

Connecting two core switches



AI Overview

The optimal way to connect two core switches is to use a combination of Layer-3 point-to-point links for routing and Layer-2 trunks for VLAN traffic, ensuring redundancy and proper spanning tree configuration.

Connection Methods

- Layer-3 Point-to-Point Links:** For core switches, it is recommended to establish Layer-3 connections using dedicated VLAN interfaces (SVIs) or routed ports. Each link should have its own subnet and IP addresses, allowing the switches to route traffic efficiently without creating Layer-2 loops. This approach reduces STP complexity and avoids broadcast storms between cores (Cisco community guidance).
- Layer-2 Trunks:** In addition to Layer-3 links, a Layer-2 trunk can be configured between the core switches to carry multiple VLANs. This trunk allows VLAN traffic to traverse both switches while maintaining VLAN separation. It is common to create a dedicated VLAN for the point-to-point link to simplify management and avoid conflicts with production VLANs.
- Redundancy and Spanning Tree:** Use Rapid-PVST or MSTP to manage Layer-2 loops. Define primary and secondary root bridges for each VLAN to control traffic paths. Align HSRP or VRRP active gateways with the spanning tree topology to ensure optimal routing for end devices.
- Stacking vs Cascading:**
 - Stacking:** If the switches support stacking, use stacking ports and cables to create a single logical switch. This provides high bandwidth and simplified management but requires switches from the same vendor.
 - Cascading:** If stacking is not supported, connect switches using multiple Ethernet links (port channels) to increase bandwidth and provide redundancy. Each switch remains independently managed.

Best Practices

- Use link aggregation (LACP) for multiple physical connections to increase throughput and provide failover.
- Separate management VLANs from data VLANs to improve security and monitoring.
- Ensure consistent firmware and configuration across core switches to prevent compatibility issues.
- Monitor traffic an...

Article Content

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 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,

Ethernet Cable Color Coding Diagram

Another way of remembering the color coding is to simply switch the Green set of wires in place with the Orange set of wires. Specifically, switch the solid Green (G) with the solid Orange, and switch the

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

Linking of multiple Ethernet switches — cascading,

In star topology, all switches in a network connect to a central "core" switch. Any communication between two switches in a star network is controlled

Connecting Multiple Switches

I have been tasked with implementing a new LAN. We have approximately 130 hosts across a warehouse. I am looking at the C2960X Cisco switches in a hub and spoke topology. With

Connecting multiple cisco dswitches together

What is the best approach, protocol and configuration to use when connecting 3 nx 9000 cisco switches together as core switches using fiber connects? We will eventually add edge switches.

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.

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

What is optimal way to connect two core switch/routers

All edge switches and WAN routers are connected to both core 4507s. We have a Port-Group of two wires connecting the core switches together, and we built a VLAN interface (with an IP

Using Eth-Trunk to Connect Two Access Switches to a Core Switch ...

More and more users connecting to the network want to communicate with each other. The links between SwitchA and SwitchB, and between SwitchA and SwitchC require sufficient bandwidth and

How To Connect Two Switches Together In a Network

In conclusion, connecting two switches together can be a simple process as long as the correct cable and ports are used. Once the switches are connected, the network can be expanded by

Core Switch & Access Switch Connections

I want to get 2x Cisco Catalyst WS-C3750X-24T-S Switches (and stack them). ESX servers, other servers and routers will be connected to the

Can you connect 2 switches together?

Can You Connect 2 Switches Together? In today's network infrastructure, switches play a crucial role in connecting devices and enabling communication. With the increasing demand for

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

How to Connect Multiple Ethernet Switches

Cascade vs Stack vs Cluster: Learn how to connect multiple Ethernet switches, compare the key differences, and choose the best setup to boost your network

Connecting Core to Access switches

I would recommend at least 2 copper runs per switch, which you can then put in a port channel, so that you have 2 Gbps of uplink for all of your edge switches. If you are planning on just

ITPro Today, Network Computing, IoT World Today combine

ITPro Today, Network Computing and IoT World Today have combined with TechTarget . The page you are looking for may no longer exist.

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

How to Connect Multiple Ethernet Switches Using Fiber

In cases where the distance between switches exceeds the total cable length, you can use the LC-LC coupler to connect two fiber optic cables together. For example, insert the connector

How to Connect Multiple Ethernet Switches

This article will explore three common connection methods: switch cascading, switch stacking, and switch clustering, and will help you determine the best approach

Solved: Redunancy with two switches core

Hello everyone, I have a customes have just bough ttwo switches core (L3), his today diagram network is: Access Switches come to one Switch

Connecting multiple switches correctly

These switches would be known as "Edge switches" Obviously I am not in the full know of what your network is for/about. However, as an example,

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