

Port aggregation between two switches



AI Overview

Port aggregation combines multiple physical switch ports into a single logical link to increase bandwidth, provide redundancy, and improve network performance between switches.

Overview Port aggregation, also known as link aggregation or LAG (Link Aggregation Group), allows multiple physical ports on switches to operate as a single logical connection. This technique splits traffic across aggregated ports, increasing maximum throughput and ensuring network redundancy. If one link fails, traffic is automatically rerouted through the remaining links, minimizing downtime and maintaining connectivity.

Benefits

- Increased Bandwidth:** Aggregating ports allows higher traffic loads between switches without bottlenecks.
- Redundancy:** Provides failover in case a single link fails, enhancing network reliability.
- Load Balancing:** Traffic is distributed across multiple links, optimizing network performance.
- Scalability:** Useful in enterprise networks with high traffic demands or critical systems.

Protocols and Modes

- LACP (Link Aggregation Control Protocol, 802.3ad):** A dynamic protocol that automatically negotiates aggregation between devices, provides failover, and prevents misconfigurations.
- Static Aggregation:** Requires manual configuration on both ends; does not provide automatic failover and is prone to misconfiguration.
- Active/Passive Modes:** In LACP, active mode initiates negotiation, while passive mode responds to negotiation requests.

Configuration Considerations

- Consistency:** All ports in the aggregation group must have consistent settings, including speed, duplex mode (full duplex only), VLAN configuration, and STP parameters.
- Sequential Ports:** Some switches, like UniFi, require aggregated ports to be sequential in number.
- Switch Compatibility:** Both switches must support the same aggregation protocol, typically LACP.
- Topology Planning:** Proper planning is essential to avoid loops or misconfigurations.
- Upstream/Downstream Configuration:** Changes should start from the most downstream switch and move upstream.

Adva...

Article Content

How to enable Link Aggregation (LAG) on UniFi Switches

Link Aggregation in UniFi allows you to combine two or more ethernet ports into one. This is great when you want to increase the throughput

Port Aggregation: Boosting Throughput and Redundancy in Enterprise ...

Connections to both MC-LAG switches simultaneously for uninterrupted performance. MC-LAG is particularly valuable in large enterprise or data center networks where two switches need

Switch port & link aggregation on 802.3ad standard

LACP – Link aggregation advantages Unlike static port grouping, the use of LACP enables automatic fault detection. In some cases, a link between

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6 Port 2.5G Smart Web Managed Switch, 4 x 2.5G Base-T Ports, 2

Web Managed Switch: This 2.5gb switch is equipped with basic Layer 2 management functions, supports device/port status query and various network configurations, such as Static Link

How To Set Up Switch Link Aggregation

In this article, I'm going to describe how to set up Link Aggregation between two managed switches to provide connectivity, redundancy, and expanded

Port Aggregation FAQs

Port aggregation can increase maximum throughput, and allow for network redundancy. It does this by splitting traffic across multiple ports instead of forcing clients to use a single uplink port on a switch.

Link Aggregation and Load Balancing

Link Aggregation and Load Balancing Last updated Jun 16, 2026 Save as PDF Table of contents Link bonding Load balancing Load sharing Implementation by Cisco Meraki MS Series MX

Link Aggregation: What is it, and How Does it Work?

Only use DT between servers and switches. In all of these cases, it's necessary to interconnect the two switches that will share one end of the bundle.

Chapter18:Link Aggregation Configuration

Chapter 1 Configuring Port Aggregation This chapter describes how to set the port aggregation of the switch.

What are Link Aggregation Groups (LAGs) and how do

Link aggregation lets a switch treat multiple physical links between two endpoints as a single logical link. All the physical links in a Link Aggregation

Aggregated Ethernet Interfaces Overview | Junos OS | Juniper Networks

Aggregating multiple links between physical interfaces creates a single logical point-to-point trunk link or a LAG. The LAG balances traffic across the member links within an aggregated Ethernet bundle and

Cisco Switch Port Aggregation

How to configure an etherchannel link between 2 cisco 2960 switches. The etherchannel allows to combine several physical switch ports into

GWN78XX (P) - Link Aggregation Guide

Overview Link aggregation, also known as port aggregation or NIC teaming, is a technique used in layer 2 and layer 3 network switches to combine multiple physical links into a

Link aggregation

Nortel's split multi-link trunking (SMLT) protocol allows multiple Ethernet links to be split across multiple switches in a stack, preventing any single point of failure and additionally allowing all switches to be

How to create EtherChannel / Link aggregation between two HP switches ...

How to create EtherChannel / Link aggregation between two HP switches - on dissimilar port speed Ask Question Asked 1 year, 10 months ago Modified 1 year, 10 months ago

Cross-Stack EtherChannel on a Catalyst 3750 Switch

This document provides a sample configuration for the configuration of cross-stack EtherChannel on a Cisco Catalyst 3750 Switch that runs Cisco

What Are Link Aggregation, LAG, and LACP?

Link Aggregation Group (LAG) is the practical implementation of link aggregation, where multiple physical ports are combined into a single logical link. This technique is commonly used

UniFi link aggregation: the ultimate guide | UniHosted

Link aggregation, also called port trunking, is the process of combining multiple Ethernet connections into one logical link. It provides higher bandwidth, increased reliability, and load balancing. The idea

Port Aggregation Configurations

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

Understanding Ethernet Port Aggregation: Benefits, Configuration, and ...

In Ethernet port aggregation, multiple physical ports on a switch are grouped together to form a single logical port. This logical port acts as a single high-bandwidth link, providing increased

Understanding Ethernet Port Aggregation: Benefits,

Ethernet port aggregation, also known as link aggregation, is a networking technique that combines multiple physical network ports into a single

How To Set Up Switch Link Aggregation

The value to Link Aggregation is that the two switches will treat multiple ports configured in a Link Aggregate Group (LAG) as a single trunk, providing increased total bandwidth, as well as redundancy.

Setting up VLAN across 2 switches with link aggregation

Edit: Your aggregate port (s) need to be members of all vlans you want to pass between the switches.

How to configure Link Aggregation with NETGEAR

Using the Netgear switch web administration interface to perform link aggregation between two netgear switches by Derek Falberg Step 1: Go to

Configuring Trunk Groups and Dynamic Link Aggregation

Configuring Trunk Groups The Trunk Group feature allows you to manually configure multiple high-speed load-sharing links between two HP Routing Switches or between an HP Routing Switch and a

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