

How to Choose an Aggregation Layer Switch



Summary of Content

Choose an aggregation switch based on traffic demands, port types and density, Layer 2/3 capabilities, redundancy, and scalability to ensure efficient and reliable network performance.

Understanding the Aggregation Layer

The aggregation layer, also called the distribution layer, serves as a convergence point between access switches and the core layer. It consolidates traffic from multiple access switches, wireless access points, or other edge devices and forwards it to the core switches, helping to streamline traffic flow, reduce bottlenecks, and improve network performance. Aggregation switches typically operate at Layer 2 or Layer 3, supporting link aggregation protocols like LACP for bandwidth enhancement and failover.

Key Factors for Selection



Article Content

Aggregation layer | FortiSwitch 7.2.3 | Fortinet Document Library

Aggregation layer The aggregation (sometimes also called distribution) layer is a real crossroad. Its primary goal is to increase

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

What is Switch Aggregation, Its Role and Selection Advice

This article wraps up "what is switch aggregation" and suggestions for choosing an aggregation switch. By

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

Datacenter Core and Aggregation Design

Introduction Layered Datacenter Architecture Datacenter Core Layer Datacenter Aggregation Layer Datacenter

Core, Aggregation, or Access Switches? Choose the

Discover the crucial differences between core, aggregation, and access switches. Find out

Link aggregation

OSI layer 2 (data link layer, e.g. Ethernet frame in LANs or multi-link PPP in WANs, Ethernet MAC address) aggregation typically

Data Center Multi-Tier Model Design

Data Center Core Layer The data center core layer provides a fabric for high-speed packet

What is an Aggregation Switch?

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

Understanding Switch Aggregation: A Comprehensive

This blog post briefly explains the primary function of aggregation switches, particularly

Difference and connection scheme between access layer switch and ...

The aggregation layer switch is the aggregation point of multiple access layer switches. It is used to export the access

Link Aggregation: Static vs Dynamic, LACP, and MLAG

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

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

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

How to Choose Best Aggregation Switch?

Aggregation layer switches typically accept all traffic from the access layer and forward it to the core, so to ensure a

Link Aggregation, LAG, LACP and MLAG in 2026: Design, Best

Network-Switch can help you pick the right switches, design the right topology, and validate your link

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

Data Center Network Switch Design

This Article Applies to: All Omada switches. Design: In a large network, we will have different types of switches

What Is an Aggregation Switch?

While technically possible, using a standard switch as an aggregation switch is generally not recommended for large

Data Center Design: Basic 3 Layers, Core, Aggregation, and Access

Key Features of 3 layers design of Data Center: Data center network is divided into 3 standard three-layer structure.

What is an Aggregate Switch?

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

Link Aggregation and Load Balancing

You may want to set up and configure a bonded link between your Meraki MS switch and a Cisco switch. This is often

Designing and Configuring the Aggregation Layer

Designing and Configuring the Aggregation Layer The network switches in the aggregation layer provide additional resiliency

Access Layer vs Aggregation Layer Fiber Equipment Guide

A comprehensive comparison of access layer and aggregation layer fiber optic network equipment, covering switch

Aggregation Layer

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

What is Aggregation Layer in Networking | SPOTOclub

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

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