

How to handle VLANs on an aggregation switch



Overview

The VLAN aggregation function associates a super-VLAN with multiple sub-VLANs. Interfaces in all the sub-VLANs use this IP address as the gateway address to communicate with. You can configure VLAN aggregation on the switch to isolate VLAN 2 from VLAN 3 at Layer 2 and allow them to communicate at Layer 3. VLAN 2 and VLAN 3 use the same subnet segment, saving IP addresses. The S2700SI and S2710SI do not support VLAN aggregation. The configuration roadmap is as follows: This chapter covers the design recommendations for a data center design deployment consisting of a Cisco Nexus® 7000 Series Switch at the aggregation layer and a Cisco Nexus 5000 Series Switch at the access layer. LAG allows multiple physical links to. The access-vlan command adds one or more sub-VLANs to a super-VLAN. access-vlan { vlan-id1 [tovlan-id2] } <1-10> undo access-vlan { vlan-id1 [tovlan-id2] } <1-10>.

Article Content

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VLAN aggregation

A mechanism is described by which hosts that reside in the same physical switched infrastructure, but separate virtual broadcast domains, are addressed from the same IPv4 subnet and

Configuring Link Aggregation, VLAN Trunking & Assigning Multiple VLANs

In this video, I walk you through configuring link aggregation (LAG), setting up a LAG group, and assigning it to a VLAN. We'll explore VLAN modes, particularly trunk ports, and how to assign ...

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Example for Configuring VLAN Aggregation

You can configure VLAN aggregation on the switch to isolate VLAN 2 from VLAN 3 at Layer 2 and allow them to communicate at Layer 3. VLAN 2 and VLAN 3 use the same subnet segment, saving IP

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VLAN Aggregation Configuration

VLAN aggregation maps each sub-VLAN to a broadcast domain, associates a super-VLAN with multiple sub-VLANs, and assigns only one IP subnet to the super-VLAN. Consequently, the gateway IP

10GbE RJ45 Switch Comparison: Copper Ten Gigabit Switches

Because unmanaged units lack a management plane and VLAN controls, segregation requires a managed switch, router, or end-host VLAN handling. Homelab users needing VLAN isolation should

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will open to start the export process. The process may take but once it finishes a file will be downloadable from your browser. You may continue to browse the DL while the export process is in

VLAN Best Practices

When connecting a device to a switch, there is no easy way to know which VLAN has been assigned to the port, or whether the port has been configured to be a VLAN trunk. In most cases, the only way to

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20 Best Network Switches Under \$100 (2026)

20 Best Network Switches Under \$100 (2026) November 30, 2025 by Hayden James, in Blog General Choosing the right network switch is essential for

What are Link Aggregation Groups (LAGs) and how do

What are Link Aggregation Groups (LAGs) and how do they work with my managed switch? Link aggregation lets a switch treat multiple physical links

Using Link Aggregation with Tagged VLANs for a Two

To cause traffic for multiple VLANs to be passed through a single trunk, you must assign the same trunk to each VLAN. In the examples, we create a trunk (trunk1)

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This course teaches you how to implement and operate enterprise-level Aruba Networking campus switching solutions.

What is a virtual LAN (VLAN) and how does it work with

The following diagram shows a Layer 3 switch with three ports configured to handle the traffic for two VLANs (VLAN 10 and VLAN 20). Ports

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Better network performance begins with the right managed switch—discover the top VLAN-enabled models that network pros love for 2026.

The differences between managed and unmanaged

Managed vs. unmanaged switches: What are the differences? Managed and unmanaged network switches differ in various ways, including

Data Center Aggregation Layer Design and Configuration with ...

This chapter covers the design recommendations for a data center design deployment consisting of a Cisco Nexus® 7000 Series Switch at the aggregation layer and a Cisco Nexus 5000 Series Switch at

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

VLAN Aggregation Configuration Commands

Configure the sub-VLANs to implement Layer 2 communication between them. The super-VLAN must be different from all its sub-VLANs. A VLAN can be added to only one super-VLAN. If you run the

Using Link Aggregation with Tagged VLANs for a One

Overview: Configuring link aggregation using tagged VLANs on one network You can use the BIG-IP ® system in an aggregated two-interface load balancing topology.

2 Ethernet Basics — An Introduction to Computer

Suppose you want to develop a new protocol so that Ethernet switches participating in a VLAN all keep track of the VLAN “color” associated with every

Understanding the Role of an Access Switch in Your

Explore the crucial role of an access switch in your network. Learn how it connects end-users and devices via Ethernet, enhancing overall performance.

VLAN Aggregation Configuration

VLAN aggregation introduces the concept of sub-VLANs and super-VLANs. A sub-VLAN is an independent broadcast domain that contains only physical interfaces, whereas a super-VLAN

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