

VLAN Switch Aggregation Link



AI Overview

Link aggregation combines multiple physical switch ports into a single logical link, increasing bandwidth and redundancy while supporting VLAN traffic.

What is Link Aggregation?

Link aggregation, also called port trunking, port teaming, or LAG (Link Aggregation Group), allows multiple Ethernet links between two devices to act as a single logical connection. This can be applied between switches, servers, NAS devices, or multi-port access points. The aggregated link provides:

- Increased bandwidth: Multiple 1 Gbps links can combine to deliver higher throughput.
- Redundancy: If one link fails, traffic continues over the remaining links.
- Load balancing: Traffic is distributed across all member links.

VLAN Integration

A LAG can carry VLAN traffic just like a single trunk port. When configured as a trunk, the LAG can transport multiple VLANs between switches, ensuring that VLAN segmentation is maintained across the aggregated links. Each switch treats the LAG as a single logical interface, simplifying VLAN configuration.

LACP vs Static LAG

- LACP (Link Aggregation Control Protocol): An IEEE 802.3ad standard that dynamic...

Article Content

Apr 29, 2026

Design and Performance Analysis of Complex

Design and Performance Analysis of Complex Switching Networks through VLAN, HSRP and

Nov 25, 2025

Erweitern Sie Ihr Netzwerk mit einem Link Aggregation Switch:

Entdecken Sie die Vorteile, die Konfiguration und die Best Practices der Verwendung eines Link Aggregation

Aug 26, 2025

What are link aggregation and LACP and how can I use them in my

Will I need to create separate trunks/aggregated links on the other vlans, or by adding ports 22& 24 to the other vlans,

May 07, 2026

How to Configure LAG/LACP and VLANs using SFP Ports on Two TP-Link Switches

In this guide, I will be demonstrating how to set up a LAG (Link Aggregation Group) using LACP. The two TP-Link

Jul 27, 2025

Link Aggregation Configuration

S1720, S2700, S5700, and S6720 V200R011C10 Configuration Guide - Ethernet Switching This document describes the

Aug 11, 2025

How to configure Link Aggregation

Link Aggregation is used to increase the available bandwidth between the firewall and a switch by aggregating up to

Jun 05, 2026

Enhance Your Network with a Link Aggregation Switch: Benefits ...

Discover the benefits, configuration, and best practices of using a link aggregation switch to enhance your network.

Nov 15, 2025

Link Aggregation, LAG, LACP and MLAG in 2026:

Network-Switch can help you pick the right switches, design the right topology, and

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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

Jan 19, 2026

Link Aggregation (LAG) im Netzwerk

Link Aggregation geht im Netzwerk (fast) immer mit LACP (Link Aggregation Control Protokoll) einher. Das LACP

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Link Aggregation Group

Bundles several physical ports together to form a single logical channel. Negotiates automatic bundling by sending LACP packets to

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Understanding VLAN Aggregation

S1720, S2700, S5700, and S6720 V200R011C10 Configuration Guide - Ethernet Switching This document describes the

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Using Link Aggregation with Tagged VLANs for a Two-network Topology

Overview: Configuring link aggregation of two interfaces using tagged VLANs on two networks You can use the BIG-IP ® system in

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Configuring Cisco Switches for Link Aggregation Load Sharing Mode

These are sample configuration commands for Cisco switches (for the exact commands, refer to the Cisco

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Using Link Aggregation with Tagged VLANs for a Two-network Topology

Perform the following tasks to configure two interfaces (tagged VLANs) to function as a single link with higher bandwidth. In this

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Example for Configuring Link Aggregation in LACP Mode

S1720, S2700, S5700, and S6720 V200R011C10 Configuration Guide - Ethernet Switching This document describes the

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Link Aggregation: Static vs Dynamic, LACP, and MLAG

This article provides a comprehensive explanation of link aggregation — covering LACP,

Aug 21, 2025

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

Jun 12, 2026

Configuring Link Aggregation, VLAN Trunking & Assigning Multiple VLANs

In this video, I walk you through configuring link aggregation (LAG), setting up a LAG

Sep 21, 2025

Wie kann man 802.1Q VLAN für LAG-Ports auf Smart und Managed Switches ...

VLAN (Virtual Local Area Network) ist eine Technologie, die die Broadcast-Domäne verändern kann. Ein LAN kann

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Was sind Link-Aggregationsgruppen (LAGs) und wie arbeiten sie mit ...

Was sind Link-Aggregationsgruppen (LAGs) und wie arbeiten sie mit meinem Managed Switch zusammen? Mit der Link-Aggregation

Aug 31, 2025

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

Using Link Aggregation it is simple to have these multiple Ethernet connections to act as one logical connection,

Mar 23, 2026

What Is Link Aggregation and Link Aggregation Switch?

You can surely make it by implementing link aggregation and link aggregation switch.
We're going to share some

Nov 16, 2025

What is Link Aggregation (LAG) in Networking?

Link aggregation, sometimes referred to as LAG, which stands for Link Aggregation Groups, refers to the feature of network devices

Dec 08, 2025

What are link aggregation and LACP and how can I use

Network devices and management functions treat the link aggregation group (LAG) of multiple

Contact Us

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