How to use Huawei switch stacked optical ports



Overview

S Series Switches Stack Deployment Best Practices This document describes the best practices for stack deployment, including device selection, deployment.

Key Takeaways

Huawei switch stacked optical ports can be used to connect multiple switches into a single logical stack by configuring service ports as stack ports and linking them with dedicated stack cables.Overview of Optical Port Stacking

Huawei S-Series switches support stacking using either stack cards or service ports. When using optical ports (service ports) for stacking:

• No stack card is required, but dedicated stack cables must be purchased separately .

• Service ports must be manually configured as stack ports before connecting the switches .

• Optical stacking allows multiple switches to operate as a single logical device, simplifying management, enabling a single IP for the stack, and supporting cross-device link aggregation .
Pre-Stacking Preparation
• Verify Compatibility: Ensure your switch models support service port stacking (e.g., S5700, S6700 series) and check the maximum number of stackable switches .

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• Select Ports and Cables: Choose supported optical ports and dedicated stack cables based on the distance between switches .

• Firmware and Licenses: Ensure all switches run the same VRP version and enable stacking licenses if required .

• Topology Planning: Use a ring topology for redundancy; avoid a simple chain to prevent single points of failure .

Configuration Steps

• Access the Switch CLI: Connect via console or SSH to each switch.

• Enter System View: Use system-view to configure the switch.

• Configure Stack Ports: Assign the optical ports as stack ports. For example, if using ports 1 and 8:

stack-port group 1[Switch-stack-port] port GigabitEthernet0/0/1 to GigabitEthernet0/0/4 This converts the selected ports into physical stack ports .

• Set Switch Priority and Slot ID: Assign a priority to influence master election and set a unique slot number for each switch:

stack priority 200 stack slot 1 Avoid frequent slot ID changes to prevent stack split .

• Connect Stack Cables: Link the configured optical stack ports between switches according to the planned topology.

• Verify Stack Status: Use display stack to check member status, master/standby roles, and connectivity.

Best Practices

• Use bidirectional links for redundancy in ring topology .

• Prioritize dedicated stack ports over regular uplink ports to avoid service disruption .

• Synchronize configurations via the master switch and back up all switches using save all .

• Monitor stack health: Check for offline members, mismatched firmware, or cable issues regularly .

• Avoid overloading stack bandwidth: Allocate high-speed optical ports for stacking to ensure smooth synchronization .

Troubleshooting Common Issues

• Offline Members: Check physical connections, replace faulty cables, and verify VRP versions .

• Multiple Masters Detected: Adjust priorities and ensure proper ring integrity .

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• Configuration Inconsistencies: Always configure via the master switch to prevent conflicts . By following these steps and best practices, Huawei switch stacked optical ports can be effectively used to create a reliable, high-performance stack that simplifies network management and enhances redundancy.

Article Content

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Huawei S-Series Switch Stacking Demonstration

This test uses two identical Huawei S-Series switches for stacking (a maximum of 9 switches can be stacked). Table 1

01-02 STACK CONFIGURATION

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In this video, we''ll walk you through the process of setting up a stack configuration using Huawei switches. Stacking

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Installation Procedure Stack member switches can set up a stack in a chain or ring topology through service port connections. Figure

Typical Stack Configuration of Fixed Switches

If SFP+ optical ports of an S5720-14X-PWH-SI-AC have been configured as stack member ports but the switch needs to be

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Stack Connection Modes

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Configuring Attributes for an Optical Interface

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Example for Setting Up a Stack Using Service Ports

To improve stack efficiency and reduce manual configuration, since V200R011C10, switches can set up a stack using

Optical Module Solutions for Huawei S5700/S5720 Series Switches

When using switches, we may encounter many confusions, such as what types of optical modules are needed for

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Example for Adding a Member Switch to a Stack (Service Port

The configuration roadmap is as follows: Examine the physical connections of the stack to determine a location for the new member

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Installing Stack Cables and Powering On the Switch

In stack card connection mode, member switches are connected through two ports that reside on stack cards or are integrated into

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Prerequisites for Stacking Huawei S5700LI Switches Before configuring stacking, ensure the following: Compatible Switches: All

Enabling or Disabling an Interface

This guide explains how to enable or disable an interface on Huawei devices, including principles, configurations, and examples for

Stack Setup

A stack is set up after the following stages: Physical connection setup: When multiple switches are connected in a specific topology

Setting Up a Stack Using Dedicated Stack Cables

Stack setup through service port connections supports both ring and chain topologies. Figure 2-30 and Figure 2-31 show the cable

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The first two 10GE optical ports on a device belong to Stack-Port 1, and the last two 10GE optical ports on a device belong to Stack

Example for Setting Up a Stack Using Service Ports (V100R006C05 ...

Overview When S2300-EI, S3300-SI, and S3300-EI switches set up stacks using service ports, you do not need to

Troubleshooting S Series Switch Port and Interface Problems

Troubleshooting S Series Switch Port and Interface Problems This document describes how to check the switch interface or port

Stacked Switch Model Selection

When the distance between two switches is greater than 10 m, you are advised to use optical modules and optical fibers or use

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