Networking



SNMP and Network Device Logs



SNMP

- Simple Network Management Protocol (SNMP)
 - Collects and manipulates valuable network information
 - Agents send an alert to the management station if something isn't functioning properly
 - These alerts are called traps
- Versions
 - SNMPv1
 - Supports plaintext authentication, only uses UDP
 - SNMPv2c
 - Supports plaintext authentication with MD5 or SHA, uses UDP but can be configured to use TCP
 - SNMPv3
 - Supports strong authentication with MD5 or SHA, uses TCP



OIDs and MIBs

- Object Identifiers (OIDs)
 - Mechanism for naming any object, concept, or "thing" with a globally unambiguous persistent name
- Management Information Base (MIB)
 - Contains nodes that are identified by the OIDs



Types of Logs

- Network Device Log
 - Collection of all network data, traffic, issues, etc...
 - Verifies the network is working properly
- Traffic Log
 - Captures the network traffic
 - Dates, times, source, destination, ports, etc...
- Audit Log
 - Records all events in an IT system
- Syslog
 - Standard for sending and receiving notification messages from various network devices

