

Can VLANs be created on the ports of an aggregation switch



Overview

In a switch stack, VLANs can be formed with ports across the stack. Because a VLAN is considered a separate logical network, it contains its own bridge Management Information Base (MIB) information and can support its own implementation of spanning tree. VLAN configurations, including permitted VLANs on a port and port VLAN ID (PVID). Only full duplex mode is supported. If the attributes of a port in an aggregation. The number of Spanning Tree Protocol (STP) virtual ports in the per-VLAN spanning-tree (PVST) or rapid PVST mode is based on the number of trunks, multiplied by the number of active VLANs, plus the number of access ports. $STP \text{ virtual ports} = \text{trunks} * \text{active VLANs on trunk} + \text{number of non-trunk}$. An aggregation switch consolidates data traffic from multiple network access switches into a single high-bandwidth link directed toward a core network or data center. Figure 1 Network diagram To enable traffic from VLAN 10 and VLAN 20 to pass through. This document describes the configuration of Ethernet services, including configuring link aggregation, VLANs, Voice VLAN, VLAN mapping, QinQ, GVRP, MAC table, STP/RSTP/MSTP, SEP, and so on.



Article Content

Jan 21, 2026

Configure VLANs on a Cisco Switch | ComputingForGeeks

This guide shows how to configure VLANs on a Cisco switch: creating them, putting access ports into them, adding a

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Port and VLAN Configuration

Options available for configuring ports and VLANs on a switch. Everything from STP, speed and duplex, to voice

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Cisco Nexus 9000 Series NX-OS Layer 2 Switching Configuration

Any switch port can belong to a VLAN, and unicast, broadcast, and multicast packets are forwarded and flooded only to end stations

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VLAN Port Assignment and VLAN Port Types * | Dot1Q & ISL

VLANs Port Assignments can be done Statically and Dynamically. Static VLAN Configuration is more common, but Dynamic VLAN

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Everything You Need to Know About Aggregation Switch

Aggregation switches are typically deployed in enterprise networks, central network connectivity, and data transfer

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VLAN Configuration Guide

Configure VLAN Prerequisites for VLANs The following are prerequisites and considerations for configuring VLANs:

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Switch Port VLAN Assignment (Trunk & Access Ports)

Configuring VLANs (Virtual Local Area Networks) on switch ports is essential for network segmentation and performance. This article

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Switching Architectures: VLANs

They can be set so that the configuration assumes most ports will be used as routed Layer-3 ports (our preference) or as switched

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Configure Port to VLAN Interface Settings on a Switch through ...

This article provides instructions on how to configure an interface VLAN as an access or trunk port on your switch

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VLAN Configuration Guide

Any device port can belong to a VLAN, and unicast, broadcast, and multicast packets are forwarded and flooded only to end stations

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Understanding VLAN Aggregation

VLAN aggregation technology, also known as super VLAN technology, uses multiple VLANs to isolate broadcast domains on a

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Port Aggregation Configurations

You can either create an aggregation ID under global configuration mode or you can add a port to an aggregation group to

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What are Link Aggregation Groups (LAGs) and how do they work with

You can use a LAG to directly connect two switches when the traffic between them requires high bandwidth and

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How to Set Up VLANs on a Switch That Is Configured with Multiple VLANs

When a switch is configured with multiple VLANs, trunking becomes essential for enabling communication between

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Switch Port VLAN Assignment (Trunk & Access Ports)

This will break connectivity and clients will not be able to join. Use the Tagged VLAN Management setting to configure any VLAN

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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

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What are Link Aggregation Groups (LAGs) and how do they work with

All the physical links in a Link Aggregation Group (LAG) must operate in full-duplex mode at the same speed. You can

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Is it possible to configure multiple VLAN's on a single port of a switch

Okay. But that still makes no sense. What I need to know is what you are planning to connect to port 1. If you are going to connect a

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Configure basic VLANs on a switch and assign ports to them.

Configuring VLANs (Virtual Local Area Networks) on a switch involves dividing a physical network into multiple logical

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Understanding VLAN Aggregation

VLAN aggregation allows the switch to assign IP addresses to hosts in sub-VLANs according to the actual number of hosts. For

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VLAN Configuration Guide, Cisco IOS XE 17.17.x (Catalyst 9300

In a switch stack, VLANs can be formed with ports across the stack. Because a VLAN is considered a separate

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How To Configure VLANs On the Catalyst Switches

Introduction VLAN stands for Virtual Local Area Network one physical cisco switch; you can create multiple VLANs

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How To Set Up VLAN On A Managed Network Switch

Learn how to set up VLAN on a managed network switch with our comprehensive guide. Ensure secure and efficient

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