

How to find the IP address and corresponding MAC address on the core switch



Article Overview

You can find the IP address of a device from its MAC address on a Cisco core switch by first identifying the switch port using the MAC address table, then correlating it with the ARP table to retrieve the IP address.

Step 1: Identify the Switch Port

On your core switch, use the following command to locate the MAC address and the interface it is associated with:

```
show mac address-table | include
```

This command will display the VLAN and the physical port where the MAC address was last seen, helping you pinpoint the device's location on the network .

Step 2: Check the ARP Table

Once you know the VLAN and interface, check the ARP table to find the corresponding IP address:

```
show arp | include
```

The ARP table maps IP addresses to MAC addresses for devices in the same VLAN. The output will show the IP address associated with the MAC address you are search...

Article Content

How to Map an IP Address to a Cisco Switch Port (Step-by-Step Guide)

Learn how to map an IP address to a physical port on a Cisco switch using MAC and ARP tables, or a DHCP server.

Find Device or IP Address with MAC Address

In this article, we'll show you how to use a MAC address to locate devices and find IPs. You might be in a situation

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.

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

How to find specific mac address or IP address in a Cisco Switch port

Trick and tip for network admin you should know when you work on enterprise switch. These commands will help you

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

Solved: Trace network port

Solved: Hi, i have core switch 6509.I need to trace this server A is connected to which port in the Core Switch.I found

Finding an IP address using a mac address on Dell 5424 switch

We deployed a Dell 5424 Switch without proper config documentation. It is picking up an DHCP and active on the

How to Find Your IP Address and MAC Address

To find your computer's MAC address, look for the "Physical Address" entry. This line will display your adapter's MAC

How to track down which switch port a device is connected to on a

How to track down a computer, printer, network node etc.. by using only it's MAC Address: Telnet/SSH into your Layer

How to trace end user connected from which L2 switch

This should give you the definitive information on which switch and port the IP address is connected to. By following

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

How to find the switch IP address based on MAC address?

There's no standard way. Historically, there's Reverse ARP but nobody's using that. You could try to listen to LLDP (Link-Layer

How to see mac address of the switch that you are currently on

This is the mac address that is used in i.e STP. Normally, the vlan1 interface has this same MAC address. 2. Yes, each switchport

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

How to Find a MAC Address on a Network: Step-by-Step Guide

Find the MAC address for each device on your network. You will see a list of all IP

Switch - Trace device Mac Address to Port number

Switch - Trace device Mac Address to Port number Sometimes it can be a pain to trace back which device is

Switch Mac Address: What's It and How Does It Work?

Isn't an IP address sufficient? What exactly is a switch MAC address for? How does switch learn mac address? Simply

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

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

How to Find Your IP and MAC Addresses in Windows

Follow these step-by-step instructions to quickly find the Internet Protocol (IP) and Media Access Control (MAC)

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

Commands to Find Device Mac Address on Cisco Switch Port

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

Find a Host by MAC Address

To learn the MAC address remotely if you know the user's computer IP address. It's possible if you have access to a

Is it possible to match an internal IP address to a switch port?

Given an IP address, you should be able to find the MAC address of the corresponding host. `arp -a` On both Windows and Linux will

networking

How can I list all MAC addresses and their associated IP addresses of the machines connected to my local network

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

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

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

If you have a big network with multiple Access Switches connecting to the core switches or routers then tracing a device like a PC or

Mapping out network interfaces using `mac-addr-table`, `arp`, and

Basically determine what each port is connected to, for the entire core and distribution layer of this network topology. To do this, I've

From core : Finding Mac address and port interface of the end device ...

The mac table on the core will only contain addresses layer 2 adjacent through the core switch and show on the

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

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

How to Find IP Address From MAC Address on Cisco Devices

One procedure that is particularly useful when investigating various network problems is being able to determine the IP address of a

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

How to Find IP Address From MAC Address on Cisco Devices

Troubleshooting a network requires many different investigative skills, tools, and methodologies. One procedure that is particularly

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