Adding VLANs to H3C Core Switches

Overview

Support For each VLAN, you can create one VLAN interface and assign an IP address to it. The VLAN interface acts as the gateway of the VLAN to forward pack.

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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In this video, I have explained the basic configurations of an H3C switch, including: Setting the hostname Creating VLANs Assigning IP addresses to VLAN interfaces Enabling Inter

H3C Switch Configuration | VLAN Configuration and Assign IP

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This guide provides information on configuring VLAN-VPN, selective QinQ, and BPDU tunnel features on your H3C network switch. You can use these features to create virtual LANs (VLANs) and

Operation Manual

The VLAN Tag comprises four fields: the tag protocol identifier (TPID) field, the Priority field, the canonical format indicator (CFI) field, and the VLAN ID field.

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Overview & Thematic ScopeUnderstanding the Layer 3 routing capabilities of an H3C switch is critical for both network architects planning new deployments and engineers troubleshooting existing

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How To Configure H3C Switch (UPDATED)

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H3C S5830 Switch Series Configuration Examples

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To assign GigabitEthernet 1/0/2 to VLAN 10 after the user fails authentication, you must configure VLAN 10 as the 802.1X Auth-Fail VLAN on GigabitEthernet 1/0/2.

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