

Configuration of Core Switch for Leased Line Access



AI Overview

Configuring a core switch for leased line access involves setting up VLANs, trunk ports, IP addressing, QoS, and redundancy to ensure reliable and prioritized traffic flow.

Core Switch Role and Considerations A core switch serves as the backbone of the network, connecting distribution and access layers while handling high volumes of traffic. Key considerations include Quality of Service (QoS) to prioritize critical traffic, redundancy with dual power supplies and HA configurations, and compliance with Ethernet protocols for seamless integration with access and distribution switches.

Basic Configuration Steps

Access the Switch CLI: Connect via console or SSH and enter privileged EXEC mode using `enable`.

Set Hostname and Passwords: Assign a hostname and configure `enable secret` for privileged access. Secure console and VTY lines with passwords or AAA authentication.

Assign Management IP: Configure an IP address on a VLAN interface for management and set the default gateway:

```
CodeCopyinterface vlan 1ip address 10.1.1.1 255.255.255.0no shutdownip default-gateway 10.1.1.254
```

 This allows remote management and monitoring.

VLAN and Trunk Configuration Create VLANs for different traffic types (e.g., data, voice, leased line):

```
CodeCopyvlan 10name Datavlan 20name Voicevlan 30name LeasedLine
```

 Assign trunk ports to connect to distribution or access switches, allowing multiple VLANs to traverse a single link:

```
CodeCopyinterface gigabitEthernet 1/1switchport mode trunkswitchport trunk allowed vlan 10,20,30no shutdown
```

 Access ports for end devices should be assigned to the appropriate VLAN:

```
CodeCopyinterface gigabitEthernet 1/2switchport mode accessswitchport access vlan 10no shutdown
```

Leased Line Integration Configure a dedicated VLAN or SVI for the leased line to separate traffic from internal LANs. Apply QoS policies to prioritize leased line traffic,...

Article Content

Configuring ISDN BRI Leased Line Access

When a branch company needs to exchange a large amount of data with the headquarters or other branch companies for a long period of time, an ISDN BRI leased line can be established to ensure

How do I configure my switch to work with optical leased line?

Hi, I am new to this forum but have a challenging problem, well for me. I have just had a 1GB Leased Line installed and the interface (connectivity presentation) is MMF (Multi Mode Fibre)

Leased Line Network Architecture | Leased Line

Leased Line Connection Diagram Below is a block diagram illustrating a typical leased line network architecture connecting two branch offices (Branch

Distribution & Core layer switch configuration

Hi, I have 6500, 4500 & 3500 switches. I want to configure 6500 as core, 4500 as distribution & 3500 as access layer switch for the campus lan. As best practice where should i

Core Switch and Access Switch configuration

We have Data VLAN and Voice VLAN on 3850 switch. i need to bypass the voice traffic from the firewall. all voice traffic should go via 3850 switch to avoid load on firewall. Solved: HI TEAM,

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 for Cisco IOS Switches.

SME Network Solution Typical Configuration Examples

"Gateway + Core Switch + Access Switch + AP + AR180" Networking: Huawei eKit
Cloud Management "Gateway + Core Switch + Access Switch + WAC + AP"
Networking: Local Entire Network

Core Switch vs Access Switch | Definitions and Key Differences

This article focuses on the hierarchical internetworking and core switch vs access switch differences. We also discussed the core switches type and built a basic understanding of how a

Initial Switch Configuration

Whether the configuration deployment of a switch is completed all at once or done in phases, the basic switch settings must first be configured. The initial management configuration includes setting IP

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 and becoming more complex,

Understanding the Core Switch: Key Differences and Uses

Explore the core switch's role as the backbone of your network. Discover key differences, uses, and insights into layer 3 core switch technology.

Access, Distribution, and Core Layers Explained

This tutorial provides an overview of the access, distribution, and core layers and explains two-tier and three-tier campus LAN designs.

Cisco Core vs Access Switches: Key Differences

Compare Cisco core switches and access switches. Learn key differences for network design and performance.

Core, Distribution, and Access Layer Explained with

Multiple core switches in a fully redundant configuration Distribution switches for each building or campus zone Access switches on each floor or

Configuring ISDN PRI Leased Line Access

Enterprise branches and the headquarters connect to an ISDN network using ISDN PRI interfaces. When a branch company needs to exchange a large amount of data with the headquarters or other

Access vs. Distribution vs. Core Switch Comparison Guide

Compare Access, Distribution, and Core switches: understand their roles, features, and differences in enterprise network hierarchy. Make informed network design decisions.

Core Switch vs. Distribution Switch vs. Access Switch

What is a Core Switch? A core switch is the primary switch installed at the backbone of a layered or hierarchical network. These data switches are responsible for routing and data switching at the core

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Use the following configuration for each Cisco switch (Ask MHT engineers whether they are using a core switch for the job or not). If they have core switch installed on jobsite, the configuration is different

FS Community

Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

Leased Line Network Architecture | Leased Line Connection

Below is a block diagram illustrating a typical leased line network architecture connecting two branch offices (Branch A and Branch B) to the internet through an ISP network.

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 required help on 2 things. 1) How to enable LLDP-MED/CDP on 2960 switch 2) Voice VLAN should

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 most important purpose of the layer 3 switch is to speed up the data

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 guide.

Core Configuration of a Router and a Switch in Cisco Packet Tracer ...

Berg IT Training - In this CCST and CCNA introductory-level video, I perform a line-by-line core configuration of a Cisco router and a Cisco switch using the command line interface (CLI) in Cisco ...

Example for Configuring a Branch Site to Access the Headquarters ...

As shown in Figure 6-5, a branch site is connected to the headquarters through an E1 leased line for communication. The E1 leased line works in CE1 mode and uses timeslots 1, 10-16, and 18, PPP

Crackhead/pass.txt at master · moimikey/Crackhead ·

How to create a web form cracker in under 15 minutes. - moimikey/Crackhead

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