To poll the SNMP agent and retrieve the values of a given OID (object identifier), or the values of an SNMP table, thereby enabling the operator to easily identify the source of the problem or just be informed of the status of the monitored device/parameter.

Many applications rely on middleware instrumented with SNMP (Simple Network Management Protocol) agents, which contain managed objects that provide information related to the current state of its operation. These objects are arranged in a Management Information Base (MIB). SNMP is an Application Layer protocol that allows external tools to communicate with the agent and read the values of the objects.

Testing SNMP polling

After you configure SNMP, you should verify that you can poll the cluster.

To poll a cluster, you need to use a third-party command such as snmpwalk.

Step

1. Send an SNMP command to poll the cluster from a different cluster.

Example

For systems running SNMPv1, use the CLI command

snmpwalk -v version -c community string ip address or host name system

to discover the contents of the MIB (Management Information Base).

In this example, the IP address of the cluster management LIF that you are polling is

10.11.12.123. The command displays the requested information from the MIB:

Example

For systems running SNMPv2c, use the CLI command snmpwalk -v version -c community_string ip_address_or_host_name system to discover the contents of the MIB (Management Information Base).

In this example, the IP address of the cluster management LIF that you are polling is 10.11.12.123. The command displays the requested information from the MIB:

Example

For systems running SNMPv3, use the CLI command snmpwalk -v 3 -a MD5 or SHA -l authnopriv -u username -A password ip_address_or_host_name system

to discover the contents of the MIB (Management Information Base).

In this example, the IP address of the cluster management LIF that you are polling is

10.11.12.123. The command displays the requested information from the MIB: