How to configure VLANs on an H3C core switch

Overview

Assigning the correct H3C VLAN interface (interface vlanif [vlan-id]) with the right IP address as the default gateway is essential. Getting a subnet mask wrong on a VLAN interface ...

Key Takeaways

VLANs on H3C core switches are configured by creating VLANs, assigning ports, setting trunk or hybrid modes, and optionally configuring VLAN interfaces for inter-VLAN routing. Step 1: Enter System ViewAccess the switch via SSH, Telnet, or console and enter system view to start configuration: CodeCopy system-view Step 2: Create VLANsCreate VLANs using the vlan command. You can create multiple VLANs in bulk: CodeCopy vlan 10[H3C-vlan10] name Sales[H3C-vlan10] quit vlan 20[H3C-vlan20] name Engineering[H3C-vlan20] quit By default, VLAN 1 exists and cannot be removed.

VLAN I

Ds range from 1 to 4094 for user configuration. Step 3: Assign Ports to VLANsAccess PortsAssign a port to a VLAN in access mode: CodeCopy interface GigabitEthernet1/0/1[H3C-GigabitEthernet1/0/1] port link-type access[H3C-GigabitEthernet1/0/1] port default vlan 10 Trunk PortsConfigure a port to carry multiple VLANs: CodeCopy interface GigabitEthernet1/0/24[H3C-GigabitEthernet1/0/24] port link-type trunk[H3C-GigabitEthernet1/0/24] port trunk permit vlan 10 20[H3C-GigabitEthernet1/0/24] port trunk pvid vlan 10 Trunk ports allow multiple VLANs to pass, and the PVID sets the default VLAN for untagged frames.

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Hybrid Ports

Hybrid ports can carry both tagged and untagged traffic: CodeCopy interface GigabitEthernet1/0/2[H3C-GigabitEthernet1/0/2] port link-type hybrid[H3C-GigabitEthernet1/0/2] port hybrid vlan 10 tagged[H3C-GigabitEthernet1/0/2] port hybrid vlan 20 untagged Step 4: Configure VLAN Interfaces (Layer 3)For inter-VLAN routing, create VLAN interfaces and assign IP addresses: CodeCopy interface Vlan-interface10[H3C-Vlan-interface10] ip address 192. 168. 10.

1 255. 255. 255.

0 interface Vlan-interface20[H3C-Vlan-interface20] ip address 192. 168. 20.

1 255. 255. 255.

0 These virtual interfaces act as gateways for hosts in each VLAN. Step 5: Optional Advanced ConfigurationsMAC-based VLANs: Assign VLANs based on MAC addresses for dynamic port assignment. 802.

1Q tagging: Ensure VLAN tags are consistent across devices for trunk links. STP/RSTP/MSTP: Enable spanning tree to prevent loops on VLANs. Saving Configuration: Always save changes to persist after reboot: CodeCopy save Step 6: Verification CommandsView VLANs: display vlanView ports in a VLAN: display vlan 10View VLAN interface status: display interface Vlan-interface10Check trunk configuration: display interface GigabitEthernet1/0/24.

By following these steps, you can successfully configure VLANs on H3C core switches, assign ports, enable trunking or hybrid modes, and set up inter-VLAN routing for Layer 3 communication.

Article Content

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Operation Manual

There are two ways to configure Access-port-based VLAN: one way is to configure in VLAN view, the other way is to configure in Ethernet port view/port group view.

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H3C SeerEngine-Campus Deployment Guide-E68XX-5W101

For more information about Unified Platform application packages, see the "Application installation packages" section in H3C Unified Platform Deployment Guide. This document describes only the

Static routes and switches : r/networking

On the core switch, you need configure the VLANs but also the SVIs, VRFs and routes to the firewall. Of course, from the firewall you need to configure static routes back the switch as well. Hopefully this

H3c ls-s5560x 10 gigabit switch | 24/48 port poe+ vlan+ ...

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