

VLAN switch for aggregation



AI Overview

To add a VLAN to an aggregation switch, create the VLAN, configure it as a sub-VLAN if using super-VLAN aggregation, and assign it to the appropriate aggregated interface or trunk.

Step 1: Create the VLAN On most switches, you first need to create the VLAN and optionally assign a description:

Huawei example:

```
CodeCopy
system-view
vlan 20
description "Sub-VLAN for Sales Department"
```

Cisco example:

```
CodeCopy
enable
configure terminal
vlan 20
name Sales_VLAN
exit
```

Step 2: Configure VLAN Aggregation (Super-VLAN) if Needed If your network uses VLAN aggregation to reduce IP address usage, you can assign the VLAN as a sub-VLAN under a super-VLAN:

Huawei example:

```
CodeCopy
vlan 2
aggregate-vlan 2
access-vlan 20
30
```

This adds sub-VLANs 20 and 30 to super-VLAN 2. Ensure that any VLANIF interfaces on the sub-VLANs are removed before running access-vlan to avoid conflicts.

Step 3: Assign VLAN to Aggregated Interface (Link Aggregation / LAG) If the VLAN needs to traverse a link aggregation group (LAG) or trunk:

Huawei example:

```
CodeCopy
interface Bridge-Aggregation 1
port link-type trunk
port trunk allow-pass vlan 20
```

Cisco example:

```
CodeCopy
interface Port-channel1
switchport mode trunk
switchport trunk allowed vlan 20
```

This ensures that traffic from VLAN 20 can pass through the aggregated ports.

Step 4: Verify Configuration Check VLAN membership:

```
CodeCopy
display vlan 20
show vlan brief
```

Check aggregation interface:

```
CodeCopy
display interface Bridge-Aggregation 1
show etherchannel summary
```

Ensure the VLAN is active and passing traffic correctly across the aggregation group.

Step 5: Optional Layer 3 Configuration If the VLAN requires routing between VLANs: Create a VLANIF interface on the super-VLAN or directly on the VLAN:

```
CodeCopy
interface Vlanif 20
ip address 192.168.20.1 255.255.255.0
```

This allows hosts in VLAN 20 to communicate with other VLANs using the same gateway if using super-VLAN aggregation.

Key Considerations A VLAN can only belong to one super-V...

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These aggregation switches support advanced VLAN for flexible traffic segmentation, advanced QoS for prioritizing network traffic, IGMP/MLD

01-05 VLAN AGGREGATION CONFIGURATION

VLAN aggregation, also called super-VLAN, partitions a broadcast domain on a physical network into multiple VLANs (sub-VLANs) and aggregates them into a single logical VLAN (super-VLAN).

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Aggregation Switch

The 12-bit VLAN identifier supports up to 4,095 subscribers. When using an aggregation switch with a C-VLAN topology, there are two situations to consider: 1. If there are (and always will be) less than

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

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Overview of VLAN Aggregation

To solve the preceding problem, VLAN aggregation can be used. VLAN aggregation maps each sub-VLAN to a broadcast domain, associates a super-VLAN with multiple sub-VLANs, and assigns only

itstorage

Linux bonding (link aggregation and failover) Linux bridges (virtual switch functionality) VLAN trunking VLAN filtering

QNAP QSW-L2110-10T 8 ports 2,5GbE RJ45, 2 ports 10GbE Base

VLAN, QoS, Link Aggregation (LACP), IGMP Snooping und Port-Mirroring ermöglichen eine effiziente Steuerung des Datenverkehrs und sorgen für eine stabile Netzwerkleistung auch bei

SODOLA 24 Port 2.5Gbit Smart Web Managed Switch, 24 x 2.5G

Es war kein Problem, einen neuen Benutzer anzulegen, die Switch Netzwerk-IP einzustellen und die Ports für die Link-Aggregation zu konfigurieren. Der erreichte Datendurchsatz war erwartungsgemäß.

Switch VLAN

How should I configure the VLAN settings on each switch? Switch 1: Switch 2: In the GS2210 series, there will be no trunk group shown on the VLAN settings page even after link aggregation was

Understanding Switch Aggregation: A Comprehensive Guide

Aggregation layer switches aggregate data from multiple access switches and routes it to the core layer of the network. They provide inter-VLAN routing and advanced policies for handling

What Is an Aggregation Switch and How to Choose?

Discover the role of aggregation switches. Explore differences between aggregation, access, and core switches, and choose the right model for your network.

TP-Link 8-Port Gigabit Switch (TL-SG608E)

Welche Management-Funktionen bietet der Switch? Über das Webinterface lassen sich VLAN, QoS, IGMP Snooping, Port-Mirroring, Link Aggregation, Loop

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Cisco Catalyst 3750 Series Switches Data Sheet

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SODOLA 8-Port 10Gbit L3 Managed Switch mit 8X10G SFP+ Ports

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HP 1820-24G J9980A Managed Gigabit Switch 24-Port VLAN SFP

Beschreibung HP OfficeConnect 1820-24G (J9980A) Managed Gigabit Switch
Gebrauchter HP OfficeConnect 1820-24G Netzwerk-Switch. 24 × Gigabit-Ethernet-Ports (10/100/1000 Mbit/s) sowie 2

VLAN Aggregation Configuration

This chapter describes how to configure VLAN aggregation. VLAN aggregation allows for communication between hosts on the same network segment that are in different VLANs.

Network Configuration

High-speed hardware like Fibre Channel and the associated switching hardware can be quite expensive. By doing link aggregation, two NICs

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

Contact Us

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