One core switch enables VLAN interconnection



Overview

A VLAN is a broadcast domain that lives inside your switch. Instead of buying five physical switches for five departments, you buy one switch and create five VLANs. Because the use case is so common, network administrators need to understand inter-VLAN routing. In this article, we'll take a closer look at the network fundamentals behind inter-VLAN routing, discuss how it. Before you create VLANs, you must decide whether to use VLAN Trunking Protocol (VTP) to maintain global VLAN configuration for your network. If you plan to configure many VLANs on the device and to not enable routing, you can set the Switch Database Management (SDM) feature to the Access template. This shows how important a good VLAN design is. Inter vlan routing makes it easy and safe to share data between different segments. A router on a stick or a Layer 3 switch can help protect. In this example, Internet access traffic of users passes through the BRAS, and then reaches the egress network of the firewall through the core switch. Therefore, you are advised to. Inter-VLAN routing is a network configuration technique that allows communication between devices on different VLANs (Virtual Local Area Networks) within the same network VLANs are commonly used to segment a network, improving performance and security by isolating traffic within each VLAN. I want to add another 3750 l3 at the core layer to provide both load balancing and high availability. What is the recommendations?

Thanks.

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Article Content

Inter-VLAN Routing | LogicMonitor

Network administrators can accomplish this using inter-VLAN routing with a router or Layer 3 switch to route traffic between VLANs while still

VLAN Configuration Guide, Cisco IOS XE 17.18.x

For information about the supported scalability of STP virtual ports, see the Cisco Catalyst 9300 Series Switches Data Sheet. The device supports

Inter VLAN Routing Explained for Network Pros.

Inter-VLAN routing allows devices in different VLANs to communicate with each other using a router or Layer 3 switch.

Configuring Interconnection Interfaces and Routes for the Core Switch

Traffic passing through the BRAS is classified into education network traffic, ISP1 traffic, and ISP2 traffic. Therefore, you are advised to configure corresponding VPN instances on the core switch to isolate

Cisco core switches high availability

Everything coming in to your core will get routed through either one core or the other. You should also configure your vrrp masters based on heavy traffic flows so that vlans supporting

Inter-VLAN Routing: Connect VLAN-to-VLAN

This article provides a step-by-step walkthrough, including configuring VLANs on a Cisco switch, setting up trunk ports, creating router sub

Inter-VLAN Routing Configuration Guide 2026

In this setup, switches containing multiple VLANs are connected to a single router through a single physical uplink. However, the router employs virtual subinterfaces and uses one sub

Inter-VLAN Routing: RoAS, SVIs & What Breaks First

Once ip routing is enabled and SVIs are up, the switch builds a routing table with connected routes for each VLAN subnet. That''s what enables traffic to move between VLANs at wire

How to Configure VLAN and Inter-VLAN Routing on Cisco Switches

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Learn how to configure VLAN and inter-VLAN routing on Cisco switches using CLI. Step-by-step VLAN setup, trunking, router-on-a-stick, and SVI configuration for small to medium-sized business networks.

lsw_rtng_vlan_ovw.fm

VLAN can be thought of as a broadcast domain that exists within a defined set of switches. A VLAN consists of a number of end systems, either hosts or network equipment (such as bridges and

VXLAN Data Center Interconnect Using EVPN

This enables the CE to load balance traffic to the multiple PE routers. More importantly, it allows a remote PE to load balance traffic to the multihomed

Data Center Interconnection with VXLAN

Most network designers would prefer that data center interconnection over wide area networks (WAN) be performed at layer 3, without layer-2 connectivity spanning data centers. However, application

VLAN Configuration Guide, Cisco IOS XE 17.14.x (Catalyst 9400 Switches)

If you plan to configure many VLANs on the device and to not enable routing, you can set the Switch Database Management (SDM) feature to the Access template, which configures system

Understanding VLANs and Inter-VLAN Routing

Understanding VLAN tagging is essential for implementing more advanced networking concepts like inter-VLAN routing, which allows devices on

Inter-VLAN Routing Configuration

To enable a multilayer switch to perform routing functions, logical (virtual) interfaces known as Switch Virtual Interface (SVI) are used, one for each

Inter-VLAN Routing: Connect VLAN-to-VLAN

Inter-VLAN routing is the way computers and devices in different VLANs (Virtual Local Area Networks) talk to each other. Normally, devices in one

What Is a VLAN? Definition, Core Components

What is a VLAN, how do VLANs work, and where do they fit into modern security strategies? Uncover everything you need to know about how

Cisco Application Centric Infrastructure (ACI) Design

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