

What is the aggregation function of a switch called



Overview

Link aggregation (also known as port trunking or link bundling) combines multiple physical links into a single logical link. This increases bandwidth and provides redundancy. It's commonly used to connect aggregate switches to core switches or access switches. By bundling multiple network connections into a single high-bandwidth link, aggregation switches help. As the physical entity of the aggregation layer, the aggregation switch's primary function is to aggregate the data of the access layer switch and forward it to the core switch to reduce the burden on the core layer. It is essential for larger networks requiring efficient data flow. The aggregation layer serves as the convergence point for multiple access layer switches and is responsible for handling all. An aggregation switch sits in the middle tier of a network, collecting traffic from multiple smaller access switches and funneling it upward to the core.



Article Content

Nov 01, 2025

Everything You Need to Know About Aggregation Switch

What is an Aggregation Switch and How Does it Work? An aggregation switch consolidates data traffic from multiple network access

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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 points, or other edge devices and

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What is Aggregation Switch? Role in Network Connection

Aggregation Switch plays an important role in the aggregation layer, supporting the connection and management of traffic from different network devices.

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Understanding the Role of Aggregation Switch in

Each aggregation switch undergoes extensive testing to ensure that it meets the highest standards of reliability and performance. Conclusion In

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Core, Aggregation, or Access Switches? Choose the

Discover the crucial differences between core, aggregation, and access switches. Find out which type can best transform your network's

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What Is an Aggregation Switch and How It Works

The aggregation switch connects to multiple access switches and consolidates their traffic. Rather than having every access switch connect directly to the network backbone, the aggregation

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What are link aggregation and LACP and how can I use

NIC teaming Port aggregation Port channeling Port trunking The most common device combinations involve connecting a switch to another switch, a

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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 implementation. Read till the end to learn this very important concept in network

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Aggregation layer | FortiSwitch 7.6.0 | Fortinet Document Library

Aggregation layer Aggregation layer The aggregation (sometimes also called distribution) layer is a real crossroad. Its primary goal is to increase network scalability by providing a single place to

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Everything You Need to Know About Aggregation Switch

The primary function of an aggregation switch is to aggregate and forward data from multiple network devices, such as access switches, wireless

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What is an Aggregate Switch?

What is the difference between an aggregate switch and a core switch? An aggregate switch consolidates traffic from access switches, while a core switch forms the backbone of the

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

Link aggregation is hence also cost-effective. It increases bandwidth without you having to spend money on more cables or equipment. Increase is a bit of a misnomer here though; what link

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What Is an Aggregate Switch?

Discover the role of an aggregation switch and its function in a network. Explore differences between aggregation, access, and core switches.

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What is Aggregation Switch? Role in Network Connection

An Aggregation Switch is a type of Network Switch that allows multiple network connections to be combined into a single link. This helps to

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What is an Aggregation Switch?

The aggregation switch is located in the middle of the network architecture, which is equivalent to a middle-level manager of a company. It

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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 network. It enables high-bandwidth aggregation ports to be

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Aggregation Network

The aggregation switch supports to execute aggregation function (such as SUM, MAX or TOP-K operation) at the granularity of packets. Compared to primitive aggregation process, INA takes full

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What is Switch Aggregation, Its Role and Selection Advice

Switch aggregation refers to the concept of consolidating multiple access layer switches into a single aggregation layer switch in a traditional three-tier network design.

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What is an Aggregation Switch?

An aggregate switch is a high-capacity network switch that consolidates connections from multiple access switches, acting as a central point for managing network traffic and providing

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The Features and Differences Between Core Switches and

As the aggregation point of access switches, the aggregation switch is required with the ability to process the access layer information and submits it to the upstream chain of the core layer.

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Aggregation Switches

Aggregation switches aggregate data from all access switches and transmit it in a unified way, thus reducing network congestion and improving

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Aggregation Layer

The switch at the edge layer (sometimes called the rack layer) connects to servers. The switch at the aggregation layer collects bits of communication from the edge layer, and conveys them to the core

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Aggregation Switches

Data Aggregation: The primary function of an aggregation switch is to gather traffic from multiple access switches, which are connected to end-user

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What is Link Aggregation (LAG) in Networking?

How Link Aggregation Works The primary function of LAG is to combine multiple network links between two devices into one logical link. This combination leads to

Jul 09, 2025

Why You Need a Fiber Aggregation Switch and How it

A: The aggregate switch takes in data feeds coming out different points within itself called access switches, then compresses them into fewer but

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

Link aggregation groups can also be coupled together onto one network switch, creating a link aggregation switch. The rule that defines which

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