

Huawei Switch Access Layer Settings



AI Overview

Access layer configuration on Huawei switches involves VLAN assignment, port configuration, ACLs, port security, and Layer 2 management to ensure secure and efficient network access.

VLAN Configuration
VLANs segment a network into multiple broadcast domains. On Huawei switches, you can create VLANs and assign ports as follows:

- Enter system view: `system-view`
- Create VLANs: `vlan batch 2 3` (creates VLAN 2 and 3)
- Assign a port to a VLAN in access mode:
`CodeCopyinterface ethernet 2/0/1`
`port link-type access`
`port default vlan 2`
`quit`

For trunk ports carrying multiple VLANs:

- `CodeCopyinterface GigabitEthernet 0/0/1`
`port link-type trunk`
`port trunk allow-pass vlan 2 3`
`quit`

This ensures hosts within a VLAN can communicate while isolating traffic between VLANs.

Port Configuration and Security
Proper port configuration is critical for access layer security:

- Enable a port: `CodeCopyinterface GigabitEthernet 0/0/1`
`undo shutdown`
- Apply port security to prevent unauthorized access:
`CodeCopyport-security enable`
`port-security mac-address sticky`

Rate limiting can be applied to prevent traffic floods:
`CodeCopyqos lr outbound cir 100000`

Always save configuration: `save`

Access Control Lists (ACLs)
ACLs filter traffic based on source/destination IPs, ports, and protocols:

- Basic ACL:** Filters IPv4 packets by source IP, fragment info, or time range.
- Advanced ACL:** Filters by source/destination IP, protocol type, TCP/UDP ports, fragment info, and time range.

Apply ACL to a service module or interface to allow or deny traffic:
`CodeCopyacl 3000`
`rule permit ip source 192.168.1.0 0.0.0.255`
`interface GigabitEthernet 0/0/1`
`traffic-filter inbound acl 3000`
`quit`

This ensures only authorized traffic reaches the access layer devices.

Layer 2 Management

- LLDP:** Enables discovery of neighboring devices and topology mapping:
`CodeCopylldp enable`
Configure LLDP intervals, delay, and hold time to optimize neighbor information updates.
- Eth-Trunk:** For link aggregation and redundancy:
`CodeCopyinterface Eth-Trunk 1`
`mode lacp-static`
`quit` or dynamic mode:...

Article Content

How to Set Console Passwords on Huawei Switch? Can Access

Securing your Huawei Switch isn't about ticking boxes—it's about building a fortress. A console password is the first brick, but layered access control, rigorous auditing, and smart

Layer 2 Switching

Layer 2 Switching A Layer 2 device works at the second layer of the OSI model and forwards data packets based on media access control (MAC) addresses. Ports on a Layer 2 device send and

Huawei S Series Quick Configuration

Small-Sized Campus Networks This section uses the S2750 as an access switch (ACC1), S5700 as a core switch (CORE), and an AR series router as an egress router (Router) as examples to

Example for Configuring a Layer 3 Switch to Work with a Firewall for ...

Example for Configuring a Layer 3 Switch to Work with a Firewall for Internet Access
Layer 3 Switch Layer 3 switches provide the routing function, which indicates a network-layer function in the OSI

S Series Campus Switches Quick Configuration (V200)

This document describes how to log in Huawei S series switches for the first time and fast configure the switches, and describes the procedures of configuring unconfigured switches in three

Example for Switching an Interface to Layer 3 Mode

Example for Switching an Interface to Layer 3 Mode Networking Requirements As shown in Figure 3-15, PC1, PC2, PC3, and PC4 are on four network segments, and SwitchB, SwitchC,

Example for Configuring a Layer 2 Switch to Work with a Router for ...

In Figure 1-3, a company has multiple departments that belong to different network segments, and each department needs to access the Internet. It is required that users access the Internet through the

Basic CLI Commands on Huawei Switch

The text covers tasks such as creating a user, VLAN configuration, port settings, enabling SSH and Telnet services, configuring Spanning Tree Protocol (STP),

How to Enable Ports in Huawei Switch? Could Open Ports Unlock

Configuring ports on a Huawei switch is a fundamental yet critical task for network administrators. Whether you're setting up a new network segment or troubleshooting connectivity

How to do Starting Configuration of Huawei Ethernet Switch S5735

In this video, we configure huawei network switch s5735 and S5700 series. first, go through the initial mode to access GUI (graphic user interface) web pag...

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 SWITCH BASIC CONFIGURATIONS WITH EXAMPLE(5

Access port config: 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...

Master the Basic Command Configurations of Huawei, H3C, Ruijie,

As technology advances, networking switches have become an integral part of the IT infrastructure. They play a crucial role in directing communication on the network and ensuring

Example for Configuring Inter-VLAN Layer 3 Roaming

Service Requirements Enterprise users can access the network through WLANs, which is the basic requirement of mobile office. Furthermore, users' services are not affected during inter

How to Configure a Firewall: Deployment and Advanced Settings

A switch is usually used to set up a LAN to serve as an important hub for local area network communications. The switch quickly forwards packets through Layer 2/Layer 3 switching. A firewall is

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.

Access Layer (Access Switch)

Access Layer (Access Switch) The access layer is the edge of a campus network, which provides diverse access modes to PCs, network cameras, printers, IP phones, and wireless terminals. It is the

Contact Us

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

Website: <https://www.umele-pestovani.eu>

Email: info@umele-pestovani.eu

Phone: +49 152 287 6349

Address: Neue Mainzer Straße 66-68, 60311 Frankfurt am Main, Germany

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