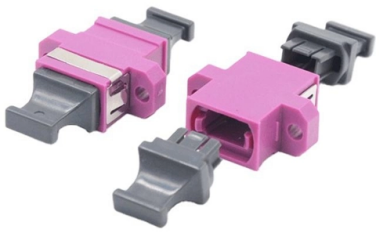
Adding VLANs to Huawei Dual-Core Switches



Overview

In the figure below, the switch connects to the office server, production server, and disaster recovery server on different network segments.

Key Takeaways

VLANs on Huawei dual-core switches can be added by creating VLAN IDs, configuring access or trunk ports, and optionally assigning IP addresses for management. Step 1: Access the Switch CLIConnect to the switch using console, SSH, or Telnet. Enter system view to start configuration: CodeCopysystem-view Return to user view anytime with Ctrl+Z.

Step 2: Create VLANsYou can create VLANs individually or in batch. For example, to create VLAN 2 and VLAN 4: CodeCopyvlan batch 2 4description VLAN2-Usersdescription VLAN4-Servers Each VLAN can have a descriptive name for easier management. Step 3: Configure PortsAccess PortsAssign ports to a VLAN for end devices: CodeCopyinterface GigabitEthernet 1/0/2port link-type accessport default vlan 2quitinterface GigabitEthernet 1/0/3port link-type accessport default vlan 4quit Access ports carry untagged frames and are typically used for PCs, printers, or servers.

Trunk Ports



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Trunk ports carry multiple VLANs between switches: CodeCopyinterface GigabitEthernet 1/0/1port link-type trunkport trunk allow-pass vlan 2 4quit Trunk ports are used for inter-switch links or connections to routers that handle multiple VLANs. Step 4: Assign IP Address to VLAN (Optional)For management or routing purposes, assign an IP to a VLAN interface: CodeCopyinterface Vlanif2ip address 192. 168.

2. 1 255. 255.

255. 0quit Configure a default gateway if needed: CodeCopyip route-static 0. 0.

0. 0 0. 0.

0. 0 192. 168.

2. 254 This allows the switch to be managed remotely and communicate across VLANs. Step 5: Verify ConfigurationCheck VLAN and port assignments: CodeCopydisplay vlandisplay interface brief Ensure that VLANs are active and ports are correctly assigned.

Additional ConsiderationsVLAN Assignment Modes: VLANs can be assigned based on interfaces, MAC addresses, or IP subnets. Interface-based assignment is simple but requires reconfiguration if devices move.

MA

C or IP-based assignment provides flexibility for mobile users.

VLAN I

D Range: Valid VLAN IDs are 1–4094, with 0 and 4095 reserved. Hybrid Ports: Some ports can handle both tagged and untagged frames, useful for connecting devices like APs or voice terminals. By following these steps, you can effectively add and manage VLANs on Huawei dual-core switches, ensuring proper network segmentation and traffic isolation.

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Article Content

Typical VLAN Configuration

The VLANIF interface and Dot1q termination sub-interface can only allow hosts on different network segments in different VLANs to communicate, whereas super-VLAN (VLAN aggregation) and 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

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

Assign VLANs Based on IP Subnets in the Huawei Switch

In the figure below, the switch connects to the office server, production server, and disaster recovery server on different network segments. Different services need to be assigned to

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

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

Huawei Switch VLAN, Trunk, VLANIF Configuration Tutorial

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

VLAN Routing with Layer 2 Switch and Router on Huawei

VLAN Routing with Huawei Layer 2 Switches. Here we will focus How to Configure VLAN Routing on Huawei devices with a configuration example.

How to add extra vlan on huawei switch

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Hi there, just want to know how to add a vlan to my existing core switch, also i do have a uplink port and how do i add this vlan to this port with other vlan already configured.

Configure VLAN on Huawei Switch: Basic Step or

Yet, many admins fall into the trap of treating VLANs as checkbox tasks, using default settings that leave networks vulnerable to broadcast storms,

VLAN Configuration Commands

When multiple VLAN assignment methods are configured on the switch, the switch assigns VLANs based on priorities of these methods. MAC address-based VLAN assignment on an interface and

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 ...

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] }&. By default, a hybrid interface is added to VLAN 1 in untagged

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.

Configuration Examples for VLANs

Configuration Roadmap The configuration roadmap is as follows: Create VLANs on the switches for different users. Add interfaces to VLANs so that packets of the VLANs can pass through the

Assigning VLANs

If protocol-based VLANs are configured on the interface and the protocol profile of the frame matches a protocol-based VLAN, the switch adds the VLAN tag to the frame.

VLAN, trunk, VLANIF (SVI) on Huawei switch

Today I want to show you: How to configure VLANs How to add interface to a VLAN How to establish 802.1q trunk between two Ethernet switches and filter VLANs How to configure VLANIF

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Assign VLANs Based on IP Subnets in the Huawei Switch

Assign VLANs Based on IP Subnets in the Huawei Switch A data center network has multiple services, including office services, production services, and disaster recovery services. Each

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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