

How to select and configure an aggregation switch



AI Overview

Configuring an aggregation switch involves grouping multiple physical ports into a single logical link using static or dynamic link aggregation to increase bandwidth and provide redundancy.

Key Concepts

- Port Aggregation (Link Aggregation)** allows multiple physical ports to function as a single logical interface, providing higher throughput and failover capabilities. It can be implemented in static mode (manual configuration) or dynamic mode using LACP (Link Aggregation Control Protocol), which automatically negotiates aggregation between devices.
- LAG (Link Aggregation Group)** is the logical grouping of ports. All ports in a LAG must share consistent configurations, including:
 - STP settings (enabled/disabled, priority, cost)
 - VLAN configuration (PVID and permitted VLANs)
 - Port attributes (speed, duplex mode, link type)
 - Media type (all ports must match)

Configuration Steps

- Plan the Aggregation** Identify the ports to include in the LAG. Ensure all ports are free from conflicting configurations like VLAN assignments or security features.
- Decide on static or dynamic (LACP) mode.**
- Enable Privileged/Global Configuration Mode** Access the switch CLI and enter privileged EXEC mode. Enter global configuration mode to make changes.
- Create the Aggregation Group** Assign a channel group ID (e.g., 0-5 on Cisco devices).

Example CLI command for a port:

```
CodeCopyinterface GigabitEthernet1/0/1channel-group 1 mode active
active for LACP
active mode
passive for LACP
passive mode
on for static aggregation
```

Configure Load Balancing Set the load balance policy (e.g., based on source MAC, destination MAC, or IP) to distribute traffic across aggregated ports.

Verify Configuration Check the LAG status and member ports using commands like `show etherchannel summary` (Cisco) or equivalent on other vendors. Ensure all ports are in the up state and synchronized.

VLAN and Trunking Considerations Configure the LAG...

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this section of the guide will demonstrate how to configure a Aggregation switch with dual purposes, providing power and layer 2 access to wired devices and access points, while also

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In Type, select Formula. Alternatively, you can select Aggregate. Note Using Aggregate automatically aggregates the child rows, while Formula uses explicit row name references to perform

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Understanding Switch Aggregation: A Comprehensive

This source provides a comprehensive guide on choosing the best aggregation switch, including a clear definition of what an aggregation switch is.

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Wired Aggregation | Validated Solution Guide

The HPE Aruba Networking Access and Services Aggregation Configuration chapter of the Validated Solutions Guide describes the procedures used to configure aggregation switch pairs

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