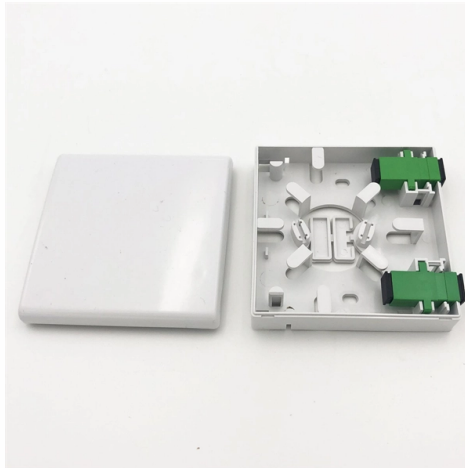


Add VLAN to core switch



AI Overview

To add VLANs on a Cisco core switch, you create the VLAN in global configuration mode, optionally name it, and assign switch ports to the VLAN or configure trunk ports for inter-switch communication.

Step 1: Enter Global Configuration Mode
 Access the switch CLI and enter global configuration mode:
`CodeCopySwitch> enable`
`Switch# configure terminal`
`Switch(config)#`

Step 2: Create a VLAN
 Use the `vlan` command followed by the VLAN ID to create a new VLAN:
`CodeCopySwitch(config)# vlan 10`
`Switch(config-vlan)# name Sales`
`Switch(config-vlan)# exit`
 VLAN IDs can range from 1-4094 on Cisco switches. Naming the VLAN is optional but recommended for easier identification.

Step 3: Assign Ports to VLANs (Access Ports)
 Configure individual switch ports to be members of a VLAN:
`CodeCopySwitch(config)# interface GigabitEthernet0/1`
`Switch(config-if)# switchport mode access`
`Switch(config-if)# switchport access vlan 10`
`Switch(config-if)# exit`
 The `switchport mode access` sets the port to access mode, allowing it to carry traffic for a single VLAN. Repeat for all ports that should belong to the VLAN.

Step 4: Configure Trunk Ports (Optional)
 If connecting multiple switches and passing multiple VLANs, configure trunk ports:
`CodeCopySwitch(config)# interface GigabitEthernet0/24`
`Switch(config-if)# switchport mode trunk`
`Switch(config-if)# switchport trunk allowed vlan 10,20,30`
`Switch(config-if)# exit`
 Trunk ports carry traffic for multiple VLANs between switches. Use `switchport trunk allowed vlan` to specify which VLANs are permitted on the trunk.

Step 5: Verify VLAN Configuration
 Check VLANs and port assignments using:
`CodeCopySwitch# show vlan brief`
`Switch# show interfaces trunk`
 The `show vlan brief` lists all VLANs and their assigned ports. The `show interfaces trunk` displays trunk port status and allowed VLANs.

Best Practices
 Always create VLANs in the VLAN database before assigning ports. Use descriptive VLAN names for easier management. Keep VLAN IDs consistent across switches to avoid misconfigurations. For Layer 3 commu...

Article Content

what does "VLAN Filtering" in bridge settings do?

Adding the bridge itself to the VLAN makes the CPU receive the frames. If not, only the switch deal with them (pure L2): An example of that, having an CRS326 not doing routing on a VLAN, an external

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.

The Ultimate Guide to Huawei MA5800 OLT Configuration:

The high-end models also support 2 x 100GE uplink ports, providing massive uplink bandwidth for enterprise core routing and carrier-grade routing reliability .

Deployment Scenarios and Configuration

Create and configure a virtual switch with Hyper-V

Learn how to create and configure a virtual switch for use by the Hyper-V host and guest virtual machines.

crisstophergonza/cisco-multi-vlan-architecture

Multi-VLAN Enterprise Campus Network with Dynamic DHCP Allocation  Architectural Overview This deployment engineers a scalable, secure, and production-ready Local Area Network (LAN)

how to configure vlan on cisco core switch

Pleas help me 100K sub / @tankirivann Hi everyone, in this video we are going to pratice on cisco vlan configuration. we create vlan on our core switch and using VTP protocol to share all our vlan ...

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.

IP Routing between vlan''s

Host on VLAN x -> SVI on Gateway (routing to destination via Core) -> SVI on Core -> Host on VLAN 60. As you see is asymmetrical because different hosts connected to the same switch use different

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, with high-capacity WANs now being

VLAN Configuration Commands Step by Step Explained

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

How to Set Up VLAN Routing on a Netgear Managed Switch Using

Learn exactly how to configure inter-VLAN routing on Netgear managed switches using the Command Line Interface — with full CLI command examples, VLAN IP addressing, gateway

How To Configure VLANs On the Catalyst Switches

VLAN stands for Virtual Local Area Network one physical cisco switch; you can create multiple VLANs that connect to different network. This document provides basic information on how

How to Set Up VLANs for Smart Home Security | Isolate

Learn how to isolate smart home devices on a separate VLAN to protect your personal computers and files. Step-by-step VLAN setup guide for

VLAN vs VRF Network Segmentation Explained

. [VLAN vs VRF - Understanding the Core Difference in Network Segmentation](#) [Network engineers often confuse VLAN and VRF, but they solve different problems.](#) [VLAN \(Virtual Local ...](#)

How to Configure a Cisco Switch (step by step)

Let's configure two access ports, G0/0 on VLAN 10 and G0/1 on VLAN 20, on the CORE switch. Remember these VLANs were already created, so we're now assigning physical interfaces to

Re: Cisco Nexus 9000 switch

```
mtu 9216 switchport mode dot1q-tunnel switchport dot1q-tunnel allowed vlan  
remove 1 switchport dot1q-tunnel allowed vlan add untagged 400 switchport dot1q-  
tunnel native vlan 400
```

MS Layer 3 Switching and Routing

Layer 3 routing capabilities are available on most Cisco Meraki switches. This allows the switches to route traffic between VLANs in a campus network without the need for an additional layer

VLAN Not Connect

Currently my topologi is Firewall -- Core -- Access - Endpoint. Firewall using Fortigate, Core using C9300 series. Connection from Core to Firewall using L3. We have several VLANs on the core

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 the Core Switch

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

Adding New VLAN in Cisco Switch

I'm just making sure that I won't break any link because I'm planning to do this remotely, and hopefully, I won't be rushing to the site if anything goes wrong and the switch becomes

VLAN Configuration Guide

You configure a port to belong to a VLAN by assigning a membership mode that specifies the kind of traffic the port carries and the number of VLANs to which it can belong.

Secure VLAN configuration: a practical guide and best practices

Learn how to configure secure VLANs, segment your network, and avoid common failures. A practical guide with best practices for security and performance.

Contact Us

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