

Redundant Linking Methods for Core Switches



Overview

Parallel Redundancy Protocol (PRP) and High-Availability Seamless Redundancy (HSR) are two technologies that provide seamless transmission even when part of the network fails. According to the CORE's model, you should configure the two CORE as ONE CORE by using vPC, Stackwise or VSS technologies. In the event that one link fails, the secondary (or tertiary) link can take over, maintaining network uptime. This redundancy can be applied at various levels, including WAN connections. However, adding redundant links between switches create Layer 2 switching loops, and a loop prevention mechanism must be implemented. Download the guide and refer back to it at any time! In this article, we will provide: and a solution for avoiding Layer 2 loops in a switched topology. Cisco, Juniper, Arista, Fortinet, and more are welcome. They have a core L2/L3 with 3 L3 Meraki switches stacked. The idea is simple: if one component (e.

Article Content

Jan 06, 2026

Best way to create redundancy with 2x layer 2 Cisco switches

Hi, I have the below set up that and I'm trying to work out the best way to make the switches redundant so if one fails, comms are still available for all users.

May 02, 2026

LAN Switching with Redundant Links | NetworkAcademy.IO

In the real world, every network topology uses redundant devices and links because availability is paramount for computer networks. Let's look at how switches behave when there are redundant links.

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The Complete Solutions Guide to a Redundant Switched Topology - ...

We provide the reasons for implementing a redundant network, the benefits, the side effects, and the solution for avoiding Layer 2 loops.

Jun 04, 2026

The Right Redundancy Technology for Your Application | Moxa

Moxa offers a full range of redundancy technologies that can fulfill the requirements of any project. Below is an overview of our redundancy technologies, which work to ensure systems stay fully ...

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Data Center Network Switch Design

Redundancy and High Availability: Deploy redundant core switches, use dynamic routing protocols (such as OSPF, BGP) and link aggregation (LACP) to enhance network reliability.

Dec 22, 2025

Best Practices for Hierarchical Layers

Links to the core must be able to support the bandwidth used by the aggregate access layer switches. Redundant links from the access switches to the distribution layer and from the ...

Jan 29, 2026

The Complete Solutions Guide to a Redundant Switched Topology - ...

Physical Redundancy in A Network Redundant Topology – The Issue
Spanning Tree Protocol – The Solution
The solution to prevent Layer 2 loops comes from a protocol called Spanning Tree Protocol (STP). It was developed in the 1980s as a prevention mechanism that offers loop-free redundant topology regardless of the number of redundant switches or links in the topology. STP is enabled in Cisco switches by default, so no extra configuration is required ... See more on info.pivitalglobal
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In the real world, every network topology uses redundant devices and links because availability is paramount for computer networks. Let's look at how switches ...

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Solved: redundancy in core layer

In the core layer, I want to have redundancy, which means that if the main core switch of my network has a problem, the backup switch will automatically enter the circuit.

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Building Network Resilience: Implementing Redundant Links with UniFi

By implementing WAN failover, load balancing, link aggregation, and redundant wireless connections with UniFi devices, you can ensure your network stays online even when failures occur.

Dec 10, 2025

Redundancy for Core Switch Stack : r/networking

Stacking at the core (regardless of vendor) is universally a bad idea. If they're not wanting to buy all new expensive gear, you have two options, both with advantages and disadvantages. Split the stack into ...

Aug 27, 2025

Redundancy and Resiliency in Cisco Networks

This article explores the core concepts of redundancy and resiliency in Cisco networks, their significance, and how Cisco technologies enable businesses to build robust, always-on ...

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For more information, pricing, or custom solutions, please contact us:

Website: <https://www.chromadecksigns-eastrand.co.za>

Email: sales@chromadecksigns-eastrand.co.za

Phone: +32 2 318 5792

Address: Avenue Louise 500, 1050 Brussels, Belgium

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