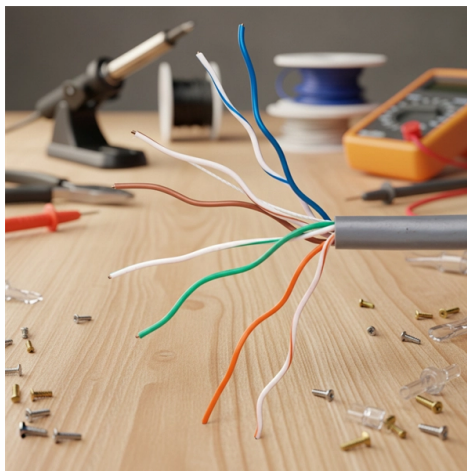


Core Switch H3C Routing Mode



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.

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.

Article Content

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H3C Devices CLI Reference

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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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

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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

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