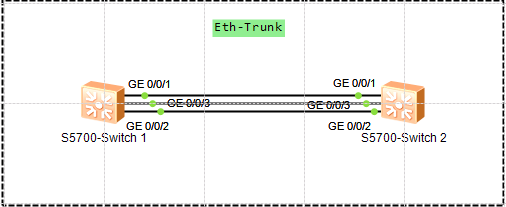
## Eth-Trunk的链路聚合的配置



链路聚合就是把两台设备之间的多条物理链路聚合在一起，形成一条逻辑链路。提高链路带宽、可靠性高、在一个聚合口上实现均衡负载

**链路聚合模式有两种**：

- **手动均衡负载模式**

- **静态LACP（Link Aggregation Control Protocol）模式**

主要区别在LACP模式中有些链路充当备份链路，而在手动负载均衡模式中，所有成员都处于转发状态

Eth-Trunk链路两端相连的物理界面的数量、速率、单双工模式、流控方式必须一致

### 二层链路聚合的配置

[Switch 1]interface Eth-Trunk 1

[Switch 1]interface GigabitEthernet 0/0/1

[Switch 1-GigabitEthernet0/0/1]eth-trunk 1

[Switch 1]interface GigabitEthernet 0/0/2

[Switch 1-GigabitEthernet0/0/1]eth-trunk 1

[Switch 1]interface GigabitEthernet 0/0/3

[Switch 1-GigabitEthernet0/0/1]eth-trunk 1

### 查看汇聚链路状态信息

<Switch 1>display interface Eth-Trunk 1

Eth-Trunk1 current state : UP

Line protocol current state : UP

Description:

Switch Port, PVID : 1, Hash arithmetic : According to SIP-XOR-DIP,Maximal BW:

3G, Current BW: 3G, The Maximum Frame Length is 9216

IP Sending Frames' Format is PKTFMT\_ETHNT\_2, Hardware address is 4c1f-cc24-251c

Current system time: 2017-10-22 20:06:21-08:00

Input bandwidth utilization : 0%

Output bandwidth utilization : 0%

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PortName Status Weight

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GigabitEthernet0/0/1 UP 1

GigabitEthernet0/0/2 UP 1

GigabitEthernet0/0/3 UP 1

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The Number of Ports in Trunk : 3

The Number of UP Ports in Trunk : 3

### 链路聚合LACP模式的配置

[Switch 3]interface Eth-Trunk 2

[Switch 3-Eth-Trunk2]mode lacp-static

查看

<Switch 3>display eth-trunk

Eth-Trunk1's state information is:

WorkingMode: NORMAL Hash arithmetic: According to SIP-XOR-DIP

Least Active-linknumber: 1 Max Bandwidth-affected-linknumber: 8

Operate status: down Number Of Up Port In Trunk: 0

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PortName Status Weight

Eth-Trunk2's state information is:

Local:

LAG ID: 2 WorkingMode: STATIC

Preempt Delay: Disabled Hash arithmetic: According to SIP-XOR-DIP

System Priority: 32768 System ID: 4c1f-ccc0-0a1b

Least Active-linknumber: 1 Max Active-linknumber: 8

Operate status: up Number Of Up Port In Trunk: 2

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ActorPortName Status PortType PortPri PortNo PortKey PortState Weight

GigabitEthernet0/0/1 Selected 1GE 32768 2 561 10111100 1

GigabitEthernet0/0/2 Selected 1GE 32768 3 561 10111100 1

Partner:

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ActorPortName SysPri SystemID PortPri PortNo PortKey PortState

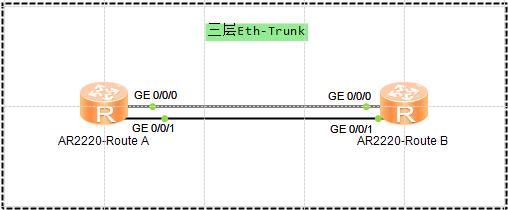
GigabitEthernet0/0/1 32768 4c1f-cce5-41d5 32768 2 561 10111100

GigabitEthernet0/0/2 32768 4c1f-cce5-41d5 32768 3 561 10111100

在Switch 3上设置LACP的优先级为100，成为主动端

[Switch 3]lacp priority 100

## 三层Eth-Trunk的配置



使用undo portswitch，将原本的二层汇聚链路转换成三层汇聚链路。再在三层汇聚链路逻辑口配置IP地址

[Route A]interface Eth-Trunk 1

[Route A-Eth-Trunk1]undo portswitch

[Route A-Eth-Trunk1]ip address 192.168.1.1 255.255.255.0

三层汇聚链路状态信息

<Route A>display interface Eth-Trunk 1

Eth-Trunk1 current state : UP

Line protocol current state : UP

Last line protocol up time : 2017-10-22 19:55:52 UTC-08:00

Description:HUAWEI, AR Series, Eth-Trunk1 Interface

Route Port,Hash arithmetic : According to SIP-XOR-DIP,Maximal BW: 2G, Current BW

: 2G, The Maximum Transmit Unit is 1500

Internet Address is 192.168.1.1/24

IP Sending Frames' Format is PKTFMT\_ETHNT\_2, Hardware address is 00e0-fcc0-50f6

Current system time: 2017-10-22 21:00:05-08:00

Input: 1 packets, 60 bytes

Unicast: 0, Multicast: 0

Broadcast: 1, Discard: 0

Total Error: 0

Output: 1 packets, 60 bytes

Unicast: 0, Multicast: 0

Broadcast: 1, Discard: 0

Total Error: 0

Input bandwidth utilization : 0%

Output bandwidth utilization : 0%

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PortName Status Weight

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GigabitEthernet0/0/0 UP 1

GigabitEthernet0/0/1 UP 1

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The Number of Ports in Trunk : 2

The Number of UP Ports in Trunk : 2