

# H3C S5820二层端口聚合

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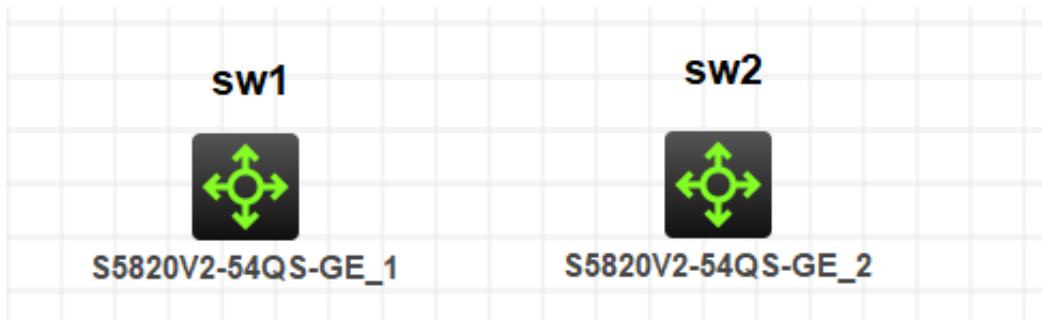
## 0.前言

参考文档：

- s6820 产品介绍链接：[http://www.h3c.com/cn/Products\\_\\_\\_Technology/Products/Switches/Park\\_switch/S6820/S6820/](http://www.h3c.com/cn/Products___Technology/Products/Switches/Park_switch/S6820/S6820/)
- 以太网链路聚合配置文档：[http://www.h3c.com/cn/d\\_201708/1019827\\_30005\\_0.htm](http://www.h3c.com/cn/d_201708/1019827_30005_0.htm)

实验目标：实现sw1 Ten-GigabitEthernet1/0/49~52 4个万兆端口聚合，与 sw2 Ten-GigabitEthernet1/0/49~52 聚合后相连。

实验拓扑：两台H3C S5820 交换机。如下图，先不接线，把聚合配置完，才能接线。线务必后接，防止环路。



## 1.配置聚合

```
1 <H3C>sys
2 [H3C]hostname sw1
3 # 创建聚合组
4 [sw1]interface Bridge-Aggregation 1
5 [sw1-Bridge-Aggregation1]desc TO_SW2_BAGG1
6 [sw1-Bridge-Aggregation1]quit
7
8 # 配置端口加入聚合组
9 [sw1]interface XGE1/0/49
10 [sw1-Ten-GigabitEthernet1/0/49]desc TO_SW2_XGE1/0/49
11 [sw1-Ten-GigabitEthernet1/0/49]port link-aggregation group 1
12 [sw1-Ten-GigabitEthernet1/0/49]shutdown
```

```

13 [sw1-Ten-GigabitEthernet1/0/49]quit
14 # 剩余Ten-GigabitEthernet1/0/50~52 3个端口, 和Ten-GigabitEthernet1/0/49配置
15 类似
16 # 创建vlan
17 [sw1]vlan 100
18 [sw1-vlan100]quit
19 [sw1-Bridge-Aggregation1]port access vlan 100 # 划分聚合端口到vlan 100。按
20 需求来。
21 Configuring Ten-GigabitEthernet1/0/49 done.
22 Configuring Ten-GigabitEthernet1/0/50 done.
23 Configuring Ten-GigabitEthernet1/0/51 done.
24 Configuring Ten-GigabitEthernet1/0/52 done.
25
26 [sw1]dis interface brief
27 .....
28 BAGG1 DOWN auto A A 100 TO_SW2_BAGG1
29 .....
30 XGE1/0/49 ADM 10G F A 100 TO_SW2_XGE1/0/49
31 XGE1/0/50 ADM 10G F A 100 TO_SW2_XGE1/0/50
   XGE1/0/51 ADM 10G F A 100 TO_SW2_XGE1/0/51
   XGE1/0/52 ADM 10G F A 100 TO_SW2_XGE1/0/52

