

How to add an IP address to a core switch



Overview

Configure an IP address on a switch This article describes how to configure an IP address on a Cisco switch in order to connect over the network for manage.

Key Takeaways

To add an IP address to a core switch, configure a VLAN interface, assign the IP address and subnet mask, enable the interface, and optionally set a default gateway. Steps to Configure an IP Address on a Core Switch

1. Access the Switch CLI Connect to the switch via console cable, SSH, or Telnet. Enter privileged EXEC mode using the enable command and then enter global configuration mode with configure terminal . 2. Configure a VLAN Interface Most switches use a VLAN interface (commonly VLAN 1) as the management interface. Enter VLAN configuration mode:

```
interface vlan 1
```

Assign the IP address and subnet mask:

```
ip address
```

Enable the interface:

```
no shutdown
```

This allows the switch to communicate over the network . 3. Set a Default Gateway (Optional) If the switch needs to communicate outside its local subnet, configure a default gateway:

```
ip default-gateway
```

This ensures proper routing for management traffic . 4. Configure Interfaces for Core Connectivity (Optional for Core Switches) For core switches connecting to BRAS, firewalls, or other routers, create interconnection VLANs and bind them to VPN instances if required. Then assign IP addresses to the VLANIF interfaces for routing and OSPF configuration . 5. Verify Configuration Check the IP address assignment and interface status:

```
show ip interface briefping
```

This confirms connectivity and proper configuration . 6. Save Configuration Ensure the configuration persists after a reboot:

```
write memory
```

or

```
copy running-config startup-config
```

By following these steps, the core switch will have a static IP address for management and routing purposes, and it can participate in network protocols like OSPF or communicate with connected devices .

Article Content

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Configure IP Address Settings on a Switch using the CLI

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How to assign an IP address to the switch, router, and PC in the Cisco packet tracer? Assigning the IP address is the first step while

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How to Assign IP to Management VLAN in Cisco Core Switch.

How to assign IP Address to Management interface in Cisco Core and Access Switch for management purpose!!!

Cisco Switch basic Configuration | IP Address to VLAN, DHCP Server ...

Hello Friends, In this video I will show you Cisco Switch Advanced Configuration and I

How to config an IP address to a port in switch 4507R-E

I have Cisco 4507R-E as core switch and i have connected to the console to do my intial setup. I have 1 24 port

How to assign a static IP to a Cisco Layer 3 switch in order to connect ...

The steps of this manual have been executed in order to configure SSH. Once SSH has been configured, how to access the switch

Assigning IP Addresses to VLANs on Cisco Switch

Learn how to assign IP addresses to VLANs on a Cisco switch to enable inter-VLAN communication and improve

Solved: Configure dhcp on core switch

I have a cat 3850 as core switch. And 1 cat3850 and 1 cat 9300 as access switches. Any client that gets plugged into an

Cisco Tech Talk: Configure IP Address Settings on a Switch via CLI

In this edition of Cisco Tech Talk, I'll demonstrate how to add and change the IP address per VLAN and switch port interface on

Assign ip address to cisco switch / Assign ip address to vlan

configure ip address to cisco switch This video covers how to assign ip address to vlan or how to assign ip address to

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Configure IP Addresses With Telnet Access Step 6. Configure a Network Management IP Address (or Management

Solved: VLAN's and IP addresses

But some VLAN's have ip addresses assigned to the and some do not. I know how this is configured but dont know

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