Core switch cannot be configured

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

Core switches must be configured with interfaces, VLANs, routing protocols, and redundancy mechanisms to ensure proper network connectivity and stability.

Interface and VLAN Configuration

Core switches require proper interface configuration to connect to BRAS devices, firewalls, and downstream switches. Each interface should have an IP address assigned and be added to the appropriate VLANs. For example, create interconnection VLANs and bind VLANIF interfaces to VPN instances to isolate traffic between public and private networks.

Ensure that each VLAN has a gateway IP address for routing traffic between VLANs.

Routing Protocols

Routing protocols such as OSPF should be configured on the core switch to enable dynamic routing between the user network and egress points. Specify the correct network statements and ensure that routes from firewalls and other devices are properly propagated through the core switch.

© 2026 BAGYOU FIBRE NETWORKS · All rights reserved

If OSP

F is not an option, static routes and VLAN gateways can be used to maintain connectivity.

Redundancy and Load Balancing

For high availability, core switches often use MLAG (Multi-Chassis Link Aggregation) to provide redundancy and load balancing. Each core switch should have a unique bridge MAC address, and STP (MSTP, RSTP, or standard STP) must be enabled to prevent loops. Ensure that STP priorities and configurations are consistent across both switches to avoid root bridge conflicts.

Verify that peer ports are operational and ICCP is established for proper primary device election in MLAG setups.

Troubleshooting Tips

Check for error-disabled ports using show interfaces status err-disabled to identify STP or BPDU Guard issues. Verify trunk port configurations and ensure SFPs and cabling are functioning correctly. Rebooting switches can resolve temporary configuration or VLAN issues in some cases.

For Cisco Nexus switches, core files can be collected and copied to remote hosts for diagnostics if kernel crashes occur.

Best Practices

Document all VLANs, IP addresses, and routing configurations. Use consistent naming conventions for VLANs and interfaces. Test connectivity between core switches and downstream devices before deploying to production.

Regularly back up switch configurations and core files for recovery and troubleshooting purposes. By following these steps, core switches can be properly configured to provide reliable connectivity, redundancy, and efficient traffic management across the network.

© 2026 BAGYOU FIBRE NETWORKS - All rights reserved

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

I totally fucked up our network core switch and everything is ...

We have a pair of Dell N3224P-ON switches and today''s morning my colleague gave me a task and instructions to remove some unused VLANs. I''m sure I removed the correct VLANs. When I saved

Core Switch and Access Switch Crisis

We have a Huawei Core switch and a Dlink plug and play switch before the new Huawei Access switch was deployed. I discovered that everyone on the Core Switch and Dlink Switch is all

Core to access switch ping working and access to core is not pinging

Look for me Access switch do not aware the IP coming from Core switch to reach back. so make sure Access switch aware routing setup correctly using ip route command.

Solved: Core Switch

The diagram only shows one connection from the edge switch to the core switch, so when one switch goes down you are always going to isolate at least one switch.

Internet not reaching Core/Access Switch

Corrected but still no internet access on Core Switch. You can use the “show ip nat” commands on the router to find out what is and is not working. do these tests on the router. After the

Two-Tier Core

Configure Two-Tier core switches as a VSX pair for Layer 2 aggregation of the data center access switches, IP data center services, and routing to the main campus.

A device can be pinged from core switch (router) but not the switch it ...

© 2026 BAGYOU FIBRE NETWORKS - All rights reserved

In a nut shell, why can I ping a device at a school on the core switch but not on the switch the device is plugged into or anywhere else in our school district?

Introduction to Core Switch Configuration

In case of problems in a certain switch between core switch and dual aggregation switch, three-layer routing equipment and virtual gateway can be quickly switched to realize redundant backup of dual

Install on Windows

To ensure that you can run all apps on Windows, install both the ASP Core Runtime and the Desktop Runtime. The ASP Core

Configuring the Core Switch

Configuring the Core Switch Context 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

SME Network Solution Typical Configuration Examples

"Gateway + Core Switch + Access Switch + AP + AR180" Networking: Huawei eKit Cloud Management "Gateway + Core Switch + Access Switch + WAC + AP" Networking: Local Entire Network

Introduction to Core Switch Configuration

A switch that functions as part of a router and operates at the third layer of the OSI network standard model, the network layer. The most important purpose of the layer 3 switch is to speed up the data

Internet not reaching Core/Access Switch

Router has internet but Core Switch not picking, what i''m i missing? Router and Switch can ping each other Router Configs Router#sh run Building configuration Current configuration :

How to configure a port on our core switch for a server

I am looking for some guidance on how to configure a server port on our core switch. For some options, I was thinking this: Option A no switchport no ip address Option B switchport

Cannot ping core switch from another switch

I have set up a core stack of 3750 switches (3750e, 3750g, and 3750v1 w/PoE) that seems to be running solid. I connected 2 gigabit trunks from the core to a Front of House switch

© 2026 BAGYOU FIBRE NETWORKS - All rights reserved

where would a logical vlan be configured on the Core switch, or

Configuring local Vlans I have learned to configure the vlan interfaces on the core switch- and then configure the access switch with the desired vlan and assign the switch port to that vlan! If I

Related Video Reference

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

Contact Us

Continue your research online:

Website: https://bagyou.es
Technical inquiry: https://bagyou.es/project-enquiry.html

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

© 2026 BAGYOU FIBRE NETWORKS - All rights reserved