

How to configure valn on the core switch



Overview

Before you create VLANs, you must decide whether to use VLAN Trunking Protocol (VTP) to maintain global VLAN configuration for your network.

Key Takeaways

VLANs on a core switch are configured by creating VLAN IDs, assigning ports to VLANs, and setting up trunk ports for inter-switch communication. Step 1: Access the Switch CLI Connect to your core switch via console, SSH, or Telnet. Enter privileged EXEC mode using: `CodeCopyenable` Then enter global configuration mode: `CodeCopyconfigure` terminal Step 2: Create VLANs Use the `vlan` command to create VLANs and assign a name: `CodeCopyvlan 10 name SALES` `vlan 20 name ENGINEERING` This creates VLAN 10 and 20 with descriptive names.

VLAN I

IDs can range from 1–4094 depending on the switch model (). Step 3: Assign Ports to VLANs Assign individual switch ports to the VLANs in interface configuration mode: `CodeCopyinterface FastEthernet0/1` `switchport mode access` `switchport access vlan 10` `interface FastEthernet0/2` `switchport mode access` `switchport access vlan 20` This ensures that devices connected to these ports belong to the correct VLAN (). Step 4: Configure Trunk Ports If the core switch connects to other switches, configure trunk ports to carry multiple VLANs: `CodeCopyinterface GigabitEthernet0/1` `switchport mode trunk` `switchport trunk allowed vlan 10,20` Trunk ports allow VLAN traffic to pass between switches, ensuring devices in the same VLAN on different switches can communicate ().

Step 5: Verify VLAN Configuration Check VLAN assignments and trunk status: CodeCopyshow vlan briefshow interfaces trunk These commands display all configured VLANs, their assigned ports, and trunk port details (). Step 6: Optional – Configure VTP (VLAN Trunking Protocol) If managing multiple switches, VTP can synchronize VLANs across switches: CodeCopyvtp mode transparentvtp domain COMPANY This ensures VLAN information is shared consistently across the network ().

Best Practices

Use descriptive VLAN names for clarity. Keep management VLAN separate from user VLANs.

Limit VLA

Ns on trunk ports to only those required.

Document VLAN I

Ds and port assignments for troubleshooting. By following these steps, you can segment your network efficiently, improve security, and manage traffic across your core switch and connected switches.

Article Content

VLAN Configuration Guide

Before you create VLANs, you must decide whether to use VLAN Trunking Protocol (VTP) to maintain global VLAN configuration for your network.

VLAN Configuration Guide, Cisco IOS XE 17.18.x (Catalyst 9300

Before you create VLANs, you must decide whether to use VLAN Trunking Protocol (VTP) to maintain global VLAN configuration for your network.

How to Configure VLAN on Cisco Switch: Step-by-Step ...

Learn how to configure VLAN on Cisco switch step-by-step. Covers VLAN creation, port assignment, trunk configuration, best practices, and troubleshooting tips for IT professionals, SMBs, and enterprises.

How to Create and Configure VLANs on a Cisco Switch with Example

This post will deal with creating Layer 2 VLANs on Cisco switches and performing all relevant configurations. Up to 4094 VLANs can be configured on Cisco catalyst switches.

Configuring Native VLANs on Cisco Switches: A Step-by-Step Guide

To configure a Native VLAN on a Cisco switch, follow these detailed steps. Each phase of the setup is crucial, ensuring your network's reliability and efficiency:

Configuring VLANs on Cisco Switches

Master configuring VLANs on Cisco switches. Learn to configure Access and Trunk ports, and Native VLANs and Allowed VLAN Lists. Learn to verify with show commands.

Basic VLAN Configuration on a Switch | Hands-On Lab

Follow this step-by-step VLAN configuration lab for beginners to create VLANs, assign switch ports, verify connectivity, and fix common issues in minutes.

VLAN Configuration on a Cisco Switch

Learn how to configure VLANs on a Cisco switch using the command-line interface (CLI). This guide provides a step-by-step walkthrough, covering VLAN ranges, creation, and port assignment.

Configuring the Core Switch

Configure interfaces for interconnecting the core switch with BRASs. # Create interconnection VLANs on the core switch and add interfaces to the interconnection VLANs. # Create

Two-Tier Core

Two-Tier Core Configure Two-Tier core switches as a VSX pair for Layer 2 aggregation of the data center access switches, IP data center services, and routing to the main campus. Table of

How to Prevent Network Loops with STP and Loopback Detection in

Conclusion To prevent network loops, Omada SDN recommends enabling STP on inter-switch trunk ports and Loopback Detection (LBD) on access ports, combining both to improve

Fortinet/Fortinet_Cheat_Sheet.md at main · jeffbldz/Fortinet

MC-LAG configuration varies by FortiSwitch model and firmware. High-level steps include configuring two FortiSwitches in an MC-LAG cluster, setting up the inter-switch link, and configuring MC-LAG on

UniFi Guides: Setup, Gateways, VLANs, VPNs, Wi-Fi,

After that, configure Wi-Fi, VLANs, firewall rules, and VPNs one step at a time. The biggest thing is to build the network around what you actually need. Choose the

Static routes and switches : r/networking

On the core switch, you need configure the VLANs but also the SVIs, VRFs and routes to the firewall. Of course, from the firewall you need to configure static routes back the switch as well. Hopefully this

Configure Ethernet Virtual Connections on Catalyst 8000 Routers

If you use subinterfaces in the Core_Router, there are two main challenges: You have to configure different subnets for hosts that are part of the same VLAN, which forces you to use two

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Why Can I Configure Fewer VLANs Than Expected on My Agile Switch When using Omada Agile Switch (ES Series) together with Omada Controller, you may notice that the available

Configuring Interconnection Interfaces and Routes for the Core Switch ...

In this example, Internet access traffic of users passes through the BRAS, and then reaches the egress network of the firewall through the core switch. Traffic passing through the BRAS is classified into

Network Segmentation and VLAN Best Practices 2026

Comprehensive guide to network segmentation and VLAN design: strategies, implementation, security benefits, and best practices for enterprise networks.

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