

Stacking and Aggregation Switch



Article Overview

Switch stacking combines multiple switches into a single logical unit for simplified management, while link aggregation (LAG) combines multiple physical links to increase bandwidth and redundancy.

Switch Stacking

Switch stacking allows multiple physical switches to operate as a single logical switch, managed through one interface. This simplifies configuration, monitoring, and redundancy. Key features include:

- **Single Management Interface:** All stacked switches share one IP address and configuration, reducing administrative complexity .
 - **High Availability:** If the master switch fails, a backup switch automatically takes over, ensuring uninterrupted network operation .
 - **Optimized Performance:** Switches communicate via dedicated high-speed stacking links, reducing bottlenecks .
 - **Simplified Cabling:** Fewer inter-switch connections are needed, making deployment cleaner .
 - **Port Expansion:** Adding switches increases total port count and switching capacity .
- Limitations: Stacking is typically limited to switches from the same vendor, has distance constraints (usually same rack or wiring closet), and may introduce a single point of failure if not properly managed .

Link Aggregation (LAG)...

Article Content

Mar 07, 2026

Switch Network Structure: Cascading, Stacking, Aggregation And

Switches are essential devices in computer networks, used for forwarding data between local area networks (LAN) and

Feb 28, 2026

MLAG vs. Stacking vs. LACP

That's where link aggregation and switch stacking come into play—two powerful techniques to combine multiple

Jun 11, 2026

Everything You Should Know About Switch Stacking

Learn the basics of switch stacking and how it works, the advantages and disadvantages it brings, and compare the

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MLAG vs. Stacking vs. LACP

Link aggregation and stacking are common approaches to bundle multiple network connections in one logical link.

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Switch Stacks

Meraki switches allow for physical stacking on select switch models so you can easily manage all of your switches and

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MLAG vs. Stacking Differences: Which Is a Better Option?

MLAG and Stacking Explained MLAG, short for Multi-Chassis Link Aggregation, enables two or more physical switches

Feb 05, 2026

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

Jul 17, 2026

Stackable switch

Stackable switches have these benefits: Simplified network administration: Whether a stackable switch operates alone or “stacked”

Jan 30, 2026

What is Stacking?

A stack port is a port on the switch that is used to communicate with other switches in the stack. Depending on the

Oct 14, 2025

Stackable Aggregation Managed Switches

Provides 1G, 2.5G, and 10G speeds for flexible customization, ensuring optimal performance, compatibility,

May 25, 2026

Arista Unveils Modern Stacking for Campus Networks

Arista is introducing the Switch Aggregation Group (SWAG TM) capability in Arista EOS ® that uses industry-standard Ethernet to

Nov 21, 2025

Cisco Catalyst 1300 Series Stackable Switches Stacking Manual

To stack two or more devices, reconfigure the desired network ports as stack ports in the switches and connect the

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Switch Enterprise Campus Aggregation

1.8 Tbps high-density 100G/25G Layer 3 Etherlighting™ aggregation switch with MC-LAG support for high

Jan 16, 2026

To Stack Or Not To Stack: Making The Right Network Choice

It not only solved the problem of limited ports on a single switch, but also allowed multiple devices to operate as “one

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What Is The Difference Between Switch Cascading, Stacking

In large switch environments with multiple switches, the following three approaches address critical key technologies:

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Arista Unveils Modern Stacking for Campus Networks

Introducing Switch Aggregation Groups (SWAG) Arista was an early pioneer in link-level aggregation groups with Multi-Chassis Link

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Understanding Switch Stacking and Link Aggregation

Learn more about how switch stacking and link aggregation serve different purposes, but they are often used together to build

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Switches: To Stack or Not To Stack?

A stack of two 3850 switches, such as the WS-C3850-24XS-S is a good option for a small aggregation switch. A small footprint and

Jun 03, 2026

Switch Stacking: How It Works, Benefits, and Use Cases

Supports Link Aggregation (LAG/LACP) across multiple switches for resilient uplinks. Improved Performance

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Switch Stacking Explained: Basis, Configuration & FAQs

Switch stacking connects multiple switches into one logical unit. Learn its basics, benefits, configuration, and how it

Jul 29, 2025

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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How to Master Huawei Switch Stacking: Best Practices and ...

Switch stacking is a cornerstone of modern network design, enabling simplified management, improved redundancy,

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Switch Stacking vs MLAG vs LACP

QSFPTTEK provides switch MLAG, stacking and LACP 802.3 ad switch to meet the ever-increasing bandwidth

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What is the difference between switch cascading, stacking and ...

In such an evolution, switches gradually replaced hubs, and interconnections between multiple switches gradually

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Cisco IOS XE 17

Stacking: Stacking allows multiple physical switches to connect and operate as a single, unified logical switch for

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Designing The Next Generation Campus with Arista's Modern

Each switch in the stack is directly connected to two adjacent switches—one on either side—forming a closed loop. This topology

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MLAG vs. Stacking Differences: Which Is a Better Option?

MLAG vs stacking is frequently discussed in network architecture, as both enable multiple switches to function as a

Aug 29, 2025

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

Data Center Basic Layered Design of Core, Aggregation, and Access The data center network design is based on a

Contact Us

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