Manage IPsec policies

ONTAP 9.15.1 REST API reference

NetApp
September 11, 2024

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Manage IPsec policies

Security IPsec policies endpoint overview

Overview

The following operations are supported:

- Collection Get: GET security/ipsec/policies
- Creation Post: POST security/ipsec/policies
- Instance Get: GET security/ipsec/policies/uuid
- Instance Patch: PATCH security/ipsec/policies/uuid
- Instance Delete: DELETE security/ipsec/policies/uuid

Retrieve IPsec policies

GET `/security/ipsec/policies`

Introduced In: 9.8

Retrieves the collection of IPsec policies.

Related ONTAP commands

- `security ipsec policy show`

Parameters

Name	Type	In	Required	Description
remote_endpoint.port	string	query	False	Filter by remote_endpoint.port
remote_endpoint.family	string	query	False	Filter by remote_endpoint.family
remote_endpoint.address	string	query	False	Filter by remote_endpoint.address
remote_endpoint.netmask	string	query	False	Filter by remote_endpoint.netmask
svm.uuid	string	query	False	Filter by svm.uuid

Name	Type	In	Required	Description
svm.name	string	query	False	Filter by svm.name
ipspace.uuid	string	query	False	Filter by ipspace.uuid
ipspace.name	string	query	False	Filter by ipspace.name
uuid	string	query	False	Filter by uuid
protocol	string	query	False	Filter by protocol
enabled	boolean	query	False	Filter by enabled
authentication_method	string	query	False	Filter by authentication_method • Introduced in: 9.10
local_endpoint.port	string	query	False	Filter by local_endpoint.port
local_endpoint.family	string	query	False	Filter by local_endpoint.family
local_endpoint.address	string	query	False	Filter by local_endpoint.address
local_endpoint.netmask	string	query	False	Filter by local_endpoint.netmask
certificate.uuid	string	query	False	Filter by certificate.uuid • Introduced in: 9.10
certificate.name	string	query	False	Filter by certificate.name • Introduced in: 9.10

Name	Type	In	Required	Description
local_identity	string	query	False	Filter by local_identity
remote_identity	string	query	False	Filter by remote_identity
scope	string	query	False	Filter by scope
name	string	query	False	Filter by name • maxLength: 64 • minLength: 1
action	string	query	False	Filter by action • Introduced in: 9.15
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
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

Name	Type	In	Required	Description
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	
error	error	
num_records	integer	Number of records
records	array[records]	

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist"
  },
  "num_records": 1,
  "records": [
    {
      "action": "string",
      "authentication_method": "string",
      "certificate": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "string",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "ipspace": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "Default",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "local_endpoint": {
        "address": "10.10.10.7",
```

