Troubleshooting Network Device Issues with snmpwalk

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This article explains how to use the snmpwalk command line tool (Linux) or the iReasoning MIB Browser (Windows) to explore which SNMP OIDs are provided from a specific network device. This output is helpful when troubleshooting why a network device is failing to add into Uptime Infrastructure Monitor.
If there is an issue adding a Network Device element to Uptime Infrastructure Monitor, it is possible to review the OID's available on the network device by using the snmpwalk command line tool available on most Linux installs or by using the Windows GUI tool, iReasoning MIB Browser.
It is possible to identify if there are any OID's missing that Uptime Infrastructure Monitor requires for monitoring the Network Device. A list of the OID's used by Uptime Infrastructure Monitor is available in the Configuration and Performance Metrics for Network Devices article.
Snmpwalk and iReasoning MIB Browser can be installed on any server that has network access to the network device that will be analyzed but it is helpful to install on the Uptime Infrastructure Monitor Monitoring Station server to also test the SNMP connectivity between the Monitoring Station and the network device.

Net-SNMP's snmpwalk

1. If snmpwalk is not already installed, use the Operating System's package management tool (e.g. yast or yum) to install it or download it from http://www.net-snmp.org/download.html.
2. Run the following command to list all of the OID's available from the network device where <community string> is the proper SNMP community string set on the network device and <hostname> is the hostname or IP address of the device:

   ```
   snmpwalk -v 2c -c <community string> <hostname> .1.3
   ```

3. Review the output to make sure all of the OID's that Uptime Infrastructure Monitor requires are present.

iReasoning MIB Browser

1. Download the application at http://www.ireasoning.com/downloadmibbrowserlicense.shtml and install on the Windows-based Uptime Infrastructure Monitor Monitoring Station server.
2. Open the MIB Browser application and in the tool bar, enter the IP address of the network device in the Address field.
3. Click the Advanced... button to enter the community string.
4. From the Operations drop down, select Walk, then click Go.
5. Review the output to make sure all of the OID's that Uptime Infrastructure Monitor requires are present.

Related Documentation

SNMPWalk
iReasoning MIB Browser