

Switch limits the IP addresses accessed on each port



Overview

Port security monitors and blocks Layer 2 traffic on a switch on an individual port basis. Access the switch's CLI prompt. Enter interface configuration mode for the port you want to secure and run the following command. This number is the total of available MAC addresses, including those used for other Layer 2 functions and any other secure MAC addresses. Port security is a Layer 2 security feature that allows you to control which devices can access your network through specific switch ports. By limiting the number of MAC addresses that can be learned on a port and defining actions when violations occur, port security prevents unauthorized devices. It limits the number of MAC addresses that can appear on a port and specifies which MACs are allowed to connect.



Article Content

Hot

only permit specific ip address on a switch port

If just to limit the IP then IP ACL is the most efficient solution. Other very useful features are private vlans that can limit a port to another specific port etc (e.g. have 4 clients connected that are

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How can there be more than one MAC address on

I am learning for the ICND1 exam through CBTNuggets video courses. In one of their videos they used a command, switchport port-security maximum This is what the

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11.6.4 Module Quiz - Switch Security Configuration (Answers)

Explanation: Port security limits the number of source MAC addresses allowed through a switch port. This feature can prevent an attacker from flooding a switch with many spoofed MAC

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How to Configure Port Security on Cisco Switches | CCNA Guide 2025

Master CCNA port security configuration with step-by-step instructions. Learn sticky MAC, violation modes, troubleshooting, and pass CCNA 200-301 exam with confidence.

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Cisco Switch Port Security Configuration and Best

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 can connect to each physical

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Cisco IOS, restrict IP addresses per ethernet port

I am configuring a Cisco 881, and am interested in restricting individual ports on the LAN (FastEthernet 0-3). I would like to be able to limit the IP addresses that someone can use based on

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

We will learn Switch Port Security, how to configure port security on Cisco switches, violation modes: Shutdown, Protect, Restrict

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Interface

The switch supports these types of secure MAC addresses: Static secure MAC addresses—These are manually configured by using the switchport port-security mac-address mac-address interface

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Network Port Security Basics | NetAlly CyberScope

Network Port Security Basics There are two categories of network ports, physical and virtual. Physical network ports are connection points for

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TCP: can two different sockets share a port?

In the TCP/IP protocol stack, a socket is identified by a unique combination of an IP address and a port number. Therefore, it is possible for two sockets to bind to the same port number on the same host if

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Security Configuration Guide, Cisco IOS XE Dublin 17.11.x (Catalyst ...

Types of Secure MAC Addresses The switch supports these types of secure MAC addresses: Static secure MAC addresses—These are manually configured by using the switchport

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How do you assign sequential IP addresses to individual ports on a ...

Closed 2 years ago. I am looking for a non-complicated way to set up a network of 50 interchangeable devices such that whenever I plug a device into a specific port on a switch, I will always get the same

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Port Security Cisco Explained

To prevent this, we use Port Security. This feature allows you to control which MAC addresses are allowed to send traffic on each port. Port Security is a Layer 2

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Is it safe to use a single switch for multiple subnets?

I am just interested in preventing endless loops, or double-delivery of all the packets. My switches are unmanaged/dumb switches - except for the BVI router. The "router" is set up with BVI (similar to

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Introduction to Switch Port Security

Port security monitors and blocks Layer 2 traffic on a switch on an individual port basis. Enabling this feature keeps track of permitted source MAC

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How to Set the Maximum MAC Addresses per Switch

Learn some best practices for setting the maximum number of MAC addresses per switch port, depending on your network design and security requirements.

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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 with undesirable access. Here, we will learn the theory of this lesson. We

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How to configure port-security on Cisco Switch

In this lesson, you will learn how to configure port security to restrict the number of MAC addresses per port, specify which MAC addresses are allowed, and control what happens when violations occur.

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Port Security

With multiple MAC addresses supported on all ports, you can connect any port on the device to other network devices. The device provides dynamic addressing by learning the source address of packets

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port_sec

Understanding Port Security You can use the port security feature to restrict input to an interface by limiting and identifying MAC addresses of the workstations that are allowed to access the port. When

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Maximum number devices to NAT behind a single public

For TCP and UDP protocol types, there is a maximum of 65,536 ports per IP address. This implies that there will be a hard limit to the number of

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Private network

Private network addresses are not allocated to any specific organization. Anyone may use these addresses without approval from regional or local Internet registries. Private IP address spaces were

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Switch port security configuration and verification

This lesson covers switch port security configuration and verification. Port security is a security feature of Cisco switches that allows you to control what

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networking

When network switches report speeds of say 100 Mbit or 1 Gbit, are they referring to the maximum speed per Ethernet port or is this the physical limit of the switch on all ports? Say for example two

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Implementing Port Security in Junos: Mac Limiting and

1. MAC Limiting MAC Limiting in Junos restricts the number of MAC addresses learned on a port, preventing MAC flooding attacks and ensuring only

Feb 11, 2026 Hot

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-disabled switchports.

Jun 21, 2026 Hot

Security Configuration Guide, Cisco IOS XE Gibraltar 16.10.x (Catalyst ...

Static secure MAC addresses—These are manually configured by using the switchport port-security mac-address mac-address interface configuration command, stored in the address

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Port Security

Restrictions for Port Security The maximum number of secure MAC addresses that you can configure on a switch is set by the maximum number of available MAC addresses allowed in the system. This

Sep 09, 2025

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.eedenmarketing.co.za>

Email: info@moletenare-ew.co.za

Phone: +86 138 1658 3346

Address: Ningbo, China

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