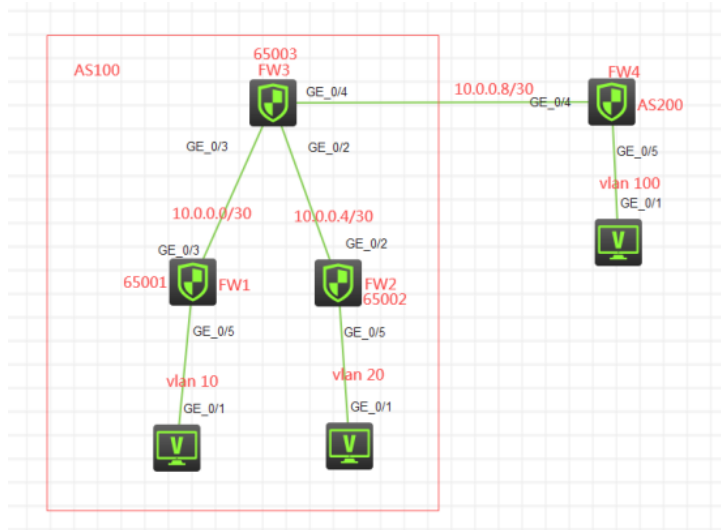


# 知 F1060 BGP联盟典型组网配置案例

设备部署方式 H3C模拟器 韦家宁 2020-04-11 发表

## 组网及说明



### 组网说明:

本案例采用H3C HCL模拟器的F1060来模拟 BGP联盟的典型组网配置。在网络拓扑图中FW1、FW2没有直连到FW4，同时又属于不同的AS，为了实现FW1、FW2能与FW4互通，因此使用BGP联盟来达到互通的效果。

### BGP联盟规划:

设备名称	AS号	联盟ID	备注
FW1	65001	100	
FW2	65002	100	
FW3	65003	100	
FW4	200		非联盟设备

### IP地址规划:

设备名称	VLAN/接口	IP地址	子网掩码/地址前缀	备注
FW1	Loopback 0	1.1.1.1	32	Router-id
	VLAN 10	192.168.10.1	24	模拟业务
	Gi 1/0/1	10.0.0.1	30	
FW2	Loopback 0	2.2.2.2	32	Router-id
	VLAN 20	192.168.20.1	24	模拟业务
	Gi 1/0/3	10.0.0.5	30	
FW3	Loopback 0	3.3.3.3	32	Router-id
	Gi 1/0/1	10.0.0.2	30	
	Gi 1/0/3	10.0.0.6	30	
FW4	Loopback 0	4.4.4.4	32	Router-id
	VLAN 100	172.16.100.1	24	模拟业务
	Gi 1/0/2	10.0.0.10	30	

## 配置步骤

### FW1:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname FW1
[FW1]acl basic 2000
[FW1-acl-ipv4-basic-2000]rule 0 permit source any
[FW1-acl-ipv4-basic-2000]quit
[FW1]zone-pair security source trust destination untrust
[FW1-zone-pair-security-Trust-Untrust]packet-filter 2000
[FW1-zone-pair-security-Trust-Untrust]quit
[FW1]zone-pair security source untrust destination trust
[FW1-zone-pair-security-Untrust-Trust]packet-filter 2000
```

