



# Manage individual SNMP users

## ONTAP 9.7 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/p  
ublic" -d '{"comment":"Default SNMP community"}'+++</mgmt-ip>+++
```

## 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/s  
nmpuser"+++</mgmt-ip>+++  
  
# The response:  
200 OK
```

```
[[IDc814bb72c7c1bbb5c1043f2d3703a58b]]  
= Delete an SNMP user
```

```
[.api-doc-operation .api-doc-operation-delete]#DELETE# [.api-doc-code-  
block]#`/support/snmp/users/{engine_id}/{name}`#
```

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

```
*  
xref:{relative_path}support_snmp_users_engine_id_name_endpoint_overview.html[DOC /support/snmp/users/{engine_id}/{name}]
```

== Parameters

```
[cols=5*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|In
```

```
|Required
```

```
|Description
```

```
|engine_id
```

```
|string
```

```
|path
```

```
|True
```

```
a|Engine ID of owning SVM or remote switch.
```

```
|name
```

```
|string
```

```
|path
```

```
|True
```

```
a|SNMP user name.
```

```
|fields
```

```
|array[string]
```

```
|query
```

```
|False
```

```
a|Specify the fields to return.
```

```
|return_timeout
|integer
|query
|False
```

a|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.

```
|===
```

```
== 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.
```

```
|===
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|error
```

```
|link:#error[error]
```

```
a|
```

```
|===
```

```
.Example error
```

```
[%collapsible%closed]
```

```
====
```

```
[source,json,subs=+macros]
```

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

```
====
```

```
== Definitions
```

```
[.api-def-first-level]
```

```
.See Definitions
```

```
[%collapsible%closed]
```

```
//Start collapsible Definitions block
```

```
====
```

```
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments
```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description
```

```
|code
|string
a|Argument code
```

```
|message
|string
a|Message argument
```

```
|===
```

```
[#error]
[.api-collapsible-fifth-title]
error
```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description
```

```
|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments
```

```
|code
|string
a|Error code
```

```
|message
|string
a|Error message
```



```
|target
|string
a|The target parameter that caused the error.
```

```
|===
```

```
//end collapsible .Definitions block
=====
```

```
[[ID584b1b14ee5fb9657b49f31df9bf6506]]
= Retrieve SNMP user details
```

```
[.api-doc-operation .api-doc-operation-get]#GET# [.api-doc-code-
block]#`/support/snmp/users/{engine_id}/{name}`#
```

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

```
*
xref:{relative_path}support_snmp_users_engine_id_name_endpoint_overview.ht
ml[DOC /support/snmp/users/{engine_id}/{name}]
```

== Parameters

```
[cols=5*,options=header]
|===
```

```
|Name
|Type
|In
```

```
|Required
|Description

|engine_id
|string
|path
|True
a|Engine ID of owning SVM or remote switch.

|name
|string
|path
|True
a|SNMP user name.

|fields
|array[string]
|query
|False
a|Specify the fields to return.

|return_timeout
|integer
|query
|False
a|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.

|===

== Response
```

Status: 200, Ok

```
[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
```

```
|link:#_links[_links]
```

```
a|
```

```
|authentication_method
```

```
|string
```

```
a|Optional authentication method.
```

```
|comment
```

```
|string
```

```
a|Optional comment text.
```

```
|engine_id
```

```
|string
```

```
a|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
```

```
a|SNMP user name.
```

```
|owner
```

```
|link:#owner[owner]
```

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

```
|scope
```

```
|string
```

```
a|Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
```

```
|snmpv3
```

```
|link:#snmpv3[snmpv3]
```

```
a|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.
```

```
|switch_address
|string
a|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
```

```
* readCreate: 1
```

```
|===
```

```
.Example response
```

```
[%collapsible%closed]
```

```
====
```

```
[source,json,subs=+macros]
```

```
{
  "_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_password": "humTdumt*@t0nAwa11",
"authentication_protocol": "sha2_256",
"privacy_password": "p@**GOandCLCt*200",
"privacy_protocol": "aes128"
},
"switch_address": "10.23.34.45"
}
====

== Error

```

Status: Default, Error

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|error
|link:#error[error]
a|

|===

.Example error
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
====

```

```
== Definitions
```

```
[.api-def-first-level]
```

```
.See Definitions
```

```
[%collapsible%closed]
```

```
//Start collapsible Definitions block
```

```
====
```

```
[#href]
```

```
[.api-collapsible-fifth-title]
```

```
href
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|href
```

```
|string
```

```
a|
```

```
|===
```

```
[#_links]
```

```
[.api-collapsible-fifth-title]
```

```
_links
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|self
```

```
|link:#href[href]
```

```
a|
```

```
|===
```

```
[#owner]
```

```
[.api-collapsible-fifth-title]
```

```
owner
```

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

```
[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|name
|string
a|The name of the SVM.

