Huawei core switch used as a router

Overview

Native AC Solution: Core Switches Function as the Gateway for Wired In this example, a CSS of core switches functions as the gateway for wired and wireless.

Key Takeaways

Huawei core switches and routers provide high-performance, scalable, and intelligent networking solutions for enterprise and campus networks.

Core Switch Overview

Huawei core switches, such as the CloudEngine series, serve as the backbone of enterprise and campus networks, handling high-volume data forwarding and ensuring network reliability. They support CSS (Cluster Switching System) for high availability, stacking, and uplink/downlink Eth-Trunk interfaces to increase bandwidth and redundancy. Core switches also integrate native AC functions to manage access points and unify wired and wireless traffic, enabling seamless convergence across the network.

Router Integration

Huawei routers, particularly the AR series, act as the WAN gateway for campus networks, connecting internal networks to external networks or the internet. Core switches are configured to interconnect with AR routers using VLAN interfaces and static routes, ensuring smooth intranet-to-extranet communication and proper routing of user services. This combination allows centralized management, traffic prioritization, and high network efficiency.

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Key Features and Benefits

High Performance and Scalability: Core switches handle large-scale data forwarding and support high-density connections for enterprise and data center environments. Automation and Intelligence: Integration with Huawei's iMaster NCE enables automation, traffic intelligence, and zero-touch configuration. Seamless Wired and Wireless Convergence: Core switches manage APs and wireless traffic, providing consistent user experience across wired and wireless networks.

Redundancy and Reliability: Features like stacking, MAD (Multiple Active Detection), and Eth-Trunk interfaces ensure high availability and fault tolerance. Enterprise Applications: Huawei's router-switch solutions support SD-WAN, VLAN isolation, high-density Wi-Fi, and secure data transmission, improving network efficiency and reducing operational costs.

Deployment Scenarios

Campus Networks: Core switches act as the gateway for wired and wireless users, while aggregation switches provide device-level backup and increased interface density. Data Centers: CloudEngine switches offer VXLAN-based virtualization, high-speed connectivity, and simplified network management for large-scale data centers. Enterprise Networks: Huawei routers and switches together provide end-to-end visibility, centralized configuration, and support for thousands of concurrent devices with minimal downtime.

Conclusion

Huawei core switches and routers form a robust, intelligent, and scalable network infrastructure suitable for enterprises, campuses, and data centers. By combining high-performance switching with intelligent routing, these solutions ensure reliable connectivity, simplified management, and seamless integration of wired and wireless networks, making them ideal for modern digital transformation initiatives.

Article Content

Native AC Solution: Core Switches Function as the Gateway for Wired

In this example, a CSS of core switches functions as the gateway for wired and wireless users on the entire network and is responsible for routing and forwarding of user services on the entire network.

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Network Switches | Huawei Enterprise

Huawei Ethernet Switches Turbocharge your enterprise network with high-performance, high-availability for resilient services and simplified management.

SME Network Solution Typical Configuration Examples

"Gateway + Core Switch + Access Switch + AP + AR180" Networking: Huawei eKit Cloud Management "Gateway + Core Switch + Access Switch + WAC + AP" Networking: Local Entire Network

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