

Configure VLAN interconnection on the core switch



Article Overview

VLAN interconnection between core switches is best achieved by creating VLANs on Layer 3-capable core switches, configuring SVIs for each VLAN, and enabling inter-VLAN routing to allow communication across VLANs at line speed.

Step 1: Plan VLANs and Subnets

Before configuration, define the VLANs and assign each a unique subnet. For example, VLAN 10 for Engineering (192.168.10.0/24) and VLAN 20 for Finance (192.168.20.0/24). Ensure that each VLAN corresponds to a single IP subnet to simplify routing and management .

Step 2: Configure VLANs on Core Switches

On each core switch, create the VLANs and assign the relevant interfaces:

```
CodeCopySwitch(config)# vlan 10Switch(config-vlan)# name  
EngineeringSwitch(config)# vlan 20Switch(config-vlan)# name Finance
```

Add the interfaces connecting to other switches or devices to the appropriate VLANs. For trunk links between core switches, configure the ports as trunk and allow all necessary VLANs:

```
CodeCopySwitch(config)# interface GigabitEthernet1/0/1Switch(config-if)# switchport  
mode trunkSwitch(config-if)# switchport trunk allowed vlan 10,20
```

Ensure the native VLAN is consistent across trunks to avoid VLAN mismatches .

Step 3: Configure SVIs (Switch Virtual Interfaces)

Article Content

Configuring VLANs on Cisco Switches

Master configuring VLANs on Cisco switches. Learn to configure Access and Trunk ports, and Native VLANs and Allowed VLAN

Configure VLAN

Configure VLAN Virtual Local Area Network (VLAN) is a logical grouping that segments a network into smaller broadcast domains.

How to configure a Cisco Layer3 Switch-InterVLAN Routing Without

Moreover, you can configure also a Switch Virtual Interface (SVI) with the " interface vlan " command which acts as a virtual layer 3

Design and Configuration Guide: Best Practices for Virtual Port ...

Configure or reuse an ISL (Inter Switch Link) L2 trunk port-channel between the vPC peer devices. Configure the port-channel as a

How to Configure VLAN on Cisco Switch: Step-by-Step ...

Learn how to configure VLAN on Cisco switch step-by-step. Covers VLAN creation, port assignment, trunk configuration, best

How to Configure VLAN and Inter-VLAN Routing on Cisco Switches

Understanding VLANs and inter-VLAN routing is crucial for designing an efficient and secure network infrastructure. This step-by

Do I have to configure new VLANs on the core switch?

If the access/distribution switches connect the user vlans to the core using routed links then you need to configure the

How to Configure a Cisco Switch (step by step)

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

Configuring Interconnection Interfaces and Routes for the Core Switch ...

In this example, Internet access traffic of users passes through the BRAS, and then reaches the egress network of the firewall

VLAN Configuration Guide

Ensure that you delete the vlan.dat file along with the configuration files before you reset the switch configuration using write erase

How to Configure VLAN on a Cisco Switch: Step-by-Step Guide

If your goal is to configure VLANs correctly on a Cisco switch, focus on the full workflow rather than just one command.

InterVLAN routing using Layer 3 switch | NetworkAcademy.IO

In this lesson, we will learn to configure a multilayer switch (also called Layer 3 switch) to perform inter-VLAN routing, which was

How to Configure VLAN and Inter-VLAN Routing on Cisco Switches

Learn how to configure VLAN and inter-VLAN routing on Cisco switches using CLI. Step-by-step VLAN setup, trunking, router-on-a

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