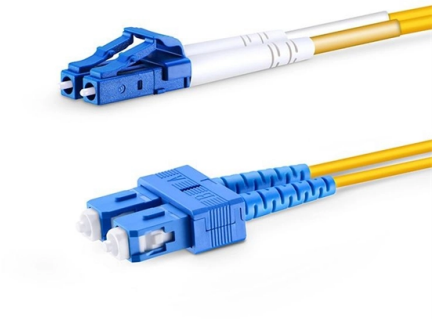
Two core switches connected



Overview

Solved: interconnecting two core switches Yes, I'm connecting a pair of switches configured in VSS mode to another pair of switches configured in VSS mode.

Key Takeaways

Two core switches can be connected for redundancy using MLAG, HSRP/VRRP, or EtherChannel, ensuring high availability and proper failover.

Physical Connection Options

Cascading: Connect the two switches using standard Ethernet ports. This increases available ports but keeps switches as independent devices. Each switch can be connected to access switches for redundancy.

Stacking: If supported, use dedicated stacking ports and cables to create a single logical switch. This provides unified management and redundant backplane bandwidth but usually requires the same vendor.

MLA

G (Multi-Chassis Link Aggregation): For switches like Extreme XOS or Cisco Nexus, MLAG allows links from access switches to appear as a single EtherChannel across two core switches, providing redundancy without stacking. Redundancy and FailoverHSRP/VRRP/GLBP: Configure a First Hop Redundancy Protocol to provide a virtual gateway IP. If one core switch fails, the standby switch automatically takes over, avoiding manual intervention.

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Ether

Channel: Aggregate multiple links between core switches or between core and access switches to increase bandwidth and provide link-level redundancy. Spanning Tree Protocol (STP): Ensure STP (preferably Rapid-PVST or RSTP) is configured to prevent loops. One core switch can be the root for certain VLANs, and the other can be secondary, balancing traffic and providing failover.

Best Practices

Connect each access switch to both core switches to achieve true redundancy. Use tracking features in HSRP/VRRP to monitor critical interfaces, such as uplinks to the firewall or internet, so failover occurs automatically. For high-performance environments, consider vPC (Virtual Port Channel) on Cisco Nexus or MLAG on Extreme switches to allow dual-active links without loops.

Maintain consistent firmware versions and configurations across core switches to avoid compatibility issues. Document all connections, VLAN assignments, and failover configurations for easier troubleshooting and maintenance.

Summary

Connecting two core switches effectively requires combining physical redundancy (dual connections, EtherChannel, MLAG) with logical redundancy (HSRP/VRRP, STP configuration). Proper planning ensures that if one core switch fails, traffic continues seamlessly, access switches remain connected, and network stability is maintained. This approach is applicable across vendors, but specific commands and features may vary depending on the switch model and manufacturer.

Article Content

Solved: interconnecting two core switches

Yes, I''m connecting a pair of switches configured in VSS mode to another pair of switches configured in VSS mode. I need to establish connection between these switches for routing

How to Connect Multiple Ethernet Switches Using Fiber

If you have multiple Ethernet switches that need to be connected over long distances, fiber is obviously a preferred choice. Moreover, when it comes to bandwidth, no currently available

How to Connect Two Switches Together: A Comprehensive Guide

Connecting switches can be achieved through two common methods: cascading and stacking. In this guide, we will explore these two approaches and provide you with the necessary

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Connecting two core switches : r/networking

Office network and Test Lab network is connected via point to point link. Both Office and Lab network have switches in spine (access layer) where servers or desktops are connected.

Connecting Multiple switches to core : r/networking

I''ve worked in large manufacturing facilities where the Core is connected to Distribution switches and they connect the standard layer 2 access switches. My boss was always on at me “upgrade the core

How to Connect Multiple Ethernet Switches

But how can we connect network switches together? This article will explore three common connection methods: switch cascading, switch stacking, and switch clustering, and will help

Link Aggregation and Load Balancing

Link bonding Link bonding, also known as teaming or bundling depending on the vendor, is generally implemented using two or more links between two logical devices. This could be two

Core Switch vs. Distribution Switch vs. Access Switch

Comprehensive guide to Core, Distribution, and Access Switches. Roles in the network and important parameters explained.

Core layer | FortiSwitch 7.6.0 | Fortinet Document Library

With 8x100-GbE QSFP28 slots per FortiGate unit, it provides enough capacity to directly connect with 2x100-GbE ports to each of the two core FortiSwitch units at a nonstop forwarding capacity of up to

Connecting Two Network Switches Together

In this video we take a look at the different ways of connect 2 switches together. There are many different ways of connecting two or more switches together ...

Connecting two core switches : r/networking

As Edge core is connected to switch so I am thinking about connecting Edge core direct to cisco router because I dont see a point connecting to the switch as there is no filtering via firewall happening. I

Connecting Switches Together

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I''m going to show you really quickly the process for connecting switches together and how connecting multiple switches together becomes the foundation for creating a computer network overall.

Edge switch redundancy to two core switches

I want to provide best redundancy for an access switch (Cisco 3650) when connecting to two core switches (Cisco 9500 series), as show in attached topology. My plan is to configure 2

How To Connect Two Switches Together In a Network

Switches are typically used in local area networks (LANs) and they allow multiple devices to communicate and share resources. There are three main types of switches - unmanaged,

Meraki Switches

Meraki cloud-managed network switch models Customers choose Meraki network switches for any location, topology, or connectivity need because they are easy

Connect 2 switches together through Access port or Trunk

Hi Everyone, We need to connect 2 switches together and have 2 options for them:- 1. Use access port on both sides 2. Use trunk port on both

How to configure two Core switches in a network with intervlan routing ...

Dear All, Hi Friends, i have two 3750 switches. I configured intervlan routing between three vlans which are vlan11,vlan12, and vlan13 in Core Switch1. These three vlans are communicate each

How do I setup two switches together?

How to Setup Two Switches Together Setting up two switches together can be a crucial step in expanding your network, providing more connectivity options, and increasing the overall

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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