```
        "family": "string",
        "netmask": "24",
        "port": "23"
      },
      "local_identity": "string",
      "name": "string",
      "protocol": "17",
      "remote_endpoint": {
        "address": "10.10.10.7",
        "family": "string",
        "netmask": "24",
        "port": "23"
      },
      "remote_identity": "string",
      "scope": "string",
      "secret_key": "string",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ]
}
```


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	

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

_links

Name	Type	Description
self	href	

certificate

Certificate for the IPsec policy.

Name	Type	Description
_links	_links	
name	string	Certificate name
uuid	string	Certificate UUID

ipspace

Applies to both SVM and cluster-scoped objects. Either the UUID or name may be supplied on input.

Name	Type	Description
_links	_links	
name	string	IPspace name
uuid	string	IPspace UUID

local_endpoint

Local endpoint for the IPsec policy.

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, the default value is 64 with a valid range of 1 to 127. Output is always the netmask length.
port	string	Application port to be covered by the IPsec policy

remote_endpoint

Remote endpoint for the IPsec policy.

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, the default value is 64 with a valid range of 1 to 127. Output is always the netmask length.
port	string	Application port to be covered by the IPsec policy

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.

records

IPsec policy object.

Name	Type	Description
action	string	Action for the IPsec policy.
authentication_method	string	Authentication method for the IPsec policy.
certificate	certificate	Certificate for the IPsec policy.
enabled	boolean	Indicates whether or not the policy is enabled.
ipspace	ipspace	Applies to both SVM and cluster-scoped objects. Either the UUID or name may be supplied on input.
local_endpoint	local_endpoint	Local endpoint for the IPsec policy.
local_identity	string	Local Identity
name	string	IPsec policy name.
protocol	string	Lower layer protocol to be covered by the IPsec policy.
remote_endpoint	remote_endpoint	Remote endpoint for the IPsec policy.

Name	Type	Description
remote_identity	string	Remote Identity
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
secret_key	string	Pre-shared key for IKE negotiation.
svm	svm	SVM, applies only to SVM-scoped objects.
uuid	string	Unique identifier of the IPsec policy.

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.

Create an IPsec policy

POST `/security/ipsec/policies`

Introduced In: 9.8

Creates an IPsec policy.

Related ONTAP commands

- `security ipsec policy create`

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
action	string	Action for the IPsec policy.
authentication_method	string	Authentication method for the IPsec policy.
certificate	certificate	Certificate for the IPsec policy.
enabled	boolean	Indicates whether or not the policy is enabled.
ipspace	ipspace	Applies to both SVM and cluster-scoped objects. Either the UUID or name may be supplied on input.
local_endpoint	local_endpoint	Local endpoint for the IPsec policy.
local_identity	string	Local Identity
name	string	IPsec policy name.
protocol	string	Lower layer protocol to be covered by the IPsec policy.
remote_endpoint	remote_endpoint	Remote endpoint for the IPsec policy.
remote_identity	string	Remote Identity
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
secret_key	string	Pre-shared key for IKE negotiation.

Name	Type	Description
svm	svm	SVM, applies only to SVM-scoped objects.
uuid	string	Unique identifier of the IPsec policy.

Example request


```
{
  "action": "string",
  "authentication_method": "string",
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "string",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "Default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "local_endpoint": {
    "address": "10.10.10.7",
    "family": "string",
    "netmask": "24",
    "port": "23"
  },
  "local_identity": "string",
  "name": "string",
  "protocol": "17",
  "remote_endpoint": {
    "address": "10.10.10.7",
    "family": "string",
    "netmask": "24",
    "port": "23"
  },
  "remote_identity": "string",
  "scope": "string",
  "secret_key": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
```

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


Response

```
Status: 201, Created
```

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

Example response


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist"
  },
  "num_records": 1,
  "records": [
    {
      "action": "string",
      "authentication_method": "string",
      "certificate": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "string",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "ipspace": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "Default",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "local_endpoint": {
        "address": "10.10.10.7",
```

```
        "family": "string",
        "netmask": "24",
        "port": "23"
      },
      "local_identity": "string",
      "name": "string",
      "protocol": "17",
      "remote_endpoint": {
        "address": "10.10.10.7",
        "family": "string",
        "netmask": "24",
        "port": "23"
      },
      "remote_identity": "string",
      "scope": "string",
      "secret_key": "string",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  ]
}
```


Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
66257099	Only one protocol can be specified.
66257100	Only one local port can be specified.
66257101	Only one remote port can be specified.
66257102	Internet Key Exchange version 1 (IKEv1) is not supported.
66257104	IPsec policy with same name already exists in this SVM.
66257107	The specified pre-shared key is not a valid hexadecimal string.
66257109	The specified pre-shared key is not a valid Base64 encoded binary string.
66257110	Failed to a create policy sequencing value.
66257112	The IPsec policy with the action specified does not provide packet protection and the authentication method provided for the policy will be ignored.
66257113	Only one local IP subnet can be specified.
66257114	Only one remote IP subnet can be specified.
66257115	Port ranges containing more than one port are not supported.
66257117	IPsec is not supported on the SVM specified in the policy, IPsec is supported on data SVMs only.
66257120	The subnet selector must be a host address (An IPv4 address with a 32-bit netmask or an IPv6 address with a 128-bit netmask).
66257121	The maximum limit of IPsec policies has been reached for the specified SVM.
66257125	The local_endpoint.address must be specified with local_endpoint.netmask.
66257126	The remote_endpoint.address must be specified with remote_endpoint.netmask.
66257127	The local subnet must be configured as a non-zero subnet.
66257128	Invalid ANY wildcard subnet.
66257129	A specific local or remote port number is required when the remote subnet is configured as an ANY wildcard subnet.
66257130	The maximum limit of IPsec policies has been reached for the cluster.
66257131	ESP in UDPv6 Encapsulation is not supported.

