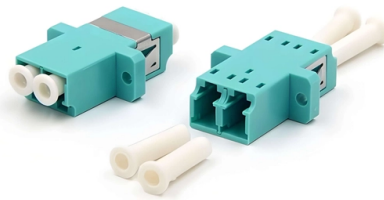


Connection of 2 core switches



AI Overview

Dual-core switches are interconnected using link aggregation, stacking, or VSX/MC-LAG configurations to provide redundancy, high availability, and efficient traffic distribution. Core-to-Core Connectivity Connecting two core switches ensures network resilience and load balancing. Common approaches include:

- Link Aggregation (LAG/EtherChannel):** Multiple physical links between the core switches are combined into a single logical link, increasing bandwidth and providing redundancy. If one link fails, traffic continues over the remaining links without disruption.
- VSX or MC-LAG:** In data center environments, core switches can be configured as a VSX pair (Aruba) or Multi-Chassis Link Aggregation (MC-LAG). This allows Layer 2 aggregation of access switches and provides a routed transit path between cores. If one core loses connectivity, the other maintains external reachability.
- Stacking:** Some switches support stacking, where multiple switches operate as a single logical unit. This simplifies management and provides a redundant backplane for traffic.
- Routing and Redundancy Considerations**
 - Dynamic Routing:** Implementing protocols like OSPF between core switches and upstream devices ensures optimal path selection and failover. Each core can advertise routes to the firewall or external networks, controlling preferred paths via routing metrics.
 - Spanning Tree Alternatives:** For Layer 2 links, RSTP, MST, or Flex Links can prevent loops. In VSX or VSS setups, spanning tree may be unnecessary because the dual-core pair handles redundancy internally.
 - VRRP/HSRP:** Virtual Router Redundancy Protocol or Hot Standby Router Protocol can be used to provide a virtual gateway IP for access switches, ensuring uninterrupted connectivity if one core fails.
- Access Layer Integration**
 - Eth-Trunk or LACP:** When connecting access switches to dual-core switches, EtherChannel or Eth-Trunk links provide high bandwidth and reliability. LACP is preferred if both ends support it; otherwise, manual load balancing can be used.
 - VLAN and Transit Paths:** VLANs can...

Article Content

IP-COM Switch 5port Gigabit G1105PD w/4port PoE

G1105PD 5-Port Gigabit PD Switch With 4-Port PoE G2224D is a 24-port Gigabit intelligent cloud management switch independently designed by IP-COM. It supports cloud WEB platform

Solved: Redunancy with two switches core

Hello everyone, I have a customer who has just bought two switches core (L3), his today diagram network is: Access Switches come to one Switch

Solved: how to connect two switches

I have two switches one in L3 and the other in L2. Several vlans on the network. Should I use a trunk connection between them or an etherchannel or port channel? what is the best way and when

Connecting Switches Together

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.

SAP Help Portal | SAP Online Help

SAP Help Portal provides online help and support for SAP software users.

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 don't see a point connecting to the switch as there is no filtering via firewall happening. I

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

Connecting Two Network Switches Together

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

Connecting two core switches : r/networking

Hello! We have an Office network and Test lab environment. Office network and Test Lab network is connected via point to point link. Both Office and Lab network have switches in spine (access layer)

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

Connecting core switches

Hi all, complete newbie here. I am following the CBT Nuggets CCNA course and am trying to connect all my equipment up. In regards to the core

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

Network with inter vlan routing

Hi community, I am new on the spiceworks so take me easy please. ☹️ I have project about building redundancy network based on Cisco. I have two

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

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

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

How To Connect Two Switches Together In a Network

Connecting two switches in a network is a simple process that can be done by following a few steps. Before starting the process, it is important to consider the type of switches and the type

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

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

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,

Internet connection to two core switches

Hi, I want to add some redundancy to my network by adding one more core switch. The problem is that I have only one internet connection. What

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

How to Connect Multiple Ethernet Switches Using Fiber

To connect multiple Ethernet switches, the best way is to use a multi-strand fiber cable. The 4-strand pre-terminated fiber optic cable consists of four

Core Switch vs. Distribution Switch vs. Access Switch

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

Contact Us

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