

Configure IP address for core switch



Overview

Configure IP Address Settings on a Switch using the CLI This article provides instructions on how to configure the IP address settings of your switch throu.

Key Takeaways

To configure an IP address on a core switch, assign it to a management VLAN or Layer 3 interface using the CLI, then activate the interface and save the configuration. Step 1: Access the Switch CLI

Connect to the switch using a console cable or via SSH if remote access is already enabled. Launch a terminal emulator (e.g., PuTTY) and log in with your credentials. Enter privileged EXEC mode by typing enable and providing the enable password .

Step 2: Enter Global Configuration Mode

From privileged mode, enter global configuration mode using:

configure terminal

This allows you to make changes to interfaces and VLANs .

Step 3: Configure the Management VLAN or Interface

For a Layer 2 switch, assign the IP address to the management VLAN (commonly VLAN 1):

```
interface vlan 1 ip address 192.168.1.10 255.255.255.0 no shutdown
```

For a Layer 3 (multilayer) switch, you can assign an IP directly to a routed interface:

```
interface gigabitEthernet0/1
no switchport
ip address 192.168.1.10 255.255.255.0
no shutdown
```

Replace 192.168.1.10 and the subnet mask with your network-specific values .

Step 4: Set the Default Gateway

To allow the switch to communicate with devices outside its subnet, configure the default gateway:

```
ip default-gateway 192.168.1.1
```

This is typically the IP address of the router connected to the core switch .

Step 5: Verify the Configuration

Check the IP assignment and interface status:

```
show ip interface brief
ping 192.168.1.1
```

Ensure the interface is up/up and can reach the gateway .

Step 6: Save the Configuration

To make the changes persistent across reboots, save the configuration:

```
write memory
```

or

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

This ensures the IP address remains configured after a restart .

Additional Considerations

- If the switch is part of a stack, it is recommended to use a static IP to prevent connectivity issues during a stack switchover .
- Ensure the IP address does not conflict with other devices on the network.
- For security, consider limiting management access to specific MAC addresses or using ACLs on the management VLAN . By following these steps, your core switch will have a properly configured IP address for management and Layer 3 routing purposes.

Article Content

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Configure IPv4 Static Routes on an SMB Switch via CLI

This article provides instructions on how to configure IPv4 static routes on the switch through the Command Line

Assigning an Ip address to a switch

They have access-list running all over the switch. Now on the core switch they have this configuration. access-list 100

Cisco Router and Switch Configuration Step by Step

Welcome to our detailed step-by-step guide on how to configure Cisco routers and

How to configure a Cisco Layer3 Switch-InterVLAN Routing Without

For example, some switch models that support layer 3 routing are the 3550, 3750, 3560 etc. On a Layer3-capable switch, the port

Assign IP address to switch, router and PC in packet tracer

Router (config-if)#no shutdown Configure PC IP address in the Cisco packet tracer To configure the IP address on a PC, laptop, or

Huawei switch configuration step by step

How to configure the Huawei Switch configuration Learn the configure Huawei switch

Configuring the Core Switch

Configuring the Core Switch Context In this scenario, IP addresses of the interfaces connecting the core switch to the

Assign an IP address based on switch port

Short: I want DHCP server to assign a preconfigured IP address based on a port (on a switch, ideally) a device is

Support

When core switch 1 fails or the upstream link of core switch 1 fails, core switch 2 takes over to process intranet packets. # On core

Configure Network Settings on Windows with PowerShell: IP Address,

You can use these cmdlets to configure networking on both Windows 10/11 and Windows Server (or Server Core

Configure the Internet Protocol (IP) Address Settings on Cisco

This article provides instructions on how to configure the IP address settings on the Cisco Business series switches

Core Switch Default Gateway

If your core switch is doing the routing, you don't need static routes on the DHCP server. When you define an IP

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Guide to Basic Switch Configuration | Auvik

Switch configuration on your own can seem like a daunting task. Use this handy guide to get your network switch up

Basic Switch Configuration Guide with Examples

The ip default-gateway command is necessary if the switch needs to communicate via IP with other devices in other

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

How to configure a port on our core switch for a server

Solved: I am looking for some guidance on how to configure a server port on our core switch. For some options, I was

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