

Inter-VLAN communication between core switches



Overview

Similar to intra-VLAN communication described in Intra-VLAN Communication, inter-VLAN communication goes through three phases: packet transmission from the source host, Ethernet switching in a switch, and adding and removing VLAN tags during the exchange between. Similar to intra-VLAN communication described in Intra-VLAN Communication, inter-VLAN communication goes through three phases: packet transmission from the source host, Ethernet switching in a switch, and adding and removing VLAN tags during the exchange between. Inter-VLAN routing is a network configuration technique that allows communication between devices on different VLANs (Virtual Local Area Networks) within the same network. VLANs are commonly used to segment a network, improving performance and security by isolating traffic within each VLAN. However, this document describes how to configure Inter-VLAN routing with Cisco Catalyst series switches. Cisco recommends that you have knowledge of these topics: The information in this document is based on these software and hardware versions: The information in this document was created from the devices. Normally, Routers are used to divide the broadcast domain and switches (at layer 2) operate in a single broadcast domain but switches can also divide the broadcast domain by using the concept of VLAN (Virtual LAN). VLAN is the logical grouping of devices in the same or different broadcast domains. When we want to send packets from one VLAN to another, we need routing. Without routing, VLANs are isolated networks that can't communicate with each other. Routers or multilayer switches (Layer three switches) both allow us to route packets. This document describes the configuration of Ethernet services, including configuring link aggregation, VLANs, Voice VLAN, VLAN mapping, QinQ, GVRP, MAC table, STP/RSTP/MSTP, SEP, and so on. Multilayer switches can forward frames based on M...

Article Content

Dec 09, 2025

Inter VLAN Routing by Layer 3 Switch

As the single broadcast domain is divided into multiple broadcast domains, Routers or layer 3 switches are used for

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Inter-VLAN Routing Configuration Guide 2026

What is Inter-VLAN Routing? In simple words, inter-VLAN routing is the process of forwarding network packets from

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CCNA Training » InterVLAN Routing Tutorial

And on hosts just assign IP addresses and default gateways (to the corresponding interface VLANs) -> hosts in different VLANs can

Aug 19, 2025

Inter VLAN Routing Explained for Network Pros.

Inter-VLAN routing allows devices in different VLANs to communicate with each other using

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Inter-VLAN Communication on a Multilayer Switch Through a Switch ...

Inter-VLAN Communication on a Multilayer Switch Through a Switch Virtual Interface
NOTE Rather than using an external router to

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VLANs and Inter-VLAN Routing: Everything You Need to Know When ...

What is Inter-VLAN Routing? Inter-VLAN Routing is the process that allows communication between these different VLANs. Simply

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Inter-VLAN Routing Configuration 2026 Guide

Learn how to configure inter-VLAN routing for efficient and secure communication between VLANs in a step-by-step

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Configure Inter-VLAN Routing with Catalyst Switches

By implementing Inter-VLAN routing, organizations can maintain the benefits of VLAN segmentation while still

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Understanding VLANs and Inter-VLAN Routing

Remember the last time you tried explaining your network to a non-tech colleague and

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Inter-VLAN Routing Configuration

Inter-VLAN routing is a network configuration technique that allows communication between devices on different

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Cisco Layer 3 Switch InterVLAN Routing Configuration

Below is a diagram that we can use as a reference in understanding how to configure Inter-VLAN routing and test inter-switch

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Configure Inter-VLAN Routing with Catalyst Switches

This document describes how to configure Inter VLAN routing with Cisco Catalyst series switches.

Nov 29, 2025

Routing Between VLANs Overview [Networking Software (IOS & NX

Communication Between VLANs Relaying Function Native VLAN PVST+ Ingress and Egress Rules Integrated Routing and Bridging

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InterVLAN Routing

In this lesson you will learn about the different options there are for routing between VLANs: Router on a stick, SVI interface or L3

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Inter-VLAN Routing with a Layer 3 Switch: Practical Design ...

That second part is where many teams hesitate. They can create VLAN 10 and VLAN 20, but traffic between them

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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

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Inter-VLAN Routing using Layer 3 Switches (4.3)

In this sample chapter from Switching, Routing, and Wireless Essentials Companion Guide (CCNAv7) for Cisco Networking

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inter-vlan communication by core switch

enable "IP forwarding" in the switch. on the DHCP server, define scope for VLAN 10 and 20 and set the "default router"

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Inter-VLAN Routing | LogicMonitor

Learn why inter-VLAN routing is required, understand the different models used for

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Configure Inter VLAN Routing with Multiple Switches

So your core switch is essentially taking the place of the router for routing between the different VLANs. Your core

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Inter-VLAN Communication

Similar to intra-VLAN communication described in Intra-VLAN Communication, inter-VLAN communication goes through three

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Inter-VLAN Routing using Layer 3 Switches (4.3)

Inter-VLAN routing using a Layer 3 switch is simpler to configure than the router-on-a-stick method. After the configuration is

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InterVLAN Routing: The Ultimate Guide

InterVLAN routing enables communication between different VLANs within a network. It allows access to resources in other VLANs

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InterVLAN Routing

All hosts participating in that VLAN must also use the same IP addressing scheme to ensure communication between them. When

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Inter-VLAN Routing with SVIs: Best Practices and

Conclusion Inter-VLAN routing with Switched Virtual Interfaces (SVIs) provides a powerful,

Aug 18, 2025

Inter-VLAN Routing: RoAS, SVIs & What Breaks First

Learn inter-VLAN routing with step-by-step Cisco configs for router-on-a-stick and Layer 3 SVIs. Includes HSRP

Oct 15, 2025

Inter-VLAN Routing: Connect VLAN-to-VLAN Communication

Inter-VLAN routing is the way computers and devices in different VLANs (Virtual Local Area Networks) talk to each

Contact Us

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