

How to configure a switch for access



AI Overview

Configuring an access switch involves setting up basic parameters, VLANs, access ports, IP management, and security settings to ensure proper network operation.

Initial Setup

- Check Hardware and Power On:** Inspect the switch for any physical damage and ensure all cables are properly connected. Power on the switch and verify that indicator lights are functioning correctly (Cisco, TP-Link).
- Connect to the Switch:** Use a console cable and software like PuTTY for CLI access, or connect via a web browser for GUI access. Default IP addresses (e.g., 192.168.0.1 for TP-Link) and credentials (admin/admin) are typically used for first login.
- Erase Previous Configurations:** For spare or reused switches, delete old VLAN configurations (e.g., flash:vlan.dat on Cisco) to start fresh.
- Basic Configuration**
 - Set Hostname and Domain Name:** Assign a professional hostname and domain name to identify the switch in the network.
 - Configure Management IP:** Assign an IP address to the management VLAN (usually VLAN 1) and configure the default gateway to allow remote management.
 - Secure Access:** Change default passwords, enable SSH for CLI access, and optionally disable HTTP/HTTPS servers if not needed.
- VLAN and Port Configuration**
 - Create VLANs:** Define VLANs to segment network traffic. Use commands like `vlan [vlan-number]` in Cisco CLI or the VLAN interface in GUI.
 - Assign Access Ports:** Configure ports as access ports and assign them to the appropriate VLAN. Access ports carry untagged traffic for a single VLAN.
 - Trunk Ports (Optional):** If connecting to other switches, configure trunk ports to carry multiple VLANs with tagging.
- Security and Advanced Settings**
 - Port Security:** Limit the number of devices per port and configure MAC address restrictions to prevent unauthorized access.
 - Access Control Lists (ACLs):** Apply ACLs to control traffic flow and enhance network security.
 - Spanning Tree Protocol (STP):** Enable STP to prevent network loops in multi-switch environments.
- Saving and Verifying Configuration**
 - Save Configuration:** On Cisco switches, save the running configuration...

Article Content

Use chat in VS Code

For an overview of what agents can do and how to configure a session, see [Build with agents in VS Code](#). Ways to chat in VS Code VS Code gives you two main surfaces for working with agents, plus

How to Configure Your PC to a Local Area Network: Full

Properly configure the IP of the printer, and connect it to your switch or router -- preferably a router (it will assign an IP that is compatible to your

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

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 Entra Connect, and then select Configure.

Configure Microsoft Edge kiosk mode | Microsoft Learn

To configure Microsoft Edge with multi-app assigned access, follow the instructions on how to [Set up a multi-app kiosk](#). When using Microsoft Edge with multi-app assigned access, you

How to manage network adapter settings on Windows 11

How to access network advanced properties on Windows 11 Although the Settings app still doesn't include elements to fully configure a network connection, it does have an option to access the ...

Configuring and Securing a Cisco Switch: A Step-by-Step Lab

In this blog post, we'll guide you through the process, providing clear and step-by-step instructions on configuring a Cisco switch from scratch using a Windows workstation and PuTTY and ...

Router to Router Connection: Expand Your Home Network

IP Address Configuration of a Second Router Home network routers also use a default IP address setting depending on the model. The default IP settings of a second router do not require

Essential Network Settings and Tasks in Windows | Microsoft Support

Summary Network & Internet settings in Windows allow you to manage your network connections and internet settings. Whether you need to connect to Wi-Fi, configure a VPN, or troubleshoot network

How to work offline in Outlook for Windows | Microsoft Support

Offline access in the new Outlook for Windows You can use the new Outlook for Windows even when you're not connected to the internet by enabling offline access.

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.

Configuring Access and Trunk Interfaces

To optimize the performance on access ports, you can configure the port as a host port. Once the port is configured as a host port, it is automatically set as an access port, and channel

How to Configure Your Cisco Switch: Step-by-Step Guide

The first thing you'll need to do is physically set up your switch and establish management access. This involves unpacking the switch, mounting it in a rack or placing it in a

How do I configure a new Ubuntu installation to accept ssh connections?

I just installed Ubuntu. How do I set it up to allow me to ssh into it? Right now I get "ssh: connect to host x.x.x.x port 22: Operation timed out".

Install the Global Secure Access client for Windows

The Global Secure Access client helps secure network traffic at the user device. This article describes how to download and install the Windows client.

Spanning-Tree Portfast – The Definitive Guide

To configure portfast globally under global configuration mode enter the command spanning-tree portfast default This will enable portfast on all operational access ports.

Accessing the Switch

If you want to access the switch via a specified port (hereafter referred to as the access port), you can configure the port as a routed port and specify its IP address, or configure the IP address of the

Implementing Network and Client Isolation in UniFi

To configure Client Device Isolation via ACLs: Navigate to Settings > Networks. Enable Device Isolation (ACL) for the appropriate network/VLAN. Select the Network/VLAN to apply isolation to. Note: Device

Understand and Mitigate Network Loops (STP)

3. Configure STP Edge and BPDU Guarding: STP Edge will allow clients to connect to a switch port without momentarily interrupting traffic with a topology change notification (TCN). This allows STP to

Configuration options for the Office Deployment Tool

Note Best practice: The options in this article show the XML elements and attributes in the configuration file. You can continue to create the configuration file in a text editor, but we

How to test and use your webcam in Windows with the Camera app

How to access your photos and videos in the Camera app Once you click or tap this button, Windows loads the last photo you took or the last video you recorded with the Camera app.

Firewall and network protection in the Windows Security app

Configure Windows Firewall with Windows Security In the Windows Security app on your PC, select Firewall & network protection or use the following shortcut: Firewall & network protection Windows

How to Configure a Cisco Switch in 10 Steps

In this post, I'm going to show you how to configure a Cisco switch step-by-step. SSH access with local AAA authentication. Here's a network diagram, so you can follow every step of the

Contact Us

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