```

[FW1-zone-pair-security-Untrust-Trust]quit
[FW1]zone-pair security source trust destination local
[FW1-zone-pair-security-Trust-Local]packet-filter 2000
[FW1-zone-pair-security-Trust-Local]quit
[FW1]zone-pair security source local destination trust
[FW1-zone-pair-security-Local-Trust]packet-filter 2000
[FW1-zone-pair-security-Local-Trust]quit
[FW1]zone-pair security source untrust destination local
[FW1-zone-pair-security-Untrust-Local]packet-filter 2000
[FW1-zone-pair-security-Untrust-Local]quit
[FW1]zone-pair security source local destination untrust
[FW1-zone-pair-security-Local-Untrust]packet-filter 2000
[FW1-zone-pair-security-Local-Untrust]quit
[FW1]zone-pair security source trust destination trust
[FW1-zone-pair-security-Trust-Trust]packet-filter 2000
[FW1-zone-pair-security-Trust-Trust]quit
[FW1]zone-pair security source untrust destination untrust
[FW1-zone-pair-security-Untrust-Untrust]packet-filter 2000
[FW1-zone-pair-security-Untrust-Untrust]quit
[FW1]int loopback 0
[FW1-LoopBack0]ip address 1.1.1.1 32
[FW1-LoopBack0]quit
[FW1]vlan 10
[FW1-vlan10]quit
[FW1]int vlan 10
[FW1-Vlan-interface10]ip address 192.168.10.1 24
[FW1-Vlan-interface10]quit
[FW1]int gi 1/0/5
[FW1-GigabitEthernet1/0/5]port link-mode bridge
[FW1-GigabitEthernet1/0/5]port link-type access
[FW1-GigabitEthernet1/0/5]port access vlan 10
[FW1-GigabitEthernet1/0/5]quit
[FW1]int gi 1/0/3
[FW1-GigabitEthernet1/0/3]port link-mode route
[FW1-GigabitEthernet1/0/3]des <connect to FW3>
[FW1-GigabitEthernet1/0/3]ip address 10.0.0.1 30
[FW1-GigabitEthernet1/0/3]quit
[FW1]bgp 65001
[FW1-bgp-default]router-id 1.1.1.1
[FW1-bgp-default]confederation id 100 //指定联盟ID
[FW1-bgp-default]confederation peer-as 65002 65003 //指定联盟成员
[FW1-bgp-default]peer 10.0.0.2 as-number 65003
[FW1-bgp-default]address-family ipv4 unicast
[FW1-bgp-default-ipv4]peer 10.0.0.2 enable
[FW1-bgp-default-ipv4]network 192.168.10.0 255.255.255.0
[FW1-bgp-default-ipv4]quit
[FW1-bgp-default]quit
[FW1]security-zone name Untrust
[FW1-security-zone-Untrust]import interface GigabitEthernet 1/0/3
[FW1-security-zone-Untrust]quit
[FW1]security-zone name Trust
[FW1-security-zone-Trust]import interface vlan 10
[FW1-security-zone-Trust]import interface LoopBack 0
[FW1-security-zone-Trust]import interface GigabitEthernet 1/0/5 vlan 10
[FW1-security-zone-Trust]quit
[FW1]

```

FW2:

```

<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname FW2
[FW2]acl basic 2000
[FW2-acl-ipv4-basic-2000]rule 0 permit source any
[FW2-acl-ipv4-basic-2000]quit

```

