

How to configure the routing port on an H3C core switch

Article Overview

H3C core switch port routing involves configuring VLAN interfaces, assigning IP addresses, and setting up static or dynamic routes to enable inter-VLAN and external network communication.

Configuring VLAN Interfaces

To enable routing on an H3C core switch, you first need to create VLANs and assign IP addresses to their interfaces:

- o Enter system view:

```
system-view o Create VLANs:
```

```
vlan 10vlan 20 o Assign IP addresses to VLAN interfaces:
```

```
interface 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 VLAN interfaces act as Layer 3 gateways for devices in each VLAN, allowing inter-VLAN routing .

Configuring Physical Ports

Ports connecting to end devices or other switches must be assigned to the correct VLAN:

- o Enter interface view:

```
interface GigabitEthernet 1/0/1 o Set port mode:
```

```
port link-type accessport default vlan 10 o Enable the port:
```

```
undo shutdown
```

For trunk links between switches, use:

```
port link-type trunkport trunk permit vlan 10 20
```

This ensures VLAN traffic is properly carried across the network .

Setting Up Routing

Static Routing

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To allow the core switch to communicate with external networks or an egress router:

- o Configure a default route:

```
ip route-static 0.0.0.0 0.0.0.0 192.168.100.1
```

Here, 192.168.100.1 is the next-hop IP of the egress router . 2. Add specific static routes if needed:

```
ip route-static 192.168.30.0 255.255.255.0 192.168.20.2
```

Dynamic Routing

H3C switches support protocols like RIP, OSPF, and BGP:

- o Enable a routing protocol:

```
ripnetwork 192.168.0.0
```

- o Configure route redistribution or metrics as required for inter-protocol communication .

Verifying Configuration

- o Check VLAN interface status:

```
display interface Vlan-interface 10
```

- o View routing table:

```
display ip routing-table
```

- o Check port status:

```
display interface brief
```

These commands help ensure that VLANs, ports, and routes are correctly configured and operational .

Summary

H3C core switch port routing requires:

- o Creating VLANs and assigning IP addresses to VLAN interfaces.
- o Configuring physical ports as access or trunk ports.
- o Setting up static or dynamic routes for inter-VLAN and external network communication.
- o Verifying configuration using display commands. This setup allows the core switch to efficiently route traffic between VLANs and connect to upstream routers, forming the backbone of a campus or enterprise network .

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For more information about the console cable, see H3C CR16000-M Routers Hardware Information and Specifications. Prepare the

As shown in Figure 3, a port in VLAN 1 on a switch is connected to a LAN comprising two segments: 172.16.1.0/24 and

Link Aggregation Configuration Create an aggregation port Add Ethernet ports to

[Example 2] Use the undo port trunk permit VLAN command to delete the trunk port Ethernet2/0/1 from VLAN 1. 3.

Hello Friends, In this video I will show you H3C Switch Configuration. In this video tutorial

01-Fundamentals Configuration Guide Home Support Configure & Deploy Configuration Guides H3C S6800 & S6860 Switch Series

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

It describes how to log in to the H3C open application platform (OAP) card connected to your switch and reset the operating system

Navigation pane--Provides the Web menu for device functions in a tree structure. You can easily select function menus in the

Analysis · Log in to the router management Web page through a browser and connect the console port to the switch. · Configure

Static route configuration examples Example: Configuring basic static routes Network configuration As shown in Figure 2, configure

This article provides a hands-on guide to 50+ essential H3C switch commands, revealing hidden shortcuts and best practices

However, the port (UDP) is set to 1645 on an H3C device that functions as the RADIUS authentication server. You must

The authentication port (UDP) used by RADIUS servers is 1812 according to standard RADIUS protocols.

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However, the

In today's fast-paced network environments, H3C switches form the backbone of enterprise connectivity. While many administrators

Chapter 1 Command Line Interface When configuring command line interface, go to these sections for information you are interested

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