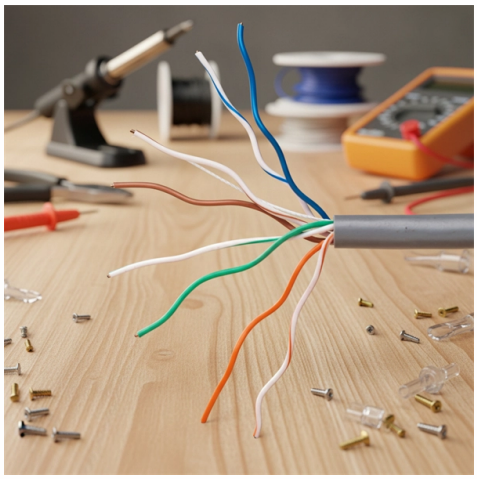
Core Switch H3C Routing Mode



Overview

Support Configure routes on the core switch. The core switch communicates with the egress router through VLAN-interface 100, which is used for the connecti.

Key Takeaways

H3C core switches can operate in Layer 3 routing mode by enabling IP routing and configuring VLAN interfaces with IP addresses, allowing inter-VLAN communication and connectivity to upstream routers. Enabling Routing ModeH3C switches typically operate in Layer 2 by default. To enable routing capabilities: Enter system view: CodeCopysystem-view This allows configuration of global device settings.

Enable I

P routing: CodeCopyip routing This command switches the device from pure Layer 2 mode to Layer 3, allowing the switch to forward packets based on IP addresses.

Configuring VLAN Interfaces

To allow inter-VLAN routing, each VLAN must have an SVI (Switch Virtual Interface) with an IP address: Create VLANs: CodeCopyvlan 10vlan 20 Assign IP addresses to VLAN interfaces: CodeCopyinterface Vlan-interface 10ip address 192. 168. 10.

1 255. 255. 255.

0interface Vlan-interface 20ip address 192. 168. 20.

1 255. 255. 255.

0 These IPs act as gateways for devices in each VLAN.

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Configuring Routes

Default route to egress router: CodeCopyip route-static 0. 0. 0.

0 0. 0. 0.

0 192. 168. 100.

1 This ensures traffic destined for external networks is forwarded to the upstream router. Static routes for specific networks (optional): CodeCopyip route-static 192. 168.

30. 0 255. 255.

255. 0 192. 168.

20. 2 Dynamic routing protocols (optional): H3C switches support RIP, OSPF, and BGP. For example, enabling RIP: CodeCopyripnetwork 192.

168. 10. 0network 192.

168. 20. 0 This allows automatic route sharing between switches and routers.

Inter-VLAN CommunicationOnce VLAN interfaces are configured and IP routing is enabled, devices in different VLANs can communicate through the core switch without requiring an external router. Ensure that access ports are assigned to the correct VLANs and that trunk ports carry all necessary VLANs.

Summary

Enter system-view and enable IP routing to switch to Layer 3 mode.

Configure VLA

N interfaces with IP addresses for inter-VLAN routing. Set default and static routes or enable dynamic routing protocols for broader network connectivity. Verify connectivity using commands like display ip routing-table and ping to test inter-VLAN communication.

This configuration allows an H3C core switch to function as a Layer 3 routing device, handling both internal VLAN traffic and external network access efficiently.

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For example, if you configure the shiprt alias for display ip routing-table, you can enter shiprt to execute the display ip routing-table command. If you configure the ship alias for display ip, you can use ship

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Page 3 Preface The H3C S5800&S5820X documentation set includes 11 configuration guides, which describe the software features for the S5800&S5820X Series Ethernet Switches and guide you

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

While these commands give you a basic understanding of the command configurations for Huawei, H3C, Ruijie, and Cisco switches, it''s important to note that there''s a lot more to explore

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Link Aggregation, LAG, LACP and MLAG in 2026:

We offer: Access, distribution, core, and data center switches from: Cisco, Huawei, Ruijie, H3C, and NS Port mixes for: 1G/2.5G access 10G/25G uplinks 40G/100G

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

Veelgestelde vragen over Layer 3-routing op H3C-switches:

Dit maakt H3C-switches geschikt voor complexe core-, distributie- en datacenterimplementaties waar dynamische routing essentieel is. Vraag 4: Hoe configureer ik een statische route op mijn H3C Layer

H3C Switch Command Mastery: Streamlined Configuration

Screenshot of H3C switch command line interface with highlighted configuration commands Core Technical Breakdown: Effective H3C command mastery requires understanding three dimensions:

H3C S10500X Series Multiservice Core Switch

H3C S10500X series switch is designed for the core layer of data centers and next-generation campus networks as well as the distribution layer of MANs. It provides the following features: Advanced

02-Downlink Layer 3 Switch Configuration Examples

Analysis · Log in to the router management Web page through a browser and connect the console port to the switch. · Configure VLANs on Layer 2 and Layer 3 switches, and configure a DHCP server on

H3C S5800 SERIES SWITCH CONFIGURATION MANUAL

View and Download H3C S5800 Series configuration manual online. Layer 3 - IP Routing. S5800 Series switch pdf manual download. Also for: S5820x series.

H3C Router and Switch Configuration Lab | PDF | Network Switch

The document describes initial configuration tasks for a router and switch, including: 1) Resetting the devices to factory defaults and verifying default settings. 2) Checking software/hardware details like

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H3C S7500X Enterprise Core Switch Series

High-performance IPv4/IPv6 service capabilities H3C S7500X switch series comes with IPv4/IPv6 dual-stack platform that provides sophisticated IPv4/IPv6 solutions by supporting multiple tunnels,

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