```
[FW2]zone-pair security source trust destination untrust
[FW2-zone-pair-security-Trust-Untrust]packet-filter 2000
[FW2-zone-pair-security-Trust-Untrust]quit
[FW2]zone-pair security source untrust destination trust
[FW2-zone-pair-security-Untrust-Trust]packet-filter 2000
[FW2-zone-pair-security-Untrust-Trust]quit
[FW2]zone-pair security source trust destination local
[FW2-zone-pair-security-Trust-Local]packet-filter 2000
[FW2-zone-pair-security-Trust-Local]quit
[FW2]zone-pair security source local destination trust
[FW2-zone-pair-security-Local-Trust]packet-filter 2000
[FW2-zone-pair-security-Local-Trust]quit
[FW2]zone-pair security source untrust destination local
[FW2-zone-pair-security-Untrust-Local]packet-filter 2000
[FW2-zone-pair-security-Untrust-Local]quit
[FW2]zone-pair security source local destination untrust
[FW2-zone-pair-security-Local-Untrust]packet-filter 2000
[FW2-zone-pair-security-Local-Untrust]quit
[FW2]zone-pair security source trust destination trust
[FW2-zone-pair-security-Trust-Trust]packet-filter 2000
[FW2-zone-pair-security-Trust-Trust]quit
[FW2]zone-pair security source untrust destination untrust
[FW2-zone-pair-security-Untrust-Untrust]packet-filter 2000
[FW2-zone-pair-security-Untrust-Untrust]quit
[FW2]int loopback 0
[FW2-LoopBack0]ip address 2.2.2.2 32
[FW2-LoopBack0]quit
[FW2]vlan 20
[FW2-vlan20]quit
[FW2]int vlan 20
[FW2-Vlan-interface20]ip address 192.168.20.1 24
[FW2-Vlan-interface20]quit
[FW2]int gi 1/0/5
[FW2-GigabitEthernet1/0/5]port link-mode bridge
[FW2-GigabitEthernet1/0/5]port link-type access
[FW2-GigabitEthernet1/0/5]port access vlan 20
[FW2-GigabitEthernet1/0/5]quit
[FW2]int gi 1/0/2
[FW2-GigabitEthernet1/0/2]port link-mode route
[FW2-GigabitEthernet1/0/2]des <connect to FW3>
[FW2-GigabitEthernet1/0/2]ip address 10.0.0.5 30
[FW2-GigabitEthernet1/0/2]quit
[FW2]bgp 65002
[FW2-bgp-default]router-id 2.2.2.2
[FW2-bgp-default]confederation id 100
[FW2-bgp-default]confederation peer-as 65001 65003
[FW2-bgp-default]peer 10.0.0.6 as-number 65003
[FW2-bgp-default]address-family ipv4 unicast
[FW2-bgp-default-ipv4]peer 10.0.0.6 enable
[FW2-bgp-default-ipv4]network 192.168.20.0 255.255.255.0
[FW2-bgp-default-ipv4]quit
[FW2-bgp-default]quit
[FW2]security-zone name Untrust
[FW2-security-zone-Untrust]import interface GigabitEthernet 1/0/2
[FW2-security-zone-Untrust]quit
[FW2]security-zone name Trust
[FW2-security-zone-Trust]import interface vlan 20
[FW2-security-zone-Trust]import interface LoopBack 0
[FW2-security-zone-Trust]import interface GigabitEthernet 1/0/5 vlan 20
[FW2-security-zone-Trust]quit
[FW2]
```

FW3:

<H3C>sys

```
System View: return to User View with Ctrl+Z.
[H3C]sysname FW3
[FW3]acl basic 2000
[FW3-acl-ipv4-basic-2000]rule 0 permit source any
[FW3-acl-ipv4-basic-2000]quit
[FW3]zone-pair security source trust destination untrust
[FW3-zone-pair-security-Trust-Untrust]packet-filter 2000
[FW3-zone-pair-security-Trust-Untrust]quit
[FW3]zone-pair security source untrust destination trust
[FW3-zone-pair-security-Untrust-Trust]packet-filter 2000
[FW3-zone-pair-security-Untrust-Trust]quit
[FW3]zone-pair security source trust destination local
[FW3-zone-pair-security-Trust-Local]packet-filter 2000
[FW3-zone-pair-security-Trust-Local]quit
[FW3]zone-pair security source local destination trust
[FW3-zone-pair-security-Local-Trust]packet-filter 2000
[FW3-zone-pair-security-Local-Trust]quit
[FW3]zone-pair security source untrust destination local
[FW3-zone-pair-security-Untrust-Local]packet-filter 2000
[FW3-zone-pair-security-Untrust-Local]quit
[FW3]zone-pair security source local destination untrust
[FW3-zone-pair-security-Local-Untrust]packet-filter 2000
[FW3-zone-pair-security-Local-Untrust]quit
[FW3]zone-pair security source trust destination trust
[FW3-zone-pair-security-Trust-Trust]packet-filter 2000
[FW3-zone-pair-security-Trust-Trust]quit
[FW3]zone-pair security source untrust destination untrust
[FW3-zone-pair-security-Untrust-Untrust]packet-filter 2000
[FW3-zone-pair-security-Untrust-Untrust]quit
[FW3]int loopback 0
[FW3-LoopBack0]ip address 3.3.3.3 32
[FW3-LoopBack0]quit
[FW3]int gi 1/0/3
[FW3-GigabitEthernet1/0/3]port link-mode route
[FW3-GigabitEthernet1/0/3]des <connect to FW1>
[FW3-GigabitEthernet1/0/3]ip address 10.0.0.2 30
[FW3-GigabitEthernet1/0/3]quit
[FW3]int gi 1/0/2
[FW3-GigabitEthernet1/0/2]port link-mode route
[FW3-GigabitEthernet1/0/2]des <connect to FW2>
[FW3-GigabitEthernet1/0/2]ip address 10.0.0.6 30
[FW3-GigabitEthernet1/0/2]quit
[FW3]int gi 1/0/4
[FW3-GigabitEthernet1/0/4]port link-mode route
[FW3-GigabitEthernet1/0/4]des <connect to FW4>
[FW3-GigabitEthernet1/0/4]ip address 10.0.0.9 30
[FW3-GigabitEthernet1/0/4]quit
[FW3]bgp 65003
[FW3-bgp-default]router-id 3.3.3.3
[FW3-bgp-default]confederation id 100
[FW3-bgp-default]confederation peer-as 65001 65002
[FW3-bgp-default]peer 10.0.0.1 as-number 65001
[FW3-bgp-default]peer 10.0.0.5 as-number 65002
[FW3-bgp-default]peer 10.0.0.10 as-number 200
[FW3-bgp-default]address-family ipv4 unicast
[FW3-bgp-default-ipv4]peer 10.0.0.1 enable
[FW3-bgp-default-ipv4]peer 10.0.0.5 enable
[FW3-bgp-default-ipv4]peer 10.0.0.10 enable
[FW3-bgp-default-ipv4]import-route direct
[FW3-bgp-default-ipv4]quit
[FW3-bgp-default]quit
[FW3]security-zone name Untrust
[FW3-security-zone-Untrust]import interface GigabitEthernet 1/0/4
[FW3-security-zone-Untrust]quit
```

