

Connecting the access switch to the aggregation switch



AI Overview

Connect an access switch to an aggregation switch using uplink ports, optionally configure link aggregation for redundancy and bandwidth, and ensure proper VLAN and management settings.

Physical Connection

- Identify Uplink Ports:** Use dedicated uplink ports on the access switch to connect to the aggregation switch. These are typically higher-speed ports (1G, 10G, or higher) to handle aggregated traffic.
- Redundant Links:** For high availability, connect at least two uplinks from the access switch to the aggregation switch. This can be configured as a Link Aggregation Group (LAG) or EtherChannel to combine bandwidth and provide failover.
- Cabling:** Use appropriate fiber or copper cables depending on port types and distance. Ensure proper labeling and documentation for future troubleshooting.

Logical Configuration

- Link Aggregation:** Configure LAG on both the access and aggregation switches. Ensure both switches support the same protocol (LACP or static aggregation) and assign the same ports to the LAG.
- VLAN Configuration:** Assign the uplink ports to the correct VLANs. Typically, a trunk port is used to carry multiple VLANs from the access switch to the aggregation switch.
- Management VLAN:** Configure a management VLAN for the access switch. The aggregation switch or core switch can act as the gateway for this subnet, and DHCP or static IPs can be used for management purposes.
- Layer 2 vs Layer 3:** Decide whether the uplink will operate as a Layer 2 trunk or a Layer 3 routed interface. For Layer 3, configure point-to-point interfaces and use a routing protocol (OSPF, EIGRP) for load balancing and redundancy.

Best Practices

- Stacking:** If multiple access switches are deployed, consider stacking them before connecting to the aggregation switch to simplify management and maintain consistent configuration.
- Spanning Tree Protocol (STP):**...

Article Content

Redundant Link Connection From Access Switch To HA Aggregation

Solved: Dear Support, I am configuring an access switch with main fiber link connection to Aggregation/core switch and a second fiber link connection to the same Aggregation/core switch.

Core, Aggregation, or Access Switches? Choose the

Discover the crucial differences between core, aggregation, and access switches. Find out which type can best transform your network's

What is "link aggregation" and how does it benefit your

When it comes to networking, a wired connection is always the best one. When one connection isn't enough however, link aggregation or bonding

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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.

Access, Distribution, and Core Layers Explained

A distribution switch provides an aggregation point for access switches. If the core switches exist, the distribution switches connect the access

Medium Branch Switch Configuration | Validated Solution Guide

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

HPE Aruba Networking CX switches

HPE Aruba Networking CX 6300 Switch Series Layer 3 stackable access and aggregation switches with Multi-Gigabit Ethernet, High Power PoE, and up to

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

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 points, or other edge devices and

Create and configure a virtual switch with Hyper-V

When you first install the Hyper-V role on Windows Server, you can optionally create a virtual switch at the same time. To learn more about virtual switches, see Hyper-V Virtual Switch. For

How to Join Any Minecraft Server on the Nintendo Switch

This is only a backup so your Nintendo Switch doesn't lose internet access in case the BedrockConnect instance goes down or is inaccessible.

Omada Access Max & Aggregation Switch_Installation Guide

If the switch obtains IP address from the DHCP server (typically a gateway), find the switch's IP address on the DHCP server. If not, use the default IP address 192.168.0.1 to launch the

Medium Branch Switch Configuration | Validated

Medium Branch Switch Configuration The In this deployment the Aggregation switch will have dual purposes, providing power and layer 2 access

Access layer | FortiSwitch 7.6.0 | Fortinet Document Library

To address this requirement, the MCLAG is extended down to the access layer by using a pair of high-end switches to create redundant uplinks to the aggregation layer. Enough bandwidth is left to the

Configuring Aggregation and Access Switches to Be Managed by the ...

After the aggregation and access switches go online, create Eth-Trunks between the access and aggregation switches. Create uplink Eth-Trunk interfaces on the access switches for connecting to

What Is an Aggregation Switch and How to Choose?

When selecting an aggregation switch, you need to consider the uplink port type and number of the network access switches, as well as the downlink port type of the core switch.

Network Switches

Our rack-mount industrial switches provide versatile connectivity with PoE, high-speed ports, stacking capabilities, and built-in security. These attributes make

How to Use Two Computers With One Display Monitor

Can I use my keyboard and mouse with different computers connected to the same monitor? The same keyboard and mouse can be used

Connecting to UniFi with Debug Tools & SSH

Connecting to UniFi with Debug Tools & SSH Users have options to connect directly to their UniFi device. The recommended method is to use the built-in Debug

S3410-24TS-P, 24-Port Gigabit Ethernet L2+ PoE+ Switch, 24 x PoE

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