

ENSP Aggregation Switch



AI Overview

ENSP Aggregation Switch uses link aggregation (Eth-Trunk) to combine multiple physical ports into a single logical link, enhancing bandwidth, redundancy, and load balancing.

Overview of Link Aggregation in eNSP

Link aggregation, also known as Ethernet trunking (Eth-Trunk), allows multiple physical Ethernet interfaces to be bundled into a single logical interface. This provides several benefits:

- Increased bandwidth** by combining the throughput of multiple links.
- Redundancy**: if one link fails, traffic is automatically redistributed across remaining links.
- Load balancing**: traffic is distributed according to configured policies, improving network efficiency.

Types of Aggregation

- Static (Manual) Eth-Trunk**: Requires manual configuration on both ends of the link. It is simple but lacks dynamic negotiation.
- Dynamic (LACP-based) Eth-Trunk**: Uses the Link Aggregation Control Protocol (LACP, IEEE 802.3ad) to automatically negotiate and maintain the aggregated link. LACP can dynamically adjust active and standby links based on network conditions, improving fault tolerance and scalability.

Key Configuration Steps in eNSP

- Create an Eth-Trunk interface:

```
CodeCopy interface Eth-Trunk 1
```
- Add physical ports to the aggregation group:

```
CodeCopy [Huawei-Ethernet0/0/1] eth-trunk 1
```
- Configure LACP (if using dynamic aggregation):

```
CodeCopy [Huawei-Eth-Trunk1] mode lacp [Huawei-Eth-Trunk1] lacp priority 100 [Huawei-Eth-Trunk1] lacp preempt enable
```
- Assign VLANs to the trunk to allow multiple VLANs to traverse the aggregated link:

```
CodeCopy [Huawei-Eth-Trunk1] port link-type trunk [Huawei-Eth-Trunk1] port trunk allow-pass vlan 10 20
```

Practical Considerations

- Ensure consistent port parameters across all member interfaces.
- Define maximum active links to control which ports are active and which remain standby.
- LACP allows automatic failover and dynamic load balancing, while static aggregation requires manual intervention if a link fails.
- Integrating VLANs with Eth-Trunk ensures proper segmentation and communication across switches.

Summ...

Article Content

y-guang/eNSP-topologies

This project contains several network topologies and corresponding notes for the Network Engineer video tutorials. The topologies is built in eNSP from Huawei. -

Ensp Layer 2 link aggregation configuration example

Link aggregation refers to the aggregation of multiple physical ports to form a logical port to achieve load sharing of outgoing and incoming traffic throughput on each member port.

Huawei Ensp Simulator Experiment: LACP Mode Link

The switch exchanges through LACPDU (Link Aggregation Control Protocol Data Unit) to determine the active end device by comparing the priority of LACP. The

eNSP Ethernet Link Aggregation Implementation | Amr Arafa

☐☐ New eNSP Project – Ethernet Link Aggregation Implementation I recently worked on a new hands-on lab using eNSP, where I implemented Ethernet Link Aggregation (Eth-Trunk) to enhance...

Simulation HUAWEI I Configure Managemen IP and Telnet

After configuring the management IP address of a switch, you can log in to the switch using this address. CORE is used in the example below to show the procedure of configuring the management IP ...

Example of configuring M-LAG dual-homing access on Huawei eNSP

Since users have high requirements for service reliability, link aggregation between the host and the access device can only ensure link-level reliability. Failure of the access device will

eNSP-----

Implementation of vlanif configuration under eNSP simulation (one aggregation switch, two access switches) through the three-layer switch to realize the three-layer communication between VLANs

Link Aggregation Configuration

Link aggregation can work in manual mode or Link Aggregation Control Protocol (LACP) mode. If a high link bandwidth between two directly connected devices is required and devices support LACP, the

Mastering Huawei LACP for Redundancy and Bandwidth Scaling

The solution? Link Aggregation! ☐☐ I just wrapped up an advanced lab on Huawei eNSP, focusing on Eth-Trunk configurations to enhance both redundancy and throughput across multiple switches.

Huawei Link Aggregation Configuration | Huawei LAG

Huawei Link Aggregation Configuration. In this lesson, we will talk about How to COntfigure Link Aggregation on Huawei Routers.

How to Configure LACP or Port Channel (Eth-Trunk) link Aggregation ...

Huawei Labs Full Course eNSP cLearning How to Configure LACP or Port Channel (Eth-Trunk) link Aggregation Control Protocol in eNSP Huawei

Configuring Link Aggregation in LACP Mode

Configure Link Aggregation in LACP Mode on the Huawei CX320 Switch Module to increase bandwidth and improve connection reliability.

Enterprise Network Design and Deployment Practice

Stage 1: Virtual simulation and principle cognition: Utilizing simulation platforms such as Huawei eNSP , conduct visual simulation teaching on

Example of configuring M-LAG dual-homing access on Huawei eNSP

CE-B: 6. Access switch configuration: 7: Detection command Use the display dfs-group 1 m-lag and display dfs-group 1 m-lag brief commands on both switches. Because eNSP-Pro has a

How to Configure Link Aggregation or Port Channel or Eth ...

How to Configure Link Aggregation or Port Channel or Eth-Trunk in Manual Mode in eNSP Huawei cLearning 5.8K subscribers 5.9K views 3 years ago Huawei Labs Full Course eNSP

Huawei ENSP Simulator Network Experiment Switch Basic Configuration

Huawei ENSP Simulator Network Experiment Switch Basic Configuration, Programmer Sought, the best programmer technical posts sharing site.

Huawei eNSP Command Reference Guide

This document provides summaries of commands for configuring routing, VLANs, link aggregation, and other features on Huawei networking devices.

HUAWEI S5700 switch link aggregation configuration

Huawei S5700 switch configuration Different VLAN communication---eNSP Huawei S5700 switch configuration Communication between different VLANs—eNSP Purpose Realize the communication

AsifaSiraj/NED-CCN-LAB-FINAL

Final CCN Lab project at NED University using Huawei eNSP. Implements VLAN, RIP, LACP, and DHCP in a simulated enterprise network. Demonstrates dynamic routing, link aggregation, IP

Install Huawei eNSP on Windows 10 in 2024

In this video, I will show you how to install Huawei eNSP on Windows 10 in 2024. This used to be an easy task until 2020 when the Windows 10 20H1 build came ...

Huawei eNSP Command Reference Guide

Huawei eNSP Command Reference Guide This document provides summaries of commands for configuring routing, VLANs, link aggregation, and other features

Huawei VLAN configuration

Join the Huawei Enterprise Community for free technical support & configuration tips from Huawei engineers and experts, tools & documentation, activities wit...

Huawei Ensp Configure Vlan with Switch (Video Assignment Project) 2020

Huawei Ensp Configure Vlan with Switch (Video Assignment Project) 2020 Kobo Factory 104 subscribers 92

Medium Scale Campus Network (eNSP)

As shown in the topology of an enterprise network, there are three parts: security, route switching, and wireless. This video shows how you can configure a f...

AsifaSiraj/NED-CCN-LAB-FINAL

This lab simulation demonstrates the configuration and implementation of VLAN, RIP, LACP, and DHCP protocols using Huawei's eNSP (Enterprise Network Simulation Platform).

Huawei eNSP Basic Networking Series

Devices used are 2 routers, 2 switches (no configuration), 4 PCs. 3 networks in total. Static routing is done to configure the routers

Contact Us

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