

MAC filtering on access layer switches



Overview

MAC filtering is a network access control method where a router or switch allows or blocks devices based on their MAC (Media Access Control) address. When a device tries to join a network, the router or access point checks the device's MAC address against the configured filtering. Perhaps filtering inbound and stopping the traffic from traversing your network could work?

Here is a support doc that might help with the 3560 mac filtering, using VLAN maps <https://www.cisco.com/c/en/us/support/docs/switches/catalyst-3550-series-switches/64844-mac-acl-block-arp.html>. In allow. Access Control List (ACL) allows you to define classification rules or establish criteria to provide security to your network by blocking unauthorized users and allowing authorized users to access specific areas or resources. Learn how to improve the security and manageability of your local network. Although basic, it's still useful in.



Article Content

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MAC Access Control Lists

MAC ACLs are ACLs that filter traffic using information in the Layer 2 header of each packet. You can use ACLs to control which hosts can access different parts of a network or to decide which types of

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mac filtering in cisco switch and mac access list

I want to apply mac filtering in my network. I tried MAC-ACL but it can't be apply to out bound of switch interface. and only allow me to apply it to ingress interface. but I want to apply it the

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MAC Address Filtering: What It Is and How It Works

MAC address filtering adds an extra layer to this process. Before letting any device join the network, the router checks the device's MAC address against

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Configuring MAC filtering on the switch port using ACL

Access Control List (ACL) allows you to define classification rules or establish criteria to provide security to your network by blocking unauthorized

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What are MAC access control lists (ACLs) and how do

What are MAC access control lists (ACLs) and how do they work with my NETGEAR Smart Switch or fully managed switch? MAC ACLs are Layer 2

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MAC Address Filtering: What It Is and Should You Enable It?

Among the myriad security features available, Media Access Control (MAC) address filtering is a frequently discussed method. But what exactly is MAC address filtering? Does enabling it

Nov 12, 2025

What is MAC address filtering? Selective Network

MAC address filtering operates on network devices and uses a system of allowing - known as "whitelisting" - or denying - referred to as "blacklisting" - specific MAC

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MAC Filtering in Computer Network

MAC filtering is a network access control method where a router or switch allows or blocks devices based on their MAC (Media Access Control)

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MAC Layer 2 Access Control Lists

Layer 2 MAC ACLs allow the permission or denial of the packets based on the MAC source and destination addresses. This module describes how to implement MAC ACLs.

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Configure MAC-Based Access Control List (ACL) and Access Control

It blocks or allows users to access specific resources. An ACL contains the hosts that are permitted or denied access to the network device. Media Access Control (MAC)-based Access

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Switch MAC Filtering | Marc's IT Portfolio

In this Packet Tracer lab, I will be configuring MAC filtering on a switch. In this case, MAC filtering will be used to limit the amount of MAC addresses that can be learned on a single port.

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Configure MAC-Based Access Control List (ACL) and Access Control

Objective An Access Control List (ACL) is a list of network traffic filters and correlated actions used to improve security. It blocks or allows users to access specific resources. An ACL contains the hosts

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What is MAC Filtering? Network Access Control Explained

MAC filtering, or MAC address filtering, is one of the earliest methods used to manage device access. It works on the principle of allowing or denying

May 11, 2026

MAC flooding

In computer networking, a media access control attack or MAC flooding is a technique employed to compromise the security of network switches. The attack works by forcing legitimate MAC table

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What Is Mac Address Filtering?

MAC address filtering can be implemented in various devices, including routers, switches, and access points. The filtering process can either block or permit devices based on their MAC addresses,

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Should MAC address filtering via VACLs be applied at

I then put the same config on the access layer switch the device was connected to and success. Does MAC Filtering this way only work at the access layer? If not,

May 24, 2026

What is MAC Address Filtering and How Does It Work (2026)

MAC Filtering Isn't a Silver Bullet — Layer Your Defenses MAC address filtering adds an entry-level access control method to your network, offering a straightforward solution that restricts device access

Jul 04, 2025

MAC Address Filtering: What It Is and How It Works

Understanding MAC Addresses To understand MAC address filtering, one must first comprehend what a Media Access Control (MAC) address is. A MAC address is a unique identifier

Mar 06, 2026

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 MAC ACL (MAC Access Control List). Learn how to improve

Apr 13, 2026

Configure MAC-Based Access Control List (ACL) and

This article provides instructions on how to configure MAC-based ACL and ACE on your Managed Switch.

Mar 10, 2026

How MAC Address Filtering Enhances Network Security

MAC address filtering is a crucial part of network access control. It checks devices using their unique hardware addresses. This adds a security layer to stop unwanted access attempts.

Feb 09, 2026

Understanding MAC Limiting on Layer 3 Routing Interfaces | Junos

The MAC limiting feature provides a mechanism for limiting MAC addresses on devices that are connected to a Layer 3 routed Gigabit Ethernet (GE), Fast Ethernet (FE), or 10 Gigabit Ethernet (XE)

Jun 07, 2026

VLAN Mac Address Filtering

Hi, I have a scenario where I need to do MAC address filtering on the VLAN. Usually for this configuration I only can see how to block certain MAC. However on my scenario, I wanted to

Aug 18, 2025

Configuring MAC filtering on the switch port using ACL

ACLs can provide basic security for access to the network by controlling whether packets are forwarded or blocked at the Switch ports.

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Using MAC Address filtering on switch with Access Points connected

By following these configuration steps, you can effectively implement MAC-based authentication on your Zyxel networking devices, bolstering network security and controlling access based on MAC addresses.

Contact Us

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