Configuring Link Aggregation on Core Switches



Overview

Configuring Link Aggregation Group and Link Aggregation ControlThis chapter describes Link Aggregation Group, Link Aggregation Control Protocol, and manual.

Key Takeaways

To configure Link Aggregation between two core switches, use the Link Aggregation Control Protocol (LACP) to bundle multiple physical links into a single logical link, enhancing bandwidth and redundancy.

Step-by-

Step Configuration

Identify Ports for Aggregation: Choose the physical ports on both core switches that you want to aggregate. Ensure that these ports are connected with Ethernet cables. Access the Switch Configuration: Log in to the command line interface (CLI) of each switch using SSH or console access.

Configure LAC



© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

P on Cisco Switches: On each switch, enter the following commands to create a port channel and enable LACP: BashCopyinterface range GigabitEthernet0/1 - 2 # Adjust the interface range as neededchannel-group 1 mode active # This sets the mode to LACP activeexitinterface Port-channel1 # This is the logical interface created for the aggregated linksswitchport mode trunk # Set to trunk mode if you want to carry multiple VLANsexit Repeat the above commands on the second switch, ensuring that the same port numbers and channel group number are used. Verify Configuration: Use the following command to verify that the port channel is up and running: BashCopyshow etherchannel summary This command will display the status of the EtherChannel and confirm that the links are aggregated correctly.

Test Connectivity: After configuration, test the connectivity between the two switches to ensure that traffic is flowing correctly through the aggregated links.

Additional Considerations

Load Balancing: Ensure that your switches are configured to use load balancing across the aggregated links. This can typically be set based on source and destination IP addresses or MAC addresses. Redundancy: If one of the physical links fails, traffic will automatically be rerouted through the remaining active links, providing redundancy and minimizing downtime.

Documentation: Always refer to the specific documentation for your switch model, as commands and capabilities may vary between different manufacturers and models. By following these steps, you can successfully configure Link Aggregation between two core switches, enhancing your network's performance and reliability.

Article Content

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.

Link Aggregation and Load Balancing

This is often referred to as link aggregation, link bonding or EtherChannel. To configure two or more ports, up to eight, as a port aggregate, navigate to Switching > Monitor > Switch ports

Switch Link Aggregations Configuration | Network as Code

Example-1: The example below demonstrates link aggregation configuration. This configuration creates bundled network connections for increased bandwidth and redundancy.

Link Aggregation Configuration

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

This chapter describes how to configure link aggregation. Link aggregation bundles multiple Ethernet links into a logical link to increase bandwidth, improve reliability, and load balance traffic.

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

MR Link Aggregation Configuration Guide

This article outlines the process for configuring link aggregation on Meraki Access Points (APs) with dual Ethernet ports, detailing steps to enable or disable this feature and providing specific

Link Aggregation Configuration

Ethernet link aggregation increases link bandwidth by bundling multiple physical links to form a logical link. Link aggregation can work in manual mode or Link Aggregation Control Protocol (LACP) mode.

Port Aggregation FAQs

LACP (Link Aggregation Control Protocol): LACP is an industry-standard protocol (802.3ad) that dynamically manages link aggregation, provides automatic failover, and helps prevent

01-03 LINK AGGREGATION CONFIGURATION

Ethernet link aggregation, also called Eth-Trunk, bundles multiple physical links into a logical link to increase link bandwidth, without having to upgrade hardware. Link aggregation provides link backup

Aggregated Ethernet Interfaces Overview | Junos OS | Juniper Networks

You can configure LAGs to connect a QFX Series product or an EX4600 switch to other switches, like aggregation switches, servers, or routers. This example describes how to configure LAGs to connect

Standalone AC Solution: Aggregation Switches Function as Gateways

Native AC + SVF Solution: Parents Containing Aggregation Switches Function as Gateways for Wired and Wireless Users Standalone AC Solution: Core Switches Function as the Gateway for Wired and

The Network DNA: Networking, Cloud, and Security

Master networking, cloud, and security with in-depth analysis, tutorials, and research. Stay ahead of the curve with our expert tech blog.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Two-Tier Core

Verify Operational State Configure Core VSX ISL Interface To establish a VSX relationship between the core switches, create a link aggregation (LAG) interface for assignment as

Demo Kit

Explore SAPUI5 SDK Demo Kit for comprehensive tools, documentation, and interactive demos to develop responsive web applications with SAP''s UI framework.

EOS 4.36.1F

Arista switches support Multi-Chassis Link Aggregation (MLAG) to logically aggregate ports across two switches. For example, two 10-gigabit Ethernet ports, one each from two MLAG configured switches,

Shadow Mode High Availability on UniFi Cloud Gateways

Multi-Chassis Link Aggregation (MC-LAG) MC-LAG enhances high availability for your core ECS Aggregation switches, improving reliability and eliminating single points of failure in your network.

Cisco N9300 Series Smart Switches

Cisco N9300 Series switches offer superior protection, performance, and programmable services. Secure your data center and make it future-ready

Compare Nexus 9000 Series Switches

Compare N9000 Models The following tables compare hardware capabilities of Cisco N9000 Series Switches. For more product details, refer to the product data

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved

Contact Us

Continue your research online:

Website: https://cgweb.co.za
Technical inquiry: https://cgweb.co.za/project-enquiry.html

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

© 2026 CGWEB NETWORK INFRASTRUCTURE - All rights reserved