

Configuring the aggregation switch routing



Article Overview

Yes, aggregation switches can be configured with routing, supporting Layer 3 protocols like OSPF and PIM alongside link aggregation for high availability.

Layer 2 vs Layer 3 Aggregation Switches

Aggregation switches primarily consolidate traffic from multiple access switches and forward it to core switches or routers. While many aggregation switches operate at Layer 2, modern aggregation switches often support Layer 3 functionality, allowing them to perform routing between VLANs or subnets, and participate in dynamic routing protocols. This capability enables them to act as a distribution point that not only aggregates traffic but also routes it efficiently within the network.

Routing Configuration on Aggregation Switches

Aggregation switches with Layer 3 support can be configured with:

- IP addresses and loopback interfaces for routing identification and management. Each aggregation switch can have a unique loopback IP used as a router ID for protocols like OSPF.
- Dynamic routing protocols such as OSPF (Open Shortest Path First) and PIM (Protocol Independent Multicast) to enable inter-VLAN routing and multicast traffic management.
- Static routes for simpler network topologies or when connecting to specific upstream...

Article Content

Dec 08, 2025

What is an Aggregation Switch? | Features and Practical Benefits

This article focuses on the question of what is an aggregation switch and how it works its uses and its

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What are Link Aggregation Groups (LAGs) and how do

What are Link Aggregation Groups (LAGs) and how do they work with my managed switch?

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How to configure the link aggregation on layer 3 switch?

It will be good if you can provide me sample etherchannel L2 configuration (without IP address) and etherchannel L3

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Everything You Need to Know About Aggregation Switch

An aggregation switch operates at Layer 2 or Layer 3 of the OSI model, depending on the

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Data Center Aggregation Layer Design and Configuration with ...

Most Nexus-based data center designs today use the concept of Cisco® virtual device context (VDC), which allows the creation of

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Aggregation Switch: Increasing the Priority of Special Traffic

Aggregation Switch: Increasing the Priority of Special Traffic Networking Requirements Core switches set up a CSS that functions as

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Switch Engine v33.2.1 User Guide

The aggregation switches are configured to act as multi-function EAPS nodes to provide L2 connectivity services. After EAPS and L2

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Configuring MC-LAG in UniFi Network – Ubiquiti Help Center

Configuring MC-LAG in UniFi Network Multi-Chassis Link Aggregation Group (MC-LAG) enables redundancy and load balancing by

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Aggregation Switch Reference Configuration | Validated Solution Guide

The Aggregation Switch Reference Configuration section provides a reference CLI configuration of the aggregation

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What Is an Aggregation Switch and How to Choose?

An aggregation switch is a network device that consolidates traffic from multiple access switches, wireless access

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What is Link Aggregation (LAG) in Networking?

Example Configuration: Layer 2 EtherChannel using LACP Configuring LACP on a Cisco switch involves defining the ports that you

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Port Aggregation Configurations

Port Aggregation Port aggregation allows you to group multiple physical ports into one unit. Port aggregation is useful for

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Configuring Link Aggregation Group and Link Aggregation Control

Link Aggregation Group and Link Aggregation Control Protocol Configuration Procedures Cost savings resulting from use of existing

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Configuration Guide for Cisco NCS 4000 Series

This chapter describes the procedures to configure Link Aggregation on Cisco NCS 4000 Series routers. Link

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Configuring Aggregation and Access Switches to Be Managed by the ...

After the aggregation and access switches go online, create Eth-Trunks between the access and aggregation switches.

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Tutorial

Learn how to configure a Cisco Switch Link Aggregation using the command-line, by following this simple step-by-step

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Link Aggregation and Ethernet Bonding Feature Overview and ...

Link aggregation interfaces have names like "po1" and "sa1" depending on the aggregation method in use. Ethernet bonding is used to

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

Link aggregation is a way of bundling a bunch of individual (Ethernet) links together so they

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Configuring EtherChannel and 802.1Q Trunking Between Catalyst ...

The switch then dynamically groups interfaces with similar configurations into a single logical link (channel or

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The Ultimate Guide to Installing and Configuring the Ubiquiti UniFi ...

The Ubiquiti UniFi Switch Aggregation (USW-Aggregation) is a powerful, high-capacity switch, perfect for streamlining

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What is Switch Aggregation, Its Role and Selection Advice

4. Functional management: Unlike core switches, aggregation switches can be either Layer 2 or Layer 3 switches.

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Data Center Aggregation Layer Design and Configuration with ...

Introduction This chapter covers the design recommendations for a data center design deployment consisting of a Cisco Nexus®

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Link Aggregation Configuration

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

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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.

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Wired Aggregation | Validated Solution Guide

The HPE Aruba Networking Access and Services Aggregation Configuration chapter of the Validated Solutions Guide

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Switching

Static Link Aggregation Static Link Aggregation involves manually configuring two or more ports to operate as a single logical

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Aggregation Switch

An aggregation switch refers to a type of switch used to connect multiple ToR switches to a core switch/router in a cloud data center

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Understanding Switch Aggregation: A Comprehensive Guide

Switch aggregation, also known as link aggregation or trunking, is a method used in computer networking to combine

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MS Layer 3 Switching and Routing

Layer 3 routing capabilities are available on most Cisco Meraki switches. This allows the switches to route traffic

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Configuring Route Aggregation | Junos OS | Juniper Networks

The aggregation methodology does not help reduce the size of the routing-table on the router that does the aggregation. When you

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Understanding Switch Aggregation: A Comprehensive

Defining switch aggregation and its role in network architecture Switch aggregation, also

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Link Aggregation and Load Balancing

Link Aggregation and Load Balancing Last updated Jun 16, 2026 Save as PDF Table of contents Link bonding Load

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