

How to perform optical port aggregation on an H3C switch

Article Overview

Optical port aggregation on H3C switches is achieved by creating a link aggregation group (LAG) that bundles multiple optical interfaces into a single logical interface, either statically or dynamically using LACP.

Step 1: Verify Port Type and Mode

H3C switches often use combo ports that support both fiber (SFP) and copper (RJ45). Only one mode can be active at a time to avoid conflicts. Use the following commands to select the optical mode:

```
system-viewinterface GigabitEthernet1/0/1combo enable fiber
```

Ensure the optical module is properly inserted and compatible with the switch port speed and wavelength .

Step 2: Prepare Ports for Aggregation

Before adding ports to an aggregation group, remove conflicting configurations such as VLAN isolation, QinQ, MAC authentication, port security, or 802.1X. Check port attributes with:

```
display this
```

Then undo any conflicting commands to reset the port to default settings .

Step 3: Create the Aggregation Group

H3C switches support static (manual) and dynamic (LACP) aggregation. For optical ports, dynamic aggregation is recommended if both ends support LACP. Example for creating a dynamic aggregation group:

```
system-viewinterface Bridge-Aggregation 1link-aggregation mode dynamic
```

Step 4: Add Optical Ports to the Aggregation Group

Assign the prepared optical interfaces to the aggregation group:

```
interface GigabitEthernet1/0/1port link-aggregation group 1interface GigabitEthernet1/0/2port link-aggregation group 1
```

For QSFP interfaces, you may need to split or combine interfaces depending on the desired speed (e.g., 40G, 100G) before aggregation:

```
interface HundredGigE1/0/29fortygige // splits into 4x10G interfacesport link-aggregation group 1
```

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The configuration takes effect immediately .

Step 5: Configure VLANs and Trunking

If the aggregated link will carry multiple VLANs, configure it as a trunk:

```
interface Bridge-Aggregation 1 port link-type trunk port trunk permit vlan 10 20
```

This allows traffic from multiple VLANs to pass through the aggregated optical link .

Step 6: Verify Aggregation Status

Check the status of the aggregation group and member ports:

```
display link-aggregation summary display interface Bridge-Aggregation 1
```

Ensure all member ports are in the Selected state and the aggregate interface is operational .

Best Practices

- o All member ports must have the same speed, duplex, and link type.
- o Use dynamic aggregation (LACP) when possible for better fault tolerance.
- o Ensure optical modules are compatible and properly seated.
- o Avoid mixing fiber and copper in the same aggregation group. By following these steps, you can successfully enable optical port aggregation on H3C switches, increasing bandwidth and providing redundancy for critical network links .

destination-port: Performs load sharing in link aggregation groups based on destination port. source-ip: Performs load sharing in link

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Link aggregation means aggregating several ports together into an aggregation group to implement load sharing among the member

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Configuring Ethernet link aggregation Overview Ethernet link aggregation bundles multiple physical Ethernet links into one logical

Switch A uses a RADIUS server (Switch B) to perform RADIUS-based 802.1X authentication and authorization. The

After you enable automatic link aggregation and LLDP on two connected devices, they automatically establish a dynamic link

Perform basic operations including display, debug, file management, FTP, Telnet, clock setting, and reboot. Enter system view.

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This time, using the H3C S6850-56HF switch (Software Version: 7.1.070, Release 6710) as a practical test example,

When aggregating ports, the system automatically assigns each port an operational key based on port information, such as port rate

You must perform this task at both ends of the aggregate link so the peer aggregation systems use the same criteria for reference

Complete H3C Comware switch security configuration tutorial (MAC/IP/port binding),plus full optical module matching list

```
port link-mode route port link-aggregation group 1 # interface HundredGigE1/0/3 port link-mode route port link-aggregation group 1 #
```

Wednesday, 7 May 2014 Port channel configuration on H3C switches This document explains the port-channel configuration on H3c

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