Huawei Switch Access Devices



Overview

Best Huawei Access Points, Hubs, and Switches: A Comprehensive The array of Huawei access points, hubs, and switches featured in this guide offers top-notc.

Key Takeaways

Huawei switches control access for authorized devices using NAC, AAA protocols, and IAM role-based permissions to ensure secure network connectivity. Network Admission Control (NAC) and AAAHuawei switches implement Network Admission Control (NAC) in unified mode, which handles authentication, authorization, and accounting for both device administrators and access users.

NA

C ensures that only authorized devices can connect to the network. Access authentication is typically performed using RADIUS or HWTACACS, which communicate with AAA servers in a client/server model.

HWTACAC

S encrypts the entire packet and separates authentication from authorization, while RADIUS encrypts only the password and combines authentication and authorization.

Role-

Based Access with IAMFor enterprise environments, Huawei provides Identity and Access Management (IAM) to control access to switch resources. Administrators can: Create IAM users based on organizational structure. Assign users to groups and grant permissions according to their roles.

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Use system-defined policies like Tenant Guest to restrict access to only necessary functions. Verify permissions by logging in as the user and checking access to the Enterprise Switch console. This approach allows granular control over which devices or personnel can perform operations on the switch.

CLI Commands for Managing Authorized Devices

Huawei switches provide CLI commands to monitor and manage connected devices: Display connected devices: Use display mac-address to list MAC addresses of devices connected to the switch.

Check AR

P table: display arp shows IP and MAC addresses of recently communicating devices. Interface status: display interface brief shows which ports are active and their speed/duplex settings.

LLD

P neighbors: display lldp neighbor identifies neighboring devices, their type, and port connections. User creation and AAA configuration: Use commands to create local users, set passwords, define service types (SSH, Telnet), and assign access levels (1–15). Verify with display local-user.

VLAN and Port-

Based Access Control

To restrict device access further, administrators can assign ports to specific VLANs in access mode using CLI commands. For example: CodeCopysystem-viewinterface Gigabitethernet0/0/1port link-type accessport default vlan 10 This ensures that only devices connected to authorized ports and VLANs can access the network.

Best Practices

Use centralized AAA servers for consistent authentication and authorization. Apply role-based IAM policies to limit permissions to only what is necessary. Regularly monitor connected devices using MAC address tables and LLDP neighbors.

Combine port-based VLAN assignments with NAC policies for enhanced security. By integrating NAC, AAA, IAM roles, and CLI-based monitoring, Huawei switches provide a robust framework to manage and authorize devices securely on the network.

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Article Content

Best Huawei Access Points, Hubs, and Switches: A Comprehensive

The array of Huawei access points, hubs, and switches featured in this guide offers top-notch performance and cutting-edge technology to meet diverse networking needs.

Configuring Access Devices

This document describes the working mechanisms, configuration procedures, and configuration examples of User Access and Authentication features, such as AAA, NAC, and Policy Association.

Configuring access, trunk, and hybird ports on Huawei switches and ...

In Ethernet, layer-2 switching devices communicate by identifying MAC addresses. The data link layer defines the point-to-point transmission and builds the logical line.

Access port config (Huawei)

An access port belongs to and carries the traffic of only one VLAN within 2-layer switch. Traffic is both received and sent in native formats with no VLAN tagging whatsoever.

huawei switch cheat sheet · GitHub

Huawei Switch Discovery Tool: This tool can be used to discover Huawei network switches on a network. It can also be used to gather information about the switches, such as their IP

Huawei S3700, S5700 and S6700 Switches Support Guide, Manuals

S3700&S5700&S6700 Series: Access product manuals, HedEx documents, product images and visio stencils.

HUAWEI SWITCH BASIC CONFIGURATIONS WITH EXAMPLE(5

An access port belongs to and carries the traffic of only one VLAN within 2-layer switch. Traffic is both received and sent in native formats with no VLAN tagging whatsoever.

Basic CLI Commands on Huawei Switch

This text is a guide detailing Basic Command Line Interface (CLI) Commands on Huawei brand switches. It provides step-by-step instructions for users to perform

How to SSH from Huawei Switch? Could This Protocol

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Remote management of a Huawei switch often feels like a tug-of-war between convenience and risk. While Telnet lets you configure devices from afar, it''s

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MA5800 | Access | OLT | FTTH | Huawei Enterprise

Huawei SmartAX MA5800 Series The MA5800 multi-service access device is a 4K/8K/VR-ready OLT in the gigabit ultra-broadband era. It supports the PON/10G PON/50G PON/GE/10GE shared platform.

Huawei PoE Switches | 90W Hi-PoE & Multi-GE

Explore Huawei PoE, PoE+, PoE++ and 90 W Hi-PoE switches—multigig speed, iStack scalability, AI O&M. Fast shipping and expert sizing at Network-switch .

Ethernet Switch Port Types Explained 2026: RJ45,

A complete engineering guide to Ethernet switch port types: RJ45, SFP, SFP+, SFP28, QSFP+, QSFP28, Combo, Stack, PoE, access/trunk/hybrid

Enterprise Routers | Huawei Enterprise

As the industry''s first enterprise-class Access Routers (ARs) designed for a Software-Defined Wide-Area Network (SD-WAN) solution, the NetEngine AR6700 series uses a multi-core processor and non

Optical Access Architecture Reference Document: Huawei vs ZTE

switching capacity, per-slot bandwidth, PON port density, redundancy mechanisms, and environmental tolerances to establish a clear framework for strategic infrastructure investment.

What Is a Switch? What Is It Used for?

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What Is a Switch? A switch enables network communication for connected IT devices. Switches fall into different categories from different perspectives, including Ethernet switches, Layer

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