

Security Configuration of Access Layer Switches



Overview

This article provides a complete hardening framework mapped to specific SOC2 Trust Services Criteria (CC6, CC7, CC8) and ISO 27001 Annex A controls, along with Cisco IOS configuration templates for a 3850 on 16. 9 that satisfy these requirements without requiring a software upgrade. Also, this guide can assist information security officers by describing the security issues related to critical systems (e., switches) which are part of their computer networks. This guide was developed in response to numerous questions and requests for assistance received by the Systems and. The short answer: IOS software updates are not required to maintain compliance with SOC2, ISO 27001, or PCI DSS on Cisco access-layer switches. Compliance is achievable — and fully defensible in an audit — through deliberate LAN configuration hardening: enforcing least privilege, strong. Step 1: Create a Secure Trunk. Step 2: Secure Unused Switchports. Secure Access to the Switch Use Strong Passwords: Configure strong, unique passwords for all switch accounts, avoiding default or weak credentials. Enable SSH: Disable insecure protocols like Telnet and enable. This command produces the boot loader prompt (switch:) after the switch is power cycled.

Article Content

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11.6.1 Packet Tracer – Switch Security Configuration

By implementing these best practices, organizations can significantly enhance the security posture of their Cisco switches, ensuring a robust defense against potential threats.

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Security hygiene: Treat the obfuscation process and outputs as sensitive until validated. Restrict access to the obfuscation configuration, logs, and any intermediate exports that may contain

How to Harden Cisco Access-Layer Switches for Security Compliance ...

This article provides a complete hardening framework mapped to specific SOC2 Trust Services Criteria (CC6, CC7, CC8) and ISO 27001 Annex A controls, along with Cisco IOS

Network Security

Network security works through multiple protective layers that control access at both the network edge and inside the environment. Each layer ensures

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Layer 3 Switch Example

Configuring the Switch Ports Additional Considerations Switch Management IP and Layer 3 Interfaces (SVIs) Related KBs This article outlines a basic example of how layer 3 routing functionality on MS

11.6.2 Lab - Switch Security Configuration (Answers)

This is a comprehensive lab to review previously covered Layer 2 security features. Note: The routers used with CCNA hands-on labs are Cisco 4221 with Cisco IOS XE Release 16.9.3

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A firewall is a type of network security device component that is used to keep track of incoming and outgoing network traffic and then make decisions

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Port Security: Controlling Access at the Access Layer

One of the simplest yet effective Layer 2 security features used to enforce this control is Port Security on Cisco switches. Port security allows network administrators to define which devices...

Security Hardening Checklist Guide for Cisco Routers/Switches in 10

In this article we will focus on Management Plane security and discuss the 10 most important steps to harden a Cisco IOS network device.

Security Configuration Guide, Cisco IOS XE 17.17.x (Catalyst 9300

This chapter provides configuration information about controlling switch access with passwords and privilege levels.

Switches: Support and Downloads

Cisco Category page for supported Switches - Support Documentation, Downloads, and End-of-Life status.

Contact Us

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