

Check the IP address of connected devices on the access switch



Overview

How to find the IPs connected to an Access SwitchIn this figure, you can find a Core Switch and two Access switches connected to it. There are two end devi.

Key Takeaways

You can identify IP addresses of devices connected to a switch by correlating MAC addresses from the switch's MAC table with ARP entries, or by using DHCP snooping and IP client-tracker features on supported switches.

Using MAC Address and ARP Tables

For Cisco switches, the most common method involves a two-step process: Retrieve MAC addresses of devices connected to switch ports using the command `show mac address-table`. This maps each MAC address to a specific physical port on the switch.

Correlate MA

C addresses with IP addresses by checking the ARP table on a router or Layer 3 switch using `show arp`. This allows you to determine the IP address associated with each MAC. This method works recursively in networks with multiple switches: first identify the MAC on the uplink interface, then log into the access switch to find the exact port.

Using DHCP Snooping and I

P Client-Tracker For switches that support these features (e.g., HPE 2540, 2920, 2930, 3810, 5400R): DHCP Snooping: Enable globally and on the VLAN where clients reside. Trusted uplink ports must be configured to allow DHCP packets. Use `show dhcp-snooping` to view learned IP addresses.

IP Client-

Tracker: Configure with `ip client-tracker trusted` or `ip client-tracker untrusted` to track authenticated or unauthenticated clients. Use `show port-access clients` to list IP addresses per port. Older switch models may only support DHCP snooping, while newer models support both methods.

Using Switch-

Specific Commands

Cisco: `show ip interface brief` shows the switch's management IP, while `show mac address-table` and ARP correlation reveal connected device IPs. Huawei: `display arp` lists IP addresses and the interfaces they are connected to.

For VLA

N or bridge-domain interfaces, additional commands like `display vlan vlan-id` or `display bridge-domain bd-id` provide detailed port mapping.

Additional Considerations

Ensure the switch has an IP address in the same VLAN as the devices to enable ARP-based tracking. For Layer 2 switches without IP configuration, IP tracking may require DHCP snooping or client-tracker features. Network management systems (NMS) can automate IP discovery across multiple switches.

By combining these methods, you can accurately determine which IP addresses are associated with each switch port, regardless of switch model or network topology.

Article Content

How to find the IPs connected to an Access Switch

In this figure, you can find a Core Switch and two Access switches connected to it. There are two end devices PC0 and PC1 connected to Switch A and B respectively.

Finding device at access switch

Log into the access layer switch, and use the `show mac-address address` and copy and paste in the mac address. This will show you the port the device is connected to.

Find a Device's IP Address on a Cisco Switch Port (Step-by-Step)

This guide explains how to map the IP address of a device connected to a Cisco switch port. The process is straightforward and relies on the relationship between MAC addresses, ARP

How to find ip address on Cisco Switch?

This table shows the IP addresses and corresponding MAC addresses of devices that have recently communicated with the switch. The Interface column indicates the VLAN interface through

How to learn the IP address of the clients connected in switch

By default, the switch does not learn the IP address of the clients. DHCP-snooping and IP client-tracker are the two methods by which switch can learn the IP address of the connected clients.

Check all the active IP addresses on a switch

Switches will know the MAC addresses, but not the IP addresses. Switches are layer-2 devices, and the ethernet headers contain MAC addresses. A switch will create and maintain a MAC

How to find which devices are connected to switch port

Whenever we have an audit or want to find which switch ports are connected to which devices, we can get the same information using the remote machine's IP or MAC address.

Identify Network Hardware IP Addresses on Local Network

Learn how to find fixed IP address of device on LAN for your network hardware, such as routers, switches, and access points, with these easy steps.

Finding IP Addresses of Devices connected to a switch | Comware

I have a few HPE 1920-48G Switch JG927A and 1920S 48G -JL382A in the network. How can i find the ip address of devices connected on each port of these switches.

How to see all IP addresses on network: A guide for IT professionals

Learn how to uncover all IP addresses on a network using command-line methods, advanced tools, and router-based techniques. Ideal for IT professionals and home users.

Network Devices

6. Access Point (AP) It is a networking hardware device that allows Wi-Fi-enabled devices, such as laptops and smartphones, to connect to a wired network. Acts as a bridge between

How to Set Up a Home Network

Learn how to Set Up a Home or Small business Network and connect it to the Internet. Understand the advantages and disadvantages of wired and wireless networks.

What Is My IP | Find my Public IP Address

Eventually all devices will be moved to IPv6, but until that happens, the IP address provided here, will be IPv4. Who uses public IP addresses? Internet web servers, DNS servers, network routers as well as

Trace My IP | IP Address Tracker | Visitor IP Location | Computer ID

An IP address, short for Internet Protocol address, is a unique numerical identifier assigned to each device connected to a computer network that uses the Internet Protocol for communication.

How to Find Gateway Address on Any Device

The default gateway IP address is usually the address your router uses to communicate with devices. You can find your gateway IP address on Windows using the Control Panel or a

ITPro Today, Network Computing, IoT World Today combine

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How to Find My IP Address

Learn how to find your local and external IP address with instructions for devices, including Windows, Linux, Mac, Android, and iOS, for easy troubleshooting.

Troubleshooting wireless networking issues in Windows 10 and 11 ...

For the purpose of this guide, the term Access Point is used for whatever wireless connectivity device is being used. This can be a wireless home gateway or an actual Access Point.

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