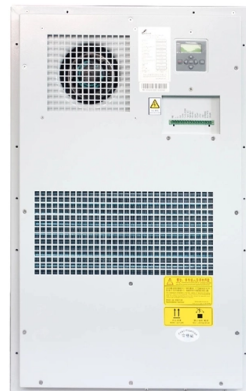


Network Security Device Management and Configuration



Summary of Content

Network security device configuration management ensures that routers, switches, firewalls, and other network devices are securely configured, monitored, and maintained to prevent vulnerabilities and maintain compliance.

Importance of Secure Configuration

Default configurations on network devices are often designed for ease of deployment rather than security. Open ports, default accounts, outdated protocols, and unnecessary software can be exploited by attackers. Secure configuration management is a continuous process that involves tracking, reviewing, and updating device settings to prevent unauthorized access, data breaches, and network outages. Regular configuration reviews help identify misconfigurations, optimize performance, and ensure compliance with standards such as PCI-DSS, HIPAA, and ISO/IEC 27001.

Key Practices

- **Configuration Baselines and Change Management** Establish a baseline configuration for each device type and implement a change control process to track modifications. This ensures that any deviations are documented, approved, and evaluated for security risks.
- **Regular Reviews and Audits** Conduct periodic configuration reviews to detect vulnerabilities, remove unnecessary services, and verify firewall rules, VLANs, and access controls. This reduces the risk of attackers exploiting misconfigurations.

Article Content

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What is network device management?

Network device management refers to the end-to-end process of discovering, configuring, securing, monitoring,

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Thanks to network configuration management, teams can quickly reconfigure network devices after a failure or a

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CIS Control 11: Secure Configuration for Network Devices, such as ...

Establish, implement, and actively manage (track, report on, correct) the security configuration of network infrastructure devices

Network Device Management Policy

A structured approach to network device management ensures secure configuration, monitoring, and access control

Hardening Network Devices

Hardening Network Devices Hardening network devices reduces the risk of unauthorized access into a network's

What is network configuration?

Network configuration is the process of setting up the policies, controls and data flows that allow devices

How to Configure a Firewall: Deployment and Advanced Settings

How to Configure a Firewall: Deployment and Advanced Settings A firewall is a network security device that is usually located at the

23.3.9 Check Your Understanding

Which device management activity involves the implementation of systems that track the location and configuration of

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What is Device Management?

What is device management in relation to cybersecurity and antivirus? Device management involves the process of monitoring,

Perform the Initial Setup and Configuration for NGFWs

Perform the initial configuration for your NGFW. You can perform these initial configuration tasks either from the MGT interface, even

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