H3C Router Connecting to Core Switch



Overview

The document describes initial configuration tasks for a router and switch, including: 1) Resetting the devices to factory defaults and verifying default settings.

Key Takeaways

H3C routers and core switches can be configured by setting management IPs, creating VLANs, configuring interfaces, enabling DHCP, and establishing routing for inter-department and internet connectivity. Step 1: Access and Management SetupConnect to the H3C device via console, SSH, or Telnet using a terminal emulation program. Configure a management VLAN (avoid using VLAN 1) and assign an IP address to the management interface.

For switches with a management Ethernet interface, use the M-GigabitEthernet 0/0/0 IP; otherwise, assign the IP to the VLAN interface.

Enable Telnet or SS

H access and create a local user with administrative privileges using the local-user and class manage commands. Step 2: VLAN and Interface ConfigurationCreate VLANs for different departments or network segments: CodeCopy vlan 10[Switch-vlan10] description DepartmentA[Switch-vlan10] quit Assign IP addresses to VLAN interfaces on the core switch to allow inter-VLAN communication: CodeCopy interface Vlan-interface 10[CoreSwitch-Vlan-interface10] ip address 192. 168.

10. 1 255. 255.

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255. 0[CoreSwitch-Vlan-interface10] quit Configure access ports on edge switches and trunk or hybrid ports on uplinks to the core switch, allowing the necessary VLANs to pass. Step 3: Link Aggregation and TrunkingAggregate multiple physical links between access and core switches for higher bandwidth and redundancy: CodeCopy interface Eth-Trunk 1[Switch-Eth-Trunk1] mode lacp[Switch-Eth-Trunk1] trunkport GigabitEthernet 1/0/1[Switch-Eth-Trunk1] trunkport GigabitEthernet 1/0/2 Set trunk ports to allow all required VLANs and configure the default VLAN if needed.

Step 4: DHCP Configuration on Core SwitchConfigure DHCP pools for each department: CodeCopy dhcp server ip-pool pool1[CoreSwitch-dhcp-pool1] network 192. 168. 10.

0 255. 255. 255.

0[CoreSwitch-dhcp-pool1] gateway-list 192. 168. 10.

1[CoreSwitch-dhcp-pool1] quit Repeat for additional VLANs or departments. Step 5: Routing ConfigurationConfigure a default route on the core switch pointing to the egress router for internet access: CodeCopy ip route-static 0. 0.

0. 0 0. 0.

0. 0 192. 168.

100. 1 Ensure VLAN interfaces for each department are properly routed to allow inter-department communication. Step 6: Optional FeaturesEnable STP to prevent loops and configure priorities if needed: CodeCopy stp enable stp priority 24576 Configure 802.

1X authentication for port security and add local access users for network management. Step 7: Save ConfigurationSave the configuration to ensure persistence after reboot: CodeCopy saveAre you sure to save the configuration? (y/n),: y By following these steps, you can establish a stable H3C network with proper VLAN segmentation, DHCP services, inter-VLAN routing, and secure management access, suitable for a small to medium-sized campus network.

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Article Content

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

How To Configure H3C Switch (UPDATED)

Whether you''re a network administrator or just starting out with networking, this video will provide you with the knowledge to confidently configure your H3C switch.

Dell core switch with H3C switch | DELL Technologies

Yes, Dell switches can interoperate with H3C switches. Just make sure both sides use 802.1Q VLAN tagging, configure trunk ports correctly, and align speed/duplex settings.

H3C S1600V2 Switch Series Web Configuration Guide

Switch B is connected to the authorized DHCP server through Ethernet port 1, to the unauthorized DHCP server through Ethernet port 3, and to the DHCP client through Ethernet port 2.

How to Master H3C Device Switch Commands: A

Ready to optimize your network management? Explore our comprehensive guide to H3C device switch commands. Upgrade your skills and

H3C S5800 SERIES SWITCH CONFIGURATION MANUAL

Configure static router BFD so that when the link over which Switch A communicates with Switch B through the Layer 2 switch fails, BFD can detect the failure immediately, and then Switch A and

Basic CLI Commands on H3C Switch

Learn how to create users, VLANs, enable Telnet and SSH, configure Spanning Tree Protocol, enable DHCP snooping, define trunk ports, and create access

Cat6 vs Cat8 in 2026: Right Ethernet Cable for Office

Introduction Ethernet cabling is still the backbone of most office and enterprise networks in 2026. Even with Wi-Fi 6/6E/7 and cloud everything, you

H3C S5580X-HI Series Switches

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In the campus network, H3C S5580X-HI series switches can be used as aggregation layer equipment, or as the core of small and medium-sized enterprises; downward can provide high-density GE

Cisco Command to Check SFP Module Details

They connect switches, routers, and servers through fiber-optic or copper links, ensuring reliable communication between infrastructure layers. For

H3C Switch Layer 3 Routing FAQ: Expert Answers To Technical ...

This makes H3C switches suitable for complex core, distribution, and data center deployments where dynamic routing is essential. Q4: How do I configure a static route on my H3C Layer 3 switch? To

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 S5830 Switch Series Configuration Examples

Do soft reset reset Reset operation screen-length Specify the lines displayed on one screen send Send information to other user terminal interface ssh2 Establish a secure shell client

H3C switch HTTP access configuration complete guide: from ...

Now, many H3C switches and routers come with a WEB graphical interface by default, which makes operation and management very convenient. But sometimes, the web interface of some

H3C Switch Command Mastery: Streamlined Configuration

In today''s fast-paced network environments, H3C switches form the backbone of enterprise connectivity. While many administrators rely on GUI configurations, mastering CLI commands remains crucial for

04-Chapter 4 Connecting Your Switch to the Network

Connecting your switch to the network through twisted pair cables The 10/100Base-TX and 1000Base-T ports of the H3C S7500E switches use RJ-45 connectors and support MDI/MDI-X auto-sensing.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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