How to configure the H3 core switch

Overview

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.

Key Takeaways

Configuring an H3C core switch involves setting up management access, VLANs, interfaces, routing, DHCP, and security features using CLI or web interface commands.

Initial Access and Management Setup

Log in to the switch using a console cable, SSH, or Telnet from a PC. Use a terminal emulation program to connect to the device. Configure a management VLAN (avoid using VLAN 1).

For example, create VLAN 5 and assign an IP address to the management interface: CodeCopysystem-viewvlan 5interface Vlan-interface 5ip address 192. 168. 1.

1 255. 255. 255.

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0 Enable Telnet or SSH for remote management and create a local user with administrative privileges: CodeCopylocal-user admin class managepassword simple YourPasswordservice-type telnet sshsave VLAN and Interface ConfigurationCreate VLANs for different departments or network segments: CodeCopyvlan 10vlan 20 Assign ports to VLANs and configure trunk or hybrid links for uplinks: CodeCopyinterface GigabitEthernet 1/0/1port link-type accessport default vlan 10interface GigabitEthernet 1/0/24port link-type trunkport trunk permit vlan 10 20 Configure link aggregation if connecting to access switches or routers: CodeCopybridge-aggregation 1interface GigabitEthernet 1/0/23port link-aggregation group 1 Routing and DHCPConfigure VLAN interfaces with IP addresses for inter-VLAN routing: 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 Set up a default route to the egress router: CodeCopyip route-static 0.

0. 0. 0 0.

0. 0. 0 192.

168. 100. 1 Enable DHCP server on the core switch for different VLANs: CodeCopydhcp enableip pool DeptAnetwork 192.

168. 10. 0 mask 255.

255. 255. 0gateway-list 192.

168. 10. 1ip pool DeptBnetwork 192.

168. 20. 0 mask 255.

255. 255. 0gateway-list 192.

168. 20. 1 Security FeaturesEnable DHCP snooping on access ports to prevent rogue DHCP servers: CodeCopydhcp snooping enableinterface GigabitEthernet 1/0/1dhcp snooping trust Configure IPSG (IP Source Guard) to verify source IP and MAC addresses: CodeCopyipv4 source-guard enableinterface GigabitEthernet 1/0/2ipv4 source-guard Enable STP to prevent loops and configure priorities if needed: CodeCopystp enablestp priority 4096 Saving ConfigurationAfter completing the configuration, save it to ensure persistence across reboots: CodeCopysave Additional TipsUse display vlan and display interface brief to verify VLAN and port assignments.

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Use display ip routing-table to check routing configuration. For advanced features like 802. 1X authentication, aggregation monitoring, or hybrid port configuration, refer to the H3C CLI reference.

By following these steps, you can configure an H3C core switch for a small to medium-sized campus network, ensuring proper management, VLAN segmentation, routing, DHCP services, and security enforcement.

Article Content

Configure the core switch

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