```
[FW3]security-zone name Trust
[FW3-security-zone-Trust]import interface GigabitEthernet 1/0/2
[FW3-security-zone-Trust]import interface GigabitEthernet 1/0/3
[FW3-security-zone-Trust]import interface LoopBack 0
[FW3-security-zone-Trust]quit
[FW3]
```

FW4:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname FW4
[FW4]acl basic 2000
[FW4-acl-ipv4-basic-2000]rule 0 permit source any
[FW4-acl-ipv4-basic-2000]quit
[FW4]zone-pair security source trust destination untrust
[FW4-zone-pair-security-Trust-Untrust]packet-filter 2000
[FW4-zone-pair-security-Trust-Untrust]quit
[FW4]zone-pair security source untrust destination trust
[FW4-zone-pair-security-Untrust-Trust]packet-filter 2000
[FW4-zone-pair-security-Untrust-Trust]quit
[FW4]zone-pair security source trust destination local
[FW4-zone-pair-security-Trust-Local]packet-filter 2000
[FW4-zone-pair-security-Trust-Local]quit
[FW4]zone-pair security source local destination trust
[FW4-zone-pair-security-Local-Trust]packet-filter 2000
[FW4-zone-pair-security-Local-Trust]quit
[FW4]zone-pair security source untrust destination local
[FW4-zone-pair-security-Untrust-Local]packet-filter 2000
[FW4-zone-pair-security-Untrust-Local]quit
[FW4]zone-pair security source local destination untrust
[FW4-zone-pair-security-Local-Untrust]packet-filter 2000
[FW4-zone-pair-security-Local-Untrust]quit
[FW4]zone-pair security source trust destination trust
[FW4-zone-pair-security-Trust-Trust]packet-filter 2000
[FW4-zone-pair-security-Trust-Trust]quit
[FW4]zone-pair security source untrust destination untrust
[FW4-zone-pair-security-Untrust-Untrust]packet-filter 2000
[FW4-zone-pair-security-Untrust-Untrust]quit
[FW4]int loopback 0
[FW4-LoopBack0]ip address 4.4.4.4 32
[FW4-LoopBack0]quit
[FW4]vlan 100
[FW4-vlan100]quit
[FW4]int vlan 100
[FW4-Vlan-interface100]ip address 172.16.100.1 24
[FW4-Vlan-interface100]quit
[FW4]int gi 1/0/5
[FW4-GigabitEthernet1/0/5]port link-mode bridge
[FW4-GigabitEthernet1/0/5]port link-type access
[FW4-GigabitEthernet1/0/5]port access vlan 100
[FW4-GigabitEthernet1/0/5]quit
[FW4]int gi 1/0/4
[FW4-GigabitEthernet1/0/4]port link-mode route
[FW4-GigabitEthernet1/0/4]des <connect to FW3>
[FW4-GigabitEthernet1/0/4]ip address 10.0.0.10 30
[FW4-GigabitEthernet1/0/4]quit
[FW4]bgp 200
[FW4-bgp-default]router-id 4.4.4.4
[FW4-bgp-default]peer 10.0.0.9 as-number 100
[FW4-bgp-default]address-family ipv4 unicast
[FW4-bgp-default-ipv4]peer 10.0.0.9 en
[FW4-bgp-default-ipv4]peer 10.0.0.9 enable
[FW4-bgp-default-ipv4]network 172.16.100.0 255.255.255.0
```

```
[FW4-bgp-default-ipv4]quit
[FW4-bgp-default]quit
[FW4]security-zone name Untrust
[FW4-security-zone-Untrust]import interface GigabitEthernet 1/0/4
[FW4-security-zone-Untrust]quit
[FW4]security-zone name Trust
[FW4-security-zone-Trust]import interface vlan 100
[FW4-security-zone-Trust]import interface LoopBack 0
[FW4-security-zone-Trust]import interface GigabitEthernet 1/0/5 vlan 100
[FW4-security-zone-Trust]quit
[FW4]
```

