Manage individual SNMP users

REST API reference

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Manage individual SNMP users

Support SNMP users engine_id name endpoint overview

Overview

Defines, retrieves, updates and deletes an individual SNMP user.

Examples

Retrieves the details of an SNMP user

```
# The API:
GET "/api/support/snmp/users/{engine_id}/{name}"

# The call:
curl -H "accept: application/hal+json" -X GET "https://<mgmt-
ip>/api/support/snmp/users/80000315056622e52625a9e911a981005056bb1dcb/snmp
v1user2"

# The response:
{
"engine_id": "80000315056622e52625a9e911a981005056bb1dcb",
"name": "snmpv1user2",
"scope": "cluster",
"owner": {
  "name": "cluster-1",
  "uuid": "26e52266-a925-11e9-a981-005056bb1dcb"
},
"authentication_method": "community",
"_links": {
  "self": {
    "href":
"/api/support/snmp/users/80000315056622e52625a9e911a981005056bb1dcb/snmpv1
user2"
  }
}
}
```

Updates the comment parameter for an individual SNMP user

```
# The API:
PATCH "/api/support/snmp/users/{engine_id}/{name}"

# The call:
curl -H "accept: application/json" -H "Content-Type: application/json" -X
PATCH "https://<mgmt-
ip>/api/support/snmp/users/8000031505b67667a26975e9118a480050568e6f74/publ
ic" -d '{"comment":"Default SNMP community"}'

# The response:
200 OK
{}
```

Deletes an individual SNMP user in the cluster

```
# The API:
DELETE "/api/support/snmp/users/{engine_id}/{name}"

# The call:
curl -H "accept: application/json" -H "Content-Type: application/json" -X
DELETE "https://<mgmt-
ip>/api/support/snmp/users/8000031505b67667a26975e9118a480050568e6f74/snmp
user"

# The response:
200 OK
{}
```

Delete an SNMP user

DELETE `/support/snmp/users/{engine_id}/{name}`

Introduced In: 9.7

Deletes an SNMP user. The engine ID can be the engine ID of the administrative SVM or a data SVM. It can also be the SNMPv3 engine ID of a remote switch.

Related ONTAP commands

- `security login delete`
- `system snmp community delete`

Learn more

- DOC /support/snmp/users/{engine_id}/{name}

Parameters

Name	Type	In	Required	Description
engine_id	string	path	True	Engine ID of owning SVM or remote switch.
name	string	path	True	SNMP user name.
fields	array[string]	query	False	Specify the fields to return.
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. • Default value: 1 • Max value: 120 • Min value: 0

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
2621475	This operation is not allowed on a node SVM.
2621699	This operation is not allowed on a system SVM.
5636123	Cannot create an SNMP user with a role other than readonly, none, or admin.
5636124	Cannot create an SNMP user with a role other than vsadmin-readonly, none, or vsadmin.
5832712	Cannot modify attributes for user "diag."
7077906	Cannot use given role with this SVM because a role with that name has not been defined for the SVM.
9043999	ONTAP failed to create an SNMPv3 user because SNMPv3 is disabled in the cluster.

Name	Type	Description
error	error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Retrieve SNMP user details

GET `/support/snmp/users/{engine_id}/{name}`

Introduced In: 9.7

Retrieves the details of an SNMP user. The engine ID can be the engine ID of the administrative SVM or a data SVM. It can also be the SNMPv3 engine ID of a remote switch.

Related ONTAP commands

- `security snmpusers -vserver <SVM Name> -username <User Name>`
- `security login show -application snmp -vserver <SVM Name> -user-or-group-name <User Name>`

Learn more

- DOC /support/snmp/users/{engine_id}/{name}

Parameters

Name	Type	In	Required	Description
engine_id	string	path	True	Engine ID of owning SVM or remote switch.
name	string	path	True	SNMP user name.
fields	array[string]	query	False	Specify the fields to return.
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

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	_links	
authentication_method	string	Optional authentication method.
comment	string	Optional comment text.
engine_id	string	Optional SNMPv3 engine identifier. For a local SNMP user belonging to the administrative Storage Virtual Machine (SVM), the default value of this parameter is the SNMPv3 engine identifier for the administrative SVM. For a local SNMP user belonging to a data SVM, the default value of this parameter is the SNMPv3 engine identifier for that data SVM. For an SNMPv1/SNMPv2c community, this parameter should not be specified in "POST" method. For a remote switch SNMPv3 user, this parameter specifies the SNMPv3 engine identifier for the remote switch. This parameter can also optionally specify a custom engine identifier.
name	string	SNMP user name.
owner	owner	Optional name and UUID of owning Storage Virtual Machine (SVM).
scope	string	Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
snmpv3	snmpv3	Optional parameter that can be specified only for an SNMPv3 user i.e. when 'authentication_method' is either 'usm' or 'both'. This parameter defines the SNMPv3 credentials for an SNMPv3 user.

