

## Configuration required for access switch



### AI 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**

- 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.
- 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.
- Default Gateway:** Configure the default gateway to allow the switch to communicate with devices outside its local subnet.
- Port and VLAN Configuration**
- 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.
- Trunk Ports:** For uplinks to other switches, configure trunk ports using `switchport mode trunk` and, if necessary, specify encapsulation with `switchport trunk encapsulation dot1q`.
- Port Security:** Enable MAC address filtering and limit the number of devices per port to prevent unauthorized access.
- Security and Access Control**
- Passwords:** Set enable passwords, console passwords, and VTY line passwords. Activate password encryption to protect credentials.
- SSH Access:** Generate RSA keys and enable SSH for secure remote management. Verify SSH functionality with `show ip ssh`.
- Disable Unused Ports:** Shut down unused interfaces to reduce attack surfaces.
- Advanced Configurations (Optional)**
- Spanning Tree Protocol (STP):** Configure STP to prevent loops in the network.
- NetFlow or Monitoring:** Enable NetFlow or similar monitoring tools to track traffic patterns and performance.
- 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 changes persist after a...

## Article Content

### Cisco Switch Basic Configuration

While the basic configuration covered above is sufficient for a simple network setup, most real-world scenarios require additional configurations to ensure optimal performance, security, and ...

### Switch Access Setup Guide | General Practice and Common Mistakes

Finally, document the configuration for future reference and troubleshooting. Following these best practices will help ensure a stable and secure access switch setup. Conclusion: This

### Initial Switch Configuration

Whether the configuration deployment of a switch is completed all at once or done in phases, the basic switch settings must first be configured. The initial management configuration includes setting IP

### Configure Microsoft Entra hybrid join

Managed domain scenarios don't require configuring a federation server. Configure Microsoft Entra hybrid join by using Microsoft Entra Connect for a managed domain: Open Microsoft

### Configuring the MS Access Switch for Standard VoIP Deployments

For these deployments the MS Access Switch should be configured with Voice VLANs and QoS (Quality of Service) to separate voice traffic into its own broadcast domain and tag it for optimal transfer and

### 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. In

### 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

Learn how to set up a base configuration for network switches. Secure, optimize, and enable remote access with our step-by-step guide.

### 8 Steps to configure your network switch

All that's left is to test your access, reload the switch, and ready the cables. Once that's done, label your switch, rack it up, and go enjoy doing anything that doesn't involve switch configuration!

## Accessing the Switch

1 Overview You can access and manage the switch using the GUI (Graphical User Interface, also called web interface in this text) or using the CLI (Command Line Interface). There are equivalent functions

## What is Access Port in Switch?

Learn exactly what the Access port is, which we often hear about in switch network devices. Discover how to set up these ports in your LAN!

## How to Configure Cisco Switches: A Step-by-step Guide

However, Cisco switches do require an initial setup, ongoing monitoring, and maintenance. How to configure a Cisco switch? In this step-by-step guide, we'll configure a Cisco

## Configure Security Defaults for Microsoft Entra ID

To configure security defaults in your directory, you must be assigned at least the Conditional Access Administrator role. By default, the user who creates a Microsoft Entra tenant is

## Understanding Access Switches: Key Components of Your Network Switch ...

Explore the role of access switches in your LAN setup. Understand their key components, functions in the access layer, and how they integrate into your network.

## How to Configure a Cisco Switch (step by step)

If you're looking to configure a switch for the first time, this post is for you. Learn step-by-step configuration commands for Cisco IOS Switches.

## Configuring VLANs on Cisco Switches

Master configuring VLANs on Cisco switches. Learn to configure Access and Trunk ports, and Native VLANs and Allowed VLAN Lists. Learn to verify with show commands.

## Configuring Access Control Lists

For each VLAN access map that you configure, you can specify whether the switch maintains statistics for that VACL. This allows you to turn VACL statistics on or off as needed to monitor traffic filtered by

## Configuring the Switch Using the Web User Interface

Configuring the Switch Using the Web User Interface Note Any figures included in the document are shown for illustrative purposes only.

## How to Configure a Network Switch | ServerMania

Configuring a network switch requires a solid understanding of switch configuration commands and best practices. With the steps outlined in

Use guest access and external access to collaborate with people

External access Set up external access if you need to find, call, chat, and set up meetings with people outside your organization who use Teams, Skype for Business Server, or Skype. By

## How to Configure a Cisco Switch in 10 Steps

Configuring a Cisco switch is a fundamental task for network administrators, as it lays the groundwork for efficient and secure network communication. Cisco switches are used in both small

## MS Switch Access Policies (802.1X)

Summary Cisco Meraki MS switches offer the ability to configure access policies, which require connecting devices to authenticate against a RADIUS server before they are granted network

## Identify The Steps Needed To Configure A Switch For SSH

Requirement: Initial access to the switch via a console cable or Telnet is needed to perform the SSH configuration. Example: Connecting to the switch via a console cable and using a

## Contact Us

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