | The certificate information provided does not match any installed certificates. |
| 12320806 | Entered certificate information does not match any installed certificates. |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

| Name | Type | Description |
|------|--------|-------------|
| href | string | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

certificate

| Name | Type | Description |
|---------------|--------|---|
| ca | string | Server certificate issuing certificate authority (CA). This cannot be used with the server certificate common name. |
| common_name | string | Server certificate common name. This cannot be used with the certificate authority (CA) or serial_number. |
| serial_number | string | Server certificate serial number. This cannot be used with the server certificate common name. |

security_saml_sp

| Name | Type | Description |
|-------------|-----------------------------|--|
| _links | _links | |
| certificate | certificate | |
| enabled | boolean | The SAML service provider is enabled. Valid for PATCH and GET operations only. |
| host | string | The SAML service provider host. |
| idp_uri | string | The identity provider (IdP) metadata location. Required for POST operations. |

job_link

| Name | Type | Description |
|------------------------|------------------------|---|
| _links | _links | |
| uuid | string | The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation. |

error_arguments

| Name | Type | Description |
|---------|--------|------------------|
| code | string | Argument code |
| message | string | Message argument |

error

| Name | Type | Description |
|-----------|--|---|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |
| message | string | Error message |
| target | string | The target parameter that caused the error. |

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