

Huawei Layer 3 Switch Accessing Layer 2



Overview

To switch between Layer 2 and Layer 3 modes on multiple interfaces, run the portswitch batch command in the system view. IP addresses can be assigned to Ethernet interfaces in Layer 3 mode. An interface is not removed from. Skills of Huawei layer 2 interface to layer 3 Based on the hardware structure of the interface board, the interface on some forms of equipment can only be used as a layer-2 Ethernet interface, and the interface on some forms of equipment can only be used as a layer-3 Ethernet interface, while some. A Layer-2 switch works at the Data Link layer or Layer 2 of the OSI reference model. MAC Address Table: A Layer-2 switch will keep a MAC address table that identifies the MAC. In this lesson we will learn Layer 3 VLAN Routing with VLAN Routing Huawei Configuration Example. Because Layer 3 switch can achieve this routing facility. Here, instead of subinterface, “ VLANIF ” is created for each. VLAN routing can be implemented through a Layer 2 switch and a router, or through a Layer 3 switch. Let. “Multi Protocol Label Switching” is a mechanism in high-performance telecommunications networks that directs data from a network node to the next node based on shortest path labels (Labels) instead of network addresses (Routes), avoiding queries complexes in a routing table.



Article Content

Jun 23, 2026

Huawei Switch S7703 (12 x 10GE SFP+, 24 x 10/100/1000BASE-T)

Der Huawei S7703 ist ein leistungsstarker, modular aufgebauter Layer-2/Layer-3-Switch für mittlere bis grosse Unternehmensnetzwerke. Durch seinen modularen Aufbau mit 3 Service-Slots, redundanten

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Layer 2 Switching

Layer 2 Switching A Layer 2 device works at the second layer of the OSI model and forwards data packets based on media access control (MAC) addresses. Ports on a Layer 2 device send and

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L3 Interfaces in L2 MPLS Tunnels on Huawei NE

Using the concept of "Virtual-Ethernet" in Huawei, we created two virtual interfaces that are properly "linked" where each of them belongs to a "side" being "layer 2"

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Method of Configuring both Layer 2 and Layer 3 Multicast on S Series ...

On the network shown in Figure 1-1, the access switch (SwitchA) is not only a Layer 2 switch, as Layer 3 multicast is also configured on its" VLANIF interface. SwitchA performs Layer 3 multicast forwarding

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VLAN Routing with Layer 3 Switch on Huawei * IpCisco

VLAN Routing with Huawei Layer 3 Switches. Here we will focus How to Configure VLAN Routing on Huawei devices with a configuration example.

Oct 01, 2025

Example for Configuring a Layer 3 Switch to Work with a Router for ...

Example for Configuring a Layer 3 Switch to Work with a Router for Internet Access
Layer 3 Switch Layer 3 switches provide the routing function, which indicates a network-layer function in the OSI

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Step 1: Use Direct Connect or VPN to Communicate at Layer 3

An enterprise switch establishes a Layer 2 network based on a Layer 3 network between an on-premises data center and a VPC. This section describes how to create a Direct Connect or

Jul 31, 2025

Example for Switching an Interface to Layer 3 Mode

S300, S500, S2700, S5700, and S6700 V200R022C00 Configuration Guide - Interface Management Example for Switching an Interface to Layer 3 Mode Networking Requirements In

Dec 15, 2025

Understanding the Differences Between Layer 2 and

Examining both addresses, the Layer 3 switch will either forward the packet like a Layer 2 switch, or route it according to a routing protocol such as RIP, OSPF, or

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Difference between layer-2 and layer-3 switches

Layer 2 switches operate at the data link layer, forwarding data based on MAC addresses, while layer 3 switches route traffic using IP addresses.

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Example for Configuring a Layer 2 Switch to Work with a Router for ...

Layer 2 Switch Layer 2 switches perform only Layer 2 forwarding instead of Layer 3 forwarding. That is, Layer 2 switches support only Layer 2 switches instead of Layer 3 features such as routing. Layer 2

Mar 28, 2026

VLAN Routing with Layer 2 Switch and Router on Huawei

VLAN Routing with Huawei Layer 2 Switches. Here we will focus How to Configure VLAN Routing on Huawei devices with a configuration example.

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Best Data Center Switching Reviews 2026

The software enables centralized control over Layer 2 and Layer 3 switching capabilities, supporting features such as VLAN segmentation, access control, and traffic management.

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Huawei Layer 3 Switch: Routing Revolution? Your Network

That disjointed chaos? It's what happens when your backbone relies solely on Layer 2 switches. They shuttle data like a postal worker who only recognizes street names—not zip ...

Nov 12, 2025

How to switch layer 2 and layer 3 ports of Huawei layer 3 ...

After entering the interface mode, the interface is in layer 2 status by default, use the command undo portswitch to enable the three-tier mode. Check whether the interface status is in

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Switching an Interface Between Layer 2 and Layer 3 Modes

To switch between Layer 2 and Layer 3 modes on multiple interfaces, run the portswitch batch command in the system view. IP addresses can be assigned to Ethernet interfaces in Layer 3 mode.

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VLAN Routing with Layer 3 Switch on Huawei

In this lesson we will learn Layer 3 VLAN Routing with VLAN Routing Huawei Configuration Example. We do not need any other Layer 3 device for VLAN Routing with Layer 3 Switch.

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Layer 2 vs Layer 3 Switch: Key Differences and Use

Layer 2 vs Layer 3 switch explained. Learn MAC vs IP forwarding, inter-VLAN routing, performance differences, and when to choose each switch

May 17, 2026

Huawei ensp-vlan routing-Layer 3 switching

VLAN routing can be implemented through a Layer 2 switch and a router, or through a Layer 3 switch. Limitations of VLAN: VLAN isolates the Layer 2 broadcast domain and strictly isolates any Layer 2

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