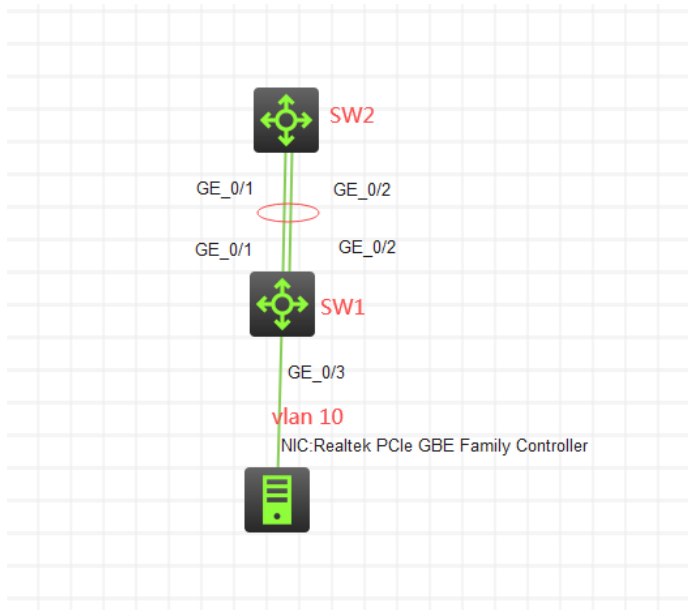


组网及说明



组网说明:

本案例采用H3C HCL模拟器来模拟IPv6 二层链路聚合典型组网配置。SW1为接入设备，SW2为网关所在的核心设备。为了提高链路带宽及确保设备的冗余性，因此在SW1和SW2之间使用两条物理链路，并通过二层链路聚合技术实现捆绑。

配置步骤

- 1、按照网络拓扑图正确划分VLAN
- 2、SW1和SW2之间采用二层链路聚合

配置关键点

SW1:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname SW1
[SW1]vlan 10
[SW1-vlan10]quit
[SW1]int Bridge-Aggregation 1
[SW1-Bridge-Aggregation1]quit
[SW1]int range gi 1/0/1 to gi 1/0/2
[SW1-if-range]port link-aggregation group 1
[SW1-if-range]quit
[SW1]int Bridge-Aggregation 1
[SW1-Bridge-Aggregation1]port link-type trunk
[SW1-Bridge-Aggregation1]undo port trunk permit vlan 1
[SW1-Bridge-Aggregation1]port trunk permit vlan 10
[SW1-Bridge-Aggregation1]quit
[SW1]int gi 1/0/3
[SW1-GigabitEthernet1/0/3]port link-type access
[SW1-GigabitEthernet1/0/3]port access vlan 10
[SW1-GigabitEthernet1/0/3]quit
```

SW2:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname SW2
[SW2]vlan 10
```

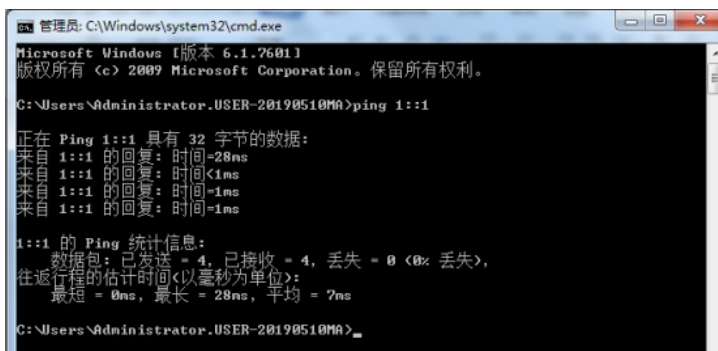
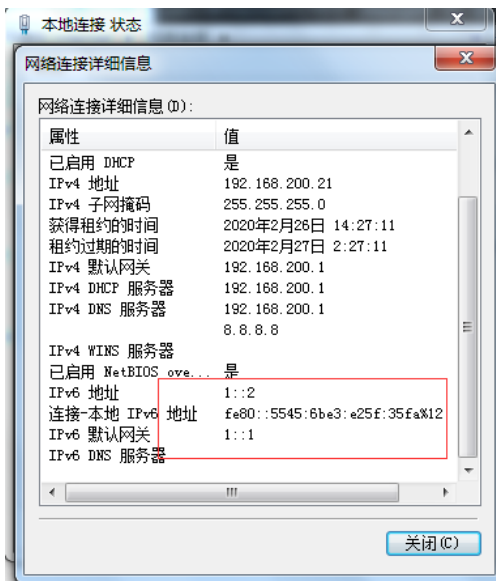
```

[SW2-vlan10]quit
[SW2]int vlan 10
[SW2-Vlan-interface10]ipv6 address 1::1 64
[SW2-Vlan-interface10]quit
[SW2]int Bridge-Aggregation 1
[SW2-Bridge-Aggregation1]quit
[SW2]int range gi 1/0/1 to gi 1/0/2
[SW2-if-range]port link-aggregation group 1
[SW2-if-range]quit
[SW2]int Bridge-Aggregation 1
[SW2-Bridge-Aggregation1]port link-type trunk
[SW2-Bridge-Aggregation1]undo port trunk permit vlan 1
[SW2-Bridge-Aggregation1]port trunk permit vlan 10
[SW2-Bridge-Aggregation1]quit

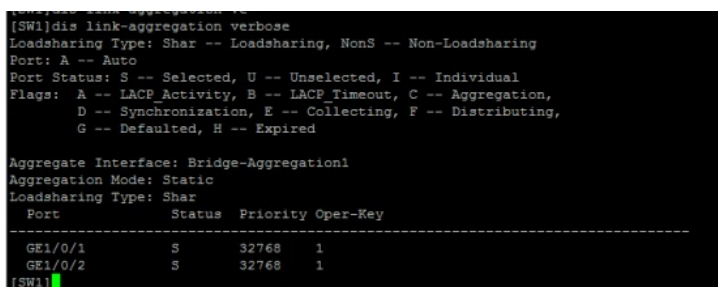
```

