

How to use the aggregation and uplink mode of a switch



Article Overview

Switch aggregation combines multiple ports into a single logical link to increase bandwidth, provide redundancy, and optimize uplink connections.

What is Switch Aggregation

Switch aggregation, also called link aggregation or port trunking, allows multiple physical network ports to operate as a single logical connection. This increases total throughput, provides load balancing, and ensures redundancy if one link fails. Aggregation is commonly used in two scenarios: connecting multiple switches (switch-to-switch) or connecting high-performance devices like servers or NAS units (switch-to-client) to handle higher traffic loads .

Key Protocols

- LACP (Link Aggregation Control Protocol, 802.3ad): Dynamically manages aggregated links, ensures both ends agree on the configuration, and provides automatic failover .
- Static LAG: Requires manual configuration on both ends, prone to misconfiguration, and does not provide automatic failover .

Uplink Considerations

When connecting switches in a core-leaf topology:

- Use a high-capacity switch as the central hub.
- Connect peripheral switches to the core via dedicated uplinks.

Article Content

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

Aggregation Switch

The regular Aggregation switch is best used to connect all devices in a rack together when there is no need for an "even bigger

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

AOS-CX 10.15.xxxx Link Aggregation Guide

Configure link redundancy in network topologies with dual uplink between different layers of the network. Configure UFD to achieve

Port Aggregation Configurations

Port aggregation is useful for implementing load balancing and provides a redundant link backup. To allow port aggregation, the

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,

Switching

It provides a step-by-step guide on configuring LAG, including checking port status, ensuring loop guard is inactive, and setting up

Uplink Port vs Normal Port on Network Switch

What Is a Normal Port? A normal port, also known as access ports or user ports, are typical Ethernet physical interfaces

Contact Us

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