

How to configure static IP on the core switch



Overview

Basically, to assign a static IP address, use "ip address", you can do this for a VLAN in a L2 or L3 switches.

Key Takeaways

Assigning a static IP to a core switch ensures stable network management and prevents IP conflicts during DHCP changes.

Step 1: Access the Switch CLI
Connect to your switch using a console cable or via SSH/Telnet if remote access is enabled. Use a terminal emulator like PuTTY to open the connection. Log in with your credentials; the default username and password for many Cisco switches is cisco/cisco .

Step 2: Enter Global Configuration Mode

From the Privileged EXEC mode, enter global configuration mode:

```
enableconfigure terminal
```

This allows you to make changes to the switch configuration .

Step 3: Select the Interface

For a core switch, you typically assign the IP to a VLAN interface (commonly VLAN 1):

interface vlan 1

If your switch is a Multilayer Switch, ensure the interface is configured as Layer 3 before assigning an IP .

Step 4: Assign the Static IP Address

Use the following command to assign the IP and subnet mask:

ip address

Optionally, you can also set the default gateway:

ip default-gateway

For example:

ip address 192.168.1.10 255.255.255.0ip default-gateway 192.168.1.1

After entering the commands, exit the interface configuration mode:

exit Step 5: Save the Configuration

To ensure the static IP persists after a reboot, save the configuration:

write memory

or

copy running-config startup-config Step 6: Verify the Configuration

Check the IP assignment and connectivity:

show running-configing

This confirms the switch is reachable and the static IP is correctly applied .

Optional: Using Dashboard or Local Web Interface

For switches like Cisco Meraki, you can also assign a static IP via the Dashboard:

- Navigate to Switch > Monitor > Switches.
- Select the switch and click the pencil icon next to LAN IP.
- Enter the desired static IP, subnet mask, and default gateway.
- Save the configuration .

Tips

- Always ensure the static IP is outside the DHCP pool to avoid conflicts.

- For stacked switches, configure static IPs to prevent address changes during failover .
- Document the IP assignments for network management and troubleshooting. By following these steps, your core switch will have a stable static IP, ensuring reliable network management and connectivity.

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During the setup, the switches are connected to a core switch access port and start up using DHCP. This works fine,

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