

What configuration is needed for the access switch

Article Overview

An access switch requires basic setup including hostname, management IP, VLANs, port configurations, security settings, and optional advanced features like SSH and NetFlow.

Basic Setup

- o **Hostname and Domain Name:** Assign a unique hostname to identify the switch in the network and configure a domain name if needed for SSH access (Cisco switches) to ensure secure management connections .
- o **Management VLAN and IP Address:** Create a management VLAN (commonly VLAN 1 or a dedicated VLAN like VLAN 99) and assign an IP address and subnet mask to enable remote management via Telnet or SSH .
- o **Default Gateway:** Configure the default gateway to allow the switch to communicate with devices outside its local subnet .

Port and VLAN Configuration

- o **Access Ports:** Assign switch ports to specific VLANs to segment network traffic. Use commands like `switchport mode access` and `switchport access vlan` for each port .
- o **Trunk Ports:** For uplinks to other switches, configure trunk ports using `switchport mode trunk` and, if necessary, specify encapsulation with `switchport trunk encapsulation dot1q` .
- o **Port Security:** Enable MAC address filtering and limit the number of devices per port to prevent unauthorized access .

Security and Access Control

- o **Passwords:** Set enable passwords, console passwords, and VTY line passwords. Activate password encryption to protect credentials .
- o **SSH Access:** Generate RSA keys and enable SSH for secure remote management. Verify SSH functionality with `show ip ssh` .
- o **Disable Unused Ports:** Shut down unused interfaces to reduce attack surfaces .

Advanced Configurations (Optional)

- o **Spanning Tree Protocol (STP):** Configure STP to prevent loops in the network.
- o **NetFlow or Monitoring:** Enable NetFlow or similar monitoring tools to track traffic patterns and performance .
- o **Energy Efficiency:** Enable Energy Efficient Ethernet (EEE) if supported to reduce power consumption .

Saving Configuration

After completing all configurations, save the running configuration to the startup configuration to ensure

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changes persist after a reboot using write memory or copy running-config startup-config . By following these steps, an access switch can be properly configured to provide secure, efficient, and scalable connectivity for end-user devices in a network environment.

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

Basic setup can be straightforward, but verify the switch role, uplink, port speed and mode, VLANs, loops, PoE,

Cisco NX-OS supports only IEEE 802.1Q-type VLAN trunk encapsulation. This chapter describes the configuration of

This tutorial explains basic switch configuration commands in detail with examples.

In this post, I'm going to show you how to configure a Cisco switch step-by-step. SSH access with local AAA

Basic Configuration of a Cisco router or Switch Basic configuration of a Cisco switch can be done in three ways, using

HI TEAM, I have a 2 3850 core switch which is on HA and 2960x for my access switch, i required help on 2 things. 1)

Connect the switch ports. Perform power on. Provision your upstream switch. Connect at least one Ethernet cable from the uplink

Basic Switch Configuration Guide with Examples A Cisco switch is different from a regular plug-and-play switch. It

Setting Up Access Switch: Below is our generic take on switch access setup guide no matter which brand you are

Here's the Cisco CLI Switch Command cheat sheet you need for configuring and managing Cisco switches The Cisco

While configuring network switches (layer 2 devices) two types of modes are available to manage VLANs - "switchport

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Learn how to configure a network switch for optimal performance and security. Follow these step-by-step instructions

The compact switch requires a configuration process similar to other access layer switches. The main difference is that its upstream

Whether the configuration deployment of a switch is completed all at once or done in phases, the basic switch settings must first be

This will provide internet access to every computer that is connected to your LAN. You can

Web: <https://www.in-au.co.za>

