Set up shared SNMP credentials for your NetFlow or sFlow networks

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If you enable SNMP polling on your flow network configuration, you must specify the credentials that allow you to poll the network device. The SNMP authentication credentials apply to all flow networks in a CIDR block and are automatically applied to every discovered flow network unless custom credentials are configured.

1. Log in to the Administration settings on the ExtraHop system through `https://<extrahop-hostname-or-IP-address>/admin`.
2. In the Network Settings section, click **Flow Networks**.
3. In the Shared SNMP Credentials section, click **Add SNMP Credentials**.
4. In the CIDR field, type the IPv4 CIDR block.

   For example, type `10.0.0.0/8` to match any IP address that starts with 10 or `10.10.0.0/16` to match any IP address that starts with 10.10. You cannot configure an IP address to match all traffic.
5. From the SNMP version drop-down list, select **v1**, **v2c**, or **v3**.
6. Configure additional fields specific to the selected SNMP version:

   - If you selected v1 or v2c, in the Community string field, type the community name.
   - If you selected v3, complete these fields, as required:

   Security name

   Type the username provided for authentication. This field is required.

   Security level

   Select the SNMPv3 security model and level from one of these options:

   - authPriv - Supports an SNMPv3 user with both authentication and encryption
   - authNoPriv - Supports an SNMPv3 user with only authentication and no encryption
   - noAuthNoPriv - Supports an SNMPv3 user without authentication and encryption

   Authentication type

   Select the authentication type from one of these options:

   - MD5
   - SHA

   Authentication key

   Type the authentication password or digest for the user.

   Privacy type

   Select the data encryption standard from one of these options:

   - AES
   - DES

   Privacy key

   Type the encryption key for the user.
7. Click **Save**.

Manually refresh SNMP information

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You can poll and retrieve data on demand from the SNMP agent on a flow network device. Instead of waiting for automatic polling to occur after each configuration change to confirm that the change is correct (automatic polling occurs every 24 hours), you can poll immediately.

1. Log in to the Administration settings on the ExtraHop system through `https://<extrahop-hostname-or-IP-address>/admin`.
2. In the Actions column for the approved flow network, click **Poll**.
   The ExtraHop system polls for the following information:

   - The system name of the SNMP agent. This identifier is assigned by SNMP to the flow network. OID: `1.3.6.1.2.1.1.5.0`.
   - The interface name of each interface on the SNMP agent. These identifiers are for each flow interface on the flow network. OID: `1.3.6.1.2.1.2.2.1.2`.
   - The interface speed of each interface on the SNMP agent. OID: `1.3.6.1.2.1.2.2.1.5` and `1.3.6.1.2.1.31.1.1.1.15`.