A Network Administrator's Toolbox for Monitoring (Instructor Version)

Instructor Note: Red font color or Gray highlights indicate text that appears in the instructor copy only.

Objective

Explain different resources that can be used to receive router log messages.

Instructor Note: This activity can be completed individually or in small groups and then shared with the class.

Scenario

As the network administrator for a small- to medium-sized business, you have just started using CLI network monitoring on the company routers, switches, and servers.

You decide to create a situational listing explaining when to use each method. Network monitoring methods to include are:

- Syslog
- SNMP
- NetFlow

Resources

- Word processing software

Directions

Step 1: Create several situations where Syslog, SNMP, and Net Flow would be used by a network administrator.

Step 2: List the situations in matrix format and ask another student or group to identify which CLI monitoring tool to use to gather information about the network issues described.

Step 3: Share the matrix with another group or the class.

Suggested Activity Example:

CLI Monitoring Tool Scenarios

Scenario	CLI Network Monitoring Tool to Use
A new VoIP system has been installed on the network. You want to keep records of the network load for a week to see if traffic should be redistributed or balanced.	Net Flow
Certain employees are reporting sporadic network availability on a daily basis. You think it could be a router or switch issue, but you are unsure and want to perform a quick check on the links on your network equipment.	Syslog
A check should be made about the status of each interface on the company routers and switches. Status information includes: • Which interfaces are up or down • Which octets have been sent and received • Ping errors and discarded traffic	SNMP

Identify elements of the model that map to IT-related content:

- Network monitoring tools
- Syslog
- SNMP
- Net Flow