

Huijue Core Switch Routing Directions



Overview

The Huijue Group's Optical-storage-charging application scenario is a typical application of microgrid energy storage.

Key Takeaways

Huijue (Ruijie) core switches handle routing by configuring interfaces, VLANs, and routing protocols to direct traffic efficiently across the network. Core Switch Role and Routing Overview

A core switch serves as the central hub in a network, connecting multiple subnets, VLANs, and network areas. It provides high-performance forwarding, supports Layer 3 routing protocols like OSPF and BGP, and ensures traffic is directed along optimal paths based on routing tables and policies. Core switches also integrate with firewalls, BRAS devices, and VPN instances to manage traffic from different sources.

Interface and VLAN Configuration

- Uplink and Downlink Interfaces: Configure Eth-Trunk or aggregated interfaces to connect to aggregation switches or external networks.
- VLAN Assignment: Assign VLANs to interfaces to segment traffic logically. This allows separation of education network traffic, ISP traffic, or other service types.
- Layer 2 Communication: Ensure VLANs are properly configured on both core and aggregation switches to maintain Layer 2 connectivity.

Routing Configuration

- Default Routes: Set default routes to direct traffic toward the Internet or upstream routers. This ensures that any traffic without a specific route is forwarded correctly.

- **Return Routes:** Configure return routes for each user group or VLAN to ensure bidirectional traffic flow, especially when multiple BRAS or ISP connections exist .
- **Routing Protocols:** Enable OSPF or BGP on the core switch to dynamically manage routing paths and optimize network performance .
- **VPN Instances:** Use VPN instances to isolate traffic types (e.g., education network vs ISP traffic) and route them to the appropriate egress interfaces .

Traffic Management and Security

- **QoS and Traffic Prioritization:** Assign priorities to critical services to ensure reliable performance .
- **Access Control:** Implement ACLs, port security, and MAC address binding to prevent unauthorized access .
- **Integration with Firewalls:** Route traffic through firewalls for inspection and security enforcement .

Practical Example

For a campus network:

- Configure the core switch as the gateway for wired and wireless users.
- Assign VLANs for different user groups and configure DHCP on the core switch to provide IP addresses .
- Set up Eth-Trunk interfaces for uplinks to aggregation switches and configure routing to BRAS devices or ISPs .
- Apply routing policies to ensure traffic from each VLAN reaches the correct egress interface and returns properly . By following these steps, Huijue core switches can efficiently manage traffic, maintain high network reliability, and provide secure, segmented routing for large-scale networks .

Article Content

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Note: The default gateway of a layer 3 switch is provided by static routing. A device can also learn network routing

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routing at the distributionCore switch

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IP Routing Basics

A local core routing table stores routes of different routing protocols. If the number of routes in the local core routing table reaches the

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Leading ESS Manufacturer&Solution Provider

Founded in 2002, Huijue Group is a high-tech service provider integrating intelligent energy storage

Routing and Switching

Campus Gigabit Ethernet and 10 Gigabit Ethernet in campus core; 10/100/1000, Gigabit Ethernet to desktop Cisco Catalyst 6500

Shanghai huijue network communication equipment Co., Ltd.

About us HJ Network (Shanghai Huijue Network Communication Equipment Co.,Ltd) is the leading supplier, manufacturer and

Shanghai Huijue Technologies Group Co., Ltd.

Shanghai Huijue Network Communication Co., Ltd. is a contract manufacturer of fiber optic communication equipment based in

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Shanghai Huijue Network Communication Equipment Co., Ltd. (Huijue Group) was established in 2002 as a high-tech service

Huijue Core Switch SVI with Static Routing

Demystifying Inter-VLAN Routing with Layer 3 Switch SVI Interfaces: If there are additional networks beyond the connected VLANs,

Configuring a Routing Policy

The customer requires that the two branches communicate through the core network of the headquarters. A routing

Huijue Core Switch IP

Leading Network Server Cabinet, Integrated Outdoor Huijue Net cabinet adopts modular design, simple installation, easy expansion,

IOPscience

We would like to show you a description here but the site won't allow us.

Huijue Core Switch Network Port Division

In this example, a CSS of core switches functions as the gateway for wired and wireless users on the entire network and is

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