Name	Type	Description
switch_address	string	Optional remote switch address. It can be an IPv4 address or an IPv6 address. A remote switch can be queried over SNMPv3 using ONTAP SNMP client functionality. Querying such a switch requires an SNMPv3 user (remote switch user) to be configured on the switch. Since ONTAP requires remote switch user's SNMPv3 credentials (to query it), this user must be configured in ONTAP as well. This parameter is specified when configuring such a user. • example: 10.23.34.45 • Introduced in: 9.7 • readCreate: 1

Example response


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "authentication_method": "usm",
  "comment": "This is a comment.",
  "engine_id": "80000315055415ab26d4aae811ac4d005056bb792e",
  "name": "snmpv3user2",
  "owner": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "scope": "svm",
  "snmpv3": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "authentication_protocol": "sha2_256",
    "privacy_protocol": "aes128"
  },
  "switch_address": "10.23.34.45"
}
```


Error

```
Status: Default, Error
```

Name	Type	Description
error	error	

Example error


```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```


Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

Name	Type	Description
self	href	

owner

Optional name and UUID of owning Storage Virtual Machine (SVM).

Name	Type	Description
_links	_links	
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

snmpv3

Optional parameter that can be specified only for an SNMPv3 user i.e. when 'authentication_method' is either 'usm' or 'both'. This parameter defines the SNMPv3 credentials for an SNMPv3 user.

Name	Type	Description
_links	_links	
authentication_protocol	string	Authentication protocol.
privacy_protocol	string	Privacy protocol.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Update the comment parameter of an SNMP user

PATCH `/support/snmp/users/{engine_id}/{name}`

Introduced In: 9.7

Updates the comment parameter of an SNMP user.

Optional properties

- `comment` - Comment text.

Related ONTAP commands

- `security login modify`

Learn more

- DOC /support/snmp/users/{engine_id}/{name}

Parameters

Name	Type	In	Required	Description
engine_id	string	path	True	Engine ID of owning SVM or remote switch.
name	string	path	True	SNMP user name.

Name	Type	In	Required	Description
return_timeout	integer	query	False	The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202. • Default value: 1 • Max value: 120 • Min value: 0

Request Body

Name	Type	Description
comment	string	Optional comment text.
owner	owner	Optional name and UUID of owning Storage Virtual Machine (SVM).

Example request

```
{
  "comment": "This is a comment.",
  "owner": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

```
Status: 200, Ok
```

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
2621475	This operation is not allowed on a node SVM.
2621699	This operation is not allowed on a system SVM.
5636123	Cannot create an SNMP user with a role other than readonly, none, or admin.
5636124	Cannot create an SNMP user with a role other than vsadmin-readonly, none, or vsadmin.
5832712	Cannot modify attributes for user "diag."
7077906	Cannot use given role with this SVM because a role with that name has not been defined for the SVM.
9043999	ONTAP failed to create an SNMPv3 user because SNMPv3 is disabled in the cluster.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

owner

Optional name and UUID of owning Storage Virtual Machine (SVM).

Name	Type	Description
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

snmpv3

Optional parameter that can be specified only for an SNMPv3 user i.e. when 'authentication_method' is either 'usm' or 'both'. This parameter defines the SNMPv3 credentials for an SNMPv3 user.

Name	Type	Description
authentication_protocol	string	Authentication protocol.
privacy_protocol	string	Privacy protocol.

snmp_user

An SNMP user can be an SNMPv1/SNMPv2c user or an SNMPv3 user. SNMPv1/SNMPv2c user is also called a "community" user. An SNMPv3 user, also called a User-based Security Model (USM) user, can be a local SNMPv3 user or a remote SNMPv3 user. A local SNMPv3 user can be used for querying ONTAP SNMP server over SNMPv3 and/or for sending SNMPv3 traps. The local SNMPv3 user used for sending SNMPv3 traps must be configured with the same authentication and privacy credentials on the traphost receiver as well. A remote SNMPv3 user is also configured on a remote switch and used by ONTAP SNMP client functionality to query the remote switch over SNMPv3. An SNMP user is scoped to its owning Storage Virtual Machine (SVM). Owning SVM could be a data SVM or the administrative SVM.

Name	Type	Description
comment	string	Optional comment text.
owner	owner	Optional name and UUID of owning Storage Virtual Machine (SVM).

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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