

# VLAN partitioning on Huawei core switch S673



## AI Overview

VLAN partitioning on a Huawei S673 involves creating VLANs, assigning interfaces, and configuring PVIDs to isolate Layer 2 traffic and manage broadcast domains.

**Overview of VLANs** VLANs (Virtual Local Area Networks) divide a physical LAN into multiple broadcast domains, improving network security and management. Hosts within the same VLAN can communicate directly, while communication between VLANs requires a router or Layer 3 device. VLAN IDs (VIDs) range from 1 to 4094, with 0 and 4095 reserved. Frames can be tagged (with a 4-byte VLAN tag) or untagged, and the switch processes them according to interface configuration and PVID settings.

**Interface Types** Huawei S673 supports four main interface types for VLAN configuration:

- Access Interface:** Connects to end devices like PCs or servers. Typically carries traffic for a single VLAN and handles untagged frames by adding the interface's PVID.
- Trunk Interface:** Connects switches or routers and carries traffic for multiple VLANs. Tagged frames are used to differentiate VLANs across the link.
- Hybrid Interface:** Can carry both tagged and untagged frames, allowing more flexible VLAN membership for complex deployments.
- QinQ Interface:** Used for VLAN stacking in service provider networks, allowing multiple VLAN tags per frame.

**VLAN Assignment Methods**

- Interface-based VLAN assignment:** The simplest and most common method. Each interface is assigned a Port VLAN ID (PVID). Untagged frames arriving at the interface are tagged with the PVID and forwarded within the VLAN. This method is suitable for networks with fixed device locations.
- MAC-based VLAN assignment:** VLAN membership is determined by the source MAC address of the frame. Useful when users frequently change physical locations, as VLAN configuration does not need to be updated.
- IP subnet or protocol-based VLAN assignment:** VLANs...

## Article Content

### How to Configure VLAN on Huawei Switch | Huawei Switch VLAN

□□ In this video, I will show you step by step on how to configure VLAN on Huawei switch. We will add and remove VLAN, we will go through the port VLAN assignments and port descriptions as well.

### Configuring Devices to Be Managed by the Controller (in the Hybrid ...

Aggregation and access switches (switches running V600 or switches running V200) need to go online using VLAN 1 in plug-and-play mode. Choose from the main menu and verify that the

### Assigning VLANs

Interface-based VLAN assignment is the simplest and most effective method for assigning VLANs. With interface-based VLAN assignment, an interface is added to a VLAN, after which the interface can

### S6700 Series Switches Product Description (V200)

The S6700 series Ethernet switches are next-generation 10G fixed switches. The S6700 can function as a core switch on a campus network. The S6700 has industry-leading performance and provides line

### 01-04 VLAN CONFIGURATION

Assign VLANs on Switch\_1 and Switch\_2, configure Switch\_1 and Switch\_2 to transparently transmit VLAN packets to the Layer 3 switch, and configure a VLANIF interface for each VLAN on the Layer 3

### Huawei Switch Setup | VLAN Creation and IP Assignment Explained

Learn how to configure VLAN and assign IP addresses on a Huawei Switch step by step. In this tutorial, we cover VLAN creation, interface configuration, and IP assignment for proper network ...

### Configuring MAC Address-based VLAN Assignment

In MAC address-based VLAN assignment mode, you do not need to reconfigure VLANs for users when their physical locations change. This improves network access security and flexibility.

### Configure VLAN on Huawei Switch: Basic Step or Network Game

Configuring VLANs on a Huawei switch isn't just about typing commands—it's about crafting a network that's resilient, agile, and secure. While the basics get you online, mastery turns

### How to Create VLAN on Huawei Switch: Are You

Creating a VLAN on a Huawei switch isn't just a technical task—it's a strategic move. From blocking hackers with port isolation to slashing costs

Huawei VLAN Configuration on Huawei Switches \* | Huawei NE40

In this lesson we will learn Huawei VLAN Configuration on Huawei Switches. VLAN Configuration is one of the key lessons for Huawei HCNA.

How to configure VLAN on the Huawei Switch | NETVN

This video explains how to configure vlan on Huawei Switch. #netvn #huawei #vlan #switch Subscribe now because it's free / netvn82 ...more

VLAN Configuration Commands

Usage Scenario VLANs are widely used on switching networks because of its flexible control of broadcast domains and convenient deployment. To implement communication between VLANs, you

Configuring a Management VLAN

The management VLAN allows you to use the VLANIF interface to log in to the management switch to centrally manage devices. Usually, a VLANIF interface needs to be configured with only one

Fortinet Firewall

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VLAN, trunk, VLANIF (SVI) on Huawei switch

PC201 can successfully ping PC202. It means that our VLANs, trunk and access ports are configured correctly. As the last step I want to show you,

Huawei Enterprise Support Community

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VLAN Mapping Configuration

S1720, S2700, S5700, and S6720 V200R011C10 Configuration Guide - Ethernet Switching This document describes the configuration of Ethernet services, including configuring link aggregation,

Huawei switch configuration commands | DOC

The document provides a comprehensive guide on Huawei router and switch configuration commands, detailing various commands for managing IP

01-04 VLAN CONFIGURATION

Although using switches to connect LANs can prevent collisions, they cannot isolate broadcast packets or improve network quality. A physical LAN can be logically segmented into multiple VLANs to isolate

#### Configuration Precautions for VLAN

Configuration Precautions for VLAN Licensing Requirements VLAN is not under license control.

#### Assigning VLANs

S300, S500, S2700, S5700, and S6700 V200R022C00 Configuration Guide - Ethernet Switching

#### Step-by-Step Guide to Configure VLAN and Bind Ports on a Huawei

Configuring a Huawei switch to assign an IP address to VLAN 1 and binding multiple ports to it can seem challenging, but this step-by-step guide simplifies the process.

#### Configure VLANs on Huawei Switches Like a Pro in 10 Minutes!

In this Huawei VLAN Configuration lesson, you will learn how to configure Virtual LANs on Huawei switches. After this lesson, you will be familiar with VLAN commands of Huawei switches.

#### Inter-VLAN Communication

Similar to intra-VLAN communication described in Intra-VLAN Communication, inter-VLAN communication goes through three phases: packet transmission from the source host, Ethernet

#### Assigning VLANs

S300, S500, S2700, S5700 and S6700 V200R024C00 Configuration Guide - Ethernet Switching This document describes the configuration of Ethernet services, including configuring MAC address table,

#### Typical VLAN Configuration

When an untagged frame arrives at an interface, the switch adds the PVID of the interface to the frame. The frame is then transmitted in the VLAN specified by the PVID. It is simple to define VLAN

#### Huawei Switch VLAN, Trunk, VLANIF Configuration

Learn to configure VLANs, trunks, and VLANIFs on Huawei switches. Step-by-step tutorial with examples for network configuration.

#### Clase de configuración de Vlans en switches huawei

En este video aprenderás a como crear vlans en switches huawei para separar dominios de broadcast y permitir la comunicación entre equipos de las misma vlans.

## Contact Us

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