SECURING NETWORK DEVICES

ROUTER

Routers are the internet backbone, coordinating network traffic. They're vulnerable to theft, hacking, and attacks on routing protocols like RIP/OSPF. To protect them, focus on physical security, advanced configurations, secure routing protocols, and regular updates.

SW IC TH

Network switch security is important to protect against theft, hacking, and network attacks. Protective measures include physical security, advanced configuration, regular system updates, and use of port security features to limit valid MAC addresses

OPETORS CENTER

The Network Operation Center (NOC) is one or more locations containing the tools that provide administrators with a detailed status of the organization's network.



The following sections discuss several measures that an administrator can take to protect various network devices.

WIRELESS AND MOBILE DEVICES

Wireless and mobile devices have become the predominant type of devices on most modern networks. They provide mobility and convenience but pose a host of vulnerabilities.

WHAT IS SERURING NETWORK DEVICES

Securing network devices is an important topic in the world of internetworking and will remain so as long as the threat of intrusion, espionage, theft, or hacking exists.

VLAN

VLANs group devices logically in a LAN, enabling segmentation for security. They isolate networks within a shared infrastructure, protecting sensitive data. However, they face vulnerabilities like protocol attacks. Countermeasures include monitoring, advanced configurations, regular updates

FIREWALL

Firewalls filter traffic, using ACLs for control. They face threats like hacking, theft, and attacks on ACLs or performance. Security involves physical safeguards, advanced setups, secure access, and updates.



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