实验五：配置 Eth-Trunk 链路聚合（手工负载分担模式）

1 配置图

LSW1的eth-trunk 1活动端口阈值为2

g0/0/1优先级为100

g0/0/1优先级为100

g0/0/2优先级为32768，为备份链路
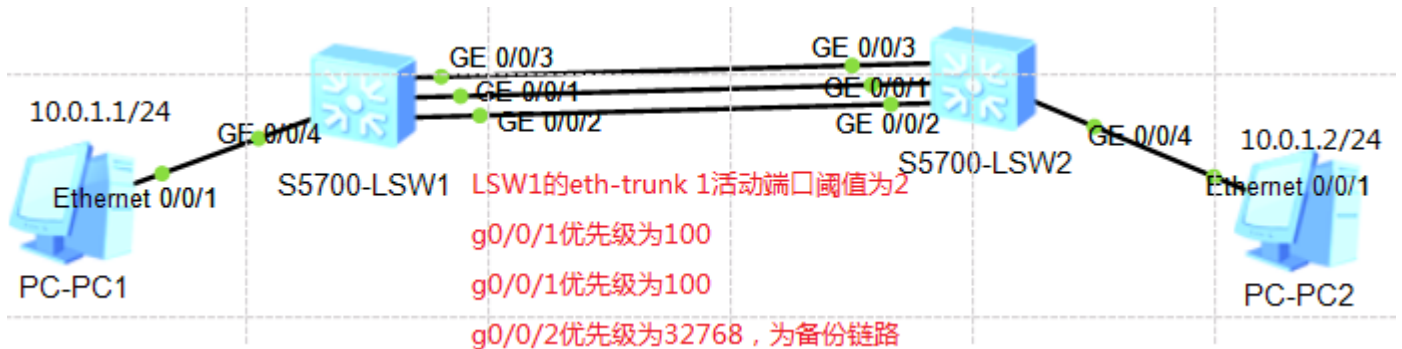
2 配置命令

LSW1 的 eth trunk 1 配置如下：

配置命令如下：

[S1]Eth-Trunk1	创建 Eth-Trunk1 端口
[S1-Eth-Trunk1]mode lacp-static	工作模式设为静态模式
[S1-Eth-Trunk1]interface g0/0/1	进入配置 g0/0/1 端口
[S1-GigabitEthernet0/0/1]eth-trunk 1	g0/0/1 加入 eth trunk 1
[S1-GigabitEthernet0/0/1]interface g0/0/2	进入配置 g0/0/2 端口
[S1-GigabitEthernet0/0/2]eth-trunk 1	g0/0/2 加入 eth trunk 1
[S1- GigabitEthernet0/0/2]interface g0/0/3	进入配置 g0/0/3 端口
[S1-GigabitEthernet0/0/3]eth-trunk 1	g0/0/3 加入 eth trunk 1
[S1]interface Eth-Trunk1	进入配置 eth trunk1 端口
[S1-Eth-Trunk1]max active-linknumber 2	配置活动接口上线阈值为 2
[S1-Eth-Trunk1]interface g0/0/1	进入配置 g0/0/1 端口
[S1-GigabitEthernet0/0/1]lacp priority 100	配置 g0/0/1 的优先级为 100
[S1- GigabitEthernet0/0/1]interface g0/0/2	进入配置 g0/0/2 端口
[S1-GigabitEthernet0/0/2]lacp priority 100	配置 g0/0/2 的优先级为 100

查看 eth trunk 的配置如下：

```
<S1>display eth-trunk
Eth-Trunk1's state information is:
Local:
LAG ID: 1                    WorkingMode: STATIC
Preempt Delay: Disabled      Hash arithmetic: According to SIP-XOR-DIP
System Priority: 100         System ID: 4c1f-cc2a-01d1
Least Active-linknumber: 1   Max Active-linknumber: 2
Operate status: up           Number Of Up Port In Trunk: 2
--------------------------------------------------------------------------
ActorPortName          Status    PortType PortPri PortNo PortKey PortState  Weight
GigabitEthernet0/0/1   Selected  1GE      100     2      305     10111100   1
GigabitEthernet0/0/2   Selected  1GE      100     3      305     10111100   1
GigabitEthernet0/0/3   Unselect  1GE      32768   4      305     10100000   1

Partner:
--------------------------------------------------------------------------
ActorPortName          SysPri    SystemID        PortPri PortNo PortKey PortState
GigabitEthernet0/0/1   32768     4c1f-ccc0-4af8  32768   2      305     10111100
GigabitEthernet0/0/2   32768     4c1f-ccc0-4af8  32768   3      305     10111100
GigabitEthernet0/0/3   32768     4c1f-ccc0-4af8  32768   4      305     10100000
```

