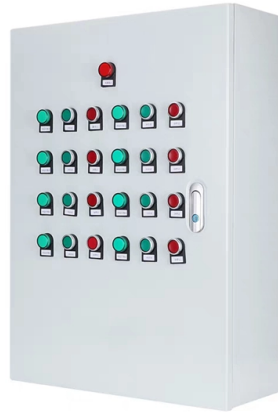


How to connect the aggregation switch to the core switch



Summary of Content

Connect aggregation switches to core switches using redundant uplinks with link aggregation and proper VLAN configuration to ensure high availability and efficient traffic flow.

Physical Connection

- **Redundant Uplinks:** Use at least two uplink ports from the aggregation switch to the core switch to provide redundancy and load balancing .
- **Fiber or High-Speed Links:** Typically, 10GbE or higher connections are used between aggregation and core switches to handle aggregated traffic from multiple access switches .
- **Port Mapping:** Ensure you know which ports on the core switch correspond to the aggregation switch uplinks. Commands like `display device wdm-port mapping slot` (Huawei) or equivalent on Cisco/Aruba can help identify ports .

Logical Configuration

- **Link Aggregation:** Configure the uplinks as a Port-Channel (Cisco) or Eth-Trunk (Huawei) to combine multiple physical links into a single logical link. This increases bandwidth and provides failover in case one link fails .
- For Layer 2 aggregation, LACP (Link Aggregation Control Protocol) is recommended.
- For static aggregation, manual configuration of active/standby links is possible.

Article Content

Core Switch Vs Aggregation Switch: What Is The Difference?

What Is an Aggregation Switch and How to Choose? It's aggregation in the sense that their other switches have 10G

Link Aggregation Switches: A Guide to LACP, LAG, and Throughput

By establishing a Link Aggregation Group (LAG), you can bundle two or more physical ports—such as connecting separate switches

LAN Topologies

A pair of core switches joins the aggregation switches together using high-speed, Layer 3 links and multiple equal-cost

SMB Switch: Access Switch vs Aggregation Switch vs Core Switch

The aggregation switch is used to aggregate the access switch. The core switch is used to aggregate the aggregation

How to configure LACP on our Smart/ Managed Switch

We strongly recommend you should firstly configure LAG feature on switch before other functions like VLAN, STP,

LAN switching

I am attaching diagram presenting 3 scenarios which I "invented" as the possible ways to connect aggregation switches

Configuring the Core Switch to Connect to the Passive Aggregation ...

This solution uses the following configuration as an example: The PEN central switches connect to one access switch and one RU

Data Center Multi-Tier Model Design

Data Center Core Layer The data center core layer provides a fabric for high-speed packet

LAN switching

I need to add multiple new stacks of 2960-X to the existing network. However, two existing 4500-X Core switches (in

What Is an Aggregation Switch?

An aggregation switch consolidates traffic from access switches, while a core switch acts as the backbone of the

Configuring the Core Switch to Connect to the Passive Aggregation ...

Configuring the Core Switch to Connect to the Passive Aggregation Module PEN Cable Connections and Port IDs

Solved: Link aggregation to 2 core switches

Hi guys, We're planning to purchase 2 x WS-C3750G-12S-E core switches and a WS-C2960G-48TC-L access

Aggregation Switches

Aggregation switches consolidate data traffic from multiple network access switches into a single high-bandwidth link

How to Configure Bridge Aggregation Ports on HP Switches

When you have configured the member ports as part of a bridge aggregation and one of

Understanding the Different Layers of Routing and Switching

The aggregation layer connects to the uplinks of the edge switches and is uplinked to the distribution layer toward the network core.

Data Center Aggregation Layer Design and Configuration with ...

Introduction This chapter covers the design recommendations for a data center design deployment consisting of a Cisco Nexus®

What is an Aggregate Switch?

The Need for Aggregation Without aggregation, each access switch would require a direct connection to the core

UniFi Port Switch Aggregation: What Is Switch Aggregation?

An aggregation switch is a network switch that sits between the access layer (edge switches) and the core layer

How To Set Up Switch Link Aggregation

Managed switches provide many advantages for a growing network, including support for VLANs, QoS, and Trunking. I touched on

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

Switching

It provides a step-by-step guide on configuring LAG, including checking port status, ensuring loop guard is

Switches: Link Aggregation

Link aggregation is most commonly used to link bandwidth intensive devices to the backbone of a network or for connecting core

Core Switch Vs Distribution Switch Vs Access Switch□What

Different types of Ethernet switches perform different roles in the layers of high-capacity networks. Core switches, distribution

In-depth analysis: What is an aggregation switch?

In many network constructions, we have all heard of switches. So do you really understand switches? Why are

Link aggregation

Link aggregation between a switch and a server In computer networking, link aggregation is the combining (aggregating) of multiple

What is an Aggregation Switch?

The aggregation switch is located in the middle of the network architecture, which is

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

What is Switch Aggregation, Its Role and Selection Advice

4. Functional management: Unlike core switches, aggregation switches can be either Layer 2 or Layer 3 switches.

Contact Us

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