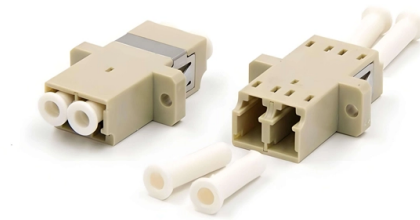


Inter-VLAN communication of Huawei core switches



Article Overview

Inter-VLAN communication on Huawei core switches is achieved using Layer 3 interfaces such as VLANIF or sub-interfaces, enabling routing between VLANs.

Overview

VLANs logically segment a physical LAN into multiple broadcast domains, isolating traffic for security and performance. Hosts within the same VLAN can communicate directly at Layer 2, but hosts in different VLANs require Layer 3 routing to exchange data, as broadcast packets are confined to their VLANs. Huawei core switches support inter-VLAN communication primarily through:

- VLANIF Interfaces - Layer 3 logical interfaces that act as gateways for each VLAN.
- Sub-interfaces (Dot1Q termination) - Allow a single physical interface to route traffic for multiple VLANs.

VLANIF Interface Method

- Purpose: Each VLANIF interface serves as the default gateway for its VLAN.
- Configuration Steps:
 - Create VLANs on the switch.
 - Assign access ports to the respective VLANs.
 - Create a VLANIF interface for each VLAN.
 - Assign an IP address to each VLANIF interface.
 - Enable routing on the switch (if not already enabled)....

Article Content

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

01-04 VLAN CONFIGURATION

Switches, routers, and ACs can receive and send both tagged and untagged frames. Voice terminals and APs can receive and send

Example for Configuring VLANIF Interfaces to Implement Inter-VLAN ...

Example for Configuring VLANIF Interfaces to Implement Inter-VLAN Communication Networking Requirements Different user hosts

Inter-VLAN Communication

Inter-VLAN Communication Through a Single Device (Using VLANIF Interfaces) In Figure 4-5, Host1 and Host2 connect to DeviceA,

Configuring Inter-VLAN Communication

Configuring Inter-VLAN Communication Context After VLANs are assigned, users in the same VLAN can communication with each

01-04 VLAN CONFIGURATION

Assign VLANs on Switch_1 and Switch_2, configure Switch_1 and Switch_2 to transparently transmit VLAN packets to the Layer 3

Intra-VLAN Communication

If Switch_1 or Switch_2 is a Layer 3 switch, hosts can communicate through VLANIF interfaces. The principles are similar to those in

Inter-VLAN Communication

This document describes the configuration of Ethernet services, including configuring link aggregation, VLANs, Voice VLAN, VLAN

Inter-VLAN Communication

As shown in Figure 4-20, VLAN 2, VLAN 3, and VLAN 4 are VLANs across different switches. In such a situation, you can configure

12 Inter-VLAN Communication

When a sub-interface is used to implement inter-VLAN communication, how does the switch interface connected to the router need

Configuring Inter-VLAN Communication

This document describes the configuration of Ethernet services, including configuring link aggregation, VLANs, Voice VLAN, VLAN

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