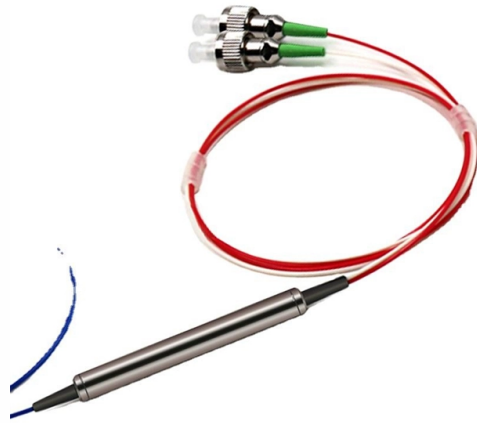


Aggregation switch connects to router



AI Overview

To connect an aggregation switch to a router, configure a Link Aggregation Group (LAG) on both devices, connect multiple physical links, and ensure proper VLAN and interface settings for redundancy and increased bandwidth.

Step 1: Choose the Aggregation Method

- Static LAG:** Manually configure the ports on both the router and switch. This method is simple but does not provide automatic failover and is prone to misconfiguration.
- LACP (Link Aggregation Control Protocol):** An industry-standard protocol (IEEE 802.3ad) that dynamically manages link aggregation, provides automatic failover, and ensures both ends agree on aggregation settings. LACP is recommended if supported by both devices.

Step 2: Select Ports and Cabling

- Use multiple Ethernet or SFP/SFP+ ports to form the aggregated link.
- For redundancy, run cables over different physical paths to minimize the risk of simultaneous failure.
- Ensure the switch and router ports support the same speed (e.g., 10GbE, 25GbE) for proper load balancing.

Step 3: Configure the Switch

- Navigate to the switch's Link Aggregation or LAG settings.
- Create a new LAG and select the ports to include.
- Assign the LAG to the appropriate VLAN interface if needed.
- Apply and save the configuration.

Step 4: Configure the Router

- Access the router's LAN or interface settings.
- Enable link aggregation on the corresponding ports.
- Match the LAG type (static or LACP) and select the same ports used on the switch.
- Verify VLAN or IP interface settings match the switch configuration.

Step 5: Connect Physical Links

- Connect the selected ports on the switch to the corresponding ports on the router.
- Ensure all cables are securely connected and check for link lights or status indicators.

Step 6: Verify and Test

- Check the LAG status on both the switch and router to confirm all member links are active.
- Test bandwidth using tools like iperf to ensure the aggregated link provides combined throughput greater than a single link.
- Disconnect one link to verify failover functionality; traffic should continue over r...

Article Content

What Are Aggregation Service Routers (ASR)?

Aggregation services in routers and edge platforms help enable network edge routing. These devices combine traffic links at greater speeds to support the

Site wide outage due to USW-Aggregation and layer 3 routing

I'm assuming you mean Aggregation Pro as the regular Aggregation switch isn't L3 capable? best option is to move all the gateways to the router and remove vlan 4040 and don't do routing on the Unifi

Link Aggregation: What is it, and How Does it Work?

Link aggregation is a way of bundling a bunch of individual (Ethernet) links together so they act as a single logical link. A fundamental for effective

In-depth analysis: What is an aggregation switch?

Therefore, you need to choose an enterprise-level switch that supports QoS as an aggregation switch when purchasing, otherwise, the performance and quality of voice and video

How to Connect Ethernet Cable to Wireless Router

To connect your computer to a router or gateway, you'll need an Ethernet cable or an Ethernet adapter, depending on the computer you have.

What is an Aggregation Switch? | Features and Practical Benefits

In terms of performance and switching speed, aggregation switches typically outperform access switches. They can route network traffic, implement network security regulations, and add a

Aggregation Router

An "Aggregation Router" is a device located in the services aggregation layer of a data center LAN that integrates important network services such as firewalls and server load balancers, allowing them to

Port Aggregation FAQs

LACP (Link Aggregation Control Protocol): LACP is an industry-standard protocol (802.3ad) that dynamically manages link aggregation, provides automatic failover, and helps prevent

Core, Aggregation, or Access Switches? Choose the Perfect Fits

Aggregate and connect access switches for users into aggregation switches and within the data center to achieve a high availability, high performance data center infrastructure.

Which Netgear Switch Should You Choose? Simple

Easy Smart and higher-tier switches support LAG. Can I connect multiple Netgear switches together? Yes. Connect any port on Switch A to any

Link Aggregation and Load Balancing

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What Is an Aggregation Switch and How to Choose?

What Is an Aggregation Switch? An aggregation switch is a network device that consolidates traffic from multiple access switches, wireless access points, or other edge devices and

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The aggregation layer connects to the uplinks of the edge switches and is uplinked to the distribution layer toward the network core. Generally, network managers are moving away from in-closet

Understanding Switch Aggregation: A Comprehensive

Defining switch aggregation and its role in network architecture Switch aggregation, also known as link aggregation or trunking, is a method

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Aggregation Switch

An Aggregation or "Top-of-Rack" switch is designed to connect everything in a rack at high speeds, then have an even bigger pipe out to the rest of the network.

Which Netgear Switch Should You Choose? Simple

Connect any port on Switch A to any port on Switch B using a standard Ethernet cable. For better performance between switches, use SFP or

How To Set Up Switch Link Aggregation

In this article, I'm going to describe how to set up Link Aggregation between two managed switches to provide connectivity, redundancy, and expanded

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Standalone AC Solution: Aggregation Switches Function as Gateways

A standalone AC is deployed in off-path mode. It centrally manages APs on the entire network. In this example, aggregation switches set up stacks that function as gateways for wired and wireless users

Everything You Need to Know About Aggregation Switch

The primary function of an aggregation switch is to aggregate and forward data from multiple network devices, such as access switches, wireless

What is Link Aggregation (LAG) in Networking?

Link aggregation is a technique used in networking to bundle multiple physical ports on a network device to operate as a single link. The aggregated link acts as a

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Need more bandwidth or failover on UniFi switches? What LACP link aggregation does, which devices support it, setup and troubleshooting steps.

Best 10Gb Switch for SMB in 2025: Unlock Next-Gen Network

What Is a 10Gb Switch? A 10 Gigabit Ethernet switch is a network device that connects multiple endpoints at 10 Gbps speeds, enabling ultra-fast data exchange within local area networks.

Understanding Switch Aggregation: A Comprehensive

Aggregation layer switches aggregate data from multiple access switches and routes it to the core layer of the network. They provide inter-VLAN

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