

Look up MAC address by IP address on the core switch



AI Overview

To find the MAC address for a given IP on a core switch, use ARP to resolve the IP to a MAC, then check the MAC address table to identify the switch port.

Step 1: Resolve the IP to a MAC

On the core switch, first determine the MAC address associated with the IP address using the ARP table:

Cisco IOS: `show ip arp`

This command displays the MAC address corresponding to the IP, along with the VLAN and interface if directly connected.

Juniper JunOS: `show arp | match`

This will return the MAC address for the specified IP.

Step 2: Locate the MAC in the Switch MAC Address Table

Once you have the MAC address, identify the port on the switch where the device is connected:

Cisco IOS: `show mac address-table`

This command shows the VLAN and the port (e.g., Gi1/0/1) where the MAC is learned. If the MAC appears on a trunk port, it indicates the device is connected to a downstream access switch, and you may need to repeat the command on that switch to find the exact access port.

Juniper JunOS: `show ethernet-switching table | match`

This displays the VLAN and interface associated with the MAC.

Step 3: Trace Through Multiple Switches (if needed)

In larger networks, the MAC may appear on a trunk port of the core switch. To locate the end device:

Identify the trunk port on the core switch where the MAC is learned. Log into the connected access switch. Repeat the MAC address table lookup on the access switch to find the exact port of the end device.

Additional Tips

Ensure the device is active; MAC addresses age out after a default period (e.g., 300 seconds on Cisco). If the MAC is static, it will appear in the table permanently. For Layer 3 devices, the ARP table is essential to map IPs to MACs before checking the MAC table. By following these steps, you can reliably determine the MAC address corresponding to an IP and trace it to the specific switch port, eve...

Article Content

HowTo: Find switchport for a MAC Address on a Cisco Catalyst Switch

If you have an IP address on hand quickly ping and check if the device is pingable. If yes, then simply logon to one of your core switches or routers and do a simple `sh ip arp`

How to find IP & MAC addresses on Cisco IOS Devices

As a Network Administrator/Engineer you may be asked to find MAC addresses and/or IP Addresses, hopefully this can make your job a little bit easier. These commands work on most Cisco

Rick Astley

The official video for "Never Gonna Give You Up" by Rick Astley. Never: The Autobiography [OUT NOW!](#) Follow this link to get your copy and listen to Rick's ...

finding MAC of IP address and which switch it is connected to

I am trying to find the mac address of a device and which switch and interface it is connected to. I the only thing I have is the IP address.

Back to Basics: Network Tracing

Network tracing is a basic task of using a router's or switch's CAM (MAC) table and ARP tables to trace the origin of an IP address or MAC address

How to find the port a device is connected to, based on

On a Cisco Catalyst switch, I need to find what port an end device is connected to. I have the IP address/host name. How do I quickly find the port?

How to Map an IP Address to a Cisco Switch Port (Step

Learn how to map an IP address to a physical port on a Cisco switch using MAC and ARP tables, or a DHCP server. Step-by-step tutorial for network

Geolocate the Location of an IP Address | Geolocation

What is IP Geolocation? IP Geolocation is the identification of the geographic location of a device, such as a mobile phone, gadget, laptop, server and so on,

Solved: Finding switch & port using MAC add

Hi, let say in the building of 6 level level 6 is the core switch level 5 - 1 is access switch i need to find mac address of a PC ended with .ab01 i know the "sh mac add-table | in ab01, it will

IP address lookup through Cisco switch

And, just in case it is set to get a DHCP address, I looked in the leases on the server but I was unable to see a listing. I thought I remember seeing a command that will show the MAC address

How to Find a Device MAC Address on a Cisco Switch

In this article, we'll explore how this can be done on Cisco-based networks ranging from a single switch to a larger enterprise network with several switches. On another article we have explained how to

Simple command to search MAC/IP address on my Cisco Switch

I assume all switches are managed ciscos? (If you don't have the mac address but you have the IP); go to a switch with an IP in the same subnet (eg, your core switch/router). Then, run `sh ip arp`

How to Find Any Device's IP Address, MAC Address,

Your local IP, MAC address, and other network details are essential if you want to host any kind of server. Generally speaking, you can find your

ITPro Today, Network Computing, IoT World Today combine with

ITPro Today, Network Computing and IoT World Today have combined with TechTarget . The page you are looking for may no longer exist.

Macworld

Macworld is your ultimate guide to Apple's product universe, explaining what's new, what's best and how to make the most out of the products you love.

MAC Address Table Lookup Deep Dive: Mastering Switch-Level

Whether you're chasing down rogue devices, optimizing switch performance, or preparing for CCNP exams, knowing how to navigate the MAC table can save you hours.

Find an IP Address using a MAC Address: Step-by-Step

We show you how to use common and freely available tools and methods to find an IP address using a MAC address. Updated 2024.

Finding a MAC address on the network

Hello, On an all Cisco Network if I know the MAC address of a device on the network but not what switch it is on is there anyway to find out the switch it is on and the port? thanks in advance!

How to find port it connected to a switch using mac-address/ip add ...

On a Cisco switch, you can issue the "sh cam 00-0d-60-cb-44-5d" command. The output should tell you the VLAN they are on, the MAC address you entered and the port that MAC shows up

Help with command to locate devices by MAC addresses on switches

Enter sh mac address-table address (mac address) Is there a different command sequence that I could use that would help me locate these APs when multiple switches are involved.

How do I find the IP address of a switch by its mac address?

We recently discovered an older cisco switch in one of our guard shacks that we didn't know about. It has power but we could not connect to it via ethernet. It has a sticker with its mac

Commands to find mac-address and IP on a port

Solved: Can someone show me the commands to find a mac-address on a switch and if I know the port I am looking to find it on, also how i find the IP address on that port

WORLD WIDE WEB JOURNAL Home

World Wide Web Journal O'Reilly & Associates, Inc. 103A Morris St. Sebastopol, CA United States Get Alerts for this Periodical Reflects downloads up to 04 Jul 2026 Bibliometrics

How to Find Which Switch Port a Device Is Plugged Into Via IP Address

It may be necessary to find which switch port a device is plugged into by using its IP address. There could be a compromised device generating too much traffic in your network.

Commands to Find Device Mac Address on Cisco

To find the MAC Address on a Cisco switch port, we use the command show mac-address-table. Let's understand the step by step process under

How to Get a MAC Address from an IP Address

This article explains how to find a MAC address with an IP address using the command line utility ARP. It also covers additional information about checking your router's connection data for

find IP address by MAC address

- when i do "sh mac" it show the only MAC which start with 0080 - when i do "sh ip arp" on core router using this 0080 address it show many IP addresses connect to same virtual interface. -

Contact Us

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

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

Email: info@sabineamsee.co.za

Phone: +27 82 415 6793

Address: Unit 7, Innovation Park, 34 Electron Road, Kempton Park, 1620,
South Africa

This document is for informational purposes only. Specifications subject to
change without notice.

