Can Huawei switch optical ports be configured with IP addresses

Overview

You can configure multiple IP address for a Layer 3 interface on a switch, one as the primary IP address, and the others as secondary IP addresses.

Key Takeaways

Huawei switches do not assign IP addresses directly to optical ports; instead, management IPs are configured on VLAN interfaces or Ethernet management ports for remote access.

Understanding Optical Ports and IP Assignment

Optical ports on Huawei switches (such as S5700, S6700, or S6730 series) are physical interfaces used for high-speed fiber connections. These ports themselves do not have IP addresses. Instead, IP addresses are assigned to: Ethernet management ports (MEth interfaces) for out-of-band management, which do not carry service traffic.

VLA

N interfaces (Vlanif) or service interfaces for in-band management, where management and service traffic share the same link. This means that to manage a switch remotely via an optical port, you configure the IP on the VLAN interface associated with that port. Configuring a Management IPAccess the CLI Connect via console port or SSH to the switch and enter system view: CodeCopysystem-view Select the Interface For a VLAN interface: CodeCopyinterface Vlanif 10 Replace 10 with the VLAN ID associated with the optical port.

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Assign I

P Address and Subnet MaskCodeCopyip address 192. 168. 1.

1 255. 255. 255.

0 Replace with your desired IP and subnet mask. Save ConfigurationCodeCopysave Verify IP AssignmentCodeCopydisplay ip interface brief This command lists all interfaces and their assigned IPs, confirming connectivity.

Checking Optical Port Status

While the optical port itself does not have an IP, you can monitor its operational status and module information: View all optical modules: CodeCopydisplay transceiver View a specific optical port: CodeCopydisplay transceiver interface Verbose mode for receive/transmit power: CodeCopydisplay transceiver interface verbose These commands provide details such as module type, wavelength, link status, and diagnostic monitoring, which are essential for troubleshooting optical connections.

Key Points

Optical ports themselves cannot be assigned IP addresses.

Use VLA

N interfaces or Ethernet management ports for IP configuration. Always verify the IP and link status using display ip interface brief and display transceiver.

Proper I

P assignment ensures reliable remote management and monitoring of the switch.

Article Content

Configuring IP Addresses for Interfaces

You can configure multiple IP address for a Layer 3 interface on a switch, one as the primary IP address, and the others as secondary IP addresses. Each Layer 3 interface can have a maximum of 8

Ethernet Interface Configuration Commands

Four SFP28 Ethernet optical interfaces (25GE by default) and two QSFP28 Ethernet optical interfaces (40GE by default) have been configured using the set device port-config-mode enable command.

How to Assign an IP Address in a Huawei Switch? Why Proper ...

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A correctly configured IP ensures your switch doesn''t just function but thrives, whether handling VoIP calls without lag or isolating a compromised device during a breach.

Optical Module Solutions for Huawei S5700/S5720 Series Switches

This article summarizes several solutions for using optical modules with switches and common problems encountered during usage, along with specific solutions.

01-01 IP ADDRESS CONFIGURATION

To connect a PC to the Internet, you need to apply an IP address from the Internet Service Provider (ISP). An IP address is a numerical label assigned to each device on a computer network. An IPv4

How to Enable Ports in Huawei Switch? Could Open Ports Unlock

Configuring ports on a Huawei switch is a fundamental yet critical task for network administrators. Whether you''re setting up a new network segment or troubleshooting connectivity

HUAWEI SWITCH BASIC CONFIGURATIONS WITH EXAMPLE(5

LLDP allows a device to send local management information such as management IP address, device ID, and port ID to neighbors. LLDP provides a standard link-layer discovery method.

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

Master the Basic Command Configurations of Huawei, H3C, Ruijie,

Learning the ins and outs of these commands can be time-consuming but highly beneficial for managing network switches effectively. Router-switch , a leading provider of

What Is the Default Username and Password for Cisco Switches?

Default Password: device serial number Default IP Address: Assigned by DHCP or manually configured. Default Login Credentials by Cisco Switch Model ... Cisco intentionally designs

CloudEngine 8800, 7800, 6800, and 5800 Series Switches Hardware ...

This document provides an overall description of the CE5800&6800&7800&8800 series switches hardware that versions earlier than V200R020C00, helping you obtain detailed information about

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GPON introduction and Huawei OLT gateway registration

SERVICE-PORT uniquely defines a data flow through ONTID, GEM PORT number, GPON port, user-side VLAN, and OLT-side VLAN, thus opening the path from ONU to OLT and then to the external

(PDF) Analysis of Dynamic Host Control Protocol Implementation to ...

Abstract Dynamic Host Control Protocol (DHCP) is a protocol which provides IP addresses and network configuration parameters to the hosts present in the network.

Ethernet Interface Configuration Commands

The port-group group-member command creates a temporary port group and adds specified Ethernet interfaces to the temporary port group. Commands configured for a temporary port group will be

Ethernet Interface Configuration Commands

This page provides configuration commands for Ethernet interfaces on Huawei devices, covering settings like duplex mode and auto-negotiation.

How to configure IP address to an Huawei AR158E interface?

Huawei AR158E in version V200R003, only LAN interface FE0 (Ethernet0/0/0) can be configured as a WAN interface. In other words, I can only switch the interface FE0 to a layer 3 interface.

Configuring IP Addresses for Interfaces

Configuring IP Addresses for Interfaces To enable network devices to communicate at the network layer, configure interface IP addresses on the device.

Master the Basic Command Configurations of Huawei, H3C, Ruijie,

As technology advances, networking switches have become an integral part of the IT infrastructure. They play a crucial role in directing communication on the network and ensuring

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