测试:

所有PC都填写IP地址:



配置PC\_5

接口	状态	IPv4地址	IPv6地址
G0/0/1	UP	192.168.10.2/24	

刷新

接口管理  
 禁用  启用

IPv4配置:  
 DHCP  
 静态

IPv4地址:

掩码地址:

IPv4网关:

启用



配置PC\_6

接口	状态	IPv4地址	IPv6地址
G0/0/1	UP	192.168.20.2/24	

刷新

接口管理  
 禁用  启用

IPv4配置:  
 DHCP  
 静态

IPv4地址:

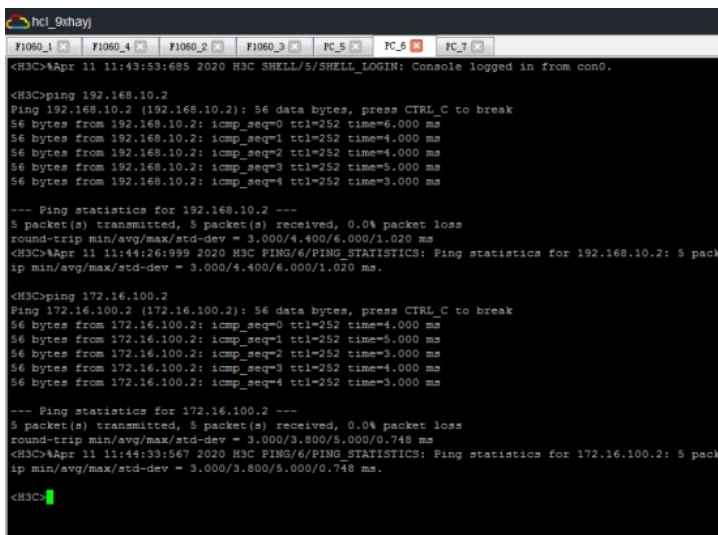
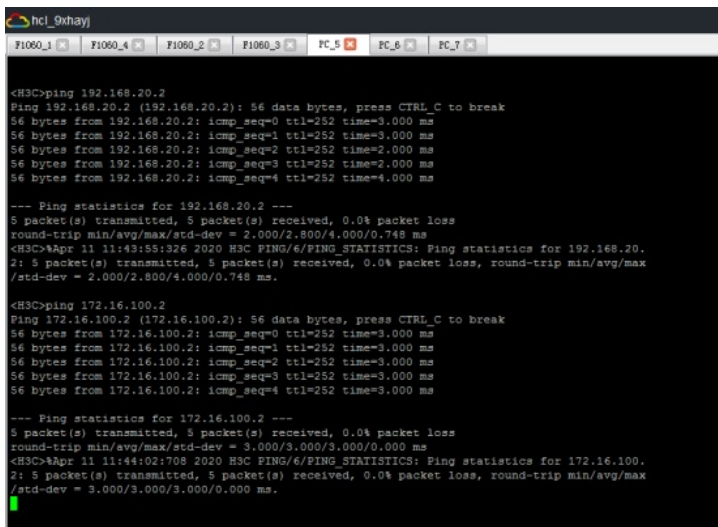
掩码地址:

