

How to configure the core switch for three networks



Article Overview

To configure a core switch for three networks, you need to create VLANs for each network, assign IP addresses to VLAN interfaces, configure inter-VLAN routing, and connect access switches or routers appropriately.

Step 1: Plan VLANs and IP Subnets

- Assign a unique VLAN ID for each network (e.g., VLAN 10, VLAN 20, VLAN 30).
- Allocate an IP subnet for each VLAN (e.g., 192.168.10.0/24, 192.168.20.0/24, 192.168.30.0/24).
- Decide on a management VLAN separate from user VLANs (e.g., VLAN 5) and assign a management IP address for switch administration .

Step 2: Configure VLANs on the Core Switch

- Enter global configuration mode: `configure terminal`
- Create VLANs:
`vlan 10 name NetworkA`
`vlan 20 name NetworkB`
`vlan 30 name NetworkC`
- Assign ports to VLANs as access ports for connected devices:
`interface GigabitEthernet0/1`
`switchport mode access`
`switchport access vlan 10`
`exit`
`interface GigabitEthernet0/2`
`switchport mode access`
`switchport access vlan 20`
`exit`
`interface GigabitEthernet0/3`
`switchport mode access`
`switchport access vlan 30`
`exit...`

Article Content

How to configure a Cisco Layer 3 Switch-InterVLAN ...

The above feature means that you can implement Layer 3 functionality in your network without using a regular router. If you don't

Cisco Switch Selector

Medium-size to large-scale SAN architectures built with SAN core directors can expand 32-Gbps connectivity to the server rack

Two-tier and three-tier switch architectures

Switch network designs in overview Three-tier design for large networks A three-tier model of network design is a proven and well

Data Center Design: Basic 3 Layers, Core, Aggregation, and Access

Key Features of 3 layers design of Data Center: Data center network is divided into 3 standard three-layer structure.

8 Steps to configure your network switch

Follow these simple best practices to set up a new network switch. Still fuzzy? Just like riding a bicycle, nobody's born knowing how

How to configure Layer 3 Switch using Vlan's

How to configure Layer 3 Switch using Vlan's In this lab i divide the switches like the Core switch, Distribution layer

Configure Inter VLAN Routing with Multiple Switches

With multiple switches generally you still set one switch (your core or distribution) switch as the switch operating at

Creating a Base Configuration for a Cisco IOS Switch: A Step-by-Step

Learn how to set up a base configuration for network switches. Secure, optimize, and enable remote access with our step-by-step

How to configure two Core switches in a network with intervlan routing ...

Dear All, Hi Friends, i have two 3750 switches. I configured intervlan routing between three vlans which are

Routing Between VLANs & Layer 3 Switches

Routing Between VLANs & Layer 3 Switches Routing Between VLANs & Layer 3 Switches We wrote an article which covers Virtual

Difference between a core switch and "normal" switch?

Your switch stack is essentially a collapsed core, in this particular configuration, and there isn't anything wrong with that.

Most efficient way to connect three network switches

I have three GS752TP-200EUS Netgear switches and I'm looking for the most efficient way to connect these together.

Configuring the Core Switch

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

Layer 3 Switch Example

Now that the distribution switch is performing inter-VLAN routing for the network, we will need to perform some additional

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

Core Switch Explained: Key Functions and Benefits

Discover what a Core Switch is, its pivotal role in network architecture, and how it boosts performance and reliability in

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

Solved: Redunancy with two switches core

Hello everyone, I have a customer who has just bought two switches core (L3), his today diagram network is: Access

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

Cisco Switch Layer2 Layer3 Design and Configuration

Therefore, learning about some basic switch design and configuration principles will prove beneficial for your professional career.

Basic Cisco Switch Configuration Example in 10 Steps

Unlike other lower class switch vendors (which are plug-and-play), the Cisco switch needs some initial basic configuration in order to

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

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.

Core Switch vs. Distribution Switch vs. Access Switch

Core Switch vs. Distribution Switch vs. Access Switch: Understand Their Roles in Ethernet Networks Ethernet networks are growing

Three-tier switch networks: LANCOM Systems GmbH

Efficiently plan and implement 3-tier switch architectures with core, aggregation, and access switches from LANCOM!

How to configure VLAN with 3 cisco swicthes, core switch and ASA5510

There three switchers in the building and some of the ports on these switches need to have their own VLANs that the

Solved: Configure Core Switch | Experts Exchange

Assuming I have 4 Layer switches configure with several VLANs on each switch and each switch is configured with IP

What Is a Core Switch?

A core switch is the backbone of a large-scale network, designed to handle massive volumes of traffic with ultra-low latency and

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

SME Network Solution Typical Configuration Examples

"Gateway + Core Switch + Access Switch + AP + AR180" Networking: Huawei eKit Cloud Management "Gateway + Core Switch +

Connecting multiple layer 3 switches together each with their own svi

Replace the layer 2 switches with layer 3 switches and configure them such that clients communicating from two

How to configure existing core switch as stack

Currently core switch has only a few VLANs and few routing as configuration. I need to know that the core switch

Contact Us

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