

Check the MAC address of the core switch

Article Overview

You can check a core switch's MAC address using the `show version` command for the switch itself, or `show mac address-table` to view MAC addresses learned on its ports.

Checking the Switch's Own MAC Address

To find the MAC address of the core switch itself:

- o Log in to the switch via console, SSH, or Telnet.
- o Enter privileged EXEC mode by typing `enable`.
- o Run the command:

`show version` In the output, look for a line like:

Base ethernet MAC address: 0007.ECE1.5D18 This is the switch's primary MAC address, often used for STP and VLAN 1 interfaces .

Checking MAC Addresses on Switch Ports

Each switch port may have its own MAC address, especially on Layer 3 switches or routed ports. To see MAC addresses learned on each port:

- o Enter privileged EXEC mode.
- o Run:
`show mac address-table` This displays a table with VLANs, MAC addresses, type (dynamic or static), and the port where each MAC is learned .
- o To find a specific device's MAC address and its port:
`show mac address-table address` Replace with the device's MAC. The output shows the VLAN and port where the device is connected .

Tracing MAC Addresses from Core to Access Switches

If you are on a core switch and want to find the MAC address of a device connected to an access switch:

- o Use `show mac address-table` on the core switch to see which MAC addresses are learned on uplink ports to access switches.
- o Identify the port connecting to the access switch.
- o Log in to the access switch and run the same `show mac address-table` command to locate the exact port of the end device .

Additional Tips

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- o For managed switches, you can also use LLDP or CDP to discover connected devices and their MAC addresses.
 - o Ensure the switch's management IP is reachable if using ARP or network-based queries.
 - o Remember that unmanaged switches may not provide per-port MAC addresses or support these commands .
- By following these steps, you can identify both the core switch's own MAC address and the MAC addresses of devices connected through it, which is essential for network monitoring, troubleshooting, and configuration.

MAC Address Lookup - Instantly identify network device manufacturers and vendors by MAC address. Search by full or

Hi all, I am looking to find the mac address of IP. sh ip arp 172.34.x.x shows Protocol Address Age (min) Hardware Addr Type

25 votes, 44 comments. Other than manually going on every switch to try locate it in the mac address-table?

So at this point I don't really trust that the map is accurate, but was using it as a starting

1) I DO NOT mean the mac addresses that the switch has learnt. (from what I know you can check that by Switch#sh mac-address

? 04-16-2009 07:26 AM On most cisco switches (such as a 2950) you can issue a show ver command. Towards the end of the output

How Do I Know the System MAC Address of a Switch? To check the system MAC address of a switch, run the display

How To Find MAC Address On A Network Switch Finding the MAC address on a network switch is crucial for network

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

Hi guys, Ok, I am studying little bit of switching technology for my day to day job requirement. May be following are

Having determined the device's MAC address, you can keep on searching for its direct location on the switch. The

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Yes, each switchport has it's own MAC address, I think this is how the switch itself (ASICs) makes forwarding decisions. Not quite

Pinging your switch's management IP from a client PC (as long as they're in the same VLAN) should be all that's necessary for the

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

How to Find the Switch Mac Address? Discovering the MAC address of your network switch is essential for network

This command will show the internal MAC address-table of the switch or router that you are on. This will give you the

Web: <https://www.in-au.co.za>

