

Dual-card slot core switch configuration

Article Overview

Dual-card slot core switches are configured to provide redundancy and high availability by installing two supervisor or line cards with stateful switchover and non-stop forwarding enabled.

Overview of Dual-Card Slot Configuration

Dual-card slot core switches, such as the Cisco Catalyst 9600 Series or Juniper EX9208, support redundant supervisor engines or line cards to ensure continuous operation during hardware failures or software upgrades . The key goals of a dual-card configuration are:

- High Availability (HA): Using 1+1 redundant supervisor engines or dual line cards to maintain packet forwarding if one card fails .
- Stateful Switchover (SSO): Ensures the standby supervisor takes over without dropping active sessions .
- Non-Stop Forwarding (NSF): Maintains uninterrupted traffic forwarding during supervisor switchover .
- In-Service Software Upgrade (ISSU): Allows software updates without downtime, critical for core network operations .

Cisco Catalyst 9600 Series Example

- Install Supervisor Engines: Insert two supervisor engines into the designated slots. The system automatically designates one as active and the other as standby .
- Install Line Cards: Populate line-card slots according to network requirements. Each line card can handle multiple 10G, 25G, 40G, 100G, or 400G ports

Article Content

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Compare Nexus 9000 Series Switches

This table compares features of the Cisco Nexus 9504, 9508, and 9516 Switches.

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Complete RAM channel config guide comparing dual-channel vs quad-channel performance. Learn optimal

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NOTE: A NOTE indicates important information that helps you make better use of your product. CAUTION: A CAUTION indicates

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Multi-Channel Memory Guide

Multi-Channel Memory Guide Your computer performs best when you use all the memory channels available on your

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Cisco Catalyst 9600 Series Switches Data Sheet

Cisco Catalyst 9600 Series switches offers the ability to mix and match a range of line cards to support numerous cores and

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Two-Tier Core

Prepare switches for deployment in Aruba Central for building a Two-Tier Data Center. The L2 Two-Tier Data Center

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How to Make Your RAM Run in Dual-Channel Mode

In this video I show you how to orient your RAM modules in your desktop PC to ensure

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Dual channel mode for DDR5, DDR4, DDR3, DDR2 and

Broadly speaking, in theory a Dual Channel configuration doubles the data transfer rate of

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Cisco Catalyst 9600 Series Switches

Cisco Catalyst 9600 Series Switches - Some links below may open a new browser window to display the document you selected.

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Core Switch vs. Distribution Switch vs. Access Switch

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

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Introduction to Core Switch Configuration

A switch that functions as part of a router and operates at the third layer of the OSI network standard model, the network layer. The

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FS Community

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

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Supermicro GPU Servers

In the figure below, each CPU (and PLX switch) has 4 GPUs, 2 AOC cards, and 4 NVMe storage devices. This type of system is the

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Typical Stack Configuration of Fixed Switches

S300, S500, S2700, S3700, S5700, S6700, S7700, and S9700 Series Switches Typical Configuration Examples (V200) This

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Guide to Basic Switch Configuration | Auvik

Switch configuration on your own can seem like a daunting task. Use this handy guide to get your network switch up

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Best Practices for Switch Stacking Configuration

Learn what is switch stacking and how to best leverage it to maximize your network's performance. Find out the complete

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Two Card Trick | Canon EOS cameras with dual card slots

Back in 2004 when the first EOS camera with dual card slots – the professional EOS-1D Mark II – was launched, media cards had a

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PCIe Architecture: From Basics to Multi-GPU Setups for AI ...

The PCIe Switch plays a vital role in effectively managing the communication between the GPU and the dual CPU arrangement,

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Cisco Catalyst 9600 Series Switches Data Sheet

This data sheet provides detailed information about the Cisco Catalyst 9600 series switches including chassis, line

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Core Switch and Access Switch configuration

10-04-2017 06:11 AM What configuration have you got at the moment? Exactly what are you trying to acheive on the core switch?

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Dell PowerEdge R760 Technical Guide

The Dell PowerEdge R760 is Dell's latest two-socket, rack server that is designed to run complex workloads using highly scalable

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Typical Stack Configuration of Fixed Switches

You can configure required features after deploying a campus network. This document provides campus networks typical

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Designing Highly Available Networks Using Catalyst 9000 Switches

In this session, Our focus will be to learn about the existing and new High Availability features present on the Catalyst 9k Switches.

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Using Two Ethernet Cards to Increase Network Throughput

Learn how to configure dual Ethernet cards to increase network throughput on Linux.

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How to configure redundant core switch in collapsed core?

With a routed access design, you'd configure a default gateway per access switch then route the connections to both cores. The

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Introduction to Core Switch Configuration

In case of problems in a certain switch between core switch and dual aggregation switch, three-layer routing equipment and virtual

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SME Network Solution Typical Configuration Examples

Support Documentation Enterprise Network Solution Horizontal Solutions
CloudCampus SME Configuration & Commissioning

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Configuring the Core Switch

Configuring the Core Switch Context In this scenario, IP addresses of the interfaces connecting the core switch to the

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Advice on core switch setup : r/sysadmin

For smaller deployments, the goto Cisco configuration is a pair of 4500-X switches in a VSS configuration with 2960-X switches for

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Aruba 6400 Installation and Getting Started Guide

Never have more than one power supply or module slot uncovered at a time while the switch is powered on. Install a blank slot cover

Contact Us

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