

Interconnection between different VLANs on the core switch



Overview

In order to establish inter-VLAN communication (i. e routing between hosts belonging to different VLANs) you need to have a Layer 3 routing engine in the network. Virtual Local Area Network (VLAN) helps break a large network into smaller, manageable parts, improving security and efficiency. Instead of buying five physical switches for five departments, you buy one switch and create five VLANs. Multilayer switches can forward frames based on MAC address information and can also forward IP packets based on IP. Inter-VLAN routing using the router-on-a-stick method is simple to implement for a small- to medium-sized organization. Cisco NX-OS (Nexus Operating System) is the software which is powering this new generation of switches and has many similarities (regarding command structure etc) with the traditional IOS software which has been in production for decades. I have prepared this article to showcase a simple yet.



Article Content

Jan 22, 2026

Best Practices for Inter-VLAN Routing in CISCO

In this discussion, let's explore the best ways to set up Inter-VLAN Routing on Cisco devices, using simple explanations and clear examples to help configure network efficiently.

Jul 16, 2025

Configuring VLAN Routing Using Engage

In this guide we will be going over how to configure multiple VLANs with routing so that each VLAN has Internet access. We will be using a M4300-8X8F as the core switch with two M4250-8G2FX-PoE+

Apr 10, 2026

lsw_rtng_vlan_ovw.fm

VLAN can be thought of as a broadcast domain that exists within a defined set of switches. A VLAN consists of a number of end systems, either hosts or network equipment (such as bridges and

Aug 21, 2025

Configure Inter-VLAN Routing with Catalyst Switches

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

Oct 04, 2025

where would a logical vlan be configured on the Core switch, or

Configuring local Vlans I have learned to configure the vlan interfaces on the core switch- and then configure the access switch with the desired vlan and assign the switch port to that vlan! If I

Oct 14, 2025

InterVLAN routing using Layer 3 switch

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

Sep 30, 2025

How to Configure L2 and L3 InterVlan Routing on Cisco

In order to establish inter-VLAN communication (i.e routing between hosts belonging to different VLANs) you need to have a Layer 3 routing engine in the network.

Jun 01, 2026

Inter-VLAN Routing: Configuration Examples

Learn why inter-VLAN routing is required, understand the different models used for implementing it, and follow examples to configure it.

Jun 25, 2026

Configure Inter-VLAN Routing with Catalyst Switches

In this diagram, the Catalyst 3850 switch provides the Inter-VLAN routing function between the different VLANs. The Catalyst 3850 switch can act

Dec 31, 2025

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-step guide clarifies these concepts, their practical applications, and

Feb 19, 2026

Inter-VLAN Routing Configuration

In this guide, we will walk you through all three methods. This method of inter-VLAN routing relies on a router with multiple physical interfaces. Each

Jan 27, 2026

How to Configure VLANs and SVIs on Cisco Switches | NSC

Understanding how to configure VLANs (Virtual Local Area Networks) and SVIs (Switched Virtual Interfaces) on Cisco switches is crucial for network engineers aiming to optimize security and

Nov 25, 2025

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 guide.

Jun 14, 2026

CONFIGURATION GUIDE: Routing Between VLANs

We can configure this routing between VLANs in almost every Cisco layer 2 and 3 switches, like 2960, 3560 etc. Catalyst 6500 and 6000 Series that also run Cisco

Oct 30, 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 redundancy, DHCP relay, ACLs, and troubleshooting commands.

Apr 04, 2026

How to span vlans across core layer in core/distribution/access campus ...

If you don't extend vlans then you would use L3 routed links between each distribution pair and the core switches. What i was referring to was where you do need to extend vlans.

Jan 24, 2026

InterVLAN routing using Layer 3 switch

SVI (Switched Virtual Interface) is a virtual Layer 3 interface for a VLAN. An SVI acts like a router interface, providing an IP gateway for devices in that VLAN. To use

Aug 27, 2025

Inter VLAN Routing Explained for Network Pros.

Inter-VLAN routing allows devices in different VLANs to communicate with each other using a router or Layer 3 switch.

Sep 29, 2025

Inter-VLAN Routing: Connect VLAN-to-VLAN

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

Jun 03, 2026

Routing Between VLANs Overview

Implementation of VLANs also improves scalability, particularly in LAN environments that support broadcast- or multicast-intensive protocols and applications that

Oct 05, 2025

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

Once ip routing is enabled and SVIs are up, the switch builds a routing table with connected routes for each VLAN subnet. That's what enables traffic to move between VLANs at wire

Jul 07, 2025

How to configure two Core switches in a network with intervlan routing ?

Dear All, Hi Friends, i have two 3750 switches. I configured intervlan routing between three vlans which are vlan11,vlan12, and vlan13 in Core Switch1. These three vlans are communicate each

Oct 23, 2025

Inter-VLAN Routing using Layer 3 Switches (4.3)

In this section, you configure inter-VLAN routing using Layer 3 switches. Modern enterprise networks rarely use router-on-a-stick because it does not scale easily

Jul 16, 2025

Configuring a new core switch with VLANs

I have a core switch that I've purchased second hand, it's foundry switch. I have created 4 VLANs (VLAN1 to VLAN4). I have created a VLAN interface for each VLAN and assigned it an IP in

Jan 16, 2026

VLAN AND INTER VLAN ROUTING. This report covers

The switch method of inter VLAN routing involves using a multilayer switch to route traffic between different VLANs. This method is also known as

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