

Adding VLAN to the optical port of Huawei switch



AI Overview

You can add a VLAN to an optical port on a Huawei switch by configuring the port as an access, trunk, or hybrid interface and assigning the desired VLAN ID using CLI commands.

Step 1: Access the Switch CLI Connect to the Huawei switch via SSH, Telnet, or console port. Log in with your administrative credentials to access the CLI . Enter system view mode:
`CodeCopy system-view`

Step 2: Create the VLAN (if not already created) Check if the VLAN exists or create it:
`CodeCopy vlan 10` This creates VLAN 10. You can also create multiple VLANs in batch using:
`CodeCopy vlan batch 10 20 30` VLAN IDs range from 1 to 4094, with 0 and 4095 reserved .

Step 3: Configure the Optical Port Determine whether the optical port will be an access port (single VLAN) or a trunk/hybrid port (multiple VLANs).

Access Port (single VLAN)
`CodeCopy interface GigabitEthernet 0/0/1` // Replace with your optical port
`port link-type access`
`port default vlan 10` This assigns VLAN 10 to the port and ensures untagged frames are tagged with VLAN 10 .

Trunk Port (multiple VLANs)
`CodeCopy interface GigabitEthernet 0/0/1`
`port link-type trunk`
`port trunk allow-pass vlan 10 20 30` This allows multiple VLANs to pass through the optical port, with frames tagged accordingly .

Hybrid Port (mixed access and tagged VLANs)
`CodeCopy interface GigabitEthernet 0/0/1`
`port link-type hybrid`
`port hybrid vlan 10 untagged`
`port hybrid vlan 20 tagged` Hybrid mode allows one VLAN to be untagged (default) and others to be tagged, useful for connecting devices that need multiple VLANs .

Step 4: Verify Configuration Check VLAN assignment and port status:
`CodeCopy display vlan 10`
`display interface GigabitEthernet 0/0/1` These commands show which ports are members of VLAN 10 and the operational status of the optical port .

Step 5: Save Configuration Ensure the configuration persists after a...

Article Content

Adding Interfaces to a VLAN

To add the hybrid interface to a VLAN or multiple VLANs in untagged mode, run `port hybrid untagged vlan { vlan-id1 [ to vlan-id2 ] } <1-10>`. By default, a hybrid interface is added to VLAN 1 in untagged

How to configure VLAN on Huawei

Virtual Local Area Network (VLAN) technology divides a physical LAN into multiple broadcast domains, each of which is called a VLAN. Hosts within a VLAN can communicate with each other but cannot

The Ultimate Guide to Huawei MA5800 OLT Configuration:

VLAN Translation: Utilizes the "service-port" command to translate user VLANs for internet access (e.g., user-vlan 100) or to bridge other VLANs by adding an additional layer of tagging (e.g., VLAN 200) for

01-04 VLAN CONFIGURATION

Adding and removing VLAN tags during the exchange between devices (for example, between a switch and a user host, another switch, or another network device) The switch needs to add or remove

`gpt4_vocab_list/o200k_base_vocab_list.txt` at main

Vocabulary list of GPT-4o (o200k_base) and GPT-4/GPT-3.5 (cl100k_base) tokenizers. Special tokens are excluded. - kaisugi/gpt4_vocab_list

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

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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.

Assigning VLANs

Add PC1 and PC3 to the same IP address segment, for example, 192.168.100.0/24; add PC2 to another IP address segment, for example, 192.168.200.0/24. PC1 and PC3 can ping each other but cannot

Troubleshooting Huawei EG8145V5: Optical Interfaces, Stacking

The Huawei EG8145V5 offers an L2/L3 (IPv4) forwarding capacity of 1 Gbps for uplink and 2 Gbps for downlink. This non-blocking switching capacity is designed for full-speed, wire-speed forwarding.

Managing VLANs on Huawei Trunk Ports: Add & Remove Step-by

□□ Welcome to our Huawei Networking Tutorial Series! In this detailed tutorial, we focus on how to add and remove VLANs from a Huawei trunk port. If you're working with Huawei switches and need ...

Assigning VLANs

The switch that has policy-based VLAN assignment enabled processes only untagged frames, and treat tagged frames in the same manner as VLANs configured based on ports.

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.

Huawei Gpon Olt Vlan Port Link-aggregation Configuration | Technical ...

Huawei SmartAX MA5683T GPON OLT VLAN PORT Link-Aggregation Configuration | Technical Hakim.0:45 Adding/Creating Vlan in OLT1:45 Tagging created Vlan to spe...

Typical VLAN Configuration

When receiving an untagged frame, the switch adds the VLAN tag mapping the IP address of the frame to the frame. Then the frame is transmitted in the specified VLAN. When physical locations of users

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 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.

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HUAWEI eKitEngine S630 Series Switches Datasheet

Product Overview HUAWEI eKitEngine S630 Series Switches are enhanced fully-managed 10GE switch designed for the small and medium-sized business (SMB) market. It provides a variety of ports, such

VLAN Configuration on Huawei Switch | Access, Trunk & Hybrid Ports ...

How to Create VLAN on Huawei Switch | Step-by-Step CLI Tutorial VLAN Configuration on Huawei Switch | Access, Trunk & Hybrid Ports Explained Huawei Sw...

01-04 VLAN CONFIGURATION

Although using switches to connect LANs can prevent collisions, they cannot isolate broadcast packets or improve network quality. VLAN technology divides a physical LAN into multiple VLANs to isolate

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How to Configure an Access Port for Data VLAN on Huawei Switch

Welcome to our Huawei Networking Tutorial Series! In this video tutorial, you'll learn how to configure an access port for Data VLANs on Huawei network devices. Whether you're preparing for a ...

VLAN Configuration on Huawei Switch | Access, Trunk & Hybrid Ports ...

This tutorial covers everything from VLAN creation to interface assignment and verification — perfect for beginners and network professionals alike. Topics Covered: Entering

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