

Enterprise core switch with firewall



AI Overview

Enterprise core switches can deliver high-speed routing while firewalls enforce security, with modern designs combining both for performance and protection. Core Switch Options Enterprise core switches are designed for high-throughput, low-latency environments and often support 10G, 40G, or 100G interfaces. Examples include: Ubiquiti EF-Core: A 100 Gbps cloud gateway capable of 79 Gbps IDS/IPS throughput, supporting 22,500+ clients and 5,000+ concurrent IPsec tunnels, ideal for integrating firewall functionality at the core level. FortiSwitch Data Center Switches: High-speed switches suitable for top-of-rack or core deployments, supporting aggregation with firewalls and managed through FortiEdge Cloud for centralized lifecycle management. Cisco Catalyst/Nexus, HPE Aruba, Juniper Networks: Widely deployed in enterprise and service provider networks, offering hardware-based Layer 3 routing and VLAN segmentation for east-west traffic. Design Considerations for Firewall Integration Routing Placement: Decide whether inter-VLAN routing occurs on the core switch or the firewall. Routing on the core switch provides high-speed forwarding and reduces firewall bottlenecks, while routing on the firewall enhances security visibility and policy enforcement. VLAN and VRF Configuration: Use VRF-lite or VLAN segmentation to isolate traffic. Each VRF routed on the core switch typically requires a logical transit link to the firewall for default routing. Trunk ports (802.1Q) can carry multiple VLANs to firewalls, and HA firewall pairs should have independent connections or port-channels for redundancy. Security Enforcement: Firewalls should primarily act as security boundaries, performing inspection, threat prevention, and access control, while the core switch handles high-volume forwarding. Large ACLs on the core switch may require careful TCAM planning to avoid performance degradation. High Availability and Management: Core switches and firewalls should support redundancy and failover, with management VLANs or out-o...

Article Content

7 Best Enterprise Core Switches for 2026 That Power

Stay ahead in network infrastructure with the top enterprise core switches for 2026 that promise unmatched performance and future-proofing.

Network Switches

Cisco network switches deliver performance, flexibility, and security. Cisco switches are scalable and cost-efficient and meet the demands of hybrid work.

The 9 Best Enterprise Network Switches for 2026

Generally speaking, enterprise-level switches are rack-mounted. When used as a backbone switch, it can support over 500 information points.

Routing on firewall or core switches? : r/networking

In my research I'm getting mixed suggestions - Some say that core switches are for routing, when others say that core switches have to be as fast as possible and have minimal tasks dedicated to them.

Ethernet Switches

With 10 or 40 Gigabit Ethernet access ports and a high throughput backbone, FortiSwitch Data Center Switches are ideal for top-of-rack server or firewall-aggregation applications. These high-speed

Cisco Switch Selector

Quickly identify the right Cisco switch for your needs, whether you're looking for a new switch or upgrading an old one for an enterprise LAN, a data center,

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Fortinet Licensing Guide (2025): ATP vs. UTP vs. Enterprise

As an in-depth companion to our high-level Network Firewall & Switch Licensing: A Complete Guide (2025), this article deconstructs the three core pillars—FortiCare, FortiGuard, and

Configuring the Core Switch

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

When to Route on Core Switches vs Next-Gen Firewalls in Enterprise

Learn when to use core switch routing vs next-generation firewall routing in enterprise networks. Explore performance, security zones, VRF design, and hardware platform selection.

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Enterprise Firewall Core

Enterprise-class 100 Gbps Cloud Gateway delivering 79 Gbps IDS/IPS, 22,500+ client capacity, and 5,000+ concurrent IPsec tunnels.

32-Port 100Gb Core Network Switch Enterprise SONiC

SONiC NOS-based 32x100Gb QSFP28, L3 ToR/spine/aggregation/core switch for enterprise and data center.

Recommendation for a connection between Core Switch and Firewall

Solved: Hello, I am asking myself what others recommend for the connection between core switch and Firewall. The setup is the following: Two Catalyst 9300 Core switches in stack.

Introducing Enterprise Firewall Core

Discover the Enterprise Firewall Core with 24 Neoverse N2 cores, 40 Gbps SSL Inspection, advanced threat protection, SD-WAN, and license-free

Core layer | FortiSwitch 7.6.0 | Fortinet Document Library

The core layer is critical, yet very simple to design, and allows for network evolution quite easily. Point-to-point links are used between each element, and Fortinet recommends using the MLAG and dual

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News and forums on computers, IT, science, media and politics. Price comparison of hardware and software as well as downloads at Heise Medien.

Understanding Enterprise Network Infrastructure: From Perimeter to

A complete guide to enterprise network infrastructure—covering DMZ, firewalls, core networks, and hybrid cloud integration. Includes best practices, CLI examples, and design tables for

Compare Nexus 9000 Series Switches

This table compares features of the Cisco Nexus 9504, 9508, and 9516 Switches.

Network Switches

Fixed core and aggregation switches for AI-ready networks with integrated security and up to 400G uplinks.

Contact Us

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