

Configure several IPs for the core switch

Article Overview

To configure multiple IP addresses on a core switch, assign each IP to a separate VLAN interface (SVI) or Layer 3 interface, enabling routing between subnets.

Step 1: Ensure Layer 3 Capability

Core switches must support Layer 3 functionality. By default, most switch ports operate at Layer 2. To assign IP addresses, you need to configure Switched Virtual Interfaces (SVIs) or convert physical interfaces to Layer 3 interfaces .

Step 2: Create VLANs

Each IP address typically corresponds to a separate subnet, so you need a VLAN for each subnet:

```
CodeCopySwitch> enableSwitch# configure terminalSwitch(config)# vlan 10Switch(config-vlan)# name
SalesSwitch(config-vlan)#      exitSwitch(config)#      vlan      20Switch(config-vlan)#      name
MarketingSwitch(config-vlan)# exit
```

Assign physical ports to the VLANs as access ports or configure trunk ports for inter-switch connections .

Step 3: Configure IP Addresses on VLAN Interfaces

Once VLANs are created, assign IP addresses to each VLAN interface:

```
CodeCopySwitch(config)#      interface      vlan      10Switch(config-if)#      ip      address      192.168.10.1
255.255.255.0Switch(config-if)#      no      shutdownSwitch(config-if)#      exitSwitch(config)#      interface      vlan
20Switch(config-if)#      ip      address      192.168.20.1      255.255.255.0Switch(config-if)#      no
shutdownSwitch(config-if)# exit
```

Each VLAN interface now acts as a gateway for its subnet .

Step 4: Enable Routing Between VLANs

If the switch supports IP routing, enable it to allow communication between VLANs:

```
CodeCopySwitch(config)# ip routing
```

This allows devices in different VLANs to communicate through the core switch.

Step 5: Configure DHCP (Optional)

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If the switch will provide DHCP for multiple VLANs, create DHCP pools for each subnet:

```
CodeCopySwitch(config)# ip dhcp pool SalesSwitch(dhcp-config)# network 192.168.10.0
255.255.255.0Switch(dhcp-config)# default-router 192.168.10.1Switch(dhcp-config)# exitSwitch(config)# ip
dhcp pool MarketingSwitch(dhcp-config)# network 192.168.20.0 255.255.255.0Switch(dhcp-config)#
default-router 192.168.20.1Switch(dhcp-config)# exit
```

This ensures devices in each VLAN receive the correct IP configuration .

Step 6: Verify Configuration

Use the following commands to confirm IP assignments and VLAN status:

```
CodeCopySwitch# show vlan briefSwitch# show ip interface briefSwitch# ping 192.168.10.1Switch# ping
192.168.20.1
```

This verifies that each VLAN interface is up and reachable. By following these steps, you can configure multiple IP addresses on a core switch, enabling it to route traffic between multiple subnets and manage different network segments efficiently .

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

Any switch that has multiple IP addresses is almost definitely a layer 3 switch. That allows it to both switch traffic at layer 2 and route

This guide will walk you through the essential tasks needed to configure a Cisco switch, from initial setup to more

IP Helper (in configuration mode: ip helper-address) is functioning on network layer, because it forwards dhcp clients

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

Multiprotocol Label Switching Multiprotocol Label Switching (MPLS) is a routing technique in telecommunications networks that

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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

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switch to the

In this scenario, IP addresses of the interfaces connecting the core switch to the BRASs and firewalls and OSPF need

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This tutorial explains how to configure and run the DHCP service on a Cisco switch to support multiple VLANs.

Some of our application servers (A) need public IP addresses and hence the need for these many addresses. Those

Setting up a managed IP switch Generally, using a managed IP switch allows you to configure a wide range of

If you're looking to configure a switch for the first time, this post is for you. Learn step-by-step configuration commands

Whether the configuration deployment of a switch is completed all at once or done in phases, the basic switch settings must first be

Assuming I have 4 Layer switches configure with several VLANs on each switch and each switch is configured with IP

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