

Find the port from which the IP address comes from on the aggregation switch



Overview

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

Key Takeaways

You can locate the port for a specific IP by first finding its MAC address via ARP, then tracing that MAC through the switch's MAC address table to identify the connected port.

Step-by-Step Process

1. Identify the MAC Address of the IP
 - Ping the target IP from a device on the same subnet to populate the ARP table.
 - On a Cisco switch or router, run `show ip arp` to find the MAC address associated with the IP.
2. Check the MAC Address Table
 - On the aggregation switch, use the command `show mac address-table address`.
 - This will display the VLAN and the interface (port) where the MAC is learned.
3. Trace Through Uplink Ports if Necessary
 - If the MAC appears on a trunk or uplink port, the device is connected downstream.
 - Use `show cdp neighbor` or `show lldp neighbors` to identify the next switch in the path.

- Log into the downstream switch and repeat the MAC lookup until you find the access port where the device is directly connected . 4. Verify the Port
- Once the MAC is found on an access port, you can confirm by checking the ARP table on that switch or by monitoring traffic on the port.
- Optionally, configure port descriptions to document the device for future reference .
Additional Tips
- Enable IP Device Tracking on Cisco switches to simplify future lookups: ip device tracking and ip device tracking probe delay 30 .
- For Layer 2 switches, you may need to consult the router performing Layer 3 routing to locate the MAC if the IP is on a different VLAN .
- Documenting the network topology helps reduce the number of switches you need to check when tracing devices . By following these steps, you can reliably determine the physical port on the aggregation switch where a device with a given IP address is connected.

Article Content

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How to find IP address of a Switch that the host is connected to?

First login on the switch, and select the interface that you want to activate port-security in global configuration.

Finding IP on a switch port

I have a port on a Cisco SG300-28PP that has a legacy Access Point on it. This access point is not centrally managed

Find the IP Address of a Device connected to a Cisco Switch

This quick tip shows you how to find the IP address of a device connected to a specific

UniFi Switch Settings – Ubiquiti Help Center

UniFi Switch Settings let you configure how your network switches handle traffic, VLANs, port behavior, and Layer 3 isolation. These

Commands to find mac-address and IP on a port

I have the IP address and I am trying to find the mac address or interface that connected to the server. could you tell

Link Aggregation Control Protocol (LACP) Explained

Learn how to configure, test, and verify the Link Aggregation Control Protocol (LACP) on switches through a Packet

How Do I Find the IP Address of a Switch?

How Do I Find the IP Address of a Switch? Understanding Network Discovery Finding the IP address of a switch is

UniFi Switching

Switching evolved. High-performance switches designed to scale and optimize performance of any network with a magical

Identify IP Address from a Switch Port

The suspicion is that the port VLAN's were changed. Question: Can an IP Address be extracted from a device on a

UniFi

Next, click on "Port Management", which is the new way to manage switch port configurations in UniFi version 7.2 and

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