



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": {
    "common_name": "cluster1",
    "serial_number": "1506B24A94F566BA"
  },
  "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": {
    "common_name": "cluster1",
    "serial_number": "1506B24A94F566BA"
  },
  "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": {
    "common_name": "cluster1",
    "serial_number": "1506B24A94F566BA"
  },
  "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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