How to configure a bandwidth aggregation switch

Overview

Need more bandwidth or failover on UniFi switches? What LACP link aggregation does, which devices support it, setup and troubleshooting steps.

Key Takeaways

To configure a bandwidth aggregation switch, use Link Aggregation (LAG) with LACP to combine multiple ports, increasing throughput and providing redundancy.

Understanding Link Aggregation

Link Aggregation (LAG) allows you to combine two or more Ethernet ports into a single logical link, which increases total bandwidth and provides failover if one link fails.

LA

G is commonly used for: Switch-to-switch connections to handle higher traffic loads. Switch-to-client connections for high-performance devices like NAS servers or file servers.

LA

G can be managed using LACP (802. 3ad), which dynamically negotiates aggregation and ensures both ends of the link are correctly configured.

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Step-by-

Step Configuration on UniFi SwitchesVerify Device Support: Ensure your switch and connected devices support LACP.

Recommended Uni

Fi devices include UDM Pro, UDM SE, and USW-Aggregation. Connect Ethernet Cables: Plug two or more Ethernet cables into the ports you plan to aggregate. Use high-quality cables (CAT6 or better) to avoid bottlenecks.

Access Uni

Fi Controller: Open the UniFi Network Controller software and log in. Select the Switch: Navigate to Devices, click on your switch, and go to Ports. Choose Ports for Aggregation: Select sequential ports (e.g., ports 3 and 4).

Non-sequential ports will not work.

Enable LAC

P: Click Edit, select Aggregate, and enable LACP. Assign a friendly name to the Link Aggregation Group (LAG), such as "NAS-Agg". Configure the Connected Device: If connecting to a NAS or server, enable LACP in its network settings to match the switch configuration.

Apply Changes: Click Apply and wait for the controller to update. Verify that both ports are handling traffic using the port statistics. Monitor Performance: Use the UniFi Controller to check traffic distribution and ensure redundancy is functioning correctly.

Best Practices

Start with the furthest switch from the gateway and configure downstream first, then move upstream. Sequential port numbering is required for LAG.

Use LAC

P instead of static LAG to avoid misconfigurations and enable automatic failover. For high-throughput connections, consider SFP+ ports for uplinks between aggregation switches. Keep firmware updated to ensure optimal performance and security.

By following these steps, you can successfully configure a bandwidth aggregation switch, increasing network throughput and providing redundancy for critical devices.

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Article Content

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Need more bandwidth or failover on UniFi switches? What LACP link aggregation does, which devices support it, setup and troubleshooting steps.

How to enable Link Aggregation (LAG) on UniFi Switches

Learn how to use Link Aggregation between UniFi switches or clients to increase bandwidth and redundancy. Everything you need to know

Port Aggregation FAQs

To learn how to configure an MC-LAG setup, see this guide. Find help and support for Ubiquiti products, view online documentation and get the latest downloads.

The Ultimate Guide to Installing and Configuring the Ubiquiti UniFi ...

The Ubiquiti UniFi Switch Aggregation (USW-Aggregation) is a powerful, high-capacity switch, perfect for streamlining and enhancing network performance. This guide will walk you through

How to configure LACP on our Smart/ Managed Switch

We strongly recommend you should firstly configure LAG feature on switch before other functions like VLAN, STP, QoS, GVRP, port attributes, MAC Address Learning mode and other

Configuring Link Aggregation Group and Link Aggregation Control

This chapter describes Link Aggregation Group, Link Aggregation Control Protocol, and manual load balancing. This chapter also describes the configuration procedures.

Configuring Link Aggregation Group (LAG) on a Switch

This document shows you how to configure the load balancing algorithm, LAG management, and LAG settings on a switch. Note: For instructions on how to configure LAG on a

Link Aggregation and Load Balancing

To configure two or more ports, up to eight, as a port aggregate, navigate to Switching > Monitor > Switch ports and select the target ports, then choose "Aggregate".

Link aggregation groups | FortiSwitch 7.6.4 | Fortinet Document Library

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This section provides information on how to configure a link aggregation group (LAG). For LAG control, the FortiSwitch unit supports the industry-standard Link Aggregation Control Protocol (LACP).

Configuring Port Channels

This chapter describes how to configure port channels and to apply and configure the Link Aggregation Control Protocol (LACP) for more efficient use of port channels in the Cisco NX-OS devices. On a

What is an Aggregation Switch? | Features and Practical Benefits

Additionally, the access switch includes user management features like address authentication, user authentication, and user information collection in addition to offering sufficient

What Is LACP? How Does LACP Work?

This chapter defines Link Aggregation Control Protocol (LACP), introduces related concepts, and provides configuration examples. LACP is a basic feature of Huawei data communications products,

Link Aggregation and Load Balancing

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What is Link Aggregation? | Inseego

In contrast, static link aggregation requires manual configuration, which means administrators must set up each connection individually. Benefits of link aggregation Increased bandwidth The primary

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Cisco Catalyst 3750 Series Switches Data Sheet

For mid-sized organizations and enterprise branch offices, the Cisco Catalyst 3750 Series Switches ease deployment of converged applications and provide

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How to Implement Time and Bandwidth Restrictions on Guest WiFi An authoritative technical reference guide on implementing time and bandwidth restrictions on enterprise guest WiFi networks. This guide

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Link Aggregation Control Protocol

The Link Aggregation Control Protocol (LACP) is an IEEE standard protocol that combines multiple physical Ethernet links into a single logical link. This aggregation increases overall

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