Manage IPsec security certificates

REST API reference

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Table of Contents

Manage IPsec security certificates . . . 1
- Security IPsec ca-certificates endpoint overview . . . 1
  - Overview . . . 1
- Retrieve IPsec CA certificates configured for the cluster and all SVMs . . . 1
  - Related ONTAP commands . . . 1
  - Parameters . . . 1
  - Response . . . 2
  - Error . . . 3
  - Definitions . . . 4
- Add a CA certificate to IPsec . . . 6
  - Related ONTAP commands . . . 6
  - Parameters . . . 7
  - Request Body . . . 7
  - Response . . . 7
  - Error . . . 8
  - Definitions . . . 8
- Delete a CA certificate with the specified UUID from IPsec . . . 10
  - Related ONTAP commands . . . 10
  - Parameters . . . 10
  - Response . . . 10
  - Error . . . 10
  - Definitions . . . 11
- Retrieve a CA certificate configured for IPpsec . . . 12
  - Related ONTAP commands . . . 12
  - Parameters . . . 12
  - Response . . . 13
  - Error . . . 13
  - Definitions . . . 14

Manage IPsec security certificates

Security IPsec ca-certificates endpoint overview

Overview

The following APIs can be used to add/remove/retrieve the IPsec CA certficates:

- Creation Post: POST security/ipsec/ca-certificates
- Collection Get: GET security/ipsec/ca-certificates
- Instance Get: GET security/ipsec/ca-certificates/{certificate.uuid}
- Instance Delete: DELETE security/ipsec/ca-certificates/{certificate.uuid}

Retrieve IPsec CA certificates configured for the cluster and all SVMs

GET `/security/ipsec/ca-certificates`

Introduced In: 9.10

Retrieves the collection of IPsec CA certificates configured for cluster and all SVMs.

Related ONTAP commands

- `security ipsec ca-certificate show`

Parameters

Name	Type	In	Required	Description
scope	string	query	False	Filter by scope
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
certificate.uuid	string	query	False	Filter by certificate.uuid
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. • Default value: 1
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. • Default value: 1 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
num_records	integer	Number of records
records	array[ipsec_ca_certificate]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "certificate": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "scope": "string",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_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
next	href	
self	href	

_links

Name	Type	Description
self	href	

certificate

IPsec CA certificate UUID

Name	Type	Description
_links	_links	
uuid	string	Certificate UUID

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

ipsec_ca_certificate

Name	Type	Description
certificate	certificate	IPsec CA certificate UUID
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
svm	svm	SVM, applies only to SVM-scoped objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_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.

Add a CA certificate to IPsec

POST `/security/ipsec/ca-certificates`

Introduced In: 9.10

Add CA certificate to IPsec. The CA certificate should already be installed on the cluster prior to adding them to IPsec. The CA certificate can be installed on the cluster using the /security/certificates endpoint. The svm.uuid or svm.name should not be supplied for certificates that have a scope of cluster.

Related ONTAP commands

- `security ipsec ca-certificate add`

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. • Default value:

Request Body

Name	Type	Description
certificate	certificate	IPsec CA certificate UUID
svm	svm	SVM, applies only to SVM-scoped objects.

Example request

```
{
  "certificate": {
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

```
Status: 201, Created
```

Name	Type	Description
num_records	integer	Number of records
records	array[ipsec_ca_certificate]	

Example response


```
{
  "num_records": 1,
  "records": [
    {
      "certificate": {
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```


Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
66257304	CA certificate is not installed.

Also see the table of common errors in the Response body overview section of this documentation.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

certificate

IPsec CA certificate UUID

Name	Type	Description
uuid	string	Certificate UUID

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

ipsec_ca_certificate

Name	Type	Description
certificate	certificate	IPsec CA certificate UUID
svm	svm	SVM, applies only to SVM-scoped objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_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.

Delete a CA certificate with the specified UUID from IPsec

DELETE `/security/ipsec/ca-certificates/{certificate.uuid}`

Introduced In: 9.10

Deletes the IPsec CA certificate with the specified UUID from IPsec.

Related ONTAP commands

- `security ipsec ca-certificate remove`

Parameters

Name	Type	In	Required	Description
certificate.uuid	string	path	True	UUID of the CA certificate to be deleted from IPsec.

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
66257298	CA certificate is not installed for IPsec.

Error Code	Description
66257303	The CA certificate cannot be removed from IPsec because it is not installed.

Also see the table of common errors in the Response body overview section of this documentation.

Name	Type	Description
error	returned_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

returned_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 CA certificate configured for IPpsec

GET `/security/ipsec/ca-certificates/{certificate.uuid}`

Introduced In: 9.10

Retrieves a specific CA certificate configured for IPsec.

Related ONTAP commands

- `security ipsec ca-certificate show`

Parameters

Name	Type	In	Required	Description
certificate.uuid	string	path	True	UUID of the IPsec CA certificate.
fields	array[string]	query	False	Specify the fields to return.

Response

```
Status: 200, Ok
```

Name	Type	Description
certificate	certificate	IPsec CA certificate UUID
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
svm	svm	SVM, applies only to SVM-scoped objects.

Example response


```
{
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "scope": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_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

IPsec CA certificate UUID

Name	Type	Description
_links	_links	
uuid	string	Certificate UUID

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_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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