

Huawei switches connected to other network segments



Article Overview

Huawei switches can interconnect different network segments using VLANs combined with Layer 3 routing, either via static routes or dynamic routing protocols.

VLAN Segmentation

To connect devices across different network segments, you first need to create VLANs on the switches. Each VLAN represents a separate broadcast domain, isolating traffic for security and performance purposes. Hosts within the same VLAN can communicate directly, but communication between VLANs requires routing. Huawei switches support IEEE 802.1Q VLAN tagging, which allows multiple VLANs to traverse the same physical link while keeping traffic logically separated .

Layer 2 vs Layer 3 Switches

- Layer 2 switches forward traffic based on MAC addresses and cannot route between VLANs. To enable inter-VLAN communication, a router or Layer 3 switch is required .
- Layer 3 switches combine switching and routing capabilities. They can assign IP addresses to VLAN interfaces (VLANIF) and route traffic between VLANs directly, eliminating the need for an external router .

Routing Between Network Segments

There are two main approaches to enable communication between VLANs or subnet...

Article Content

Feb 28, 2026

Can Multiple Network Segments Be Configured in a VLAN?

Hosts on multiple network segments in the same VLAN can communicate after the primary and secondary IP addresses for a

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Example for Using Advanced ACLs to Restrict Mutual Access

Example for Using Advanced ACLs to Restrict Mutual Access Between Network Segments Networking Requirements As shown in

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Basic Concepts of SEP

Basic Concepts of SEP SEP Network In Figure 17-2, LSW1 through LSW5 constitute a ring and are dual-homed to an upper-layer or

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huawei switch cheat sheet · GitHub

Huawei Switch Discovery Tool: This tool can be used to discover Huawei network switches on a network. It can also

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Example for Configuring Communication Between Different Network ...

In addition to configuring an IP address for a VLANIF interface, you need to configure a static route or a dynamic routing protocol

Aug 18, 2025

Guide for Replacement and Interoperation Between Huawei Switches

This document provides typical configuration examples for interoperation between Huawei switches and mainstream IP phones,

May 24, 2026

Example for Configuring Communication Between Different Network ...

Example for Configuring Communication Between Different Network Segments Through Static Routes Overview In addition to

Jan 15, 2026

Example for Configuring Static Routes for Interworking Between ...

Networking Requirements On the network shown in Figure 3-9, hosts on different network segments are connected through several

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Huawei three -layer switches configure different network segments to ...

Under normal circumstances, the three -layer switch is not directly connected to the terminal, which is too wasteful. You can connect

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Can Switches Interconnect Different Network Segments? (With

Layer 2 switches work at the data link layer and forward data frames based on MAC addresses, and they must use

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Huawei Switch Configuration Step by Step: What's the Real Game

Configuring a Huawei switch isn't about ticking boxes—it's about tailoring a solution that integrates seamlessly with your existing

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How to Connect Different Network Segments

This guide explores three methods (Layer 3 devices/dual-NIC hosts/firewalls) to connect 192.168.1.0/24 and

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Example for Using ACLs to Restrict Mutual Access Between Network ...

Networking Requirements As shown in Figure 12-6, the departments of an enterprise are connected through the

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

Networking Requirements In Figure 1-3, a company has multiple departments that belong to different network segments, and each

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networking

We have a existing network setup where we have two D-Link switches,connected to each other. IPs are manually assigned in the

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Example for Configuring VLANIF Interfaces to Implement Communication

Hosts on the two network segments are required to access the Internet through the Switch and communicate. Figure 5-31

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Multi-Campus/Branch Interconnection Networking Solution Design Guide ...

Multi-Campus/Branch Interconnection Networking Solution Design Guide In large-scale networking with branch chains or branch

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Huawei switches are configured with different VLANs to communicate

One router, two switches, four PCs, two or two connected to the same switch, respectively configured with different network

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Huawei Switch VLAN, Trunk, VLANIF Configuration Tutorial

Learn to configure VLANs, trunks, and VLANIFs on Huawei switches. Step-by-step tutorial with examples for network configuration.

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Example for Configuring a Traffic Policy to Limit Access Between ...

Configure a traffic policy on the Switch, bind the traffic policy to the traffic classifier and traffic behavior, and apply the

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Creating a Layer 2 Connection_Enterprise Switch-Huawei Cloud

Each enterprise switch supports a maximum of six Layer 2 connections. The Layer 2 connections of an enterprise

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S600-E Series Switches Typical Configuration Examples

Networking Requirements As shown in Figure 8-1, hosts on different network segments are connected using several switches. Every

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Can switches interconnect different network segments? (with ...

In network communication, the interconnection between different network segments is crucial. As one of the core

Dec 22, 2025

What Is Virtual Local Area Network (VLAN)?

Interface Types and VLAN Tag Processing Hosts in the same VLAN may be connected to different switches, and a

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Typical VLAN Configuration

Networking Requirements In Figure 3-80, the switch of an enterprise connects to many users, and users accessing the same service

Contact Us

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