LSW2 的 eth trunk 1 配置如下：

配置命令如下：

[S1]Eth-Trunk1	创建 Eth-Trunk1 端口
[S1-Eth-Trunk1]mode lacp-static	工作模式设为静态模式
[S1-Eth-Trunk1]interface g0/0/1	进入配置 g0/0/1 端口
[S1-GigabitEthernet0/0/1]eth-trunk 1	g0/0/1 加入 eth trunk 1
[S1-GigabitEthernet0/0/1]interface g0/0/2	进入配置 g0/0/2 端口
[S1-GigabitEthernet0/0/2]eth-trunk 1	g0/0/2 加入 eth trunk 1
[S1- GigabitEthernet0/0/2]interface g0/0/3	进入配置 g0/0/3 端口
[S1-GigabitEthernet0/0/3]eth-trunk 1	g0/0/3 加入 eth trunk 1

查看 eth trunk 的配置如下：

```
<S2>dis eth-trunk
Eth-Trunk1's state information is:
Local:
LAG ID: 1                    WorkingMode: STATIC
Preempt Delay: Disabled      Hash arithmetic: According to SIP-XOR-DIP
System Priority: 32768       System ID: 4c1f-ccc0-4af8
Least Active-linknumber: 1   Max Active-linknumber: 2
Operate status: up           Number Of Up Port In Trunk: 2
--------------------------------------------------------------------------
ActorPortName          Status    PortType PortPri PortNo PortKey PortState  Weight
GigabitEthernet0/0/1   Selected  1GE      32768   2      305     10111100   1
GigabitEthernet0/0/2   Selected  1GE      32768   3      305     10111100   1
GigabitEthernet0/0/3   Unselect  1GE      32768   4      305     10100000   1

Partner:
--------------------------------------------------------------------------
ActorPortName          SysPri    SystemID        PortPri PortNo PortKey PortState
GigabitEthernet0/0/1   100       4c1f-cc2a-01d1  100     2      305     10111100
GigabitEthernet0/0/2   100       4c1f-cc2a-01d1  100     3      305     10111100
GigabitEthernet0/0/3   100       4c1f-cc2a-01d1  32768   4      305     10100000
```

3 实验现象

当断开 LSW1 的 g0/0/1 端口时，此时备份端口 g0/0/3 将被启用。

```
[S1]interface g0/0/1
[S1-GigabitEthernet0/0/1]shutdown
[S1-GigabitEthernet0/0/1]
Mar 22 2019 16:37:06-08:00 S1 %%01PHY/1/PHY(l)[0]:     GigabitEthernet0/0/1: chan
ge status to down
Mar 22 2019 16:37:07-08:00 S1 %%01PHY/1/PHY(l)[1]:     GigabitEthernet0/0/1: chan
ge status to down
Mar 22 2019 16:37:09-08:00 S1 %%01PHY/1/PHY(l)[2]:     GigabitEthernet0/0/1: chan
ge status to down
[S1-GigabitEthernet0/0/1]
Mar 22 2019 16:37:11-08:00 S1 DS/4/DATASYNC_CFGCHANGE:OID 1.3.6.1.4.1.2011.5.25.
191.3.1 configurations have been changed. The current change number is 1, the ch
ange loop count is 0, and the maximum number of records is 4095.
[S1-GigabitEthernet0/0/1]dis eth-trunk
Eth-Trunk1's state information is:
Local:
LAG ID: 1                     WorkingMode: STATIC
Preempt Delay: Disabled       Hash arithmetic: According to SIP-XOR-DIP
System Priority: 100          System ID: 4c1f-cc2a-01d1
Least Active-linknumber: 1  Max Active-linknumber: 2
Operate status: up            Number Of Up Port In Trunk: 2
--------------------------------------------------------------------------------
ActorPortName            Status    PortType PortPri PortNo PortKey PortState Weight
GigabitEthernet0/0/1     Unselect  1GE      100     2      305     10100010  1
GigabitEthernet0/0/2     Selected  1GE      100     3      305     10111100  1
GigabitEthernet0/0/3     Selected  1GE      32768   4      305     10111100  1

Partner:
--------------------------------------------------------------------------------
ActorPortName            SysPri   SystemID        PortPri PortNo PortKey PortState
GigabitEthernet0/0/1     0        0000-0000-0000  0       0      0       10100011
GigabitEthernet0/0/2     32768    4c1f-ccc0-4af8  32768   3      305     10111100
GigabitEthernet0/0/3     32768    4c1f-ccc0-4af8  32768   4      305     10111100

[S1-GigabitEthernet0/0/1]
```