测试:

物理机填写IP地址,且可以PING通网关即可:



查看SW1和SW2的链路聚合信息:



```
[SW2]dis link-aggregation verbose
Loadsharing Type: Shar -- Loadsharing, NonS -- Non-Loadsharing
Port: A -- Auto
Port Status: S -- Selected, U -- Unselected, I -- Individual
Flags: A -- LACP Activity, B -- LACP Timeout, C -- Aggregation,
      D -- Synchronization, E -- Collecting, F -- Distributing,
      G -- Defaulted, H -- Expired

Aggregate Interface: Bridge-Aggregation1
Aggregation Mode: Static
Loadsharing Type: Shar
-----
Port          Status  Priority Oper-Key
-----
GE1/0/1       S       32768   1
GE1/0/2       S       32768   1
[SW2]
```

分别查看SW1和SW2的链路聚合后的速率为2G:

```
[SW1]dis int brief
Brief information on interfaces in route mode:
Link: ADM - administratively down; Stby - standby
Protocol: (s) - spoofing
Interface      Link Protocol Primary IP      Description
InLoop0        UP    UP(s)    --
MGE0/0/0       DOWN  DOWN     --
NULL0          UP    UP(s)    --
REG0           UP    --       --

Brief information on interfaces in bridge mode:
Link: ADM - administratively down; Stby - standby
Speed: (a) - auto
Duplex: (a)/A - auto; H - half; F - full
Type: A - access; T - trunk; H - hybrid
Interface      Link Speed      Duplex Type PVID Description
BAGG1          UP    2G(a)      F(a)  T    1
FGE1/0/53     DOWN  40G        A      A    1
FGE1/0/54     DOWN  40G        A      A    1
GE1/0/1       UP    1G(a)      F(a)  T    1
GE1/0/2       UP    1G(a)      F(a)  T    1
GE1/0/3       UP    1G(a)      F(a)  A    10
GE1/0/4       DOWN  auto       A      A    1
GE1/0/5       DOWN  auto       A      A    1
---- More ----
```

```
GE1/0/2       S       32768   1
[SW2]dis int brief
Brief information on interfaces in route mode:
Link: ADM - administratively down; Stby - standby
Protocol: (s) - spoofing
Interface      Link Protocol Primary IP      Description
InLoop0        UP    UP(s)    --
MGE0/0/0       DOWN  DOWN     --
NULL0          UP    UP(s)    --
REG0           UP    --       --
Vlan10         UP    UP       --

Brief information on interfaces in bridge mode:
Link: ADM - administratively down; Stby - standby
Speed: (a) - auto
Duplex: (a)/A - auto; H - half; F - full
Type: A - access; T - trunk; H - hybrid
Interface      Link Speed      Duplex Type PVID Description
BAGG1          UP    2G(a)      F(a)  T    1
FGE1/0/53     DOWN  40G        A      A    1
FGE1/0/54     DOWN  40G        A      A    1
GE1/0/1       UP    1G(a)      F(a)  T    1
GE1/0/2       UP    1G(a)      F(a)  T    1
GE1/0/3       DOWN  auto       A      A    1
GE1/0/4       DOWN  auto       A      A    1
GE1/0/5       DOWN  auto       A      A    1
GE1/0/6       DOWN  auto       A      A    1
GE1/0/7       DOWN  auto       A      A    1
GE1/0/8       DOWN  auto       A      A    1
GE1/0/9       DOWN  auto       A      A    1
```

至此，IPV6之二层链路聚合典型组网配置案例已完成!