

Use network cable to connect access switch to aggregation switch



AI Overview

You can connect an access switch to an aggregation switch using Ethernet or fiber cables, optionally combining multiple links with link aggregation for higher bandwidth and redundancy. Choosing the CableFor standard connections, Cat5e or Cat6 Ethernet cables can be used for 1 Gbps links, while Cat6a or Cat7 may be preferred for 10 Gbps connections. For higher-speed uplinks, especially in enterprise or data center environments, SFP+ or fiber connections are recommended to maximize throughput and reduce latency. Using Link Aggregation To increase bandwidth and provide redundancy, you can configure Link Aggregation (also called LAG, port trunking, or EtherChannel) between the access and aggregation switches. This allows multiple physical ports to act as a single logical link, improving total throughput and providing failover if one link fails. Static LAG: Manually configure the same ports on both switches. Simple but prone to misconfiguration and lacks automatic failover. Dynamic LAG with LACP: Uses the Link Aggregation Control Protocol (802.3ad) to automatically manage the aggregated links, ensuring both ends agree on the configuration and providing automatic failover. Configuration Best Practices Connect the cables from the access switch uplink ports to the aggregation switch ports. If using multiple links, ensure they are configured in the same LAG group. Configure the LAG on both switches, preferably starting from the access switch and then the aggregation switch. Verify connectivity by checking port status LEDs and monitoring traffic to ensure the aggregated link is functioning correctly. Consider VLANs and QoS: Aggregation switches often handle traffic from multiple VLANs and prioritize critical traffic like voice or video, so configure VLAN tagging and QoS policies as needed. Summary Connecting an access switch to an aggregation switch can be done with s...

Article Content

Basics of Computer Networking

A network consists of nodes such as computers, servers, routers, and switches that send or receive data. These nodes are connected through links, which may be wired (cables, optical fiber)

Create and configure a virtual switch with Hyper-V

When you first install the Hyper-V role on Windows Server, you can optionally create a virtual switch at the same time. To learn more about virtual switches, see [Hyper-V Virtual Switch](#). For

Aggregated Ethernet Interfaces Overview | Junos OS

You can configure LAGs to connect a QFX Series product or an EX4600 switch to other switches, like aggregation switches, servers, or routers. This example describes how to configure LAGs to connect

Link Aggregation: Static vs Dynamic, LACP, and MLAG Configuration

This article provides a comprehensive explanation of link aggregation — covering LACP, static vs dynamic link aggregation, and MLAG (Link Aggregation Plus) — along with real

Switching

The article explains how to set up Link Aggregation (LAG) on a switch, detailing the differences between Static LAG and LACP (Link Aggregation Control Protocol).

LAN Topologies

Use HPE Aruba Networking CX switches with sufficient ports of appropriate speeds to service the full bandwidth demands of the campus aggregation layer. A 4:1 oversubscription ratio is

Link Aggregation Switches: A Guide to LACP, LAG, and Throughput

Use Ethernet or fiber cable to connect the ports that you added to the LAG on each device. Verify that the port LED for each connected port on each NETGEAR switch is blinking green.

RouterOS

RouterOS Documentation This webpage contains the official RouterOS user manual. RouterOS is the operating system of MikroTik devices. Documentation applies for the latest stable

HPE Aruba Networking CX switches

HPE Aruba Networking CX 5420 Switch Series Layer 3 modular chassis with half-width slot granularity, MACsec capability and high-power PoE switches for access, core and aggregation deployments.

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Aggregation Switch

An aggregation switch refers to a type of switch used to connect multiple ToR switches to a core switch/router in a cloud data center network. It enables high-bandwidth aggregation ports to be

What is link aggregation and how do I set it up in Insight?

Link aggregation lets you combine multiple Ethernet links into a single logical link between two network devices. The most common combinations involve connecting a switch to another switch,

Link Aggregation, LAG, LACP and MLAG in 2026: Design, Best

Network-Switch can help you pick the right switches, design the right topology, and validate your link aggregation strategy so it works the way you expect, not just in the lab-but in production.

Cisco Networking for Service Providers

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Network Devices

A switch is a high-speed networking device that connects devices (computers, printers, servers) within a Local Area Network (LAN). Unlike hub, switch learns the MAC address of every

How To Set Up Switch Link Aggregation

I'm going to set up Link Aggregation between two gigabit switches: an 8 port Linksys SRW2008; and a 16 port Netgear GS716GT, shown in Figures 1 and 2 below. We covered both switches here a while

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