IPv4网关:

启用



所有PC都能相互PING通:



```

hcl_9xhay
F1060_1 F1060_4 F1060_2 F1060_3 PC_5 PC_6 PC_7
<H3C>Apr 11 11:43:50:443 2020 H3C SHELL/5/SHELL_LOGIN: Console logged in from con0.

<H3C>ping 192.168.10.2
Ping 192.168.10.2 (192.168.10.2): 56 data bytes, press CTRL_C to break
56 bytes from 192.168.10.2: icmp_seq=0 ttl=252 time=5.000 ms
56 bytes from 192.168.10.2: icmp_seq=1 ttl=252 time=3.000 ms
56 bytes from 192.168.10.2: icmp_seq=2 ttl=252 time=3.000 ms
56 bytes from 192.168.10.2: icmp_seq=3 ttl=252 time=3.000 ms
56 bytes from 192.168.10.2: icmp_seq=4 ttl=252 time=4.000 ms

--- Ping statistics for 192.168.10.2 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 3.000/3.600/5.000/0.800 ms
<H3C>Apr 11 11:44:43:924 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 192.168.10.2: 5 pack
ip min/avg/max/std-dev = 3.000/3.600/5.000/0.800 ms.

<H3C>ping 192.168.20.2
Ping 192.168.20.2 (192.168.20.2): 56 data bytes, press CTRL_C to break
56 bytes from 192.168.20.2: icmp_seq=0 ttl=252 time=5.000 ms
56 bytes from 192.168.20.2: icmp_seq=1 ttl=252 time=3.000 ms
56 bytes from 192.168.20.2: icmp_seq=2 ttl=252 time=3.000 ms
56 bytes from 192.168.20.2: icmp_seq=3 ttl=252 time=2.000 ms
56 bytes from 192.168.20.2: icmp_seq=4 ttl=252 time=3.000 ms

--- Ping statistics for 192.168.20.2 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 2.000/3.200/5.000/0.980 ms
<H3C>Apr 11 11:44:47:055 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 192.168.20.2: 5 pack
ip min/avg/max/std-dev = 2.000/3.200/5.000/0.980 ms.

<H3C>

```

分别查看FW1、FW2、FW3、FW4的BGP邻居信息:

```

<FW1>dis bgp peer ipv4

BGP local router ID: 1.1.1.1
Local AS number: 65001
Total number of peers: 1          Peers in established state: 1

* - Dynamically created peer
Peer          AS  MsgRcvd  MsgSent  OutQ  PrefRcv  Up/Down  State
-----
10.0.0.2      65003  24       16       0     6 00:11:00 Established
<FW1>

```

```

<FW2>dis bgp peer ipv4

BGP local router ID: 2.2.2.2
Local AS number: 65002
Total number of peers: 1          Peers in established state: 1

* - Dynamically created peer
Peer          AS  MsgRcvd  MsgSent  OutQ  PrefRcv  Up/Down  State
-----
10.0.0.6      65003  25       20       0     6 00:12:25 Established
<FW2>

```

```

<FW3>dis bgp peer ipv4

BGP local router ID: 3.3.3.3
Local AS number: 65003
Total number of peers: 3          Peers in established state: 3

* - Dynamically created peer
Peer          AS  MsgRcvd  MsgSent  OutQ  PrefRcv  Up/Down  State
-----
10.0.0.1      65001  17       25       0     1 00:12:39 Established
10.0.0.5      65002  20       26       0     1 00:12:39 Established
10.0.0.10     200    11       17       0     1 00:06:48 Established
<FW3>

```

```

[FW4]dis bgp peer ipv4

BGP local router ID: 4.4.4.4
Local AS number: 200
Total number of peers: 1          Peers in established state: 1

* - Dynamically created peer
Peer          AS  MsgRcvd  MsgSent  OutQ  PrefRcv  Up/Down  State
-----
10.0.0.9      100    17       11       0     6 00:06:56 Established
[FW4]

