

Can Huawei switches only have their IP addresses configured via optical ports



Overview

This document describes the management interfaces supported by switches and how to configure management IP addresses for switches.

Key Takeaways

Huawei switches can have IP addresses configured on multiple interface types, not just optical ports.

Interface Options for IP Configuration

Huawei switches support IP address assignment on several interfaces:

- VLANIF Interfaces:** Virtual interfaces associated with VLANs can be assigned IP addresses for management and in some cases service traffic. This is commonly used for Layer 3 management on switches that operate in Layer 2/Layer 3 mode.
- Ethernet Management Ports (MEth/ETH):** Dedicated management ports allow out-of-band management and can be directly assigned an IP address without carrying service traffic.

Service Interfaces: Physical Ethernet ports that carry network traffic can also be configured with IP addresses if the switch supports Layer 3 mode. Otherwise, the IP is assigned to the VLANIF associated with the port.



Console or Mini US

B Ports: While these ports do not carry IP traffic, they are used for initial configuration and local management before network-based IP configuration is applied.

Optical Ports

Optical ports, such as 10GE or XGE interfaces, are treated as service interfaces. You can configure IP addresses on these ports if the switch is in Layer 3 mode, but it is not mandatory to use optical ports exclusively for IP configuration.

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IP addresses can also be configured on copper Ethernet ports or VLANIF interfaces.

Management Considerations

In-band management: IP addresses on service interfaces allow management traffic to share the same link as user data.

Out-of-band management: IP addresses on dedicated management ports (Ethernet management port) provide a separate channel for management, improving security and reliability.

Conclusion

Huawei switches are flexible in IP configuration. You are not restricted to optical ports; IP addresses can be configured on VLANIF interfaces, Ethernet management ports, and service interfaces, depending on the switch model and Layer 2/Layer 3 mode settings. This allows administrators to choose the most suitable interface for management or routing purposes.

Article Content

Configuring IP Addresses for Interfaces

In some special scenarios, you need to configure secondary IP addresses for an interface. For example, a switch connects to a physical network through an interface, and hosts on this network belong to

Management Interfaces and Management IP Addresses of S Series

This document describes the management interfaces supported by switches and how to configure management IP addresses for switches.

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

Properly configured Huawei switches act as traffic directors, ensuring data flows efficiently between segments. For instance, assigning a unique IP to a VLAN interface lets you

Huawei Switch Configuration Guide | PDF | Internet Protocols

The document provides configuration instructions and commands for basic switch configuration using Huawei switches. It covers topics such as changing the hostname, configuring user accounts and

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

01-01 IP ADDRESS CONFIGURATION

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

How to Configure Huawei Switches: Are You Missing These Critical

Configuring a Huawei switch isn't just about plugging in cables and ticking boxes—it's about building a network that's resilient, efficient, and ready to grow.

Huawei S Series Quick Configuration

View and Download Huawei S Series quick configuration online. Campus Switches. S Series switch pdf manual download. Also for: S2750, S5700.

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 SWITCH BASIC CONFIGURATIONS WITH EXAMPLE(5

An access port belongs to and carries the traffic of only one VLAN within 2-layer switch. Traffic is both received and sent in native formats with no VLAN tagging whatsoever.

Link Aggregation, LAG, LACP and MLAG in 2026:

This guide explains how they work, static vs LACP, load balancing, server NIC bonding, STP interaction, and design best practices for campus and data center.

What Is the Default Username and Password for Cisco Switches?

TL;DR – Quick Answer Most Cisco enterprise switches - including the Catalyst 2960, 9200, 9300, and higher — have no default username or password. You must create login credentials

Groundbreaking SuperPoD Interconnect: Leading a New Paradigm ...

With UBoE, UnifiedBus runs over Ethernet, so that customers can continue to use their existing Ethernet switches. Compared to a RoCE cluster, a UBoE cluster will have lower static

Huawei CloudEngine 6885L Data Center Switch Datasheet

Huawei CloudEngine 6885L Data Center Switch Datasheet Huawei CloudEngine 6885L series switches are next-generation high-performance and high-density GE/10GE/25GE access switches designed

Cisco CLI Switch Command Cheat Sheet for 2025

IP addresses aren't needed on a switch. The only reason we would set an IP address, mask, and default gateway is for management purposes. The IP address is configured under a

Enabling or Disabling an Interface

After you run the undo portswitch command to switch Layer 2 interfaces on the preceding series of switches into Layer 3 interfaces, you can configure Ethernet sub-interfaces on the interfaces. After an

Aruba and HP switches debug and diagnostics commands cheat sheet

All commands were tested on HP/Aruba 5400 switches (specifically 5406Rzl2), but will work on any model with recent firmware versions (16.x or newer), except for the hardware features

S1720, S2700, S3700, S5700, S6700, S7700, and S9700 Series Switches ...

S1720, S2700, S3700, S5700, S6700, S7700, and S9700 Series Switches Common Operation Guide (V200) This document describes the CLI-based configurations of universal protocols and common

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