

Ans. There are three components of SNMP.

1) SNMP Manager: It is a centralized system used to monitor network. It is also known as Network Management Station (NMS).

SNMP Manager's key function.

→ Queries agents

→ Gets responses from agents.

→ Sets variables in agents.

2) SNMP agent: It is a software management module installed on a managed device. Managed device can be network device like PC, router, switches, server etc.

SNMP agent's key function:-

→ Collects management information

→ Stores and retrieves management information.

→ Signals an event to the manager.

3) Management Information Base: MIB consists of information of resources that are to be managed. This information is organized hierarchically. It consists of objects instances which are essentially variables.

Authentication: The process of identifying an individual, usually based on a username and password.

In security systems, authentication is distinct from authorization, which is the process of giving individual access to system object based on their identity.