

How to network H3C core switches



AI Overview

Networking H3C core switches involves configuring management access, VLANs, IP addresses, routing, and DHCP to ensure connectivity between access switches and the egress router.

Step 1: Connect and Access the Switch
Use a console cable to connect your PC to the switch's console port. Open a terminal emulation program (e.g., SecureCRT, PuTTY) with settings: 9600 baud rate, 8 data bits, 1 stop bit, no parity. Log in using the default credentials (commonly admin/admin) or your configured username/password.

Step 2: Configure Management Access
Enter system view: `system-view`
Assign a management VLAN (avoid VLAN 1) and configure its interface with an IP address:
`CodeCopyvlan 5`
`interface Vlan-interface 5`
`ip address 192.168.1.1 255.255.255.0`
Enable Telnet or SSH for remote management:
`CodeCopystelnet server enable`
`rsa local-key-pair create`
Create administrative users and assign access levels using the `local-user` and `class` commands.

Step 3: Configure VLANs and Interfaces
Create VLANs for different departments or network segments:
`CodeCopyvlan 10`
`vlan 20`
Assign VLAN interfaces with IP addresses for inter-VLAN routing:
`CodeCopyinterface Vlan-interface 10`
`ip address 10.0.10.1 255.255.255.0`
`interface Vlan-interface 20`
`ip address 10.0.20.1 255.255.255.0`
Connect access switches to the core switch using aggregate links for redundancy and higher bandwidth.

Step 4: Configure DHCP on the Core Switch
Enable DHCP server and create address pools for each VLAN:
`CodeCopydhcp enable`
`ip pool DeptA`
`network 10.0.10.0 mask 255.255.255.0 gateway-list 10.0.10.1`
`ip pool DeptB`
`network 10.0.20.0 mask 255.255.255.0 gateway-list 10.0.20.1`
Configure DHCP snooping on access switches to secure IP assignment.

Step 5: Configure Routing
Set up a default route to the egress router for Internet access:
`CodeCopyip route-static 0.0.0.0 0.0.0.0 192.168.1.254`
Ensure VLAN interfaces can communicate for inter-department traffic.

Step 6: Enable Spanning Tree Protocol (STP)
Prevent loops in the...

Article Content

H3C 24-Port Switch Buyer's Guide for SMB & Enterprise

The market for H3C 24-port switches in 2026 is defined by H3C's dominant position in the China campus switch market (38.2% share) and its aggressive global expansion into ASEAN and Central Asia

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

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In the realm of system networking, three key types of switches are frequently mentioned: access switches, aggregation switches, and core switches. The part of the network that directly

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H3C Switch Basic Configuration | VLAN | DHCP Server

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

H3C Devices CLI Reference

Perform basic operations including display, debug, file management, FTP, Telnet, clock setting, and reboot. Enter system view. The prompt for user view is <system name>, for example, <Sysname>.

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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.

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