|uuid
|string
a|The unique identifier of the SVM.
```

```
|===
```

```
[#snmpv3]
[.api-collapsible-fifth-title]
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.

```
[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|authentication_password
|string
a|Authentication protocol password.
```

```
|authentication_protocol
|string
a|Authentication protocol.
```

```
|privacy_password
|string
a|Privacy protocol password.
```

```
|privacy_protocol
|string
a|Privacy protocol.
```

```
|===
```

```
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments
```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description
```

```
|code
|string
a|Argument code
```

```
|message
|string
a|Message argument
```

```
|===
```

```
[#error]
[.api-collapsible-fifth-title]
error
```

```
[cols=3*,options=header]
```



```

|===
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

|code
|string
a|Error code

|message
|string
a|Error message

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
=====

[[ID3ae3a5bd4810be30437f2abdc0531452]]
= Update the comment parameter of an SNMP user

[.api-doc-operation .api-doc-operation-patch]#PATCH# [.api-doc-code-
block]#`/support/snmp/users/{engine_id}/{name}`#

Updates the comment parameter of an SNMP user.

== Optional properties

* `comment` - Comment text.

```

== Related ONTAP commands

\* `security login modify`

== Learn more

\*

xref:{relative\_path}support\_snmp\_users\_engine\_id\_name\_endpoint\_overview.html[DOC /support/snmp/users/{engine\_id}/{name}]

== Parameters

[cols=5\*,options=header]

|===

|Name

|Type

|In

|Required

|Description

|engine\_id

|string

|path

|True

a|Engine ID of owning SVM or remote switch.

|name

|string

|path

|True

a|SNMP user name.

|return\_timeout

|integer

|query

|False

a|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.

```
|===
```

```
== Request Body
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
 |_links
```

```
|link:#_links[_links]
```

```
a|
```

```
|authentication_method
```

```
|string
```

```
a|Optional authentication method.
```

```
|comment
```

```
|string
```

```
a|Optional comment text.
```

```
|engine_id
```

```
|string
```

```
a|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
```

```
a|SNMP user name.
```

```
|owner
```

```
|link:#owner[owner]
```

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

|scope

|string

a|Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".

|snmpv3

|link:#snmpv3[snmpv3]

a|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.

|switch\_address

|string

a|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

\* readCreate: 1

|===

.Example request

[%collapsible%closed]

====

[source,json,subs=+macros]

```
{
  "_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_password": "humTdumt*@t0nAwa11",
  "authentication_protocol": "sha2_256",
  "privacy_password": "p@**GOandCLCt*200",
  "privacy_protocol": "aes128"
},
"switch_address": "10.23.34.45"
}
====

== 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.
```

```
|===
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|error
```

```
|link:#error[error]
```

```
a|
```

```
|===
```

```
.Example error
```

```
[%collapsible%closed]
```

```
====
```

```
[source,json,subs=+macros]
```

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

```

    }
}
====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
====
[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
|===
|Name
|Type
|Description

|href
|string
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self
|link:#href[href]
a|

|===

[#owner]
[.api-collapsible-fifth-title]

```

owner

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

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|_links
```

```
|link:#_links[_links]
```

```
a|
```

```
|name
```

```
|string
```

```
a|The name of the SVM.
```

```
|uuid
```

```
|string
```

```
a|The unique identifier of the SVM.
```

```
|===
```

```
[#snmpv3]
```

```
[.api-collapsible-fifth-title]
```

```
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.

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|_links
```

```
|link:#_links[_links]
```

```
a|
```



```
|authentication_password
|string
a|Authentication protocol password.
```

```
|authentication_protocol
|string
a|Authentication protocol.
```

```
|privacy_password
|string
a|Privacy protocol password.
```

```
|privacy_protocol
|string
a|Privacy protocol.
```

```
|===
```

```
[#snmp_user]
[.api-collapsible-fifth-title]
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). Owing SVM could be a data SVM or the administrative SVM.

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description
```

```
|_links
```

```
|link:#_links[_links]
```

```
a|
```

```
|authentication_method
```

```
|string
```

```
a|Optional authentication method.
```

```
|comment
```

```
|string
```

```
a|Optional comment text.
```

```
|engine_id
```

```
|string
```

```
a|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
```

```
a|SNMP user name.
```

```
|owner
```

```
|link:#owner[owner]
```

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

```
|scope
```

```
|string
```

```
a|Set to "svm" for interfaces owned by an SVM. Otherwise, set to "cluster".
```

```
|snmpv3
```

```
|link:#snmpv3[snmpv3]
```

```
a|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.
```

```
|switch_address
|string
a|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
```

```
* readCreate: 1
```

```
|===
```

```
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments
```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description
```

```
|code
|string
a|Argument code
```

```
|message
|string
a|Message argument
```

```
|===
```

```
[#error]
[.api-collapsible-fifth-title]
error
```

```
[cols=3*,options=header]
```

```
|===
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

|code
|string
a|Error code

|message
|string
a|Error message

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
=====
```

```
:leveloffset: -1
```

```
:leveloffset: -1
```

```
<<<
```

```
*Copyright information*
```

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