```

分别查看FW1、FW2、FW3、FW4的路由表:



```

<FW1>dis ip routing-table
Destinations : 22          Routes : 22

Destination/Mask    Proto  Pre Cost    NextHop          Interface
0.0.0.0/32          Direct 0 0           127.0.0.1        InLoop0
1.1.1.1/32          Direct 0 0           127.0.0.1        InLoop0
3.3.3.3/32          BGP    255 0          10.0.0.2          GE1/0/3
10.0.0.0/30         Direct 0 0           10.0.0.1          GE1/0/3
10.0.0.0/32         Direct 0 0           10.0.0.1          GE1/0/3
10.0.0.1/32         Direct 0 0           127.0.0.1        InLoop0
10.0.0.3/32         Direct 0 0           10.0.0.1          GE1/0/3
10.0.0.4/30         BGP    255 0          10.0.0.2          GE1/0/3
10.0.0.8/30         BGP    255 0          10.0.0.2          GE1/0/3
127.0.0.0/8         Direct 0 0           127.0.0.1        InLoop0
127.0.0.0/32        Direct 0 0           127.0.0.1        InLoop0
127.0.0.1/32        Direct 0 0           127.0.0.1        InLoop0
127.255.255.255/32 Direct 0 0           127.0.0.1        InLoop0
172.16.100.0/24     BGP    255 0          10.0.0.10         GE1/0/3
192.168.10.0/24     Direct 0 0           192.168.10.1     Vlan10
192.168.10.0/32     Direct 0 0           192.168.10.1     Vlan10
192.168.10.1/32     Direct 0 0           127.0.0.1        InLoop0
192.168.10.1/255/32 Direct 0 0           192.168.10.1     Vlan10
192.168.20.0/24     BGP    255 0          10.0.0.5           GE1/0/3
224.0.0.0/4         Direct 0 0           0.0.0.0           NULL0
224.0.0.0/24        Direct 0 0           0.0.0.0           NULL0
255.255.255.255/32 Direct 0 0           127.0.0.1        InLoop0
<FW1>

```

```

<FW2>dis ip routing-table
Destinations : 22          Routes : 22

Destination/Mask    Proto  Pre Cost    NextHop          Interface
0.0.0.0/32          Direct 0 0           127.0.0.1        InLoop0
2.2.2.2/32          Direct 0 0           127.0.0.1        InLoop0
3.3.3.3/32          BGP    255 0          10.0.0.6          GE1/0/2
10.0.0.0/30         BGP    255 0          10.0.0.6          GE1/0/2
10.0.0.4/30         Direct 0 0           10.0.0.5          GE1/0/2
10.0.0.4/32         Direct 0 0           10.0.0.5          GE1/0/2
10.0.0.5/32         Direct 0 0           127.0.0.1        InLoop0
10.0.0.7/32         Direct 0 0           10.0.0.5          GE1/0/2
10.0.0.8/30         BGP    255 0          10.0.0.6          GE1/0/2
127.0.0.0/8         Direct 0 0           127.0.0.1        InLoop0
127.0.0.0/32        Direct 0 0           127.0.0.1        InLoop0
127.0.0.1/32        Direct 0 0           127.0.0.1        InLoop0
127.255.255.255/32 Direct 0 0           127.0.0.1        InLoop0
172.16.100.0/24     BGP    255 0          10.0.0.10         GE1/0/2
192.168.10.0/24     BGP    255 0          10.0.0.1          GE1/0/2
192.168.20.0/24     Direct 0 0           192.168.20.1     Vlan20
192.168.20.0/32     Direct 0 0           192.168.20.1     Vlan20
192.168.20.1/32     Direct 0 0           127.0.0.1        InLoop0
192.168.20.1/255/32 Direct 0 0           192.168.20.1     Vlan20
224.0.0.0/4         Direct 0 0           0.0.0.0           NULL0
224.0.0.0/24        Direct 0 0           0.0.0.0           NULL0
255.255.255.255/32 Direct 0 0           127.0.0.1        InLoop0
<FW2>

