

What is a secure access switch



Article Overview

A secure access switch is a network switch configured with security measures to control and protect access to network resources, ensuring only authorized devices and users can connect.

Definition and Purpose

A secure access switch is a type of network switch that not only connects multiple devices within a local area network (LAN) but also incorporates security mechanisms to protect data integrity, confidentiality, and availability . Unlike standard switches, secure access switches enforce authentication, access control, and monitoring to prevent unauthorized access and mitigate network threats .

Key Security Features

- **Authentication Protocols:** Secure access switches often use protocols like 802.1X, RADIUS, and TACACS+ to verify the identity of devices and users before granting network access . This ensures that only authorized endpoints can communicate on the network.
- **Port Security:** Administrators can limit the number of devices per port, define allowed MAC addresses, and configure actions such as shutting down a port or generating alerts when violations occur .
- **Role-Based Access Control (RBAC):** Access can be restricted based on user roles, ensuring that users only have permissions appropriate to their responsibilities .
- **VLAN Segmentation:** Traffic can be separated into different VLANs (e.g., management, user, and server traffic) to reduce the attack surface and prevent lateral movement by attackers

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Access switches are at the core of this infrastructure, representing the first interaction of end-user equipment with

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Secure remote access for employees allows authorized users to connect to their corporate network on authorized devices from

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Security switch

A security switch performs scheduled monitoring and finds that a program is attempting to download malicious content from the

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What is Network Switch Security and Why It's Important? Network switches operate at the Data Link Layer or Layer 2

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Comprehensive guide to Core, Distribution, and Access Switches. Roles in the network and important parameters explained.

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Selecting access switches is not only a technical decision, but also a crucial step in shaping the future network

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Key Features of Access Switches Explained

The essential features of access switches, including high port density, PoE, Layer 3 capabilities, security, and QoS for efficient

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What is secure remote access? Secure remote access is the practice of providing controlled, authenticated, and continuously verified

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While switches provide efficient connectivity, it is crucial to implement appropriate security measures to protect networks from

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How Does a Switch Provide Security? A switch offers several security features that can be employed to safeguard

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FortiSwitch Secure Access Data Sheet

FortiSwitch access switching offers IT administrators the ability secure ports ensuring only approved users and devices get access to

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Best Practices for Securing Cisco Switches in Enterprise Environments

Place switches in locked cabinets or rooms to prevent unauthorized physical access. Disable unused ports and enable

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Network Switch Security 101 | ServerMania

It's a software layer that sits on top of your WAN, giving you more control over traffic and access to resources. It's

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FortiSwitch Secure Access Series

FortiSwitch_Secure_Access_Series - Free download as PDF File (.pdf), Text File (.txt) or read online for free. The document is a

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Cisco Secure Access Help

The Secure Access policy is a container for your security configuration rules. Organize your policy rules to protect your users and

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Access security features

This section provides an overview of the switch access security features, authentication protocols, and methods. For more in-depth

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What Is a Network Switch?

Securing network switches is crucial to protect your network infrastructure from unauthorized access, data breaches,

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Campus LAN Access Switches

Cisco Catalyst and Cisco Meraki campus LAN access switches combine wired and wireless to help you drive digital transformation,

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Best Practices for Securing Cisco Switches in Enterprise Environments

In today's interconnected world, enterprise networks face constant threats from cyberattacks. Cisco switches, often

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Access Security Features

Access Security Features This section provides an overview of the switch access security features, authentication protocols, and

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Secure Access Service Edge (SASE) Connect

Enable secure access anywhere with Cisco SASE — delivering zero-trust security, simplified IT operations,

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What Is an Access Layer Switch? Guide complet

An access layer switch is the entry point for users and devices into your network—and a critical piece of both performance and

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Basic Switch Security Concepts Explained

Switches play a vital role in network infrastructure by facilitating the flow of data packets between devices. While

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9 Configuring Switch Security

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

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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

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What is access switch and how to choose the right one

Security and Reliability: Since the access switch is located at the network boundary, its security is crucial. If it is

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Cisco Secure Access

Cisco Secure Access is a converged, cloud-delivered security service edge (SSE) solution, grounded in zero trust, for secure access

Contact Us

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