How to change the core switch configuration



Overview

8 Steps to configure your network switch Follow these simple best practices to set up a new network switch. Still fuzzy?

Just like riding a bicycle, nobody.

Key Takeaways

Configuring a core switch involves initial setup, VLAN creation, management access, security settings, and optional advanced features like NetFlow. Step 1: Physical Setup and Console AccessVerify the switch hardware and cables for damage and power it on, ensuring all indicator lights function correctly. Connect to the switch using a console cable and terminal software like PuTTY, selecting a 9600 baud serial connection.

Step 2: Enter Privileged EXEC and Global Configuration ModeAt the prompt, type enable to enter Privileged EXEC mode (Switch#). Enter Global Configuration mode with configure terminal to start configuring system-wide settings. Step 3: Set Hostname and Domain NameAssign a hostname to identify the switch in the network: hostname CoreSwitch1.

Configure a domain name if needed for SSH: ip domain-name example.com. Step 4: Configure Passwords and Access ControlSet a strong enable password: enable secret YourStrongPassword. Configure console and VTY (Telnet/SSH) line passwords: CodeCopyline console 0password YourConsolePasswordloginexitline vty 0 4password YourVTYPasswordlogintransport input sshexit Optionally, configure local AAA authentication for centralized access control.

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Step 5: Assign Management IP AddressAssign an IP address to the management VLAN (usually VLAN 1 or a dedicated management VLAN): CodeCopyinterface vlan 1ip address 192. 168. 1.

10 255. 255. 255.

0no shutdownexit Set a default gateway for remote management: ip default-gateway 192. 168. 1.

1. Step 6: Configure VLANs and Port AssignmentsCreate VLANs as needed: vlan 10 and vlan 20, then name them appropriately. Assign interfaces to VLANs: CodeCopyinterface gigabitEthernet0/1switchport mode accessswitchport access vlan 10exitinterface gigabitEthernet0/24switchport mode trunkswitchport trunk allowed vlan 10,20exit Verify VLANs with show vlan brief.

Step 7: Disable Unused PortsShut down unused interfaces to enhance security: CodeCopyinterface range gigabitEthernet0/2-23shutdownexit Step 8: Enable Optional FeaturesConfigure NetFlow or other monitoring tools for traffic analysis. Enable Spanning Tree Protocol (STP) to prevent loops if multiple switches are connected. Configure port security and access control lists (ACLs) as needed.

Step 9: Save ConfigurationSave the running configuration to startup configuration to ensure persistence after reboot: CodeCopywrite memory orCodeCopycopy running-config startup-config Step 10: VerificationUse commands like show running-config, show vlan brief, show ip interface brief, and ping to verify connectivity and correct configuration. Following these steps ensures that your core switch is secure, manageable, and ready for integration into your network infrastructure.

Article Content

8 Steps to configure your network switch

Follow these simple best practices to set up a new network switch. Still fuzzy? Just like riding a bicycle, nobody''s born knowing how to setup a network switch. And this process is a little more advanced

Best way to replace a core swicth 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 options that come to mind and would like

How to Configure a Cisco Switch (step by step)

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

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How to Configure a Cisco Switch in 10 Steps

Configuring a Cisco switch properly means your network can make connections efficiently. In this step-by-step guide, we walk you through configuring Cisco switches and look at some FAQs.

Creating a Base Configuration for a Cisco IOS Switch: A Step-by-Step

When you deploy a new switch, it''s important to configure it properly to ensure optimal performance, security, and functionality. This guide will walk you through the essential steps for setting up a base

Basic Switch Configuration in Cisco

The switch is a network device that is used to segment the networks into different subnetworks called subnets or LAN segments. It is responsible for filtering and forwarding the

Basic Cisco Switch Configuration Example in 10 Steps

Unlike other lower class switch vendors (which are plug-and-play), the Cisco switch needs some initial basic configuration in order to enable management, security and some other important features.

SME Network Solution Typical Configuration Examples

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

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How to Fix a 500 Internal Server Error

Step 5: Switch to a Default Theme Activate a default theme (e.g., “Twenty Twenty”). If admin is inaccessible, rename your active theme''s folder. Step 6: Re-upload Core WordPress Files

Basic editing

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Basic editing Visual Studio Code is an editor first and foremost, and includes the features you need for highly productive source code editing. This topic takes you through the basics of the editor and helps

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