

Configure the core switch as root



AI Overview

To configure a core switch as the root bridge, adjust its STP priority to the lowest value using Cisco IOS commands, ensuring it is elected as the root for each VLAN. Steps to Configure the Root Bridge:

- Access the Switch CLI
- Connect to the core switch and enter privileged EXEC mode: `CodeCopyenable`
- Enter global configuration mode: `CodeCopyconfigure`
- terminal Set the Switch as Root Bridge
- For a specific VLAN, you can configure the switch as the primary root bridge: `CodeCopyspanning-tree vlan root primary`
- This command automatically lowers the switch priority to ensure it becomes the root bridge for that VLAN.
- Alternatively, set the priority manually: `CodeCopyspanning-tree vlan priority 4096`
- Lower priority values increase the likelihood of the switch being elected as root. If multiple switches have the same priority, the switch with the lowest MAC address becomes the root.
- Configure Secondary Root Bridge (Optional)
- To designate a backup root bridge: `CodeCopyspanning-tree vlan root secondary`
- This sets the switch priority slightly higher than the primary root, allowing it to take over if the primary fails.
- Enable Root Guard on Distribution/Access Ports
- To prevent other switches from becoming the root bridge unexpectedly, enable root guard on ports connecting to lower-tier switches: `CodeCopyinterface spanning-tree guard root`
- Ports with root guard will enter a root-inconsistent state if a superior BPDU is received, protecting the core switch as the root.
- Verify Configuration
- Check the root bridge status and STP topology: `CodeCopyshow spanning-tree`
- This command displays the root bridge for each VLAN, port roles, and priority values.
- Best Practices
- Place the root bridge on the most reliable and high-performance switch, typically the core switch, to optimize traffic flow.
- Use consistent priority values across VLANs to maintain predictable STP behavior.
- Enable root guard on distribution and access layer switches to prevent accidental or malicious root bridge changes.
- Document the STP configuration and m...

Article Content

Configuration in ASP Core | Microsoft Learn

Learn how to use the Configuration API to configure app settings in an ASP Core app.

Determining the RSTP/STP Root Bridge on an MS

Information on enabling RSTP and setting the STP root bridge on a Cisco Meraki MS switch can be found in our Configuring Spanning Tree on Meraki Switches

Cloudflare outage on November 18, 2025

Cloudflare suffered a service outage on November 18, 2025. The outage was triggered by a bug in generation logic for a Bot Management feature

Installation guide

To switch to a different console—for example, to view this guide with Lynx alongside the installation—use the Alt+ arrow keyboard shortcut. To edit configuration files, mcedit (1), nano and

(Optional) Configuring the Root Bridge and Secondary Root Bridge ...

On networks that run STP/RSTP/MSTP /VBST, configure an optimal core switch as the root bridge to ensure stability of the STP Layer 2 network. Otherwise, new access devices may

How to Set Up a Wireless Bridge in Nebula - Root and

Verify mesh status and signal strength Connect a switch or other LAN devices to the repeater AP This setup lets you extend your wired network without

Rename the current session (alias "/title") | | "grok sessions list ...

default = "my-model" "" After updating "~/.grok/config.toml", use "grok inspect" to see what Grok discovered in the current directory, including config sources, instructions, skills, plugins, hooks,

How to configure Spanning Tree Protocol Root Primary and Root

To configure a Switch to become the Spanning Tree Protocol (STP) Root Bridge (Root Switch) for a VLAN, you can use the “spanning-tree vlan <vlan-id> root” command from the Global Configuration

How to Configure Root Bridge on Cisco Switch | GNS3

Conclusion How to Configure a Layer 2 Switch on the Network as a Root Bridge on GNS3 In a computer network, the Root Bridge for Cisco Switch is

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.

Lab 67: Configuring Spanning Tree Protocol Root

The objective of this lab exercise is for you to learn and understand how to manually configure a switch to become the root bridge for a particular

Caliptra 2.1: An Open-Source Silicon Root of Trust With

Today at the Open Compute Project Global Summit, we introduced Caliptra 2.1, an open-source silicon Root of Trust (RoT) security subsystem

Best way to set root bridge

What is the Cisco recommended way to set the root bridge for several vlans? In our environment we will be deploying a collapsed core design with a stack of 4500X switches.

KB: Creating protection for Hyper-V VMs on Windows Server 2012

The symptoms vary based on the configuration of the Hyper-V server. For stand-alone Hyper-V server In DPM, creation of the protection group will fail with the error: Type: Replica creation

VMware Cloud Foundation (VCF) Blog - Home Page

VMware Cloud Foundation (VCF) - The simplest path to hybrid cloud that delivers consistent, secure and agile cloud infrastructure. Read more.

Enhance STP with Root Guard

This document describes the Spanning Tree Protocol (STP) root guard feature that enhance switched network reliability and manageability.

Configure Spanning Tree for intervlan routing core

Layer 3 core switch: Cisco SG550xg: Vlan 10, 20, 30, 40, 50 interfaces (SVI) with inter-vlan routing enabled Layer 2 access switch: Netgear

How to Configure Cisco Switch as Root Bridge | Easy!

In this article, we will examine how to configure the Root Bridge between three Cisco Switches using Cisco Packet Tracer.

Best way to set root bridge

Basically that configuration lowers the priority of your core to make it the root bridge on all of those VLANs. I don't believe using your blanket

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 ...

Solved: Root Bridge Placement

I am having a bit of a contemplation. Most things I read say to put a root bridge (per VLAN) as the Core Switch. I know most, if not all, the configurations about spanning-tree and root bridges

Spanning Tree Priority: Root Primary and Root Secondary

In this article, we will examine how to configure the Root Bridge between three Cisco Switches using Cisco Packet Tracer.

Rapid Spanning Tree Protocol (RSTP)

A switch is configured as root if it has the smallest priority ID. Therefore, by changing the priority ID to the smallest ID, users could configure any switch as root.

Switch to Root User on Linux: Tutorial

Learn how to switch to root user on Linux. Use sudo or su commands for root privileges while maintaining security.

How to set a switch as Root Primary for multiple VLANs

Setting a Switch as Root Primary for Multiple VLANs (Loop Prevention) To prevent an access switch from unintentionally becoming the Root Bridge, it's recommended to proactively...

Contact Us

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