Error Code	Description
66257132	Invalid value for port field. Value should be in range <0-65535>.
66257133	A pre-shared key is needed for the PSK authentication method. Use the secret_key option to specify a key.
66257134	An end-entity certificate is needed for the PKI authentication method. Use the certificate.uuid option to specify an end-entity certificate.
66257135	The specified certificate is not found on the SVM.
66257136	A certificate is not needed for the PSK authentication method.
66257137	A pre-shared key is not needed for the PKI authentication method.
66257138	Remote identity is required when using certificate verification.
66257139	Certificate with the specified UUID was not found.
66257140	Only certificates with a client or server type are supported.
66257142	Failed to create IPsec policy because the specified SVM is being migrated.
66257143	Invalid IPsec policy provided. The subnet must be non-empty.
66257144	The IPsec policy actions ESP TRANSPORT and ESP UDP each provide packet protection and requires a secret key or certificate for authentication.
66257148	The policy name does not meet required ASCII-range characters length.
66257199	Not all of the nodes in the cluster are running a version that supports the IPsec feature.
66257200	The shared key does not meet required ASCII-range characters length.
66257201	Support for the feature available with effective cluster version or later.
66257202	The specified SVM name is invalid.
66257203	The specified SVM UUID is invalid.
66257204	The specified IPspace UUID and IPspace name refer to different IPspaces.
66257205	The specified SVM must exist in the specified IPspace.

Error Code	Description
66257305	The certificate UUID does not match the provided certificate name.
66257396	IPsec is not supported for the admin SVM in a MetroCluster configuration.

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

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

certificate

Certificate for the IPsec policy.

Name	Type	Description
_links	_links	
name	string	Certificate name
uuid	string	Certificate UUID

ipspace

Applies to both SVM and cluster-scoped objects. Either the UUID or name may be supplied on input.

Name	Type	Description
_links	_links	
name	string	IPspace name
uuid	string	IPspace UUID

local_endpoint

Local endpoint for the IPsec policy.

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6

Name	Type	Description
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, the default value is 64 with a valid range of 1 to 127. Output is always the netmask length.
port	string	Application port to be covered by the IPsec policy

remote_endpoint

Remote endpoint for the IPsec policy.

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, the default value is 64 with a valid range of 1 to 127. Output is always the netmask length.
port	string	Application port to be covered by the IPsec policy

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_policy

IPsec policy object.

Name	Type	Description
action	string	Action for the IPsec policy.
authentication_method	string	Authentication method for the IPsec policy.
certificate	certificate	Certificate for the IPsec policy.
enabled	boolean	Indicates whether or not the policy is enabled.
ipspace	ipspace	Applies to both SVM and cluster-scoped objects. Either the UUID or name may be supplied on input.
local_endpoint	local_endpoint	Local endpoint for the IPsec policy.
local_identity	string	Local Identity
name	string	IPsec policy name.
protocol	string	Lower layer protocol to be covered by the IPsec policy.
remote_endpoint	remote_endpoint	Remote endpoint for the IPsec policy.
remote_identity	string	Remote Identity
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
secret_key	string	Pre-shared key for IKE negotiation.
svm	svm	SVM, applies only to SVM-scoped objects.
uuid	string	Unique identifier of the IPsec policy.

_links

Name	Type	Description
next	href	
self	href	

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

records

IPsec policy object.

Name	Type	Description
action	string	Action for the IPsec policy.
authentication_method	string	Authentication method for the IPsec policy.
certificate	certificate	Certificate for the IPsec policy.
enabled	boolean	Indicates whether or not the policy is enabled.
ipspace	ipspace	Applies to both SVM and cluster-scoped objects. Either the UUID or name may be supplied on input.
local_endpoint	local_endpoint	Local endpoint for the IPsec policy.
local_identity	string	Local Identity

Name	Type	Description
name	string	IPsec policy name.
protocol	string	Lower layer protocol to be covered by the IPsec policy.
remote_endpoint	remote_endpoint	Remote endpoint for the IPsec policy.
remote_identity	string	Remote Identity
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
secret_key	string	Pre-shared key for IKE negotiation.
svm	svm	SVM, applies only to SVM-scoped objects.
uuid	string	Unique identifier of the IPsec policy.

