

# Configure IP MAC binding on the core switch



## Article Overview

IP-MAC binding can be configured on a core switch either statically or dynamically to ensure that each IP address is associated with a specific MAC address, enhancing network security and preventing spoofing.

### Overview of IP-MAC Binding

IP-MAC binding is a network security feature that binds an IP address to a specific MAC address. When enabled, the switch or firewall checks incoming packets and allows only those that match the binding table. Packets with mismatched IP or MAC addresses are dropped, preventing unauthorized access or IP spoofing. This feature is particularly useful in environments with sensitive devices like IP phones or servers.

### Methods to Configure IP-MAC Binding

#### 1. Static Binding

- Manually assign IP-MAC pairs on the switch or DHCP server.
- Each entry is permanent and does not change unless manually updated.
- Steps (generalized for most switches):
  - Access the switch CLI or management interface.
  - Navigate to the IP-MAC binding configuration section.
  - Enter the IP address and corresponding MAC address.
  - Apply the binding to the desired interface or VLAN....

## Article Content

Jan 24, 2026

Adding an IP-to-MAC binding to the DHCP database

A routing switch maintains a DHCP binding database, which is used for DHCP and ARP packet validation. Both the DHCP snooping

May 19, 2026

IP-MAC binding | FortiSwitch 7.4.0

Storm control MAC entries Persistent (sticky) MAC addresses Static MAC addresses Network monitoring QoS Classification Marking

May 15, 2026

Adding an IP-to-MAC binding to the DHCP database

If your network does not use DHCP or if some network devices have fixed, user-configured IP addresses, you can enter static IP-to

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HPE OfficeConnect 1920 Switch Series

From the navigation tree, select Network > DHCP to enter the default DHCP Relay page. shown in Figure 1. 2. In the Server Group

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IP-MAC binding | FortiSwitch 7.2.6 | Fortinet Document Library

MAC entries QoS Configuring security checks Cut-through switching mode Enabling packet forwarding Configuring

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IP-MAC binding | FortiSwitch 7.2.5 | Fortinet Document Library

Virtual wires Storm control MAC entries IP-MAC binding QoS Configuring security checks Cut-through switching mode Enabling

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Configuring IPv4 IMPB

In ARP Detection, the switch detects the ARP packets based on the binding entries in the IP-MAC Binding Table. So before

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## IP-MAC binding | FortiSwitch 7.6.0 | Fortinet Document Library

Enable the IP-MAC binding global setting. Create the IP-MAC bindings. You can activate each binding individually. Set each port to

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Solved: MAC binding

Hi, I have got only one catalyst 2960 series switch. I have connected different computers/laptops through this switch. I

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Mac binding in layer 3 switch

Actually, I make a core switch vtp server and other are client and configure a core switch as a DHCP server. All ip

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## A Complete Configuration Guide to IP/MAC Binding

Introduction IP/MAC binding is a powerful tool in network security, allowing only authorised devices to access the network.

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## IP-MAC binding | FortiSwitch 7.2.8 | Fortinet Document Library

Configuring power over Ethernet on a port Energy-efficient Ethernet Diagnostic monitoring interface module status

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MAC to IP Address Binding in cisco 3560 Switch

You will have to configure one DHCP pool for every mac-to-IP address binding. If I can advise you, at first assign IP

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IP and MAC binding for static ip address

hi Jasua, thanks for nice reply. can i allow/deny ip address with MAC address. like "access-list 101 allow IP address

Dec 31, 2025

Adding a static binding

The ip source-binding command is the same command used by the Dynamic IP Lockdown feature to configure static bindings. The

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## Configuring the Core Switch

In this scenario, IP addresses of the interfaces connecting the core switch to the BRASs and firewalls and OSPF need

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## MAC Binding for Industrial Switches: Thwart ARP spoofing via static ...

Attackers can bind their own MAC addresses to target IPs (such as gateways) by forging ARP response packets,

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## IP-MAC binding | FortiSwitch 7.4.3 | Fortinet Document Library

Use IP-MAC binding to prevent ARP spoofing. The port accepts a packet only if the source IP address and source MAC address in

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## Configuring IP-MAC Address Binding

You must disable IP-MAC address binding to use an access point in sniffer mode if the access point is associated with a 5500 series

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## Binding of IP to MAC in a Vlan?

Therefore managing these IP addresses manually by configuring IP+MAC bindings to ports is not a scalable option,

Dec 31, 2025

## How to setup ip-mac binding in your switch?

There are several IP-mac binding solutions, including ARP binding, port-based binding  
In this post, I will introduce the steps to

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## IP-MAC binding | FortiSwitch 7.2.8 | Fortinet Document Library

The port accepts a packet only if the source IP address and source MAC address in the packet match an entry in the IP

May 10, 2026

## How Do I Bind an IP address and a MAC Address to an Interface?

S2750, S5700, and S6700 V200R005 (C00, C01, C02, and C03) Configuration Guide - Security How Do I Bind an IP

## Contact Us

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