

Configuring VLAN Priority on Core Switches



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. A Virtual Local Area Network (VLAN) is a logical grouping that segments a network into smaller broadcast domains. VLANs allow you to separate network devices into distinct groups, even if those devices connect to the same physical switch or to different switches. All vlans exist on all switches. The root bridge is the elected reference point from which all spanning tree paths are calculated. The vlan command in global configuration mode creates a new VLAN and updates an existing VLAN.



Article Content

Dec 01, 2025

Configuring VLANs on Cisco Switches

Master configuring VLANs on Cisco switches. Learn to configure Access and Trunk ports, and Native VLANs and Allowed VLAN

Nov 03, 2025

How to Configure VLANs and SVIs on Cisco Switches | NSC

How to Configure VLANs and SVIs on Cisco Switches Understanding how to configure VLANs (Virtual Local Area

Aug 10, 2025

Set Bridge Priority for ALL switches in network?

Solved: Hi All, I was wondering what everyone does regarding Bridge priority. We have our core switch set to "0", but

Apr 30, 2026

Spanning Tree Configuration (3.3) > STP | Cisco Press

If an alternate root bridge is desired, use the spanning-tree vlan vlan-id root secondary global configuration mode

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STP Topology Tuning > Advanced STP Tuning | Cisco Press

Example 3-2 verifies the priority for VLAN 1 on SW2 before changing its priority so that it will be the backup root bridge in the event of

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VLAN Naming, Ranges, and Management Best Practices

Deep dive into VLAN naming conventions, the difference between standard and extended range VLANs, and best

Jul 28, 2026

VLAN Load Balancing Based on the Spanning Tree Protocol Port Priority ...

This document describes how to set port priorities in VLAN-based Spanning Tree protocol (VBST) to enable load balancing of VLAN

Jul 28, 2026

Solved: Spanning Tree VLAN Priority Issue

We have two 6500E switches and running spanning tree with rapid-pvst. We have also configured per vlan spanning

Jun 14, 2026

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.

Aug 10, 2025

VLAN Configuration Guide

Before you create VLANs, you must decide whether to use VLAN Trunking Protocol (VTP) to maintain global VLAN

Dec 02, 2025

Configuring a new core switch with VLANs

I have a core switch that I've purchased second hand, it's foundry switch. I have created 4 VLANs (VLAN1 to VLAN4). I

Aug 27, 2025

Networking Basics: How to Configure Spanning Tree Protocol

Spanning Tree Protocol (STP) is essential for maintaining a robust and reliable network infrastructure. Learn how to

Sep 03, 2025

STP Topology Tuning > Advanced STP Tuning | Cisco Press

In this sample chapter from CCNP and CCIE Enterprise Core ENCOR 350-401 Official Cert Guide, you will review techniques for

Apr 02, 2026

Solved: Prioritizing network traffic

Currently, we have a Cisco router (28xx), ASA 5520, and a core switch 4500. We have different vlans. We also have

Apr 30, 2026

Configuring Spanning Tree on Meraki Switches (MS)

This article describes how to configure STP and RSTP on MS switches. It includes: enabling RSTP globally, setting

Jul 08, 2026

VLAN and Priority Configuration Tips in PoE Networks

This is where VLAN and Quality of Service (QoS) technologies become the twin engines of network optimization.

Aug 18, 2025

Layer 2 Configuration Guide, Cisco IOS XE Gibraltar 16.12.x (Catalyst ...

When you configure a switch as the secondary root, the switch priority is modified from the default value (32768) to

Jan 01, 2026

Chapter 14 Configuring VLANs

This chapter describes how to configure VLANs on HP routing switches using the CLI and the Web management interface.

Jan 03, 2026

How to Configure Cisco Switch as Root Bridge | Easy!

You set a Cisco switch as the root bridge in Packet Tracer by changing its priority value. First, open the CLI on the

Sep 11, 2025

Spanning-Tree Vlan Priority Command on CISCO Router/Switch

Spanning-Tree Vlan Priority Command Spanning-Tree Vlan Priority Use This command is used to change the VLAN

Nov 27, 2025

Spanning Tree Configuration (3.3) > STP | Cisco Press

There are two different methods to configure the bridge priority value on a Cisco Catalyst switch. To ensure that a

Jun 25, 2026

Assigning a priority based on VLAN-ID

VLAN Virtual Local Area Network. Separate logical broadcast domain created within a physical network. -ID classifiers currently in

Jan 02, 2026

VLAN Configuration Commands Step by Step Explained

This tutorial explains VLAN configuration commands. Learn how to configure, test, and verify VLANs on Cisco switches.

Aug 02, 2025

Solved: Prioritizing network traffic

Hi everyone, Thank you for your help. I have some questions about network traffic shaping questions. Currently, we

May 09, 2026

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

Aug 27, 2025

Traffic Prioritization Involving VLANs

Or, do I need to do some sort of DSCP to 802.1p mapping? Another option I would be fine with would be mapping the

Mar 16, 2026

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

Learn how to configure VLAN and inter-VLAN routing on Cisco switches using CLI. Step-by-step VLAN setup, trunking, router-on-a

Dec 26, 2025

Assigning a priority based on VLAN-ID

If the packet leaves the switch on a tagged port, it carries the 802.1p priority with it to the next downstream device. You can configure

Feb 05, 2026

Configuring spanning-tree VLAN priority. 2 core switches.

The Priority is used to elect the root bridge so you only have to change it on the switch you want to be the root, you

Contact Us

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