

Security computing tools and switch access



Article Overview

Securing network switches requires strong authentication, encrypted access, port security, VLAN segmentation, and continuous monitoring to prevent unauthorized access and maintain network integrity.

Key Security Measures for Switch Access

1. Strong Authentication and Access Control

- Use strong, unique passwords for all switch accounts and avoid default credentials .
- Implement Role-Based Access Control (RBAC) to limit access based on user roles .
- Configure AAA (Authentication, Authorization, and Accounting) with external servers like RADIUS or TACACS+ for centralized access management .
- Disable insecure protocols such as Telnet and use SSH or SSL for encrypted remote access .

2. Physical and Port Security

- Place switches in locked cabinets or secure rooms to prevent unauthorized physical access .
- Enable port security to restrict the number of MAC addresses per port and define actions like shutting down a port or generating alerts when violations occur .
- Disable unused ports to reduce the attack surface .

3. Network Segmentation and Traffic Control

Article Content

Best Practices for Securing Cisco Switches in Enterprise Environments

Enterprise networks face constant threats from cyberattacks. Cisco switches, often forming the backbone of such

Access Control in Security: Methods and Best Practices

Access control is key in IT and cybersecurity to minimize risks by allowing resource access only to authorized users

9 Configuring Switch Security

9 Configuring Switch Security The authentication, authorization, and accounting (AAA) mechanism verifies the identity of, grants

13 essential enterprise security tools — and 10 nice-to

Tool types, and their accompanying marketing nomenclatures, can overlap and be hard to

What is access control?

Access control is a security technique that regulates who or what can view or use resources in a computing

Best Practices for Securing Network Switches | by Zunair | Medium

Network switches play a vital role in keeping your network operational and secure. By following these best practices,

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Section 4 – Router and Switch Security

Section 4 Tasks • Read today's lesson notes (below) • Review yesterday's lesson notes • Complete today's lab •

10 Network Switch Security Best Practices

Network switches are a critical part of any network, so it's important to make sure they're secure. Here are 10 best

Computer security

Computer security (also cybersecurity, digital security, or information technology (IT) security) is a

What Is a Network Switch?

Tools: Network Access Control (NAC) Solutions: These tools help enforce network access

What is secure remote access?

Cloud-delivered security services through SSE or SASE No single tool delivers complete remote access security The combination -

Mastering Cybersecurity Day 03: Network Device Security (Switches)

In this newsletter, we'll explore how switches work, delve into types of switches, discuss security configurations,

Cisco Secure Access

The integration of Meraki SD-WAN and Cisco Secure Access (SSE) provides generative AI and agentic AI protection with high

How to Secure a Switch from Unauthorized Access

Learn how to protect your switch and your network from hackers, intruders, or spoofers. Discover six ways to secure a switch using

How to Enhance Network Switch Security

This blog post will guide you through practical steps to enhance your network switch security, covering authentication

Network Switch Security 101 | ServerMania

Enhance your network's safety with ServerMania's guide to switch security. Learn the basic strategies to protect your

Cloud Controls Matrix | CSA

The CSA Cloud Controls Matrix (CCM) is a cybersecurity control framework for cloud computing. It is composed of 197 control

Network access control

Network access control (NAC) is an approach to computer security that attempts to unify endpoint security technology (such as

General Access Control Guidance for Cloud Systems

Specifically, cloud systems offer application services, data storage, data management, networking, and computing resources

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Ultimate Guide to Secure Remote Access

Ultimate guide to secure remote access This comprehensive secure remote access guide outlines the strategies,

Switch Security: The Silent Guardian of Your Network

Network switches are critical for data flow, but their security is often overlooked. This article delves into why switch

27 Top Cybersecurity Tools for 2026

The list below is organized to help security leaders, IT teams, and learners understand where each tool category fits

What Is Cybersecurity? | IBM

IBM's definition of cybersecurity. Learn how modern threats evolve with technology, stay ahead with trends

Firewall and network protection in the Windows Security app

You can use the Windows Security app to view and manage the status of Windows Firewall. You can turn the firewall on or off, and

Routing and Switching Basics for Cyber and Network Security

Routing and switching are essential network infrastructure functions that protect against unauthorized access and threats. Modern

How to Secure Cisco Routers and Switches |Global Knowledge

Routers and switches make up the bulk of network infrastructure and are vulnerable to attack. There are three main

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://jrsekwele.co.za>

Email: info@jrsekwele.co.za

Phone: +31-20-794-2536

Address: Herengracht 47, 1015 BB Amsterdam, Netherlands

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