

Virtual Core Switch Configuration



Article Overview

Virtual core switches can be configured using technologies like Cisco VSS/StackWise Virtual for physical switches or Hyper-V virtual switches for virtualized environments, ensuring high availability, redundancy, and efficient network management.

Cisco Virtual Switching System (VSS) / StackWise Virtual

Overview: Cisco VSS and StackWise Virtual allow two physical switches to operate as a single logical switch, simplifying management and improving bandwidth utilization . This is ideal for core or distribution layer switches in enterprise networks.

Prerequisites:

- Compatible hardware (e.g., Cisco Catalyst 6500 series for VSS, Catalyst 9000 series for StackWise Virtual)
- Identical supervisor engines and modules
- Network Advantage license for command support
- Proper IOS XE software version supporting VSS/StackWise Virtual Configuration

Steps:

- Set Switch Numbers and Priority: Assign unique switch numbers and set a higher priority on the primary switch to ensure it becomes active .
- Configure Virtual Switch Domain: Apply the domain configuration on both switches (e.g., domain 1), .
- Configure StackWise Virtual Link (SVL): Connect switches via SVL interfaces for control and data plane communication. Ensure all SVL ports share the same speed and avoid VLAN 4094

Article Content

Configuring Virtual Port Channels

Configuring Virtual Port Channels A virtual port channel (vPC) allows links that are physically connected to two different

Configuring Aruba VSX on CX Series Switches

Aruba VSX (Virtual Switching Extension) provides high availability and simplified management by allowing two physical

Advice on core switch setup : r/sysadmin

Advice on core switch setup So I'm much more of a SysAdmin and not a NetAdmin, but we're been recently having a lot of problems

Configuring VSs

CloudEngine 16800, 12800, 9800, 8800, 7800, 6800, and 5800 Series Switches
Typical Configuration Examples (V100 and V200)

StackWise Virtual: The Evolution of Cisco Core Architecture ...

The StackWise Virtual domain configuration must be applied on both switches, with specific differences noted below.

High Availability Configuration Guide, Cisco IOS XE Dublin 17.10.x ...

The CPU on the Cisco StackWise Virtual active switch sends Forwarding Information Base (FIB) updates to the Cisco

Cisco Nexus 5000 Series NX-OS Software Configuration Guide

This section describes the configuration of virtual interfaces on the Cisco Nexus 5000 Series switches. It includes the

Core Switch and Access Switch configuration

HI TEAM, I have a 2 3850 core switch which is on HA and 2960x for my access switch, i requiried help on 2 things. 1)

RetroArch

RetroArch is a frontend for emulators, game engines and media players. It enables you to run classic games on a wide range of

AOS-CX 10.13 Virtual Switching Extension (VSX) Guide

It is intended for administrators responsible for installing, configuring, and managing Aruba switches on a network. Updates to this

Configuring the Core Switch

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

Part 2: Stackwise Virtual & configurations

Part 2: Stackwise Virtual & configurations Core switching in the Cisco with two devices having the same control plane

Virtual switching system (VSS) Configuration For Cisco 4500 series ...

Introduction The Cisco Virtual Switching System is a clustering technology that pools two Cisco Catalyst 4500-E

Setting Up a Virtual Device Context on Cisco Switches: A Practical ...

VDC Configuration on Cisco Switches: Practical Guide Discover how to set up virtual device contexts on Cisco switches

Setting Up Virtual Switches

Virtual Switches You can configure a 7000 or 8000 Series device in a Layer 2 deployment so that it provides packet switching

Switch Virtual Interface

About SVI External Encapsulation Scope In the context of a Layer 3 Out configuration, a switch virtual interfaces (SVI), is configured

To replace your two core switches with a Virtual Switching System

We are planning to replace these two independent cores with a VSS (Virtual Switching System) pair. Could you

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

Managing Virtual Switches

Virtual Ethernet Module (VEM)—Virtual line card that is embedded in each VMware vSphere (ESX) host. Managing a virtual switch

Data Center Aggregation Layer Design and Configuration with ...

Introduction This chapter covers the design recommendations for a data center design deployment consisting of a Cisco Nexus®

StackWise Virtual Configuration on Catalyst 9500-48Y4C

Learn how to configure StackWise Virtual on a pair of Catalyst 9500 48Y4C switches and pick ports for the StackWise

Hyper-V Virtual Switches: Types and Configuration

Discover the 3 types of Hyper-V virtual switches: external, internal and private. Learn how to create and configure

SME Network Solution Typical Configuration Examples

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

Setting the number of cores per CPU in a virtual machine

Procedure to set the number of cores per CPU in a VM: Step 1: Determine the total number of vCPUs to allocate to

Two-Tier Core

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

Understand Virtual Port Channel (vPC) Enhancements

This document describes details surrounding common Virtual Port Channel (vPC) enhancements configured on Cisco

Virtual Chassis User Guide for Switches

Use this guide to set up and configure an EX Series or QFX Series Virtual Chassis. A Virtual Chassis is composed of

Create and configure a virtual switch with Hyper-V

Learn how to create and configure a virtual switch for use by the Hyper-V host and guest virtual machines.

How to Configure Virtual Switches in Hyper-V (2025)

The issue is usually your virtual switch configuration. Learn when to use external, internal, or private switches, and

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