

Configure port IPs for the core switch



AI Overview

Core switch ports can be configured as Layer 2 access ports with VLANs or Layer 3 routed ports with IP addresses, depending on the network design and device connectivity.

Layer 2 Port Configuration For ports connecting to servers or end devices, configure them as access ports within a specific VLAN. Assign the VLAN to the port and ensure a gateway IP is available via an SVI (Switched Virtual Interface) on the core switch. Example steps on a Cisco switch:

```
Enter interface configuration:
CodeCopyinterface GigabitEthernet0/1 switchport mode access
switchport access vlan 105 spanning-tree portfast
The SVI for VLAN 105 provides the IP gateway for devices in that VLAN:
CodeCopyinterface Vlan105 ip address 192.168.105.1 255.255.255.0 no shutdown
```

This setup allows multiple hosts in the VLAN to communicate and access routed networks through the SVI.

Layer 3 Port Configuration For uplinks to routers, firewalls, or other core switches, configure routed ports with a single IP address:

```
CodeCopyinterface GigabitEthernet0/2 no switchport ip address 10.0.0.1 255.255.255.252 no shutdown
```

This is suitable for point-to-point links where the port itself acts as a Layer 3 interface.

VLAN and VPN Instance Considerations Create interconnection VLANs for links to BRASs, firewalls, or other core devices. Bind VLANIF interfaces to a VPN instance if network segmentation is required, isolating public and private routes.

Example for Huawei switches:

```
CodeCopyvlan 10 interface Vlanif10 ip address 192.168.10.1 255.255.255.0
vpn-instance vpn1
```

Routing and Connectivity Configure OSPF or static routes on the core switch to ensure connectivity between VLANs and egress networks. Assign a default route pointing to the egress router for external traffic. Ensure VLAN interfaces have IP addresses for inter-VLAN routing.

Best Practices Use spanning-tree portfast on access ports to reduce downtime during link flaps. Avoid using VLAN 1 for management; create a dedicated management VLAN. For trunk ports connecting swi...

Article Content

Accessing the Switch

2.4 Configure the Switch's IP Address and Default Gateway If you want to access the switch via a specified port (hereafter referred to as the access port), you can

Configuring the Core Switch

In this scenario, IP addresses of the interfaces connecting the core switch to the BRASs and firewalls and OSPF need to be configured on the core switch, so as to implement connectivity

Configure IP Address for Interface in Cisco Switches

To configure an IP Address on a switch interface, first, we must change the interface from a layer 2 interface to a layer 3 interface. A point to note is that to provide an IP Address to a switch

Create and configure a virtual switch with Hyper-V

Learn how to create and configure a virtual switch for use by the Hyper-V host and guest virtual machines.

COM02_Cisco_R01_9

Connect your cable into that specific port open. Open Tera-Term application. Go to "setup-->serial port" and do the settings as shown below. If the core switch is installed, it will be topmost switch in the

Configure Windows Server Failover Clustering

Set up Windows Server 2022/2025 failover clustering with quorum, shared storage, highly available roles, CAU, and PowerShell management.

VMware Cloud Foundation (VCF) Blog - Home Page

VMware Cloud Foundation (VCF) - The simplest path to hybrid cloud that delivers consistent, secure and agile cloud infrastructure. Read more.

Configure endpoints for Kestrel web server | Microsoft Learn

Learn about configuring endpoints with Kestrel, the cross-platform web server for ASP Core.

Resource Center

Resource Center Discover the Resource Center, your centralized source for collateral, guides, and resources to help you optimize the use of VMware

Install Windows Admin Center on Windows Server 2025

Method 2: PowerShell Installation (Server Core or Headless) For Server Core installations or automated deployments, install Windows Admin

8 Steps to configure your network switch

Learn how to setup a network switch with ease. Switches allow you to send and receive information efficiently and securely. Get setup today!

Cisco Secure Firewall Advanced Threat Protection

Cisco's Secure Firewall hardware and software options enhance your security to block more threats and swiftly respond to breaches.

ECS5520 Series CLI Reference Guide

This guide describes the switch's command line interface (CLI). For more detailed information on the switch's key features or information about the web browser management interface refer to the Web

Switch Port VLAN Assignment (Trunk & Access Ports)

Switch Port VLAN Assignment (Trunk & Access Ports) Configuring VLANs (Virtual Local Area Networks) on switch ports is essential for network segmentation and

NETGEAR GS724TP Review: 26-Port PoE Smart Switch

Key Takeaways 26-port PoE+ smart switch with 24 Gigabit ports and 2 SFP uplinks, ideal for small businesses and home labs. 190 W total PoE+ budget supports mixed IP phones, cameras,

HMS Networks

HMS creates products that enable industrial equipment to communicate and share information with software and systems. In short: Hardware Meets Software™.

Cisco CLI Switch Command Cheat Sheet for 2025

Here's the Cisco CLI Switch Command cheat sheet you need for configuring and managing Cisco switches The Cisco Command-Line Interface (CLI) is a core tool used by network

Configure Cisco IP switches for cluster interconnect and ...

You must configure the Cisco IP switches for use as the cluster interconnect and for backend MetroCluster IP connectivity.

Networking overview | Docker Docs

Published ports When you create or run a container using docker create or docker run, all ports of containers on bridge networks are accessible from the Docker

Creating a Base Configuration for a Cisco IOS Switch: A Step-by-Step

By following these steps, you can ensure that your switch is properly configured with a hostname, passwords for security, IP addressing, remote access, and VLANs.

Introduction to Core Switch Configuration

A switch that functions as part of a router and operates at the third layer of the OSI network standard model, the network layer. The most important purpose of the layer 3 switch is to speed up the data

How to Configure a Cisco Switch in 10 Steps

The process of configuring a Cisco switch involves several key steps, including setting up basic switch parameters, VLANs (Virtual Local Area Networks), port configurations, spanning tree

r/fortinet on Reddit: FortiSwitch

"Trunk" in fortiswitch refers to LACP/LAG. You should not configure a trunk unless you have a port-channel on the cisco side. You should set native VLAN to 1 and add the tagged VLANs as allowed

How to Configure a Cisco Switch (step by step)

Let's configure two access ports, G0/0 on VLAN 10 and G0/1 on VLAN 20, on the CORE switch. Remember these VLANs were already created, so we're now assigning physical interfaces to

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.sky-connect.co.za>

Email: info@sky-connect.co.za

Phone: +44 20 7946 0958

Address: 1 Cornhill, London EC3V 3ND, United Kingdom

This document is for informational purposes only. Specifications subject to change without notice.

