

Access Switch Port Restrictions



Article Overview

Switch port access restriction is implemented using port security and port isolation to control which devices can connect and communicate through a switch port.

Port Security Overview

Port security is a feature on switches that limits and identifies the MAC addresses allowed on a specific port, preventing unauthorized devices from accessing the network. It works only on access ports, which connect end devices to the switch, and is not supported on EtherChannel, private VLAN, or 802.1X authenticator interfaces .

Key Features:

- **MAC Address Limiting:** You can restrict the number of devices on a port, with a maximum of 132 MAC addresses per port .
- **MAC Address Assignment:**
 - **Static:** Manually configured and stored in the running configuration.
 - **Dynamic:** Learned automatically and removed on switch restart.
 - **Sticky:** Dynamically learned but saved to the running configuration for persistence .
- **Violation Handling Modes:**
 - **Shutdown:** Default mode; port is disabled when a violation occurs.
 - **Restrict:** Port remains active; unauthorized traffic is dropped and logged.
 - **Protect:** Port remains active; unauthorized traffic is dropped without logging .

Aging and Bandwidth...

Article Content

Oct 22, 2025

Configure switch ports as access ports

To assign a switch port to a single VLAN, configure it as an access port. Access ports accept only untagged traffic. The interfaces

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Port access policy

Port access policy allows network administrators to define a set of rules. These rules are used to restrict or alter the passage of traffic

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How to Configure Port Security on Cisco Switches -

Learn how to configure port security on Cisco switches with step-by-step commands, best practices, and examples to protect your

Mar 31, 2026

Switch Port Configuration: Access, Hybrid, and Trunk Explained

Discover how to optimize network performance and security with Switch Port Configuration, covering Access, Hybrid,

May 13, 2026

How to configure port-security on Cisco Switch

Port-security can be used to filter MAC-addresses on Cisco switches. In this lesson you will learn how it works and how to configure it.

Jan 08, 2026

Switch Ports

Meraki's MS switches allow for the configuration of a single port to thousands of ports through our industry-first Virtual

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Solved: Hub/Switch

Solved: Hi How do I restrict helpdesk or users from plugging hub or switch on the network. If Hub/Switch is connected

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Configuring Port Security on Cisco IOS Switch

This security feature of Cisco IOS Switches can only be configured on access ports and by default, this feature is

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How to configure Access Control to block users' access to the switch ...

You can configure Access Control to allow only specific users to access the switch and block the others. Access

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What is Cisco Port Security? | Definition, Types & Modes!

Learn precisely what Cisco Port Security is and what its features are in our simple guide. Understand Switch restriction

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Switchport Port-Security | NetworkAcademy.IO

Secure your campus LAN access layer with Cisco port security. Learn how to limit MACs, block rogue devices, and recover err

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Switchport Port Security Explained With Examples

To block unauthorized access to switch ports, switches support a feature called port security. This feature allows you

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Prevent Network Access at Switch : r/HomeNetworking

For the unused ports, if this is a managed switch, you can either turn them off or limit them to a particular vlan that can't access the

Jun 26, 2026

What is Switchport Mode Access? How to Configure Switchport Mode Access ...

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

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Introduction to Switch Port Security

Introduction to Switch Port Security Port security monitors and blocks Layer 2 traffic on a switch on an individual port

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How to Configure MAC ACL: Restrict Access and Filter

Get a step-by-step guide on how to configure access restriction and traffic filtering on switch ports using

Aug 22, 2025

Create Security Policies with Extended Port Access Control Lists

This topic provides information about extended port Access Control Lists (ACLs) in Windows Server 2016.

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Cisco Switch Port Security Configuration and Best Practices

It's called Port Security and you can use it to limit the number of MAC addresses per interface or even to specify which MAC address

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Port Access Control

Is there a way to limit a users access on the network by programming a port on a Cisco switch to shutdown at a

Sep 16, 2025

Switch Port VLAN Assignment (Trunk & Access Ports)

Switch Port VLAN Assignment (Trunk & Access Ports) Configuring VLANs (Virtual Local Area Networks) on switch ports is essential

Oct 30, 2025

How to manage network port access restrictions | LabEx

Introduction Understanding network port access restrictions is crucial for maintaining robust Linux system security. This

Sep 21, 2025

How to Configure Access Ports on Cisco Switch Packet Tracer

Access ports play a crucial role in connecting end devices to a specific VLAN within a switch. In this article, I will show

Oct 25, 2025

Access port configuration (Cisco)

How to configure an access port on Cisco switch? An access port transmits packets on only one VLAN (traffic is not tagged on this

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layer 3 access switch -hardening

Hello, I'm using a Layer 3 switch at the network access layer. please suggest some security hardening measures?

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What is Switchport Mode Access? How to Configure Switchport Mode

Switchport mode access is a command used to set a switch port to operate exclusively as an access port. In this mode,

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Port Security on Switches | Shutdown | Protect | Restrict * CCNA

Switch Port Security is the security mechanism used in switches. With this mechanism, a specific port of a switch can be protected

Nov 07, 2025

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

Jun 14, 2026

Configuring Access Policies on AOS-S Switches

Configuring Access Policies on AOS-S Switches To restrict certain types of traffic on physical ports of AOS-S switches, you can

Dec 12, 2025

BW restriction/control on switch port(access port)

I need to restrict the BW on switch port where my server connected (gi0/1). I have to restrict my port utilization to 80%

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Interface

If a port is configured as a secure port and the maximum number of secure MAC addresses is reached, when the MAC address of a

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How to configure all other ports as access ports?

How to configure all other ports as access ports? I want to assign all other port in a switch as an access port what should be the

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BW restriction/control on switch port(access port)

Hi, Core sw (vlan10) == Etherchannel== Access (Vlan10)Gi0/1 === Server (vlan 10). Access sw = 2960 I need to

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Configuring Access Control on AOS-CX

Configuring Access Control on AOS-CX Access control allows you to permit or deny traffic based on network addresses, protocols,

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Ports restriction

If you want to prevent let's say people connecting through an unmanaged switch to your access port, the best thing to

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Restricting Traffic with Isolated Switch Ports

When ports on a switch have been isolated, the MS will not send from one isolated port to another. This can be

Contact Us

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