

Core Switch Configuration Replacement



AI Overview

Replacing a core switch requires careful planning, pre-configuration, and staged migration to minimize downtime and avoid IP conflicts.

Pre-Replacement Planning

- Document Existing Network:** Record all current switch models, software versions, VLANs, ACLs, PoE usage, uplinks, and routing configurations.
- Identify Critical Connections:** Determine which devices and edge switches are most critical to network operations.
- Plan Maintenance Window:** Schedule the replacement during low-traffic periods or a weekend to reduce impact.
- Prepare Rollback Plan:** Keep old cables and configurations ready in case the migration fails.
- Pre-Configuration of the New Switch**
- Lab Setup:** Configure the new switch in a lab or isolated environment with VLANs, QoS policies, ACLs, and stacking configurations.
- Routing and SVIs:** Pre-configure Layer 3 interfaces, SVIs, and routing protocols (OSPF, HSRP, etc.) but keep them in shutdown mode to prevent IP conflicts.
- Interconnects:** Set up trunk links and interconnection VLANs for firewalls, routers, and BRASs if applicable.
- Verification:** Test connectivity from the new switch to ensure configurations are correct before connecting to the live network.

Migration Process

- Disconnect Old Switch:** During the maintenance window, power down the old core switch.
- Physical Cable Migration:** Move connections to the new switch, either all at once or VLAN by VLAN to reduce risk.
- Activate Interfaces:** Bring up SVIs and routing interfaces on the new switch sequentially to avoid IP conflicts.
- Monitor Traffic:** Verify that all critical services (voice, Wi-Fi, servers) are operational and that routing adjacencies are established.

Post-Replacement Verification

- Check VLANs and PoE:** Ensure all VLANs are functioning and powered devices receive adequate PoE.
- Routing and Connectivity:** Confirm that routing protocols are stable and that the network can reach upstream devices and the internet.
- Monitoring:** Use network monitoring tools or Cisco DNA Assurance to track performance and troubleshoot any issues.
- Optional Strategies to Minimize Do...**

Article Content

VMware Cloud Foundation (VCF) Blog – Home Page

VMware Cloud Foundation (VCF) - The simplest path to hybrid cloud that delivers consistent, secure and agile cloud infrastructure. Read more.

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

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Replacing one core switch with two new core switches

I will have to replace our old core Cisco switch C4506-E with two new core switches C9500 that will be located in two different server rooms. Currently there is one server room and our

Advice on core switch setup : r/sysadmin

For smaller deployments, the goto Cisco configuration is a pair of 4500-X switches in a VSS configuration with 2960-X switches for access layer. The VSS allows two switches to be managed as

ITPro Today, Network Computing, IoT World Today combine

ITPro Today, Network Computing and IoT World Today have combined with TechTarget . The page you are looking for may no longer exist.

What is your strategy when physically swapping switch hardware ?

We use stackable switches, and we leave a 1U gap between each switch, which also helps keep the switches running cooler. If one dies, we put the new switch above/below the old switch, boot it up,

Core Switch Explained: Key Functions and Benefits

Discover what a Core Switch is, its pivotal role in network architecture, and how it boosts performance and reliability in your data infrastructure.

Moving Core of the network to a new Switch

Here is my situation: Large School District with construction nearing completion of a new building where the core of our network will be moved. Right now we have a 4510R that is doing ospf

Core switch replacement

I'm replacing core Cisco switch 4506-E with switch 4507R-E. As I have one supervisor card on 4506-E and I'm going to take out all the card that I have in 4506-E and install it in the new

Migrating Cisco core switch to a new one

If you want to stop using vlan 1, you would wait until you have migrated to the new switch, then it would be a very quick change to modify all vlan 1 access ports to a different vlan, and quickly

Solved: Migrating to new core switches | Experts Exchange

Find answers to Migrating to new core switches from the expert community at Experts Exchange

Best way to replace a core switch with minimal down time

As this is a replacement upgrade, both switches which are core switches will have the same IP addresses configured on them. So far I have two

Upgrade core switch without disrupting network

I am planning to upgrade the current core switch(3750) to 6509 series switch. Since we have a production network running we have to plan for an online core switch upgrade. Could you

Process of Nexus 5k Switch Replacement in VPC

To configure vPC in Nexus 5K, first enable the vPC feature, then configure the vPC domain, assign peer switches, and set up port channels. Finally, ensure proper VLAN and spanning

What is Core Switch and How to Choose

Discover what a core switch is and learn how to choose the right one for your network. Explore key features in selecting a core layer switch. Make

Understanding the Core Switch: Key Differences and Uses

Explore the core switch's role as the backbone of your network. Discover key differences, uses, and insights into layer 3 core switch technology.

Core switch replacement

1) Bring up the new core switch stack or chassis next to or above the current one. 2) Bring the bulk of basic configurations over and map interfaces

How to plan for a campus core switch refresh: Basic requirements

Big campus core switch refreshes typically occur every 5 to 10 years, or longer, depending on the switch. When evaluating switches, factor in future requirements.

What is your strategy when physically swapping switch hardware ?

As the title suggests. I am just about to upgrade a bunch of switches at my company. The interfaces are fully configured in a like for like configuration. For when it comes to physically swapping things,

Replacing core switch question? : r/meraki

Replacing core switch question? We are replacing our existing catalyst 4510R switch with 6 meraki ms250-48p switches. Currently we have a blade for each floor of our building and then 2 blades for

Core Switch Change

Hi all. We will be swapping our existing core switch for a new one and I want to get some verification that the procedure I have in mind is a good one to take. We currently have the following

Migrating Cisco core switch to a new one

Hi All, Forgive me, total newb at Cisco here We have an existing core switch with multiple VLANs, we are trying to move each of the VLANs to a new core stack one at a time. Here is the

Core Switch swap-out

2 -Build up new core switch (same configuration from all old, including SVI's, trunks, port-channels, mgt etc.) but have all SVIs disabled on new core 3 -Create a layer 2 trunk interconnection

IT news, guides and background information

News and forums on computers, IT, science, media and politics. Price comparison of hardware and software as well as downloads at Heise Medien.

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.

Solved: Core switch migration strategy

We have a new WS-C4507R+E to replace our WS-C4507R-E Core switch which is end of life. Both switches are on line and trunked together and support internal traffic. Both switches are

Core switch replacement

Good day all, I am in the process of replacing my VM host machines with a new configuration. Most likely it will end up being a 3 server one storage array configuration. My current

Solved: Migrating to new core switches | Experts Exchange

Dear follow the following steps for the sucessful replacement of the new core switch
1) Document the current network layout 2) Label all the connections (GBIC modules in old core switch)

Contact Us

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