

Configure a 10 Gigabit Aggregation Switch



AI Overview

To configure aggregation on a 10 Gigabit switch, use LACP or static LAG to combine multiple 10GbE ports into a single logical link, ensuring consistent speed, full-duplex mode, and proper VLAN assignment for load balancing and redundancy.

Key Concepts

- Link Aggregation (LAG)** allows multiple physical interfaces to act as a single logical interface, increasing bandwidth and providing redundancy. LAG can be configured as:
 - Static LAG:** Manually configured on both ends; no automatic failover and prone to misconfiguration.
 - LACP (Link Aggregation Control Protocol):** IEEE 802.3ad standard; dynamically negotiates aggregation, provides automatic failover, and ensures both ends agree on settings.
 - MC-LAG (Multi-Chassis LAG):** Advanced setup where two switches act as a single logical unit, providing load balancing and redundancy across chassis.

Configuration Steps

- Verify Port Capabilities:** Ensure all member ports support 10GbE, full-duplex, and compatible SFP modules.
- Clear Existing Configurations:** Remove any VLAN, isolation, or previous aggregation settings on the ports to avoid conflicts.
- Create the Aggregated Interface:** On Cisco/Juniper/H3C switches, define a port channel or aggregated Ethernet interface.
- Assign member ports to the aggregation group,** ensuring all ports have the same speed and duplex mode.
- Assign VLANs:** Configure the aggregated interface as a trunk or access port depending on your network design. Map VLANs to the aggregated interface to allow traffic segregation.
- Enable LACP (if used):** Activate LACP on both ends of the link to allow dynamic negotiation and failover. Verify that all member ports are in the "active" state.
- Traffic Prioritization (Optional):** For special traffic, configure ACLs, traffic classifiers, and QoS policies to prioritize certain VLANs or IP ranges. Apply traffic policies to the aggregated interface to ensure high-priority traf...

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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.mr-security.co.za>

Email: info@mr-security.co.za

Phone: +33 1 45 23 67 81

Address: 10 Rue de la Paix, 75002 Paris, France

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