# Connecting aggregation switches

## Overview

What Is an Aggregation Switch and How to Choose?

Discover the role of aggregation switches. Explore differences between aggregation, access, and core switc.

## Key Takeaways

Connecting an aggregation switch involves linking multiple access switches or devices to it, configuring link aggregation for bandwidth and redundancy, and setting up VLANs for traffic management.Step 1: Understand the Role of the Aggregation Switch

An aggregation switch consolidates traffic from multiple access switches, servers, or wireless access points and forwards it to core switches or routers, improving bandwidth, redundancy, and network management . It typically operates at Layer 2 or Layer 3 and supports protocols like LACP or Static Link Aggregation .

Step 2: Physical Connections
• Identify Ports: Determine which ports on the aggregation switch will connect to access switches, servers, or other devices.

• Use High-Quality Cables: Use CAT6 or better Ethernet cables to avoid bottlenecks .

• Connect Devices: Plug multiple Ethernet cables from your access switches or servers into the designated aggregation ports.
Step 3: Configure Link Aggregation

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Link aggregation combines multiple physical links into a single logical link, increasing bandwidth and providing failover if one link fails .

• Access the Switch Interface: Log in via console, web interface, or network management software.

• Select Ports to Aggregate: Choose the ports you connected for aggregation.

• Enable LACP: Set the mode to active or passive depending on your network design.

• Set LACP Timeout: Adjust the timeout if needed to control link monitoring frequency.

• Apply Configuration: Save and apply the settings to activate the aggregated link.
Step 4: Configure VLANs (Optional but Recommended)

VLANs segment network traffic for better performance and security .

• Navigate to the VLAN configuration page in the switch interface.

• Create VLANs for different traffic types (e.g., voice, video, data).

• Assign each port or aggregated link to the appropriate VLAN.

• Apply and save the configuration.
Step 5: Verify Connectivity and Performance
• Check that all aggregated ports are active and handling traffic.

• Use switch statistics to confirm load balancing across links .

• Test connectivity to core switches and ensure redundancy works by temporarily disconnecting one link.
Step 6: Monitor and Maintain
• Regularly monitor traffic and port status.

• Update firmware and review LACP or VLAN settings as network demands grow.

• Consider redundant aggregation switches for critical networks to minimize downtime . By following these steps, your aggregation switch will efficiently consolidate traffic, provide higher bandwidth, and maintain network reliability.

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## Article Content

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Aggregation Switch

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Everything You Need to Know About Aggregation Switch

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Unifi Switches, Using Link Aggregation

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Understanding Switch Aggregation: A Comprehensive

Defining switch aggregation and its role in network architecture Switch aggregation, also

What are link aggregation and LACP and how can I use

You can also configure more than one LAG on the same switch, or add more than two

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Solved: Link aggregation to 2 core switches

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Hi guys, We''re planning to purchase 2 x WS-C3750G-12S-E core switches and a WS-C2960G-48TC-L access

Link Aggregation and Load Balancing

Configuring link aggregation between MS and Cisco Switches You may want to set up and configure a bonded link

Link aggregation

Link aggregation Link aggregation between a switch and a server In computer networking, link aggregation is the combining

Link Aggregation and Multi-layer switches

1. Use Packet Tracer to put up the topology above. Connect the two multi–layer switches (MLS) with a Gigabit uplink

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

By establishing a Link Aggregation Group (LAG), you can bundle two or more physical ports—such as connecting separate switches

Ubiquiti Aggregation switch connecting to the network

The Aggregation switch works just like any switch, the main difference is the use of SFP+ connections instead of Ethernet, which

Port Aggregation Configurations

Overview of Port Aggregation The following sections provide information about port aggregation, aggregation group, load balance,

UniFi

This guide is going to cover what port aggregation / link aggregation (LAG) is and how to enable and use it within UniFi.

Link_Aggregation_Config_Guide

The Link Aggregation feature when helps connecting two or more physical links between two network devices without

Aggregation Installation Guide

How to install and set up Aggregation; Set up your USW-Aggregation for the first time.

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Link Aggregation on Cisco Switch

Learn how to configure a Cisco Switch Link Aggregation using the command-line, by following this simple step-by-step

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This setup ensures minimal downtime by enabling other switches or servers to connect to both MC-LAG switches at once. For large

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Link Aggregation Group (LAG) is the practical implementation of link aggregation, where multiple physical ports are

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