

Article Overview

Core switches can be managed graphically using network management platforms like iMaster NCE-Campus, which provide GUI-based dashboards for configuration, monitoring, and service delivery.

Overview of Core Switch Management

Core switches are high-performance devices at the backbone of a network, responsible for routing and switching large volumes of data between subnets, VLANs, and network areas . While they can be managed via command-line interfaces (CLI), graphical management tools simplify administration by providing visual dashboards, real-time monitoring, and configuration wizards.

Using Network Management Platforms

Platforms like Huawei iMaster NCE-Campus allow administrators to manage core switches graphically:

- o Device Onboarding: Add core switches to the network site through the GUI, which automatically establishes management channels .
- o VLAN and IP Configuration: Configure VLANs and IP addresses for core switches directly from the dashboard.
- o Routing and Connectivity: Set static routes, NAT, and ensure connectivity between the core switch and the management platform.
- o NETCONF over SSH: Enable secure communication between the core switch and the controller for configuration and monitoring.
- o User Management: Create SSH users, configure PKI certificates, and manage authorization types through the GUI interface .

Key Features Accessible via GUI

Graphical management platforms provide access to essential core switch features:

- o VLAN and QoS Management: Visual tools allow administrators to segment networks and prioritize traffic for critical services .
- o Redundancy and High Availability: Monitor redundant power supplies, modules, and routing protocols like HSRP or VRRP to ensure seamless failover .
- o Security Configuration: Apply ACLs, port security, and MAC address binding through intuitive interfaces .
- o Traffic Monitoring and Analytics: Real-time dashboards display throughput, latency, and port utilization, helping prevent bottlenecks and optimize performance .

Benefits of Graphical Management

- o Ease of Use: Reduces reliance on complex CLI commands.
- o Centralized Control: Manage multiple core switches and connected aggregation/access layers from a single interface.
- o Error Reduction: Visual configuration reduces misconfigurations and improves network reliability.
- o Scalability: Supports large enterprise networks with multiple core switches and VLANs.

Conclusion

Graphical management of core switches streamlines network administration by providing visual dashboards, configuration wizards, and monitoring tools. Platforms like iMaster NCE-Campus enable administrators to manage VLANs, QoS, redundancy, and security efficiently, ensuring high performance and reliability in enterprise networks .

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aggregation

As network engineers and administrators, we mostly focus on managing and configuring hardware devices such as routers, switches,

What is a core switch and how it works? This article builds the basics of this kind of switch for the ones who don't

The chapter is broken down into two main sections, Integrated Services Design Configurations and Services Switch

Department 2 Department 3 Department 4 etc Distribution Switchs

By taking these considerations into account, you can make an informed decision when selecting a core switch that

Unlike access switches, which connect directly to end-user devices, the core switch focuses on aggregating and

I will be swapping out an old core switch, 3750 G for a new one a 3850 G. The Team Lead want's me to put together a

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