

Huawei Switches Converging Trunk



Overview

To increase bandwidth without replacing the existing interface boards or wasting IP address resources, bundle physical interfaces into a logical interface using Eth-Trunk to provide higher bandwidth.

Key Takeaways

Huawei switches use Eth-Trunk and 802.1Q trunk ports to converge multiple physical links into a single logical link, increasing bandwidth, reliability, and enabling VLAN traffic across switches.

Eth-

Trunk (Link Aggregation) Eth-Trunk is Huawei's implementation of Ethernet link aggregation, which bundles multiple physical interfaces into a single logical interface. This provides several benefits: Increased Bandwidth: The total bandwidth of the Eth-Trunk equals the sum of its member interfaces, allowing higher throughput without upgrading hardware. High Reliability: If one physical link fails, traffic automatically switches to other active links, ensuring continuous connectivity.

Load Balancing: Traffic is distributed across all active links, improving network efficiency.

Configuration Steps

Check Interface Status: Ensure all physical interfaces are connected and operational using display interface brief.



Create Eth-

Trunk: Assign member interfaces to the Eth-Trunk in either manual mode or LACP mode for dynamic link aggregation. Consistency Check: Ensure all member interfaces have the same duplex mode, flow control, and aggregation mode. Mixed-rate links can be enabled in versions V200R011C10 and later.

Verify: Use commands like `display eth-trunk` to confirm the status and load balancing of the Eth-Trunk.

VLAN Trunk Configuration

A trunk port allows multiple VLANs to pass through a single physical link using 802.1Q tagging: Tagged VLANs: Carry traffic for multiple VLANs.

Native VLA

N: Untagged traffic belongs to a default VLAN. Use Case: Connects switches or routers to allow VLAN communication across devices.

Configuration Steps

Create VLA

Ns: Define VLANs on both switches, e.g., VLAN 100 and VLAN 200.

Code

Copy vlan 100[Switch-vlan100] description VLAN100 vlan 200[Switch-vlan200] description VLAN200 Configure Trunk Port: Set the interface as a trunk and allow VLANs to pass. CodeCopy[Switch-GigabitEthernet0/0/10] port link-type trunk[Switch-GigabitEthernet0/0/10] port trunk allow-pass vlan 100 200 Verify: Use `display port vlan` to check trunk configuration and VLAN membership.

Combining Eth-

Trunk and VLAN TrunksFor converging trunks, you can assign an Eth-Trunk as a trunk port carrying multiple VLANs. This combines the benefits of link aggregation and VLAN segmentation: Create an Eth-Trunk with multiple physical links.

Configure the Eth-

Trunk interface as a trunk port. Allow the required VLANs to pass through the Eth-Trunk. Verify connectivity and VLAN reachability across switches.

This setup ensures high bandwidth, redundancy, and proper VLAN traffic segregation, which is essential for enterprise networks with multiple VLANs and high traffic demands.

Verification and Troubleshooting

Ping Test: Verify VLAN connectivity between devices in the same VLAN. **Display Commands:** Use display eth-trunk and display port vlan to check link status and VLAN assignments. **Consistency Checks:** Ensure all member interfaces of an Eth-Trunk have consistent configurations to avoid aggregation failures.

By following these steps, Huawei switches can efficiently converge multiple links into a single logical trunk while supporting multiple VLANs, improving both performance and reliability.

Article Content

Eth-Trunk Interface Configuration

To increase bandwidth without replacing the existing interface boards or wasting IP address resources, bundle physical interfaces into a logical interface using Eth-Trunk to provide higher bandwidth.

Understanding Eth-Trunk Load Balancing of S Series Switches (V600)

To prevent out-of-order packets, Eth-Trunk uses flow-based load balancing. This mechanism uses the hash algorithm to calculate the address in a data frame and generate a hash

01-03 ETH-TRUNK CONFIGURATION

Using Eth-Trunk, bandwidth is increased by bundling a group of physical interfaces into a single logical interface, without having to upgrade hardware. Eth-Trunk also greatly improves link reliability by

Configuring access, trunk, and hybrid ports on Huawei switches and ...

The physical layer uses what medium to transmit, and the data link layer converts the line between the two underlying switching devices into a logical transmission line to provide point-to-point

Trunk port config (Huawei)

A trunk interface often connects to a switch, router, AP, or voice terminal that can receive and send tagged and untagged frames simultaneously. It allows tagged frames from multiple VLANs and

How to Configure a Trunk Port on Huawei Switch

In this video, we walk you through the process of configuring a trunk port on a Huawei switch. Trunk ports are essential for allowing multiple VLANs to pass through a single network link

HUAWEI SWITCH BASIC CONFIGURATIONS WITH EXAMPLE(5

Trunk port config: A trunk interface often connects to a switch, router, AP, or voice terminal that can receive and send tagged and untagged frames simultaneously.

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.

Huawei Routing and Switching --

Eth-Trunk is a bundling technology that bundles multiple Ethernet interfaces into one logical interface. As shown in the following figure, the three physical interfaces between RTA and RTB are bundled into a

Configuring and Troubleshooting Eth-Trunks for S5700 Switches (V600)

Run the display eth-trunk command to check information about Eth-Trunk member interfaces. If the Eth-Trunk member interface goes Down, rectify the fault by referring to

Trunk between cisco and huawei

One of my edge Huawei S5700-28C-EI stack switches is dead, I am going to replace it with a Cisco switch Catalyst 3750 series PoE-48 via a trunk link with GE fiber port on both ends,

Huawei switch ENSP basic command

Huawei switch ENSP basic command, Programmer Sought, the best programmer technical posts sharing site.

Eth-Trunk Interface Configuration

This section describes Eth-Trunk interfaces from the perspective of their configuration logic. Understanding this logic helps you complete the configuration task more quickly and accurately. Eth

Configuring Access Port and Trunk Port on Huawei Switch

In this tutorial, we will guide you through the process of configuring access and trunk ports on Huawei Switches. We will explain the difference between access and trunk ports, and show you how to ...

Configuring Huawei Trunk Between Router and Switch

The document provides instructions for configuring a trunk between a Huawei router and switch to allow hosts on VLAN 100 to communicate. It describes configuring the router interface and a subinterface

Creating and Configuring an Eth-Trunk Interface

Default Settings for Eth-Trunk Creating and Configuring an Eth-Trunk Interface
Creating an Eth-Trunk Interface and Configure a Link Aggregation Mode for It Adding
Member Interfaces to an

TechNotes: What Is a Trunk Link

Prerequisites This document uses Huawei S5700 series switches as an example to describe how to configure trunk links. There may be differences in the implementation of different switch models and

Understanding Eth-Trunk Load Balancing of S Series Switches (V600)

If traffic is unevenly load balanced after the configuration is complete, rectify the fault according to How Do I Adjust Eth-Trunk Configurations on S Series Switches When Eth-Trunk Load

Related Video Reference

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

