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SNMPv3

Robert Göhler - 2019-10-01 - 0 Comments - in SNMP

To start, we will create the usual SNMP meta-data, such as contact and location just as we would with SNMPv1:

```
set service snmp contact 'Joe Smith'  
set service snmp listen-address 10.0.0.1  
set service snmp location 'New York'
```

Note that you should use single or double quotes if your string contains spaces.

Now, we will start configuring SNMPv3. All commands will use the *set service snmp v3* prefix. The first step is to create an engineID in hexadecimal format.

```
set service snmp v3 engineid '0x80001f8810b61f9921b417a48b00000'
```

The second step is to create an SNMP view. It will require both a text string for the name, and an OID, which you can create as well.

```
set service snmp v3 view snmpview1 oid 1.2.3.4.5.6.7
```

With the view created, we must now create a group. The group will define SNMP parameters for SNMPv3 users (to be created in the next step). Here we will create a group, give this group read-only privileges, select the security level for the group, and lastly assign the group a view.

It is strongly recommended to assign read-only privileges to SNMP.

```
set service snmp v3 group group1 mode ro  
set service snmp v3 group group1 seclevel priv  
set service snmp v3 group group1 view snmpview1
```

Now that we have our view, and group created, we can create a user. Let's do this step by step:

Create a username with password

```
set service snmp v3 user user1 auth plaintext-key Password1
```

Define the hash algorithm for the password

```
set service snmp v3 user user1 auth type sha
```

Assign the user a group

```
set service snmp v3 user user1 group group1
```

Set the encryption key for the user to provide privacy for SNMP traffic

```
set service snmp v3 user user1 privacy plaintext-key Privacykey1
```

Define encryption standard for privacy

```
set service snmp v3 user user1 privacy type aes
```