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 an IPsec policy

DELETE `/security/ipsec/policies/{uuid}`

Introduced In: 9.8

Deletes a specific IPsec policy.

Related ONTAP commands

- `security ipsec policy delete`

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	IPsec policy UUID

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
66257096	Internal error. Failed to purge connections associated with the IPsec policy.

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 an IPsec policy

GET `/security/ipsec/policies/{uuid}`

Introduced In: 9.8

Retrieves a specific IPsec policy.

Related ONTAP commands

- `security ipsec policy show`

Parameters

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

Response

```
Status: 200, Ok
```

Name	Type	Description
action	string	Action for the IPsec policy.
authentication_method	string	Authentication method for the IPsec policy.
certificate	certificate	Certificate for the IPsec policy.
enabled	boolean	Indicates whether or not the policy is enabled.
ipspace	ipspace	Applies to both SVM and cluster-scoped objects. Either the UUID or name may be supplied on input.
local_endpoint	local_endpoint	Local endpoint for the IPsec policy.
local_identity	string	Local Identity
name	string	IPsec policy name.

Name	Type	Description
protocol	string	Lower layer protocol to be covered by the IPsec policy.
remote_endpoint	remote_endpoint	Remote endpoint for the IPsec policy.
remote_identity	string	Remote Identity
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
secret_key	string	Pre-shared key for IKE negotiation.
svm	svm	SVM, applies only to SVM-scoped objects.
uuid	string	Unique identifier of the IPsec policy.

Example response


```
{
  "action": "string",
  "authentication_method": "string",
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "string",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "Default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "local_endpoint": {
    "address": "10.10.10.7",
    "family": "string",
    "netmask": "24",
    "port": "23"
  },
  "local_identity": "string",
  "name": "string",
  "protocol": "17",
  "remote_endpoint": {
    "address": "10.10.10.7",
    "family": "string",
    "netmask": "24",
    "port": "23"
  },
  "remote_identity": "string",
  "scope": "string",
  "secret_key": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
```

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


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

Certificate for the IPsec policy.

Name	Type	Description
_links	_links	
name	string	Certificate name
uuid	string	Certificate UUID

ipspace

Applies to both SVM and cluster-scoped objects. Either the UUID or name may be supplied on input.

Name	Type	Description
_links	_links	
name	string	IPspace name
uuid	string	IPspace UUID

local_endpoint

Local endpoint for the IPsec policy.

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6

Name	Type	Description
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, the default value is 64 with a valid range of 1 to 127. Output is always the netmask length.
port	string	Application port to be covered by the IPsec policy

remote_endpoint

Remote endpoint for the IPsec policy.

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, the default value is 64 with a valid range of 1 to 127. Output is always the netmask length.
port	string	Application port to be covered by the IPsec policy

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.

Update an IPsec policy

PATCH `/security/ipsec/policies/{uuid}`

Introduced In: 9.8

Updates a specific IPsec policy.

Related ONTAP commands

- `security ipsec policy modify`

Parameters

Name	Type	In	Required	Description
uuid	string	path	True	IPsec policy UUID

Request Body

Name	Type	Description
action	string	Action for the IPsec policy.
authentication_method	string	Authentication method for the IPsec policy.

Name	Type	Description
certificate	certificate	Certificate for the IPsec policy.
enabled	boolean	Indicates whether or not the policy is enabled.
ipspace	ipspace	Applies to both SVM and cluster-scoped objects. Either the UUID or name may be supplied on input.
local_endpoint	local_endpoint	Local endpoint for the IPsec policy.
local_identity	string	Local Identity
name	string	IPsec policy name.
protocol	string	Lower layer protocol to be covered by the IPsec policy.
remote_endpoint	remote_endpoint	Remote endpoint for the IPsec policy.
remote_identity	string	Remote Identity
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
secret_key	string	Pre-shared key for IKE negotiation.
svm	svm	SVM, applies only to SVM-scoped objects.
uuid	string	Unique identifier of the IPsec policy.

