

# Can aggregation layer switches be segmented



## Overview

Thus, aggregation switches possess various functionalities such as source and destination address filtering, real-time policies, security measures, network isolation, and segmentation. Compared to access switches, aggregation switches offer better performance and higher. Network segmentation with switches involves dividing a network into smaller, isolated segments to enhance security, improve performance, and simplify management. You may. An aggregation layer usually comprises a few blocks of two switches in MCLAG. By design, it therefore provides resiliency because it will always be deployed in pairs of switches and comes with a recommendation to deploy only dual hot swappable power supplies and redundant fans in each switch to. An aggregation switch is a network device that consolidates traffic from multiple access switches, wireless access points, or other edge devices and forwards it to core switches or routers.



## Article Content

Oct 12, 2025

Aggregation layer | FortiSwitch 7.6.0 | Fortinet Document Library

Its primary goal is to increase network scalability by providing a single place to interconnect multiple access switches and the core layer.

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Aggregation Layer

Aggregation-layer submodule The aggregation-layer submodule plays a pivotal role in providing a highly reliable, scalable “middle

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Data Center Network Switch Design

In a large network, we will have different types of switches involved and they play different roles when it comes to the

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In-depth analysis: What is an aggregation switch?

In many network constructions, we have all heard of switches. So do you really understand switches? Why are

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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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Datacenter Core and Aggregation Design

Introduction Datacenter design is based on a proven layered approach. The layered approach is the basic foundation

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Aggregation layer | FortiSwitch 7.2.3 | Fortinet Document Library

This model allows the aggregation switches to easily accommodate thousands of devices passing through this layer while simplifying

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## Network segmentation in modern environments

Each host and network should be segmented and segregated at the lowest level which can be practically managed.

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## What Is an Aggregation Switch and How It Works

Network segmentation: Beyond basic VLANs, aggregation switches can create isolated routing domains that keep

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## Aggregation layer | FortiSwitch 7.6.0 | Fortinet Document Library

Aggregation-layer platforms The most appropriate FortiSwitch unit to form the aggregation layer comprises many 10/25/40 gigabit

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## What is Switch Aggregation, Its Role and Selection Advice

Thus, aggregation switches possess various functionalities such as source and destination address filtering, real-time

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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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## What is Aggregation Layer in Networking | SPOTClub

Learn about the aggregation layer in networking, its purpose, and how it connects to the distribution layer. Discover

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## What is an Aggregate Switch?

Regular switches often lack the necessary bandwidth capacity, processing power, and features (like advanced QoS)

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## Aggregation Router

Figure 3.7 depicts a multitenant environment where Tenant A and Tenant B are L2 segmented between the aggregation- and access

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Core, Aggregation, or Access Switches? Choose the

Selecting between core, aggregation, and access switches is not only technical — it's

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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

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What Is Network Segmentation?

Understand network segmentation and its role in reducing attack surfaces. Learn how it enhances security and improves network

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Understanding Switch Aggregation: A Comprehensive Guide

In the context of network architecture, switch aggregation is an essential element, particularly in building high

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Data Center Aggregation Layer Design and Configuration with ...

While VLANs provide data plane security, they do not provide any segmentation at the control plane level.

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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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What is an Aggregation Switch? | Features and Practical Benefits

Additionally, the access switch includes user management features like address authentication, user authentication,

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Understanding the Different Layers of Routing and Switching

Routing and switching layers are integral components of an enterprise network that managers can identify and separate to optimize

## Contact Us

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