After configuring the core switch



Overview

Core files are not automatically deleted after copying. After a core is copied, delete it from the switch core repository to reclaim the space and report it to Cisco support for analysis.

Key Takeaways

After configuring a core switch, ensure connectivity, routing, redundancy, monitoring, and integration with other network devices are properly implemented.

Verify Connectivity and Interfaces

After initial configuration, check that all interfaces connecting to BRASs, firewalls, and aggregation switches are active and correctly assigned to VLANs. Create interconnection VLANs and bind them to VPN instances if needed to isolate traffic between public and private networks. Use commands like show interfaces or ping to confirm connectivity across the network segments.

Configure Routing Protocols

Ensure that OSPF or other routing protocols are properly configured to allow traffic to flow between the user network and egress points. Activate OSPFv2 or OSPFv3 according to your environment requirements, and verify route propagation using show ip route or equivalent commands.

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Implement Redundancy and High Availability

If using VSX or LAG configurations, synchronize settings between primary and secondary core switches to maintain redundancy. Ensure equal member links in each segment for load balancing and avoid mismatched configurations that could cause traffic imbalance.

Core File Management and Monitoring

Enable core file collection to capture crash data for troubleshooting. Configure automatic copying to remote destinations using protocols like SCP, SFTP, or TFTP, and ensure passwordless SSH is set up for automation. Regularly delete old core files to reclaim storage space and report critical issues to vendor support if necessary.

Security and Access Control

Verify that access control lists (ACLs), firewall rules, and VPN instances are correctly applied to protect the network. Ensure that only authorized users can access the core switch and that management interfaces are secured.

Performance Monitoring and Maintenance

Monitor switch performance, CPU, memory, and port utilization to detect potential bottlenecks.

Use SNM

P or network management tools to track traffic patterns and plan for scalability. Regularly update firmware and review configuration backups to maintain network stability. Integration with Other Network DevicesFinally, ensure the core switch is properly integrated with aggregation and access switches, distributing IP addresses and routing traffic efficiently.

Confirm that all downstream devices are synchronized and that the network topology supports high throughput and low latency. By following these steps, you can ensure that your core switch operates reliably, securely, and efficiently within your network infrastructure.

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Article Content

Cisco Nexus 7000 Series NX-OS System Management Configuration

Core files are not automatically deleted after copying. After a core is copied, delete it from the switch core repository to reclaim the space and report it to Cisco support for analysis.

Configuring the Core Switch to Be Managed by the Controller

To manage a core switch on iMaster NCE-Campus using commands, you must connect the core switch to iMaster NCE-Campus first and then enable the NETCONF function.

Configuring the Core Switch

When configuring interfaces and routes, you need to specify a VPN instance to isolate public network routes from the return routes from the firewalls destined for the egress routers through

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

serenalindquist99/server-core-switch-lab

This lab simulates a real-world enterprise network upgrade involving the replacement and configuration of core switches, port migration, ACL deployment, and rollback planning.

What Is a Core Switch in Networking?

Unlike access switches, which connect directly to end-user devices, the core switch focuses on aggregating and routing traffic between other switches, minimizing latency and

First Time Configuration

Complete them in order for best results. Tip: Save Your Progress After each major section, backup your configuration: CLI Method: ... WinBox Method: Files menu → Backup Name it

Core Switch Configuration Guide | PDF | Ip Address

This document outlines the configuration steps for a core switch in a server room, including connecting via serial cable, assigning hostnames, creating user accounts with specific password requirements,

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8 Steps to configure your network switch

Learn how to setup a network switch with ease. Switches allow you to send and receive information efficiently and securely. Get setup today!

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

Core Configuration of a Router and a Switch in Cisco Packet Tracer ...

Berg IT Training - In this CCST and CCNA introductory-level video, I perform a line-by-line core configuration of a Cisco router and a Cisco switch using the command line interface (CLI) in Cisco ...

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

Configuring the Core Switch to Be Managed by the Controller

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

Solved: Replacing Core Switch

Hi I am migrating our core switches next weekend and was looking for some advice on the actual move itself. I am moving our current Cisco core stack to a new core stack. I am keeping the

Guide to Basic Switch Configuration | Auvik

Switch configuration on your own can seem like a daunting task. Use this handy guide to get your network switch up and running with ease.

First Time Configuration

Step 4: Understanding Default Configuration When you first connect, you may see a popup about default configuration: For beginners: Keep the default configuration - it provides basic

Configuring Cores

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Configuring the Core Switch to Be Managed by the Controller (Switch ...

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

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Continue your research online:

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EU project coordination: Parque das Nações, Lisbon, Portugal

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

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