

How to configure an access switch

LoRawan outdoor base station

- * Industrial Internet gateway
- * Compatible with LoRaWAN network,
- * ClassA/B/C mode
- * Support 8/16 channel
- * Supports PoE power
- * supply and backup battery power supply
- * 10KV lightning protection



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

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

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

Manage User Accounts in Windows | Microsoft Support

Configure a user as an administrator If needed, a user account can be configured as an administrator. Important you should limit the number of administrators on your Windows device because

Creating Virtual Networks (VLANs) - Ubiquiti Help Center

This method simplifies VLAN segmentation without requiring configuration on switches or access points. This also requires a UniFi Gateway, and is a simplified method of assigning VLANs based on MAC

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 Do I Configure a Switch?

Understanding how to configure a switch is critical for network administrators and anyone managing a local area network (LAN). This article provides a comprehensive guide to switch

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

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 ...

Syslog Server Overview and Configuration

Overview This article explains how to configure a syslog server to store messages for reporting purposes from MX Security Appliances, MR Access Points, and MS Switches. It provides

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.

Ports That Are Used by RDS

This article introduces the ports that need to be open on firewalls to configure Remote Desktop Services (RDS) correctly. The information and taxonomy are broken down by role, service,

Add an existing Azure subscription to your tenant

Microsoft Entra roles control access to directory resources, such as users, groups, and domains. Changing a subscription's directory changes which tenant supplies identities for Azure role

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

Cisco NX-OS supports only IEEE 802.1Q-type VLAN trunk encapsulation. This chapter describes the configuration of access or trunk ports on Cisco Nexus 5000 Series switches. It includes

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

8 Steps to configure your network switch

Just like riding a bicycle, nobody's born knowing how to setup a network switch. And this process is a little more advanced than, say, setting up your home Internet or even a plug-and-play type switch.

Configure Microsoft Defender for Endpoint with Intune and onboard ...

Connect Microsoft Defender for Endpoint to Intune, onboard devices by platform, and configure compliance and Conditional Access policies that use device risk levels to control access to

What's new | Workspace Environment Management™ 2603

On that page, access the installer under Components of the latest version of Citrix Virtual Apps and Desktops. This release includes the following new features and addresses issues to

Configure Microsoft Entra hybrid join

In Device options, select Configure Microsoft Entra hybrid join, and then select Next. In Device operating systems, select the operating systems that devices in your Active Directory environment use, and then select Next.

Understand and Mitigate Network Loops (STP)

Gateway switch ports do not support STP. Configure RSTP to Prioritize Core Switches: Configure Spanning Tree Protocol settings to prioritize core switches. Setting STP priorities properly ensures

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

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