

How to aggregate networks using a Layer 3 switch

Overview

Aggregation at layer 3 (network layer) in the OSI model can use round-robin scheduling, hash values computed from fields in the packet header, or a combination of these two methods. Regardless of the layer on which aggregation occurs, it is possible to balance the. The three layers of a traditional three-layer network design are the core layer, aggregation layer, and access layer. Together, these layers can offer consumers a network that is safe, reliable, and affordable. As the physical part of the aggregation layer, aggregation switches typically play a. Switch aggregation, also known as link aggregation or trunking, is a method used in computer networking to combine (aggregate) multiple network connections in parallel. This process, also known as link aggregation or LAG (Link Aggregation Group), is essential for optimizing network performance. How to configure the link aggregation on layer 3 switch and disable spanning tree?

Can show me sample?

for example, 2 ports from switch A to 2 ports of switch B. 07-12-2010 06:56 PM
07-13-2010 04:13 AM Below is the configuration from the switch.



Article Content

Jan 28, 2026

Understanding Switch Aggregation: A Comprehensive Guide

Layer 2 and Layer 3 switches play distinct roles in network aggregation setups, and understanding their differences can help in making informed network design decisions.

Feb 03, 2026

Link aggregation

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How to configure the link aggregation on layer 3 switch?

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Configure an Aggregate Interface Group

An aggregate interface group uses IEEE 802.1AX link aggregation to combine multiple Ethernet interfaces into a single virtual interface that connects the firewall to another network device or firewall.

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How to Aggregate Ports on UniFi Switch

Configuring port aggregation on a UniFi switch is straightforward using the UniFi Network Controller (or UniFi OS Console). The process involves selecting the ports you wish to combine, ...

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Link Aggregation and Load Balancing

Cisco Meraki security appliances use a proprietary algorithm to provide load balancing across two Layer 3 links (if configured). This can be customized to use different ratios and specific rules for outbound ...

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Port Aggregation FAQs – Ubiquiti Help Center

For large networks needing higher resilience and performance, MC-LAG offers a more advanced alternative to standard port aggregation. To learn how to configure an MC-LAG setup, see this guide.

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What Is an Aggregation Switch and How to Choose?

Discover the role of aggregation switches. Explore differences between aggregation, access, and core switches, and choose the right model for your network.

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What is an Aggregate Switch?

The aggregate switch plays a critical role in ensuring network performance and reliability. These switches are placed strategically within the network architecture to reduce bottlenecks, ...

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

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