



Proper network security should also consist of security policies and practices designed to prevent and monitor unauthorized access.



Common issues include

- Wifi
- Wireless protocols like Bluetooth, NFC
- Weak protocols like Telnet & HTTP
- MAC Address Spoofing





Active Threats

- Malware
- DDoS
- DNS Spoofing
- Man-in-the-middle attacks



Network Security Tools



Can be categorized into the following

- Blocking
- Inspecting
- Monitoring
- Policy





Tools for Inspecting Threats

- Packet Capture
- Netflow Capture (network protocol developed by Cisco for collecting IP traffic information and monitoring network flow)



Tools for Monitoring Threats

- Logs
- Network Visibility Tools e.g Wireshark



Tools for Policy Enforcement

- Nontechnical Compliance Checking (Human Auditing)
- Contractual Compliance Checking (Employee Network Use)
- Real-time Technology Enforcement (Firewalls)
- Passive Technology Enforcement (IDS)

