Load balancer can act as an aggregation switch

Overview

This aggregation can be achieved through various technologies, such as LACP (Link Aggregation Control Protocol) or EtherChannel, which provide protocols for load balancing and fault tolerance. Generally speaking, load balancing is a term reserved for Layer 3+ operations. While application load balancers can be used to distribute load across across an array of devices for a particular application or purpose, this article will. Load balancing on aggregated ethernet interfaces reduces network congestion by dividing traffic among multiple interfaces. Link aggregation increases bandwidth. Ethernet port aggregation, also known as link aggregation, is a networking technique that combines multiple physical network ports into a single logical port. By bundling multiple network connections into a single high-bandwidth link, aggregation switches help. Link Aggregation is a technology defined in IEEE 802.

Article Content

What Are Link Aggregation, LAG, and LACP?

What Is LAG and How Does It Work? Link Aggregation Group (LAG) is the practical implementation of link aggregation, where multiple physical ports are combined into a single logical

Load Balancing on Aggregated Ethernet Interfaces

Load balancing on aggregated ethernet interfaces reduces network congestion by dividing traffic among multiple interfaces. When you bundle several physical

Link Aggregation: Static vs Dynamic, LACP, and MLAG

Understand how link aggregation (LACP, MLAG, static vs dynamic) improves bandwidth and redundancy. Learn configuration steps on Cisco and

Interfaces User Guide for Switches

Link Aggregation Group (LAG) You configure a LAG by specifying the link number as a physical device and then associating a set of interfaces (ports) with the link. All the interfaces must have the same

Essential FAQs about Link Aggregation, LAG, and LACP

Link aggregation, LAG, and LACP explained with key benefits, types, differences, and setup tips to improve network speed, balance, and fault tolerance.

Load Balancing Using Link Aggregation

Load balancing can be implemented on a data flow or multiple data flows to relieve the pressure on a single physical link. A data flow is a group of data packets with one or more identical attributes.

What Is an Aggregation Switch and How to Choose?

Their primary role is to aggregate traffic from multiple access switches, reducing the load on core switches. They also support advanced

What is “link aggregation” and how does it benefit your

Load balancing of the connections Also realize that Link Aggregation is a general wired network upgrade, and well worth exploring for the reasons

What is an Aggregation Switch?

The aggregation switch is located in the middle of the network architecture, which is equivalent to a middle-level manager of a company. It

Link Aggregation Explained for Robust Networks

Link Aggregation combines multiple physical links into one logical connection for higher throughput and redundancy.

What is an Aggregation Switch? | Features and Practical Benefits

Conclusion: What is an aggregation switch? In network architecture, they are now extremely important. The technology behind these switches is link aggregation which is the process

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

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 Link Aggregation and Link Aggregation Switch?

Besides, link aggregation load balance enables the processing and communications activity to be distributed across several links in a trunk, thus not overwhelming a single link.

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

What About MC-LAG? MC-LAG (Multi-Chassis Link Aggregation Group) goes beyond standard port aggregation by enabling two switches to act as a single logical unit. Benefits include:

Link Aggregation and Load Balancing

Link Aggregation and Load Balancing Last updated May 13, 2026 Save as PDF Table of contents Link Bonding (a.k.a. teaming, bundling, etc.) Load Balancing Load Sharing Implementation

Link Aggregation Control Protocol

This aggregation increases overall bandwidth and improves network reliability by allowing traffic to be shared across various links, while presenting a

LAG Load Balancing on Cisco 350 and 550 Series

This article explains how Link Aggregation (LAG) load balancing works on Cisco 350 and 550 series switches and how to configure load balancing on

Understanding Ethernet Port Aggregation: Benefits,

Switches that support ethernet port aggregation allow multiple links to be combined into a single aggregated link. This aggregated link acts as a single

What are link aggregation and LACP and how can I use

Linux-based devices, such as NETGEAR ReadyNAS storage devices, often offer several additional types of link aggregation that provide increased fault

Aggregation Router

An ''Aggregation Router'' is a device located in the services aggregation layer of a data center LAN that integrates important network services such as firewalls and server load balancers, allowing them to

What is an Aggregate Switch?

What is an Aggregate Switch? Understanding Centralized Network Management An aggregate switch is a high-capacity network switch that consolidates connections from multiple

What is Link Aggregation? | Inseego

Load balancing Load balancing is another significant benefit of link aggregation. By distributing network traffic across multiple links, the system optimizes network

What is Switch Aggregation, Its Role and Selection Advice

This article wraps up "what is switch aggregation" and suggestions for choosing an aggregation switch. By considering these factors, network administrators can make informed

Link Aggregation: Static vs Dynamic, LACP, and MLAG

This article provides a comprehensive explanation of link aggregation — covering LACP, static vs dynamic link aggregation, and MLAG (Link

Enhance Your Network with a Link Aggregation Switch:

Discover the benefits, configuration, and best practices of using a link aggregation switch to enhance your network. Combine multiple Ethernet links into

Port Aggregation FAQs

MC-LAG (Multi-Chassis Link Aggregation Group) allows two switches to work together as a single logical unit, providing both load balancing and redundancy.

Understanding Ethernet Port Aggregation: Benefits,

In an Ethernet port aggregation setup, the switch acts as a load balancer, evenly distributing the traffic across the aggregated ports. This load

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