

Configuration of Aggregation and Core Switches



Article Overview

Core switches provide high-speed Layer 3 routing and redundancy, while aggregation switches consolidate access switch traffic and provide Layer 2/3 services.

Understanding Roles

- **Core Switches:** Serve as the backbone of the network, handling high-speed packet switching, Layer 3 routing, and connectivity to aggregation switches. They are designed for high throughput, low latency, and fault tolerance .
- **Aggregation Switches:** Aggregate traffic from multiple access switches, provide Layer 2 and some Layer 3 services, support VLANs, QoS, and link aggregation, and often connect to firewalls or other network services .
- **Access Switches:** Connect end devices like PCs, IP phones, and APs, often with PoE support, and forward traffic to aggregation switches .

Core Switch Configuration

- **Redundancy and High Availability:**
 - Deploy core switches in pairs using technologies like VSX, MC-LAG, or VPC to ensure continuous connectivity .
 - Configure inter-switch links (ISL) using link aggregation (LAG) for the VSX or MC-LAG setup .
- **Routing and Layer 3 Services:**
 - Enable dynamic routing protocols such as OSPF or EIGRP for campus or data cent...

Article Content

Configuring Link Aggregation Group and Link Aggregation Control

Link Aggregation Group and Link Aggregation Control Protocol Configuration Procedures Cost savings resulting from use of existing

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

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.

Government HQ Campus Network Solution Deployment and

This document describes the deployment process of key capabilities of the government headquarters campus network solution,

Switching Vs Mirroring Vs Aggregate at Thomas Lujan blog

Switching Vs Mirroring Vs Aggregate. Learn what switch aggregation is, why it is important for network architecture, and how to

Aggregation Switch: Increasing the Priority of Special Traffic

Aggregation Switch: Increasing the Priority of Special Traffic Networking Requirements Core switches set up a CSS that functions as

Ethernet switches:5 networking methods

Let's elaborate on the role of the aggregation layer: The aggregation layer serves as a focal point for multiple access layer switches,

Port Aggregation Configurations

Port Aggregation Port aggregation allows you to group multiple physical ports into one unit. Port aggregation is useful for

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®

Contact Us

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