```

```

<FW3>dis ip routing-table
Destinations : 24          Routes : 24

Destination/Mask    Proto  Pre Cost    NextHop          Interface
0.0.0.0/32          Direct 0 0           127.0.0.1        InLoop0
3.3.3.3/32          Direct 0 0           127.0.0.1        InLoop0
10.0.0.0/30         Direct 0 0           10.0.0.2          GE1/0/3
10.0.0.0/32         Direct 0 0           10.0.0.2          GE1/0/3
10.0.0.2/32         Direct 0 0           127.0.0.1        InLoop0
10.0.0.3/32         Direct 0 0           10.0.0.2          GE1/0/3
10.0.0.4/30         Direct 0 0           10.0.0.6          GE1/0/2
10.0.0.4/32         Direct 0 0           10.0.0.6          GE1/0/2
10.0.0.6/32         Direct 0 0           127.0.0.1        InLoop0
10.0.0.7/32         Direct 0 0           10.0.0.6          GE1/0/2
10.0.0.8/30         Direct 0 0           10.0.0.9          GE1/0/4
10.0.0.8/32         Direct 0 0           10.0.0.9          GE1/0/4
10.0.0.9/32         Direct 0 0           127.0.0.1        InLoop0
10.0.0.11/32        Direct 0 0           10.0.0.9          GE1/0/4
127.0.0.0/8         Direct 0 0           127.0.0.1        InLoop0
127.0.0.0/32        Direct 0 0           127.0.0.1        InLoop0
127.0.0.1/32        Direct 0 0           127.0.0.1        InLoop0
127.255.255.255/32 Direct 0 0           127.0.0.1        InLoop0
172.16.100.0/24     BGP    255 0          10.0.0.10         GE1/0/4
192.168.10.0/24     BGP    255 0          10.0.0.1          GE1/0/3
192.168.20.0/24     BGP    255 0          10.0.0.5           GE1/0/2
224.0.0.0/4         Direct 0 0           0.0.0.0           NULL0
224.0.0.0/24        Direct 0 0           0.0.0.0           NULL0
255.255.255.255/32 Direct 0 0           127.0.0.1        InLoop0
<FW3>

```

```
[FW4]dis ip routing-table
Destinations : 22          Routes : 22

Destination/Mask    Proto  Pre Cost           NextHop             Interface
0.0.0.0/32          Direct  0  0                127.0.0.1           InLoop0
3.3.3.3/32          BGP    255 0                10.0.0.9            GE1/0/4
4.4.4.4/32          Direct  0  0                127.0.0.1           InLoop0
10.0.0.0/30         BGP    255 0                10.0.0.9            GE1/0/4
10.0.0.4/30         BGP    255 0                10.0.0.9            GE1/0/4
10.0.0.8/30         Direct  0  0                10.0.0.10          GE1/0/4
10.0.0.8/32         Direct  0  0                10.0.0.10          GE1/0/4
10.0.0.10/32        Direct  0  0                127.0.0.1           InLoop0
10.0.0.11/32        Direct  0  0                10.0.0.10          GE1/0/4
127.0.0.0/8         Direct  0  0                127.0.0.1           InLoop0
127.0.0.0/32        Direct  0  0                127.0.0.1           InLoop0
127.0.0.1/32        Direct  0  0                127.0.0.1           InLoop0
127.255.255.255/32 Direct  0  0                127.0.0.1           InLoop0
172.16.100.0/24     Direct  0  0                172.16.100.1       Vlan100
172.16.100.0/32     Direct  0  0                172.16.100.1       Vlan100
172.16.100.1/32     Direct  0  0                127.0.0.1           InLoop0
172.16.100.255/32   Direct  0  0                172.16.100.1       Vlan100
192.168.10.0/24     BGP    255 0                10.0.0.9            GE1/0/4
192.168.20.0/24     BGP    255 0                10.0.0.9            GE1/0/4
224.0.0.0/4         Direct  0  0                0.0.0.0            NULL0
224.0.0.0/24        Direct  0  0                0.0.0.0            NULL0
255.255.255.255/32 Direct  0  0                127.0.0.1           InLoop0
[FW4]
```

至此，F1060 BGP联盟典型组网配置案例已完成！

#### 配置关键点

- 1、非联盟设备指向联盟边界设备建立EBGP邻居关系时，指向联盟ID即可，不用指向联盟边界设备的BGP进程号。
- 2、联盟内部的邻居建立均是EBGP邻居关系。