

Configuring Routers on Core Layer 3 Switches



Overview

To start using layer 3 routing, navigate to the Switching > Configure > Routing & DHCP page. Under L3 routing tab, click Configure - which takes you to the. Layer 3 interfaces forward packets to another device using static or dynamic routing protocols. A routed interface is a physical port that. In this sample chapter from Switching, Routing, and Wireless Essentials Companion Guide (CCNAV7) for Cisco Networking Academy students, you will learn how to troubleshoot common inter-VLAN configuration issues. In this section, you configure inter-VLAN routing using Layer 3 switches. Modern. The latest Cisco Catalyst Switches are equipped with the Enhanced Multilayer Image (EMI), which can work as a Layer 3 device with full routing capabilities, also known as a multi-layer switch (MLS). Afterwards, devices living within separate VLANs can.

Article Content

Oct 18, 2025

Inter-VLAN Routing using Layer 3 Switches (4.3)

Layer 3 Switch Inter-VLAN Routing Layer 3 Switch Scenario Layer 3 Switch Configuration Layer 3 Switch Inter-VLAN Routing Verification Routing on A Layer 3 Switch Routing Scenario on A Layer 3 Switch Routing Configuration on A Layer 3 Switch If VLANs are to be reachable by other Layer 3 devices, they must be advertised using static or dynamic routing. To enable routing on a Layer 3 switch, a routed port must be configured. A routed port is created on a Layer 3 switch by disabling the switchport feature on a Layer 2 port that is connected to another Layer 3 device. Specifically, configu... See more on ciscopress Study CCNA

Cisco Layer 3 Switch InterVLAN Routing Configuration

A simple approach in understanding how to configure Cisco Layer 3 switch interVLAN routing to enable routing capabilities among them.

Feb 16, 2026

Basic & Advanced Catalyst Layer 3 Switch Configuration: Creating ...

Configuration commands covered in this article are applicable to all Cisco Catalyst Layer-3 switches. Cisco's portfolio of catalyst switches is designed to meet any network requirement (in ...

Oct 12, 2025

MS Layer 3 Switching and Routing

To start using layer 3 routing, navigate to the Switching > Configure > Routing & DHCP page. Alternatively, you could go to Switching > Monitor > Switches and click on the switch to be ...

Dec 09, 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 to meet requirements. In these very ...

Sep 15, 2025

How to configure a Cisco Layer 3 Switch-InterVLAN Routing Without Router

The above feature means that you can implement Layer 3 functionality in your network without using a regular router. If you don't have a Layer3 switch available, you can also configure InterVLAN routing ...

Jan 03, 2026

Configuring Layer 3 Interfaces

VLAN interface or a switch virtual interface (SVI) is a virtual routed interface that connects a VLAN on the device to the Layer 3 router engine on the same device.

Feb 03, 2026

Cisco Layer 3 Switch InterVLAN Routing Configuration

A simple approach in understanding how to configure Cisco Layer 3 switch interVLAN routing to enable routing capabilities among them.

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Basic & Advanced Catalyst Layer 3 Switch ...

Configuration commands covered in this article are applicable to all Cisco Catalyst Layer-3 switches. Cisco's portfolio of catalyst switches is designed ...

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How to configure a Cisco Layer 3 Switch-InterVLAN ...

The above feature means that you can implement Layer 3 functionality in your network without using a regular router. If you don't have a Layer3 switch ...

Jun 22, 2026

configuring_layer3_interface

Follow these steps to create a Layer 3 interface. You can create a VLAN interface, a loopback interface, a routed port or a port-channel interface according to your needs.

Dec 02, 2025

4.3.8 Packet Tracer - Configure Layer 3 Switching and Inter-VLAN ...

Capabilities of a multilayer switch include the ability to route from one VLAN to another using multiple switched virtual interfaces (SVIs), as well as the ability to convert a Layer 2 switchport ...

Apr 05, 2026

Inter VLAN Routing by Layer 3 Switch

In the Router on the stick method, both switch and router are needed but while using layer 3 switches, a single switch will perform inter-VLAN routing as well as the layer 2 functions (Vlan), ...

Sep 17, 2025

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 previously done using an actual router.

Contact Us

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