

Cybersecurity System Access Switch



Article Overview

Securing network switches is critical for controlling access and protecting enterprise networks from cyber threats.

Key Security Measures for Switches

1. Access Control and Authentication Implement strong, unique passwords for all switch accounts and avoid default credentials. Enable SSH for secure remote management and disable insecure protocols like Telnet. Use Role-Based Access Control (RBAC) to limit access based on user roles, and configure AAA (Authentication, Authorization, and Accounting) with external servers such as RADIUS or TACACS+ for centralized access management .
2. Physical Security Place switches in locked cabinets or secure rooms to prevent unauthorized physical access. Disable unused ports and enable port security to restrict the number of devices that can connect to a port, mitigating risks from rogue devices .
3. VLAN Segmentation Use Virtual LANs (VLANs) to separate traffic types, such as user, management, and server traffic. Avoid using default VLANs (like VLAN 1) for management, as they are common targets for attackers. VLAN segmentation reduces the attack surface and isolates sensitive data .
4. Port Security and Monitoring Enable MAC address filtering to allow only authorized devices to connect to specific ports. Configure alarms for port status changes and disable dynamic trunking to prevent unauthorized devices from creating network trunks . Regularly monitor switch logs and network traffic for suspicious activity.
5. Configuration Management Maintain a rigorous configuration management and change control process. Regularly review and update switch configurations to close vulnerabilities, remove unused services, and ensure compliance with security policies . This prevents attackers from exploiting default settings or outdated configurations.
6. Managed vs. Unmanaged Switches

Article Content

Secure Router & Switch Configurations: Best Practices

Expert guide on secure router and switch configurations to protect your computer networking products and defend against cyber threats.

Basic Switch Security Concepts Explained

In this article, we will explore basic switch security concepts and best practices to ensure a secure network environment.

Fully Managed Access Switches: R& S Networks and Cybersecurity

Fully managed access switches from R& S Networks and Cybersecurity are the secure and powerful networking foundation in all

Cisco Cyber Vision

Transform your industrial networks into powerful OT security assets with Cisco Cyber Vision—for visibility, segmentation, and secure

Routing and Switching Basics for Cyber and Network Security

Let's take a look at what routers and switches actually do, what their role is with regard to network security, and the latest

Security switch

Security switch A security switch is a hardware device designed to protect computers, laptops, smartphones and similar devices from

Switches: R& S Networks and Cybersecurity

R& S® LANCOM access switches provide reliable network connections for end devices and other network components such as

What is cybersecurity?

What is cybersecurity all about? Cybersecurity is the practice of protecting systems, networks, and programs from digital attacks.

Security switch

Unlike other protections or techniques, a security switch can provide protection even if security has already been breached, since it

What Is a Cyberattack?

Defining a cyberattack In the context of cybersecurity, an attack is an intentional act designed to breach the information systems of

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