Configuring Huawei Core Switches for External Network

Overview

Configuring the Core Switch In this scenario, IP addresses of the interfaces connecting the core switch to the BRASs and firewalls and OSPF need to be conf.

Key Takeaways

Huawei core switches can be configured for external network access by setting up VLANs, assigning IP addresses, creating VPN instances, and configuring routing protocols like OSPF. Step 1: Access the SwitchConnect to the Huawei core switch via SSH or console port. Log in using your administrator credentials.

Enter system-view to access configuration mode, which allows you to modify interfaces, VLANs, and routing settings. Step 2: Configure VLANs and InterfacesCreate interconnection VLANs for links to firewalls and egress routers: CodeCopyvlan batch 10 20 Assign interfaces to VLANs depending on whether they are access, trunk, or hybrid ports: CodeCopyinterface GigabitEthernet0/0/1port link-type accessport default vlan 10 For trunk ports connecting to other switches or routers: CodeCopyinterface GigabitEthernet0/0/2port link-type trunkport trunk allow-pass vlan 10 20 Create VLANIF interfaces and bind them to a VPN instance for route isolation: CodeCopyvlanif 10ip address 192.

168. 1. 1 255.

255. 255. 0ip vpn-instance vpn1 This ensures separation of public network routes from internal or firewall return routes.

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Step 3: Assign IP AddressesAssign IP addresses to VLANIF interfaces for external connectivity. Ensure the gateway IP matches the egress router or firewall interface: CodeCopyinterface Vlanif 10ip address 1. 1.

1. 2 255. 255.

255. 252 Verify the configuration using: CodeCopydisplay ip interface briefping 1. 1.

1. 1 This confirms connectivity to the external network. Step 4: Configure RoutingOSPF configuration is recommended for dynamic routing with external networks: CodeCopyospf 1area 0.

0. 0. 0network 192.

168. 1. 0 0.

0. 0. 255 Ensure routes to the egress router and firewall are properly advertised and isolated within the VPN instance.

Step 5: Management and SecurityConfigure management access via Telnet or SSH with strong credentials: CodeCopylocal-user admin password irreversible-cipher Helloworld@6789local-user admin privilege level 15local-user admin service-type ssh Save the configuration to make it permanent: CodeCopysave Regularly verify interface status and routing tables using: CodeCopydisplay interfacedisplay ospf peerdisplay ip routing-table Step 6: VerificationTest connectivity to external networks and firewalls using ping and traceroute.

Confirm VLAN and VP

N instance isolation to prevent route leakage.

Ensure OSP

F neighbors are established and routes are correctly propagated. By following these steps, your Huawei core switch will be properly configured for external network access, with secure VLAN segmentation, IP addressing, VPN isolation, and dynamic routing for reliable connectivity.

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Article Content

Configuring the Core Switch

In this scenario, IP addresses of the interfaces connecting the core switch to the BRASs and firewalls and OSPF need to be configured on the core switch, so as to implement connectivity

SME Network Solution Typical Configuration Examples

"Gateway + Core Switch + Aggregation Switch + Access Switch + WAC + AP + AR180" Networking: Local Entire Network Deployment (EasyWeb) "Third-Party Gateway + Core Switch + Access Switch

Huawei S Series Quick Configuration

Small-Sized Campus Networks This section uses the S2750 as an access switch (ACC1), S5700 as a core switch (CORE), and an AR series router as an egress router (Router) as examples to

Huawei Switch Configuration | Complete Setup Guide

In this video, we''ll guide you through the process of configuring a Huawei Switch for your network. Whether you''re setting up a new switch or optimizing your existing network...

01-10 CONFIGURATION EXAMPLES

The following uses the switch CORE as an example to describe how to log in to a switch through the web system for the first time. The login methods of switches ACC1 and ACC2 are similar to that of

How to Configure Huawei Switches: Are You Missing These Critical

Configuring a Huawei switch isn''t just about plugging in cables and ticking boxes—it''s about building a network that''s resilient, efficient, and ready to grow.

01-02 CAMPUS NETWORKS TYPICAL CONFIGURATION

In this example, core switches set up a CSS that functions as the gateway for wired and wireless users on the entire network and is responsible for routing and forwarding of user services.

Dell+Huawei Core switch Connectivity | DELL

I do have a walkthrough that may help you in configuring, but some of the commands may be different as it was written for Dell to Cisco. You can find

Master Huawei Switch Commands? Can Your CLI Skills Define

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The real question for anyone serious about their network''s performance, reliability, and security isn''t if they need these commands, but how deeply they understand and utilize the nuances

25 Best Open Source & Free Network Monitoring Tools (Guide)

As network engineers and administrators, we mostly focus on managing and configuring hardware devices such as routers, switches, firewalls, load balancers etc. We rarely deal with software

WLAN AC AirEngine X700 V600R024C10 CLI-based Configuration

When the master device is working properly, hosts on the network communicate with external networks through the master device. If the master device fails, the backup device becomes the new master

Configuring External Networks

Configuring External Networks Context In the campus network virtualization solution, to enable the communication between the fabric network and external networks, you need to configure the

Example for Configuring a Layer 3 Switch to Work with a Firewall for ...

Configuration Roadmap The configuration roadmap is as follows: Configure the switch as the gateway of users to allow users to communicate across network segments through VLANIF interfaces. Configure

Example for Configuring a Small-Sized Campus Network

Networking Requirements In an enterprise, intranet users in departments A and B can communicate with each other and access the Internet. As shown in Figure 10-171, on a small-sized campus network,

MikroTik · Routers and Wireless

MikroTik makes networking hardware and software, which is used in nearly all countries of the world. Our mission is to make existing Internet technologies

Configuring Devices to Be Managed by the Controller (in the Hybrid ...

Context On a large or midsize campus network, switches running V600 (such as the S8700) can function as core switches and be deployed together with switches running V200 (such as

Configuring the Core Switch to Be Managed by the Controller

Context After devices to be managed are added to the campus network site, iMaster NCE-Campus needs to establish a management channel with the devices, so that it can manage the

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S Series Campus Switches Quick Configuration (V200)

This document describes how to log in Huawei S series switches for the first time and fast configure the switches, and describes the procedures of configuring unconfigured switches in three

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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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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