



# **Manage IPsec security certificates**

## **ONTAP 9.10.1 REST API Documentation**

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# Manage IPsec security certificates

## Security IPsec ca-certificates endpoint overview

### Overview

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

- 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. <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>  |
| 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. <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul> |
| order_by       | array[string] | query | False    | Order results by specified fields and optional [asc   |

## Response

Status: 200, Ok

| Name        | Type  | Description       |
|-------------|---|-------------------|
| _links      | <a href="#">_links</a>                        |                   |
| num_records | integer                                       | Number of records |
| records     | array[ <a href="#">ipsec_ca_certificate</a> ] |                   |

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "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 | <a href="#">error</a> |             |

## 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 | <a href="#">href</a> |             |
| self | <a href="#">href</a> |             |

\_links

| Name | Type                 | Description |
|------|----------------------|-------------|
| self | <a href="#">href</a> |             |

certificate

IPsec CA certificate UUID

| Name   | Type                   | Description      |
|--------|------------------------|------------------|
| _links | <a href="#">_links</a> |                  |
| uuid   | string                 | Certificate UUID |

svm

| Name   | Type                   | Description                       |
|--------|------------------------|-----------------------------------|
| _links | <a href="#">_links</a> |                                   |
| name   | string                 | The name of the SVM.              |
| uuid   | string                 | The unique identifier of the SVM. |

ipsec\_ca\_certificate

| Name        | Type                        | Description   |
|-------------|-----------------------------|---|
| certificate | <a href="#">certificate</a> | IPsec CA certificate UUID   |
| scope       | string                      | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |

| Name | Type                | Description |
|------|---------------------|-------------|
| svm  | <a href="#">svm</a> |             |

error\_arguments

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

error

| Name      | Type                                     | Description                                 |
|-----------|--|---|
| arguments | array[ <a href="#">error_arguments</a> ] | 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.<br><br>• Default value: |

## Request Body

| Name        | Type                        | Description   |
|-------------|-----------------------------|---|
| certificate | <a href="#">certificate</a> | IPsec CA certificate UUID   |
| scope       | string                      | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |
| svm         | <a href="#">svm</a>         |   |

## Example request

```
{
  "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"
  }
}
```

# Response

Status: 201, Created

| Name        | Type  | Description       |
|-------------|---|-------------------|
| _links      | <a href="#">_links</a>                        |                   |
| num_records | integer                                       | Number of records |
| records     | array[ <a href="#">ipsec_ca_certificate</a> ] |                   |

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "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

### ONTAP Error Response Codes

| Error Code | Description                      |
|------------|----------------------------------|
| 66257296   | CA certificate is not installed. |

| 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 | <a href="#">href</a> |             |

certificate

IPsec CA certificate UUID

| Name   | Type                   | Description      |
|--------|------------------------|------------------|
| _links | <a href="#">_links</a> |                  |
| uuid   | string                 | Certificate UUID |

svm

| Name   | Type                   | Description                       |
|--------|------------------------|-----------------------------------|
| _links | <a href="#">_links</a> |                                   |
| name   | string                 | The name of the SVM.              |
| uuid   | string                 | The unique identifier of the SVM. |

ipsec\_ca\_certificate

| Name        | Type                        | Description   |
|-------------|-----------------------------|---|
| certificate | <a href="#">certificate</a> | IPsec CA certificate UUID   |
| scope       | string                      | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |
| svm         | <a href="#">svm</a>         |   |

\_links

| Name | Type                 | Description |
|------|----------------------|-------------|
| next | <a href="#">href</a> |             |

| Name | Type                 | Description |
|------|----------------------|-------------|
| self | <a href="#">href</a> |             |

error\_arguments

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

error

| Name      | Type                                     | Description                                 |
|-----------|--|---|
| arguments | array[ <a href="#">error_arguments</a> ] | 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, 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

### error\_arguments

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

### error

| Name      | Type                                     | Description                                 |
|-----------|--|---|
| arguments | array[ <a href="#">error_arguments</a> ] | 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 IPsec

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 | <a href="#">certificate</a> | IPsec CA certificate UUID   |
| scope       | string                      | Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster". |
| svm         | <a href="#">svm</a>         |   |

## 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 | 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 | <a href="#">href</a> |             |

certificate

IPsec CA certificate UUID

| Name   | Type                   | Description      |
|--------|------------------------|------------------|
| _links | <a href="#">_links</a> |                  |
| uuid   | string                 | Certificate UUID |

svm

| Name   | Type                   | Description                       |
|--------|------------------------|-----------------------------------|
| _links | <a href="#">_links</a> |                                   |
| name   | string                 | The name of the SVM.              |
| uuid   | string                 | The unique identifier of the SVM. |

error\_arguments

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

error

| Name      | Type                                     | Description       |
|-----------|--|-------------------|
| arguments | array[ <a href="#">error_arguments</a> ] | Message arguments |
| code      | string                                   | Error code        |

| <b>Name</b> | <b>Type</b> | <b>Description</b>                          |
|-------------|-------------|---|
| message     | string      | Error message                               |
| target      | string      | The target parameter that caused the error. |

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