```

sw2 配置和 sw1 类似。都是创建聚合组，加入聚合组，关闭端口。注意要关闭端口，避免环路的可能。等两台交换机的聚合组都配置好了，再打开端口。

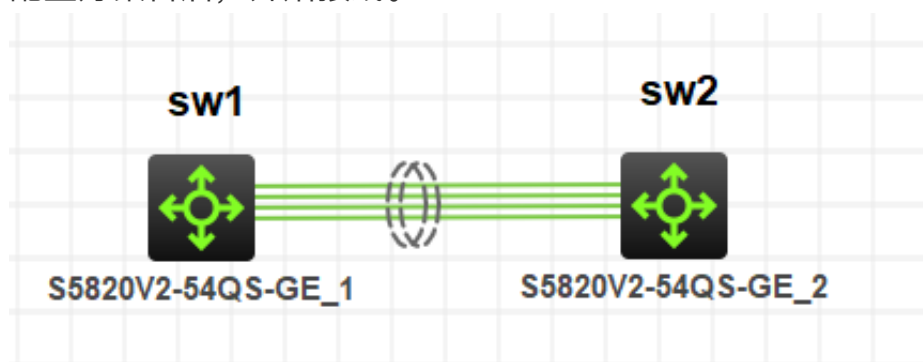
sw2 配置完成后，查看一下端口：

```

1 [sw2]dis int brief
2 .....
3 BAGG1 DOWN auto A A 100 TO_SW1_BAGG1
4 .....
5 XGE1/0/49 ADM 10G F A 1 TO_SW1_XGE1/0/49
6 XGE1/0/50 ADM 10G F A 1 TO_SW1_XGE1/0/50
7 XGE1/0/51 ADM 10G F A 1 TO_SW1_XGE1/0/51
8 XGE1/0/52 ADM 10G F A 1 TO_SW1_XGE1/0/52

```

配置好聚合后，开始接线。



## 2.查看效果

- 启用端口，sw1 sw2 共8个端口，都启用。

```
1 [sw1]interface Ten-GigabitEthernet1/0/49
2 [sw1-Ten-GigabitEthernet1/0/49]undo shut
3 [sw1-Ten-GigabitEthernet1/0/49]%Dec 20 18:10:26:886 2018 sw1 IFNET/3/PHY
4 _UPDOWN: Physical state on the interface Ten-GigabitEthernet1/0/49 chang
5 ed to up.
6 %Dec 20 18:10:26:888 2018 sw1 LLDP/6/LLDP_CREATE_NEIGHBOR: Nearest bridg
7 e agent neighbor created on port Ten-GigabitEthernet1/0/49 (IfIndex 50),
8   neighbor's chassis ID is 6eab-c8c3-0200, port ID is Ten-GigabitEthernet
9   1/0/49.
10
11 %Dec 20 18:10:26:888 2018 sw1 LAGG/6/LAGG_ACTIVE: Member port XGE1/0/49
12 of aggregation group BAGG1 changed to the active state.
13 %Dec 20 18:10:26:890 2018 sw1 IFNET/5/LINK_UPDOWN: Line protocol state o
   n the interface Ten-GigabitEthernet1/0/49 changed to up.
   %Dec 20 18:10:26:890 2018 sw1 IFNET/3/PHY_UPDOWN: Physical state on the
   interface Bridge-Aggregation1 changed to up.
   %Dec 20 18:10:26:890 2018 sw1 IFNET/5/LINK_UPDOWN: Line protocol state o
   n the interface Bridge-Aggregation1 changed to up.
   %Dec 20 18:10:26:892 2018 sw1 STP/6/STP_DETECTED_TC: Instance 0's port B
   ridge-Aggregation1 detected a topology change.
   %Dec 20 18:10:28:996 2018 sw1 STP/6/STP_NOTIFIED_TC: Instance 0's port B
   ridge-Aggregation1 was notified a topology change.

[sw1-Ten-GigabitEthernet1/0/49]quit
```

- 查看效果

```
1 [sw1]display interface Brief
2 .....
3 BAGG1 UP 40G(a) F(a) A 100 TO_SW2_BAGG1
4 .....
5 [sw1]display interface Bridge-Aggregation 1 brief
6 Brief information on interfaces in bridge mode:
7 Link: ADM - administratively down; Stby - standby
8 Speed: (a) - auto
9 Duplex: (a)/A - auto; H - half; F - full
10 Type: A - access; T - trunk; H - hybrid
11 Interface Link Speed Duplex Type PVID Description
12 BAGG1 UP 40G(a) F(a) A 100 TO_SW2_BAGG1
```

## 3.保存配置

sw1 sw2 都 save 一下。

```
1 [sw1]save
2 The current configuration will be written to the device. Are you sure? [
3 Y/N]:y
4 Please input the file name(*.cfg)[flash:/startup.cfg]
5 (To leave the existing filename unchanged, press the enter key):
6 Validating file. Please wait...
7 Saved the current configuration to mainboard device successfully.
  [sw1]
```

## 4.模拟端口故障

这里把一个端口关闭，模拟端口故障

```
1 [sw1]interface Ten-GigabitEthernet 1/0/49
2 [sw1-Ten-GigabitEthernet1/0/49]shut
3 .....
4 [sw1-Ten-GigabitEthernet1/0/49]quit
5 [sw1]dis interface Bridge-Aggregation 1 brief
6 .....
7 Interface Link Speed Duplex Type PVID Description
8 BAGG1 UP 30G(a) F(a) A 100 TO_SW2_BAGG1
```

看到端口速度变成了30G

```
1 [sw1]
2 [sw1]interface Ten-GigabitEthernet 1/0/49
3 [sw1-Ten-GigabitEthernet1/0/49]undo shut
4 [sw1]dis interface Bridge-Aggregation 1 brief
5 Interface Link Speed Duplex Type PVID Description
6 BAGG1 UP 40G(a) F(a) A 100 TO_SW2_BAGG1
```

看到端口速度又变会40Gbs