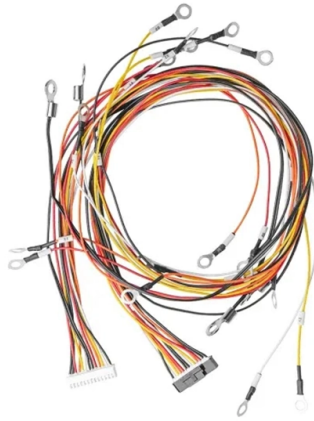


What are some network security devices



Article Overview

Network security devices are specialized tools that protect networks from unauthorized access, cyberattacks, and data breaches by monitoring, filtering, and controlling network traffic.

Firewalls

Firewalls are fundamental network security devices that act as gatekeepers between internal networks and external traffic. They monitor incoming and outgoing traffic based on predefined rules and can be hardware-based, software-based, or a combination. Types include packet-filtering firewalls, stateful inspection firewalls, and next-generation firewalls (NGFW), which offer deep packet inspection, intrusion prevention, and application awareness to block malicious traffic effectively .

Intrusion Detection and Prevention Systems (IDS/IPS)

Intrusion Detection Systems (IDS) monitor network traffic for suspicious activities or policy violations. IDS can be host-based (HIDS), monitoring individual devices, or network-based (NIDS), analyzing traffic across the network. Intrusion Prevention Systems (IPS) go further by actively blocking detected threats in real-time, often integrated into NGFWs or unified threat management (UTM) solutions .

Virtual Private Network (VPN) Gateways

VPN gateways provide secure remote access to private networks by encrypting data transmitted between users and the network. This ensures confidentiality and protec...

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Learn about the threats and risks associated with network infrastructure devices and how you can protect your network

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The Most Common Types of Network Security Devices to Protect

While there are multiple ways to categorize the various network security components, some of the more common

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