



Manage IPsec policies

ONTAP 9.14.1 REST API reference

NetApp
April 02, 2024

Table of Contents

- Manage IPsec policies 1
 - Security IPsec policies endpoint overview 1
 - Retrieve IPsec policies 1
 - Create an IPsec policy 11
 - Delete an IPsec policy 25
 - Retrieve an IPsec policy 27
 - Update an IPsec policy 35

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
local_identity	string	query	False	Filter by local_identity
protocol	string	query	False	Filter by protocol
authentication_method	string	query	False	Filter by authentication_method <ul style="list-style-type: none">• Introduced in: 9.10
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name

Name	Type	In	Required	Description
local_endpoint.port	string	query	False	Filter by local_endpoint.port
local_endpoint.netmask	string	query	False	Filter by local_endpoint.netmask
local_endpoint.address	string	query	False	Filter by local_endpoint.address
local_endpoint.family	string	query	False	Filter by local_endpoint.family
enabled	boolean	query	False	Filter by enabled
remote_identity	string	query	False	Filter by remote_identity
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	string	query	False	Filter by name
scope	string	query	False	Filter by scope
ipspace.uuid	string	query	False	Filter by ipspace.uuid
ipspace.name	string	query	False	Filter by ipspace.name
remote_endpoint.port	string	query	False	Filter by remote_endpoint.port

Name	Type	In	Required	Description
remote_endpoint.net mask	string	query	False	Filter by remote_endpoint.net mask
remote_endpoint.ad dress	string	query	False	Filter by remote_endpoint.ad dress
remote_endpoint.fa mily	string	query	False	Filter by remote_endpoint.fa mily
uuid	string	query	False	Filter by uuid
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
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

Name	Type	In	Required	Description
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": "bypass",
    "authentication_method": "none",
    "certificate": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "ipspace": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "exchange",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "local_endpoint": {
      "address": "10.10.10.7",
      "family": "ipv4",
      "netmask": "24",
      "port": "23"
    }
  },
}
```

```

"protocol": "17",
"remote_endpoint": {
  "address": "10.10.10.7",
  "family": "ipv4",
  "netmask": "24",
  "port": "23"
},
"scope": "svm",
"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

ipospace

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 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 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. <ul style="list-style-type: none"> • 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": "bypass",
  "authentication_method": "none",
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "exchange",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "local_endpoint": {
    "address": "10.10.10.7",
    "family": "ipv4",
    "netmask": "24",
    "port": "23"
  },
  "protocol": "17",
  "remote_endpoint": {
    "address": "10.10.10.7",
    "family": "ipv4",
    "netmask": "24",
    "port": "23"
  },
  "scope": "svm",
  "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": "bypass",
    "authentication_method": "none",
    "certificate": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "ipspace": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "exchange",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "local_endpoint": {
      "address": "10.10.10.7",
      "family": "ipv4",
      "netmask": "24",
      "port": "23"
    }
  },
}
```

```

"protocol": "17",
"remote_endpoint": {
  "address": "10.10.10.7",
  "family": "ipv4",
  "netmask": "24",
  "port": "23"
},
"scope": "svm",
"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.
66257104	IPsec policy with same name already exists in this SVM.
66257107	The specified pre-shared key is not a valid hexadecimal string.

Error Code	Description
66257109	The specified pre-shared key is not a valid Base64 encoded binary string.
66257110	Failed to a create policy sequencing value.
66257111	The IPsec policy with action ESP TRANSPORT provides packet protection and requires a secret key or certificate for authentication.
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 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.
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.
66257137	A pre-shared key is not needed for the PKI authentication method.
66257139	Certificate with the specified UUID was not found.

Error Code	Description
66257140	Only certificates with a client or server type are supported.
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.
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

ipospace

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 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 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.
66257116	IPsec policy with the specified UUID was not found.

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.
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.

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example response.


```

{
  "action": "bypass",
  "authentication_method": "none",
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "exchange",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "local_endpoint": {
    "address": "10.10.10.7",
    "family": "ipv4",
    "netmask": "24",
    "port": "23"
  },
  "protocol": "17",
  "remote_endpoint": {
    "address": "10.10.10.7",
    "family": "ipv4",
    "netmask": "24",
    "port": "23"
  },
  "scope": "svm",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}

```

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
66257116	IPsec policy with the specified UUID was not found.

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 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 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": "bypass",
  "authentication_method": "none",
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "ipspace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "exchange",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "local_endpoint": {
    "address": "10.10.10.7",
    "family": "ipv4",
    "netmask": "24",
    "port": "23"
  },
  "protocol": "17",
  "remote_endpoint": {
    "address": "10.10.10.7",
    "family": "ipv4",
    "netmask": "24",
    "port": "23"
  },
  "scope": "svm",
  "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.
66257116	IPsec policy with the specified UUID was not found.
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).
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.
66257139	Certificate with the specified UUID was not found.
66257140	Only certificates with a client or server type are supported.

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 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 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.

Copyright information

Copyright © 2024 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP “AS IS” AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.