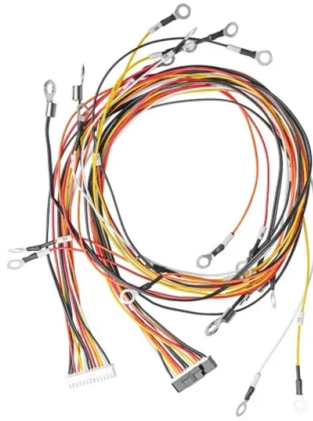


Configuration of Layer 2 Aggregation Switch



Article Overview

Layer 2 aggregation switches are configured by creating logical aggregation groups (LAGs) that combine multiple physical ports to increase bandwidth and provide redundancy.

Overview of Layer 2 Aggregation

Layer 2 aggregation, also known as link aggregation or port-channeling, allows multiple physical ports to be logically combined into a single link. This provides:

- Higher aggregate bandwidth for traffic-heavy servers or uplinks
- Redundancy, so traffic can reroute if a single port or cable fails
- Efficient traffic distribution across member ports using flow-based hashing (source/destination MAC, IP, or TCP/UDP ports) Aggregation can be static (manual binding) or dynamic using LACP (Link Aggregation Control Protocol) for automatic negotiation .

Basic Configuration Steps

- Enter Global Configuration Mode On most switches, start by entering the global configuration context:

```
switch# configure terminalswitch(config)#
```

- Create a Logical Aggregation Group (LAG) Assign a group ID (typically 1-256 depending on the switch model):

```
switch(config)# interface port-channel 1 This creates a logical interface that will co...
```

Article Content

Jul 08, 2026

Link Aggregation: Static vs Dynamic, LACP, and MLAG

Understand how link aggregation (LACP, MLAG, static vs dynamic) improves bandwidth

Jan 18, 2026

Cisco Switch Layer2 Layer3 Design and Configuration

The diagram above shows one Layer 3 switch used for Aggregation, three Layer 2 switches used for access purposes and one

Jun 19, 2026

Link Aggregation and Load Balancing

Implementation by Cisco Meraki MS Series Cisco Meraki MS switches use the open standard LACP to provide Layer

Apr 23, 2026

Layer 2 Switching Software Configuration Guide for Cisco IE 2000U

This document describes how to configure Layer 2 switching features on the Cisco Industrial Ethernet 2000U Series

Sep 05, 2025

What Is an Aggregation Switch and How to Choose?

These aggregation switches typically operate at Layer 2 or Layer 3 of the OSI model, depending on the network

Nov 27, 2025

Link Aggregation Control Protocol

Layer 2 (Data Link Layer): Groups switch ports into an aggregation set and manages MAC addressing and Ethernet

Mar 01, 2026

Layer-2 Link Aggregation Configuration

Link aggregation, also called trunking, is an optional feature available on the Ethernet switch and is used with Layer 2 Bridging. Link

Mar 11, 2026

Aggregated Ethernet Interfaces Overview

You can configure LAGs to connect a QFX Series product or an EX4600 switch to other switches, like aggregation switches, servers,

May 16, 2026

Configuring a layer 2 static aggregation group

You must be in the global configuration context: switch (config)#. The range of the LAG interface ID is 1 to 256. While creating the

Jun 23, 2026

Layer 2 Configuration Guide, Cisco IOS XE Amsterdam 17.3.x

Configure Layer 2 EtherChannels by assigning ports to a channel group with the channel-group command in interface configuration

Mar 08, 2026

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 configuration and topology

Dec 31, 2025

Link Aggregation Control Protocol

Layer 1 (Physical Layer): Combines multiple physical Ethernet links into a single logical communication channel. Layer

Jan 08, 2026

Data Center Multi-Tier Model Design

The multi-tier model relies on a multi-layer network architecture consisting of core, aggregation, and access layers, as

Mar 04, 2026

Configuring a layer 2 dynamic aggregation group

You must be in the global configuration context: switch (config)#. While creating the layer 2 aggregate interface, the system

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03-Layer 2

These configuration guides also provide configuration examples to help you apply software features to different network scenarios.

Apr 27, 2026

Layer 2 Protocol Configuration

Layer 2 Protocol Configuration This document describes how to configure Microsemi Switch Engines to perform Layer 2 functions

Jun 28, 2026

Configuring Link Aggregation Group (LAG) on a Switch

Article ID:2860 Configuring Link Aggregation Group (LAG) on a Switch Objective Link Aggregation Group (LAG)

Jul 13, 2026

Link Aggregation Configuration

S300, S500, S2700, S3700, S5700, S6700, S7700, and S9700 Series Switches Typical Configuration Examples (V200) This

May 21, 2026

Layer 2 Configuration Guide, Cisco IOS XE 17.13.x (Catalyst 9200 Switches)

You can execute this command on more than one switch to configure multiple backup root switches. Use the same network diameter

May 02, 2026

Layer 2 Configuration Guide, Cisco IOS XE 17.14.x (Catalyst 9200

This chapter describes how to configure the EtherChannels on the Cisco Catalyst Switches.

Apr 09, 2026

How To Set Up Switch Link Aggregation

Managed switches provide many advantages for a growing network, including support for VLANs, QoS, and Trunking. I touched on

Jul 09, 2026

Cisco Switch Layer2 Layer3 Design and Configuration

One simple and popular switch design scenario will be shown in the following tutorial. This scenario will fit most SMB networks (or

Nov 18, 2025

Layer-2LinkAggregationConfiguration

Chapter 1 Configuring Port Aggregation 1.1 Overview and is used with Layer 2 Bridging. Link aggregation allows logical merge of

Mar 24, 2026

Layer 2 aggregation load sharing configuration example

Configure Layer 2 static aggregation groups 1 and 2 on Device A and Device B, respectively. Enable VLAN 10 at one end of the

Contact Us

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