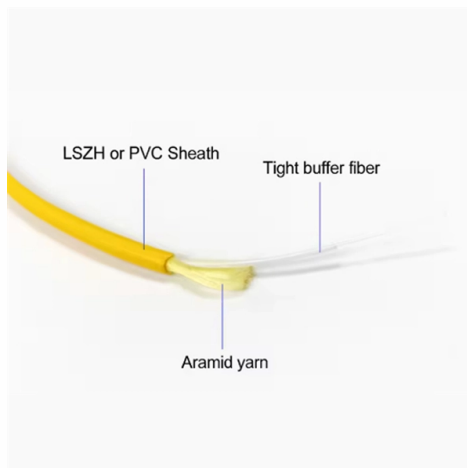


Huijue Core Switch VLAN Interconnection



Overview

Configuring VLANs on Huijue Core Switch Configuring a Huawei switch to assign an IP address to VLAN 1 and binding multiple ports to it can seem challenging.

Key Takeaways

On a Huijue core switch, VLANs are configured by creating VLANs, assigning interfaces to them, and optionally configuring SVI interfaces for Layer 3 routing. VLAN Creation and Interface Assignment

To configure VLANs on a Huijue core switch, start by creating the VLANs and adding the relevant interfaces:

- Create VLANs: Use the command to define VLAN IDs for each department or service segment.
- Assign interfaces: Add physical interfaces to the VLANs to connect access switches, firewalls, or other devices.
- Interconnection VLANs: For links between core switches and BRAS or firewalls, create dedicated interconnection VLANs to isolate traffic and ensure proper routing . SVI (Switch Virtual Interface) for Layer 3 Routing

For routing between VLANs, configure an SVI:

- Create VLANIF interface: This logical interface represents the VLAN at Layer 3.



- Bind to VPN instance: If using VPN instances for traffic isolation, bind the VLANIF interface to the appropriate VPN instance (e.g., vpn1) to separate public and private network routes .
 - Assign IP address: Configure an IP address on the VLANIF interface to serve as the default gateway for devices in that VLAN.
 - Static routing: Add static routes on the core switch to enable communication between VLANs or to external networks. If multiple core switches exist, configure return routes on peer devices to ensure proper traffic flow .
- Management and Controller Integration

If the core switch is managed by a controller like iMaster NCE-Campus:

- Configure VLAN and IP: Assign a VLAN and IP address for the switch to communicate with the controller.
- Enable NETCONF: Activate NETCONF over SSH Call Home mode to allow the controller to manage the switch.
- Static route to controller: Ensure a static route exists from the core switch to the controller's southbound IP address .

Considerations

- Layer 2 vs Layer 3 core: If the core switch operates at Layer 2, VLANs must be configured on both access/distribution and core switches. For Layer 3 cores, VLANs may only need configuration on access/distribution switches if routed links are used .
- DHCP and security: Core switches can act as DHCP servers for VLANs, and features like DHCP snooping and IPSG can enhance security .
- High availability: Consider link aggregation and spanning tree configuration to prevent loops and ensure redundancy . By following these steps, you can effectively configure VLANs on a Huijue core switch, enable inter-VLAN routing, and integrate the switch into a managed campus network.

Article Content

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Configuring Switches to Ensure Network Interconnection

As key nodes on a network, switches use VLANs to isolate different services. You need to configure the interfaces of the switches

Configuring the Core Switch

Configure interfaces for interconnecting the core switch with firewalls. # Create interconnection VLANs on the core

Viewing VLANs on Huijue Core Switch

This command displays the VLAN switching entry name, source interface number, source VLAN ID, destination interface number,

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01-06 VLAN SWITCH CONFIGURATION

When receiving VLAN-tagged frames matching VLAN Switch entries, a switching node forwards the frames to the interfaces

01-04 VLAN CONFIGURATION

Configure a VLANIF interface for each user VLAN and interconnected VLANs on Switch_1 and Switch_2, and configure VLANIF

Configuring the Core Switches to Be Managed by the Controller

To manage a core switch on iMaster NCE-Campus using commands, you need to connect the core switch to iMaster NCE-Campus

Huawei Switch Configuration Guide | PDF | Network Switch

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A Huijue aggregation switch consolidates traffic from multiple access switches and forwards it to core switches, ensuring high

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Typical VLAN Configuration

S300, S500, S2700, S3700, S5700, S6700, S7700, and S9700 Series Switches Typical Configuration Examples (V200) This

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Best Practices for Inter-VLAN Routing in CISCO

Consider Private VLANs for additional isolation between devices. Choosing the right Inter-VLAN routing method depends on your

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Configuring Inter-VLAN Communication

If some users in different VLANs need to communicate, configure inter-VLAN communication. A VLANIF interface is a Layer 3 logical

Configure Inter VLAN Routing with Multiple Switches

With multiple switches generally you still set one switch (your core or distribution) switch as the switch operating at

Configuring the Core Switch to Communicate with the NMS

The detailed planning is as follows: The management switch (Switch) functions as the gateway of the components in the network

Inter VLAN Routing Explained for Network Pros.

Inter-VLAN routing allows devices in different VLANs to communicate with each other using

IP Address and VLAN Planning and Design

VLANs are classified into service VLANs, management VLANs, and interconnection VLANs. Typically, VLANs are divided based on

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Huawei Technical Support

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Recommended Networking for Interconnection of Large and Midsized ...

When a Layer 3 VLAN or VXLAN campus network is connected to the SRv6 interconnection network, the user gateway is deployed

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

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Configuring the Core Switch to Be Managed by the Controller (Switch ...

Configure a static route from the core switch destined for iMaster NCE-Campus. Configure the core switch to

Inter-VLAN Communication

Inter-VLAN Communication Through the Same Switch As shown in Figure 5-14, Host_1 (source host) and Host_2 (destination host)

Configuring Multi-Level M-LAG Interconnection

As shown in Figure 2-33, multi-level M-LAG interconnection ensures reliability, improves the link use efficiency, and expands the

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

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