Example request


```
{
  "action": "string",
  "authentication_method": "string",
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "string",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "Default",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "local_endpoint": {
    "address": "10.10.10.7",
    "family": "string",
    "netmask": "24",
    "port": "23"
  },
  "local_identity": "string",
  "name": "string",
  "protocol": "17",
  "remote_endpoint": {
    "address": "10.10.10.7",
    "family": "string",
    "netmask": "24",
    "port": "23"
  },
  "remote_identity": "string",
  "scope": "string",
  "secret_key": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
```

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


Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
66257097	Internal error. Failed to update the IPsec policy.
66257099	Only one protocol can be specified.
66257100	Only one local port can be specified.
66257101	Only one remote port can be specified.
66257110	Failed to create a policy sequencing value.
66257113	Only one local IP subnet can be specified.
66257114	Only one remote IP subnet can be specified.
66257115	Port ranges containing more than one port are not supported.
66257120	The subnet selector must be a host address (An IPv4 address with a 32-bit netmask or an IPv6 address with a 128-bit netmask).
66257125	The local_endpoint.address must be specified with local_endpoint.netmask.
66257126	The remote_endpoint.address must be specified with remote_endpoint.netmask.
66257127	The local subnet must be configured as a non-zero subnet.
66257128	Invalid ANY wildcard subnet.

Error Code	Description
66257129	A specific local or remote port number is required when the remote subnet is configured as an ANY wildcard subnet.
66257131	ESP in UDPv6 Encapsulation is not supported.
66257135	The specified certificate is not found on the SVM.
66257136	A certificate is not needed for the PSK authentication method.
66257138	Remote identity is required when using certificate verification.
66257139	Certificate with the specified UUID was not found.
66257140	Only certificates with a client or server type are supported.
66257142	Failed to create IPsec policy because the specified SVM is being migrated.
66257143	Invalid IPsec policy provided. The subnet must be non-empty.
66257199	Not all of the nodes in the cluster are running a version that supports the IPsec feature.
66257200	The shared key does not meet required ASCII-range characters length.
66257201	Support for the feature available with effective cluster version or later.
66257305	The certificate UUID does not match the provided certificate name.

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

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

certificate

Certificate for the IPsec policy.

Name	Type	Description
_links	_links	
name	string	Certificate name
uuid	string	Certificate UUID

ipspace

Applies to both SVM and cluster-scoped objects. Either the UUID or name may be supplied on input.

Name	Type	Description
_links	_links	
name	string	IPspace name
uuid	string	IPspace UUID

local_endpoint

Local endpoint for the IPsec policy.

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6

Name	Type	Description
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, the default value is 64 with a valid range of 1 to 127. Output is always the netmask length.
port	string	Application port to be covered by the IPsec policy

remote_endpoint

Remote endpoint for the IPsec policy.

Name	Type	Description
address	string	IPv4 or IPv6 address
family	string	IPv4 or IPv6
netmask	string	Input as netmask length (16) or IPv4 mask (255.255.0.0). For IPv6, the default value is 64 with a valid range of 1 to 127. Output is always the netmask length.
port	string	Application port to be covered by the IPsec policy

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_policy

IPsec policy object.

Name	Type	Description
action	string	Action for the IPsec policy.
authentication_method	string	Authentication method for the IPsec policy.
certificate	certificate	Certificate for the IPsec policy.
enabled	boolean	Indicates whether or not the policy is enabled.
ipspace	ipspace	Applies to both SVM and cluster-scoped objects. Either the UUID or name may be supplied on input.
local_endpoint	local_endpoint	Local endpoint for the IPsec policy.
local_identity	string	Local Identity
name	string	IPsec policy name.
protocol	string	Lower layer protocol to be covered by the IPsec policy.
remote_endpoint	remote_endpoint	Remote endpoint for the IPsec policy.
remote_identity	string	Remote Identity
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
secret_key	string	Pre-shared key for IKE negotiation.
svm	svm	SVM, applies only to SVM-scoped objects.
uuid	string	Unique identifier of the IPsec policy.

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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