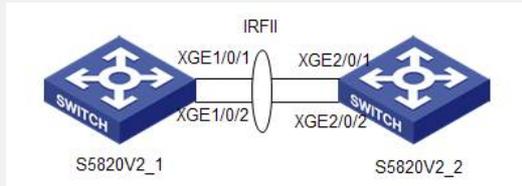


S5820V2_5830V2 IRF2堆叠功能的配置

一、组网需求:

通过两条10G链路将两台S5820V2虚拟化成一台逻辑设备

二、组网图:



三、配置步骤:

1、配置S5820V2_1

选择一组SFP+端口作为IRF物理端口，本文中为Ten-GigabitEthernet1/0/1 ~ Ten-GigabitEthernet1/0/4。关闭该组中所有端口。为便于配置，下文中将使用接口批量配置功能关闭和开启物理端口。

```
system-view
```

```
[H3C] interface range name irf interface ten-gigabitethernet 1/0/1 to ten-gigabitethernet 1/0/4
```

```
[H3C-if-range-irf] shutdown
```

```
[H3C-if-range-irf] quit
```

配置IRF端口1/1，并将它与物理端口Ten-GigabitEthernet1/0/1、Ten-GigabitEthernet1/0/2、Ten-GigabitEthernet1/0/3和Ten-GigabitEthernet1/0/4绑定。

```
[H3C] irf-port 1/1
```

```
[H3C-irf-port1/1] port group interface ten-gigabitethernet 1/0/1
```

```
[H3C-irf-port1/1] port group interface ten-gigabitethernet 1/0/2
```

```
[H3C-irf-port1/1] port group interface ten-gigabitethernet 1/0/3
```

```
[H3C-irf-port1/1] port group interface ten-gigabitethernet 1/0/4
```

```
[H3C-irf-port1/1] quit
```

开启Ten-GigabitEthernet1/0/1 ~ Ten-GigabitEthernet1/0/4端口，并保存配置。

```
[H3C] interface range name irf interface ten-gigabitethernet 1/0/1 to ten-gigabitethernet 1/0/4
```

```
[H3C-if-range-irf] undo shutdown
```

```
[H3C-if-range-irf] quit
```

```
[H3C] save
```

激活IRF端口下的配置。

```
[H3C] irf-port-configuration active
```

2、配置S5820V2_2

将S5820V2_2的成员编号配置为2，并重启设备使新编号生效。

```
system-view
```

```
[H3C] irf member 1 renumber 2
```

```
Renumbering the member ID may result in configuration change or loss. Continue? [Y/N]:y
```

```
[H3C] quit
```

```
reboot
```

选择一组SFP+端口作为IRF物理端口，本文中为Ten-GigabitEthernet2/0/1 ~ Ten-GigabitEthernet2/0/4为例。

重新登录到设备，关闭选定端口组中的所有端口。

```
system-view
```

```
[H3C] interface range name irf interface ten-gigabitethernet 2/0/1 to ten-gigabitethernet 2/0/4
```

```
[H3C-if-range-irf] shutdown
```

```
[H3C-if-range-irf] quit
# 配置IRF端口2/2, 并将它与物理端口Ten-GigabitEthernet2/0/1和Ten-GigabitEthernet2/0/4绑定。
[H3C] irf-port 2/2
[H3C-if-port2/2] port group interface ten-gigabitethernet 2/0/1
[H3C-if-port2/2] port group interface ten-gigabitethernet 2/0/2
[H3C-if-port2/2] port group interface ten-gigabitethernet 2/0/3
[H3C-if-port2/2] port group interface ten-gigabitethernet 2/0/4
[H3C-if-port2/2] quit
# 开启Ten-GigabitEthernet2/0/1 ~ Ten-GigabitEthernet2/0/4端口, 并保存配置。
[H3C] interface range name irf interface ten-gigabitethernet 2/0/1 to ten-gigabitethernet 2/0/4
[H3C-if-range-irf] undo shutdown
[H3C-if-range-irf] quit
[H3C] save
# 激活IRF端口下的配置。
[H3C] irf-port-configuration active
3、S5820V2_1和S5820V2_2间将会进行Master竞选, 竞选失败的一方将重启, 重启完成后, IRF形成。
```

4、配置验证:

```
[H3C]display irf
MemberID  Role  Priority CPU-Mac  Description
*1      Master  1      5866-ba8c-142d ---
+2      Standby 1      5866-ba8c-1496 ---
-----
* indicates the device is the master.
+ indicates the device through which the user logs in.
The Bridge MAC of the IRF is: 5866-ba8c-142c
Auto upgrade      : yes
Mac persistent    : 6 min
Domain ID         : 0
```

```
[H3C]display irf link
```

```
Member 1
IRF Port  Interface          Status
1         Ten-GigabitEthernet1/0/1  UP
          Ten-GigabitEthernet1/0/2  UP
          Ten-GigabitEthernet1/0/3  DOWN
          Ten-GigabitEthernet1/0/4  DOWN
2         disable              --

Member 2
IRF Port  Interface          Status
1         disable              --
2         Ten-GigabitEthernet2/0/1  UP
          Ten-GigabitEthernet2/0/2  UP
          Ten-GigabitEthernet2/0/3  DOWN
          Ten-GigabitEthernet2/0/4  DOWN
```

可见堆叠成功。

四、配置关键点:

1、S5820V2-52QF/S5820V2-54QS-GE交换机上的所有SFP+口/QSFP+口以及S5830V2-24S交换机上的所有SFP+口都可以用于IRF连接。如果选择S5820V2-52QF/S5830V2-24S设备的SFP+口作为IRF物理端口, 需要注意的是:

- 设备上的SFP+口根据端口编号进行分组, 从编号1开始, 按端口编号由小到大的顺序, 每4个SFP+口分为一组。同一组中的所有端口用途必须相同, 即当某一端口与IRF端口绑定后, 该组内其它端口将不能再作为普通业务端口使用, 反之亦然。
- 在将某个SFP+口与IRF端口进行绑定或取消绑定之前, 必须先对该SFP+口所在组内的所有SFP+口执行shutdown操作; 在完成绑定或取消绑定操作后, 再对同组内所有SFP+口执行undo shutdown操作。使用接口批量配置功能可以更快捷的完成以上操作。

2、在将物理口跟堆叠逻辑口绑定前, 必须将一组的四个端口全部shutdown, 否则会报如下错误:

Check Failed For Reason:

Interfaces Ten-GigabitEthernet1/0/1 to Ten-GigabitEthernet1/0/4 belong to a port group, Please shutdown all of them before changing the working mode.

3、堆叠时必须将该组的四个物理口全部跟一个或两个逻辑口绑定，否则会报错：

Bind all interfaces in the same group to one or two IRF ports or cancel the bindings on all of them. Configuration terminated because it failed on Ten-GigabitEthernet1/0/1.

4、S5820V2和S5830V2系列交换机不但可以与本系列内的交换机建立IRF，而且这两个系列的设备之间也能够建立IRF。