

How to manage the core switches in two data centers



Article Overview

Effective management of core switches in two data centers requires redundancy, centralized monitoring, and consistent configuration across sites to ensure high availability and performance.

Core Switch Architecture and Redundancy

In a dual data center setup, core switches typically form the backbone of the network, connecting aggregation and access layers while providing Layer 3 services such as routing between VLANs and external networks . To ensure high availability, deploy redundant core switches at each site, often in a VSX or MC-LAG configuration. This allows multiple physical links to act as a single logical link, providing load balancing and failover without requiring complex loop avoidance mechanisms . Each core switch should connect to all aggregation or top-of-rack (ToR) switches to maintain uninterrupted connectivity during maintenance or failures.

Centralized Management

Use a centralized management platform like Aruba Central or Cisco DNA Center to manage both data centers from a single interface . Centralized management enables:

- Configuration consistency across sites
- Firmware updates and patch management without downtime
- Performance monitoring and troubleshooting...

Article Content

Sep 15, 2025

Data Center Networking: A Comprehensive Guide

Data center networking integrates network assets, including switches, routers, and load balancers, to handle data storage and

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Connecting multiple cisco dswitches together

What is the best approach, protocol and configuration to use when connecting 3 nx 9000 cisco switches together as

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Aruba Central Two-Tier Data Center

This guide demonstrates using Aruba Central to build a Two-Tier data center solution. Topics include switch

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Data Center Switches – Cisco Nexus

Transform your data center and cloud networking infrastructure with Cisco Nexus 9000 Series and Cisco MDS switches.

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Enterprise Switch VS Data Center Switch: Selecting the Perfect Fit for ...

Choosing the right switch for your network can be a challenge. In this article, we'll compare enterprise and data center

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Data Center Network Switch Design

In a large network, we will have different types of switches involved and they play different roles when it comes to the

May 14, 2026

5 Best Practices for Data Center Switching Management

Strong data center switching management is essential for reliable, high-performance networks. By prioritizing

May 25, 2026

Linking of multiple Ethernet switches — cascading, stacking and ...

In the following sections, we're going to delve deeper into the characteristics, pros, and cons of each technique: switch

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Replacing one core switch with two new core switches

I will have to replace our old core Cisco switch C4506-E with two new core switches C9500 that will be located in two

Jun 01, 2026

Connecting multiple switches correctly

Plug all other switches into the core switch above. These switches would be known as "Edge switches" Obviously I am

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All Switches Products

Cisco has a comprehensive portfolio of network switches and switching solutions for enterprise networks,

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Differences Between Data Center Switch And

Discover the key differences between data center and enterprise switches. Compare

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Core switches between 2 data centers

If you're getting NEXUS 7K's then you can look at OTV to help mitigate the risk of spanning broadcast domains

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How to Connect Multiple Ethernet Switches

This article will explore three common connection methods: switch cascading, switch stacking, and switch clustering,

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Core Switch

Core switches are defined as high-capacity switches located at the top of a cloud data center network, connecting aggregation

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Two-Tier Core

Configure Two-Tier core switches as a VSX pair for Layer 2 aggregation of the data center access switches, IP data

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Data Center Design Considerations

No two data centers are alike when these aspects are combined. The right answer for a particular data center design

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Core Switch vs. Distribution Switch vs. Access Switch

The layer 2 switches collect the data from core switches, identify the type of data packet and the address of the access device.

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Demystifying Data Center Networking: A Beginner's

Explore essential data center networking components like switches, routers, and cabling.

Jun 05, 2026

Cisco core switches high availability

Hello everyone, In my campus network i have cisco 2960x as access switches and one cisco 3750 as core switch

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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

Oct 16, 2025

Core layer | FortiSwitch 7.4.0 | Fortinet Document Library

With the use of a core layer, each aggregation switch only needs 2x100-GbE links, and the core layer is the only place where you

Jan 02, 2026

Unique gateway between 2 data centers using nexus core switches

In that scenario, all services have to run in one data center or the other. If you need both to be simultaneously active,

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Data Center Switch Wiki and Buying Guide

Learn how to choose the best data center switch with insights on functions, size, data rate, hardware and software to future

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Core switches between 2 data centers

Existing data center has 2 X Cisco 6500 series core switches, new data center has 2 X Cisco nexus core switches.

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Best Switches for Data Centers: An in-depth Analysis

Learn about the unique needs of data centers and the best data center switches, along with an in-depth analysis of

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Configuring a Data Center Network Based on VS and VRRP

On the data center network shown in Figure 1-3, a CE12800 connects to multiple access switches. VSs need to be created on the

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