

How to configure a router using a dual-core switch



Article Overview

Configure dual-core switches with redundancy using VSX/VSS, port channels, and proper STP/MSTP settings to ensure high availability and load balancing.

Core Switch Setup

For dual-core switches, consider configuring them as a VSX pair (HPE/Aruba) or VSS (Cisco). This allows the two physical switches to operate as a single logical device, simplifying Layer 2 aggregation and enabling multi-chassis link aggregation (MC-LAG) to access switches. Create a link aggregation (LAG) interface between the cores to serve as the inter-switch link (ISL) for VSX/VSS, ensuring redundancy and high throughput.

Access Switch Connectivity

Connect each access switch to both core switches. If the cores are configured as a single logical device (VSX/VSS), you can create a port channel on the access switch that includes both uplinks. This provides uplink redundancy and load balancing without relying solely on STP. If the cores are not logically combined, configure separate links and rely on STP/MSTP to block one path and prevent loops.

STP/MSTP Best Practices

- Use Multiple Spanning Tree Protocol (MSTP) for predictable Layer 2 topology

Article Content

Configure Routers and Switches

Configure routers and switches with routing protocols, ip addressing, NAT, VLANs, QoS and more. Hands-on configuration skills you

How to Set Up a Router

Learn how to set up your router stress-free by choosing the best location, testing connections, and securing it with a strong password.

How to Configure a Cisco Switch (step by step)

If you're looking to configure a switch for the first time, this post is for you. Learn step-by-step configuration commands

How to Configure Router and Switch | Ultimate Guide

Do you know the best configuration settings for your routers and switches? Read my guide and take advantage of

Step-By-Step Guide: How to Connect Switch to Router and Configure ...

Knowing how to connect switch to router is quite essential to enter the ethernet network. In this blog, we'll provide a

How to Configure Router and Switch | Ultimate Guide

In this guide, I've outlined several best practices to help you figure out how to reconfigure your routers and switches.

How To Set Up Your Dual-WAN Router

Another interesting advantage to Windstream is with a bridged modem/router connected to a switch, you can connect two routers

VLAN routing between switch and router

Also the port used for connecting Core switch to router is trunk port, please check the config below for this port.. But

Configuring VLAN Routing Using Engage

In this guide we will be going over how to configure multiple VLANs with routing so that each VLAN has Internet access. We will be

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

networking

And if you help in understanding the "Internet Setting" and "LAN setting" in the case of router with integrated switch, it

How to Configure Router (Step-by-Step)

Installing and configuring a router can sometimes be a bit challenging. How do you connect the cables, how do you

How to Connect a Switch to a Router and Configure Settings

Learn how to connect a network switch to your router and configure router settings effectively. This guide covers each

Internet Connectivity Mastery: Step-by-Step Switch and Router ...

Mastering switch and router configurations isn't just about following steps—it's about understanding the underlying principles of

8 Steps to configure your network switch

Learn how to setup a network switch with ease. Switches allow you to send and receive information efficiently and securely. Get

8 Steps to configure your network switch

Just like riding a bicycle, nobody's born knowing how to setup a network switch. And this process is a little more advanced than, say,

How to Set Up & Configure a Router: Step-by-Step Guide (2024)

Learn how to set up and configure a router with our comprehensive guide. Step-by-step instructions for wireless setup,

Dual Core Design

Need clarification on dual core switch design. Should be a pretty easy question, but the dual core design is just 2 core routers

Basic Cisco Router Configuration Step-By-Step Commands

This is a step by step configuration guide of Cisco routers to help you get up and running with this network device. The most basic

Recommendations: Dual Core Switch for redundancy.

How about OSPF between the CORE switches and the firewall and advertise the default route to them? Have both

Step-by-Step Guide: How To Setup A Network Switch And Router

Router and Switch Configuration Aside from expanding your network's capacity, using a network switch also opens up opportunities

How to configure routers and switches using a CCNA course

Discover how to effectively configure routers and switches to enhance network performance and security. This comprehensive guide

How to Configure a Cisco Switch in 10 Steps

Whether you're configuring a single switch for a small office or managing a more complex network with multiple

Inter-VLAN Routing Configuration

Configuring inter-VLAN routing typically involves setting up VLAN interfaces, assigning IP addresses to each VLAN,

Router to Router Connection: Expand Your Home Network

You need an Ethernet cable to connect two routers in your home network. If your routers are wireless, use different Wi

How To Use A Network Switch With 2 Routers

This article will guide you through the process of using a network switch with two routers,

Cisco Router-on-a-stick with Switch

Router on a Stick Configuration Example with Diagram and actual commands on Cisco Switch and Router. Download

How to Configure a Cisco Switch in 10 Steps

Learn how to Configure a Cisco Switch. Follow along this Step-by-Step guide that will get you using Commands via

Configure Inter-VLAN Routing with Catalyst Switches

This document describes how to configure Inter VLAN routing with Cisco Catalyst series switches.

Step-by-Step Guide: How To Setup A Network Switch And Router

By following this step-by-step guide, you can successfully set up a network switch and router to optimize your home or office network

How to Use a Router as a Switch: A Step-by-Step Guide

Repurpose an old router into a switch to expand your home networkIf you need to add more devices to your network,

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