

## Set the root priority of the core switch



### Overview

With Per VLAN Spanning Tree (PVST) we configure a specific switch to become the root bridge for each VLAN. You can do this with the spanning-tree vlan X root primary command which sets the priority automatically, or you can set the priority manually with the spanning-tree vlan X priority command. Will that impact any services as the traffic is routed via the root bridge. In this sample chapter from CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide, you will review techniques for configuring a switch to be guaranteed as the root bridge or as a backup root bridge for a Layer 2 topology. A properly designed network strategically places the root bridge on. In most networks, the root bridge of the spanning tree topology should be placed on the most central core switch of the network. Bridge Priority (Switch Priority) value decides which.



## Article Content

Change of STP priority to root primary

The CORE switch is the root bridge of the network and has priority 24576. To eliminate the risk of inserting a switch in the network with a priority lower than 24576 and generating a root

Spanning Tree Priority: Root Primary and Root Secondary

To prevent having a suboptimal network, we can set the spanning tree priority using the root primary and root secondary commands.

STP, root primary and root secondary?

The second command is telling another switch I want you to be my backup root bridge, the switch will then lower its priority number to the next increment higher than the root bridge's priority number. This

Configure STP Root Bridge on Cisco Catalyst Switches

Learn how to configure the root bridge on Cisco switches using priority commands. Includes design guidance and common configuration mistakes.

Understand and Mitigate Network Loops (STP)

Configure RSTP to Prioritize Core Switches: Configure Spanning Tree Protocol settings to prioritize core switches. Setting STP priorities properly ensures that

How to change Spanning Tree Bridge Root Priority value and What is ...

Every Bridge (Switch) Participating in a Spanning Tree Protocol network is assigned with a numerical value called Bridge Priority (Switch Priority) Value. By default, all Cisco Switches has a Bridge

Solved: Re: STP working on core switches

Hello @yadhukrishna, if the two Nexus 9000 core switches form a vPC pair you should consider the use of the feature under vpc domain peer-switch you will need to configure the same

How to change Spanning Tree Bridge Root Priority value and What is ...

Bridge Priority (Switch Priority) value decides which Switch can become Root Bridge (Root Switch). You can lower the the Switch Priority value in a Spanning Tree Protocol switch, so that we can make that

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You choose the Root Bridge by lowering one switch priority by hand. You open the CLI in GNS3 and set spanning-tree vlan 1 priority 4096. This

## Spanning-Tree VLAN Root Primary Command on

Command Spanning-Tree VLAN Root Primary Use This command sets the switch to become root for a given VLAN. It works by lowering the

## STP Topology Tuning > Advanced STP Tuning | Cisco

Generally, root switches are at Layer 2/Layer 3 boundaries. The best way to prevent erroneous devices from taking over the STP root role is to set the

## Determining the RSTP/STP Root Bridge on an MS

Best practice dictates the root bridge to be the core of the network, this can be accomplished by manually setting the priority of the switch selected to be the

## Spanning Tree

All are connected directly to the core switch with no daisy chaining. Core switch is set to be the root by having its priority set to 0. All other switches

## Root Bridge Placement in Spanning Tree Protocol -

For the best protection of the STP topology to not go to incorrect switches, setting the primary root priority to 0 and the secondary to 4096 will

## Root Bridge for a Access level switch. Spanning Tree bottlenecks

In one of our site, i noticed that the spanning tree elected a access level switch as the root bridge. Our topology follows cisco heirarchy Core>>Distribution>>Access switch topology.

## Spanning Tree Topology Tuning and Optimization

Spanning Tree Port Priority The alternate port is selected utilizing the STP port priority if there are multiple links between the switches. So when the root port fails, the switch will choose a link from the

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The best way to prevent erroneous devices from taking over the STP root role is to set the priority to 0 for the primary root switch and to 4096 for the secondary root

## Spanning Tree Priority: Root Primary and Root Secondary

you will need to configure the same STP bridge priority on both devices but from external device point of view they will see only one device acting as the root bridge ( one of the two chassis

## Does changing the Spanning-tree root to preferred core SW cause

Only 2 Vlans in the LAN. Each Access switches with 2 dot1q uplinks connects to Core Switches -most comon design. It is observed that one of the access switch acting as spanning-tree

## Understanding Spanning Tree Protocol (STP) & Best Practices

To make a loop-free environment, the edge switches elect the switch with the lowest priority as the new root bridge. The topology above would break into two separate instances of STP because they have

### How to Configure Root Bridge on Cisco Switch | GNS3

Learn how to configure a Cisco Switch device with Root Bridge with Priority with GNS3 with our guide. Select Central Switch manually!

### Spanning Tree Root Bridge Election on Cisco Switches

You can manipulate the Root Bridge Election by setting Bridge priority on your switches. The default value is 32768, and the lowest number is preferred. In the

### Why is Distribution Layer switches preferred to be Root?

This means that your layer two domain ends at the distribution switches so this is the natural point to place your STP root. The distribution switches will be running a routing protocol towards the core

## Contact Us

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