

Ans. IP Security (IPSec)

The IP Security (IPSec) is an Internet Engineering Task Force (IETF) standards suite of protocol between a communication points across the IP network that provide data authentication, integrity, and confidentiality.

Uses of IP Security :

- * To Encrypt Application layer data.
- * To provide Security for Routers sending routing data across the public Internet.
- * To protect network data by setting up circuits using IPsec tunneling in which all data is being sent between the two endpoints is encrypted, as with a virtual Private Network (VPN) connection.

SNMPV3

In contrast to SNMP version-1 (SNMPv1) and SNMP version-2 (SNMPv2), SNMP version-3 (SNMPv3) supports authentication and encryption.

SNMPv3 uses the User-based security Model (USM) for messages security and the view-based access control model (VACM) for access control.

USM uses the concepts of a users for which security parameters (levels of security authentication, privacy protocols, and keys) are configured for both the agent and the manager. Messages sent using USM are better protected than message with community strings, where passwords are sent in the clear.