

How to configure the number of access switches



AI Overview

The number of access switches in a network is configured by planning the network topology, assigning VLANs, and using stacking or virtual management to centrally control multiple switches. Planning and Deployment Before configuring switches, determine the number of access switches based on network size, port requirements, and redundancy needs. Calculate the total number of devices and ports required, considering future growth. For large deployments, consider stacking or virtual stacking technologies, which allow multiple switches to be managed as a single logical unit, simplifying configuration and monitoring.

Physical and Logical Configuration

Connect and Power On Switches: Verify hardware integrity, connect cables, and ensure indicator lights are functioning.

Console Access: Use a console cable or SSH/Telnet to access each switch individually for initial configuration.

Assign Hostnames and Management IPs: Set unique hostnames and IP addresses for management VLANs to identify each switch in the network.

Configure VLANs and Ports: Assign access ports to VLANs, configure trunk ports for inter-switch connections, and enable spanning tree protocol (STP) to prevent loops.

Enable Virtual Stacking (if supported): For Meraki or similar switches, virtual stacking allows centralized management of hundreds of switches without physical stacking, making it easier to scale the number of access switches.

Best Practices

Limit per-network switch count: For Meraki MS switches, keep fewer than 400 switches per network to ensure dashboard performance.

Port count considerations: Avoid exceeding 8,000 total switch ports in a single network to maintain reliable management and monitoring.

Save configurations: Always save running configurations to startup memory to prevent loss after reboot.

Security and Access Control: Configure VTY lines, enable...

Article Content

How to Configure a Cisco Switch in 10 Steps

In this step-by-step guide, we walk you through configuring Cisco switches and look at some FAQs. Configuring a Cisco switch is a fundamental task for network administrators, as it lays

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In this comprehensive guide, we'll explore these three methodologies, providing insights on how they work, and help you understand the best approach for different situations. Switch

Switch Ports

To configure an aggregate, simply choose the ports to be aggregated by checking their respective boxes (under Switching > Monitor > Switch Ports page) and then select the Aggregate

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How to Connect Multiple Ethernet Switches - FS

This article will explore three common connection methods: switch cascading, switch stacking, and switch clustering, and will help you determine the best approach based on network size, performance

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