

Access Switch Routing Configuration



AI Overview

Configuring access switch routing involves setting IP addresses, VLANs, default gateways, and optionally static or dynamic routing to ensure proper network connectivity. You can manage a switch using either the GUI (web interface) or CLI (Command Line Interface). The GUI is more visual and user-friendly, while the CLI provides more granular control. To access the switch via GUI: Ensure the host PC can reach the switch over the network. Open a web browser and enter the switch's IP address (default is often 192.168.0.1). Log in with the default credentials (usually admin/admin) and change the password for security. Navigate to the interface or VLAN settings to configure IP addresses and routing. For CLI access, connect via a console cable and terminal emulator (e.g., PuTTY), then log in and enter User EXEC Mode followed by Privileged EXEC Mode to configure settings. Configuring IP Addresses and VLANs By default, all ports may belong to VLAN 1. You can assign a static IP to the VLAN interface to manage the switch. In the web interface, go to L3 FEATURES > Interface, select the VLAN, and edit the IPv4 address. Choose Static mode and enter the desired IP address. Ensure the host PC can route to the new IP address before saving changes. Default Gateway and Routing To enable routing, configure the default gateway for the switch. In the web interface, navigate to L3 FEATURES > Static Routing > IPv4 Static Routing Config, create a new route, and set the destination as 0.0.0.0 with subnet mask 0.0.0.0. For remote network connectivity, you can use static routes or dynamic routing protocols like BGP. Static routes are suitable for small networks, while BGP scales better for multiple remote subnets. If using BGP, configure the Peer AS and Router ID for the remote network. Static routes take precedence if both methods are used. Connecting Switch to Router Use an Ethernet cable to connect an available port on the switch to a LAN port on the router. Power on both devices and verify connectivity via indicator LEDs. This connection al...

Article Content

Cisco C9350 Series Smart Switches Data Sheet

Overview Cisco® C9350 Series Smart Switches deliver high-performance access switching with built-in security and flexible management for

MikroTik · Routers and Wireless

MikroTik makes networking hardware and software, which is used in nearly all countries of the world. Our mission is to make existing Internet technologies

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How to Configure a Cisco Switch in 10 Steps

Whether you're configuring a single switch for a small office or managing a more complex network with multiple switches, you'll learn how to use the Cisco Command Line Interface (CLI) to

UniFi Academy

Modern networks use two forwarding models: routing (Layer 3) and switching (Layer 2). Routers maintain routing tables and use protocols to compute efficient paths between networks.

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First published on TECHNET on May 19, 2014 Storage Classification was introduced in System Center 2012 Virtual Machine Manager (VMM 2012) to provide the...

Switches: Support and Downloads

Cisco Category page for supported Switches - Support Documentation, Downloads, and End-of-Life status.

Example for Configuring a Layer 3 Switch to Work with a Router for ...

Layer 3 switches provide the routing function, which indicates a network-layer function in the OSI model. Layer 3 switches can work at Layer 2 and Layer 3 and be deployed at the access layer or

Design Zone

Learn more about how Cisco is using Inclusive Language. This document provides design guidance for implementing a routed (Layer 3 switched) access layer using EIGRP or OSPF

Inter VLAN Routing by Layer 3 Switch

Security: Inter-VLAN routing by Layer 3 switch provides better security than other methods, as it allows for the creation of access control lists (ACLs) to restrict traffic between VLANs.

Basic Switch Configuration Guide with Examples

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

Cisco Products: Networking, Security, Data Center

Access networking Simplify, automate, and secure your network experience with software-enabled switching and wireless solutions.

MS Layer 3 Switching and Routing

Layer 3 routing capabilities are available on most Cisco Meraki switches. This allows the switches to route traffic between VLANs in a campus

AI Providers | Hermes Agent

AI Providers This page covers setting up inference providers for Hermes Agent — from cloud APIs like OpenRouter and Anthropic, to self-hosted endpoints like Ollama and vLLM, to advanced routing and

How to Configure a Firewall in Cisco Switch?

Configure a Firewall on Cisco Switch: Access lists are supported for network traffic filtering by the Cisco 850 and Cisco 870 series routers. The

Router in Computer Networks

A router is a networking device that forwards data packets between different computer networks. It connects multiple packet-switched networks or

Switch Access Setup Guide | General Practice and Common Mistakes

This article focuses on the generic switch access setup guide and also explains the common mistakes

192.168.1.1: Enter the router and configure it step by step

Access 192.168.1.1, log in to your router, and optimize your Wi-Fi: username, password, channels, ports, and security explained in a simple way.

How to Configure a Cisco Switch (step by step)

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

OpenVPN 2.x Community How-To: Complete Setup & Configuration

Learn how to set up and configure OpenVPN 2.x with community how-to guides covering certificates, routing, networking, and advanced features.

Accessing the Switch

Configure the Default Gateway The following example shows how to configure the switch's gateway. By default, the switch has no default gateway. 1) Go to page L3 FEATURES > Static Routing > IPv4

Configuration Guides

Options available for configuring ports and VLANs on a switch. Everything from STP, speed and duplex, to voice VLANs and port aggregation.

MS Layer 3 Switching and Routing

To start using layer 3 routing, navigate to the Switching > Configure > Routing & DHCP page. Alternatively, you could go to Switching > Monitor > Switches and click on the switch to be

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! Still fuzzy? If

Cisco IOS & NX-OS Networking Software

Cisco Support Category page for Networking Software (IOS & NX-OS) - My Devices, Support Documentation, Downloads, and End-of-Life Notifications.

VLAN Configuration Commands Step by Step Explained

This tutorial explains VLAN configuration commands. Learn how to configure, test, and verify VLANs on Cisco switches.

Contact Us

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