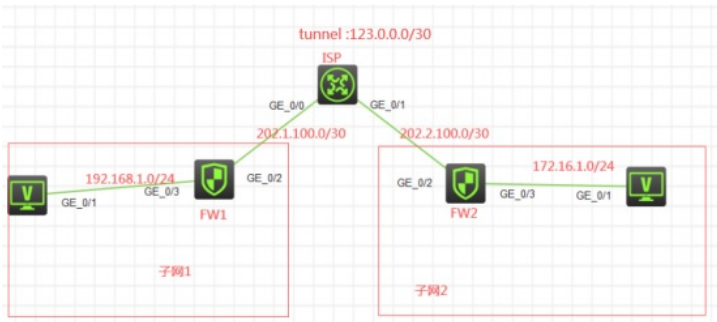


# 知 F1060 ipv4 over ipv4隧道典型组网配置案例

GRE VPN H3C模拟器 韦家宁 2020-02-28 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IPV4 OVER IPV4的典型组网。为了避免子网1和子网2的IPV4地址在公网暴露，因此在FW1与FW2之间通过IPV4 OVER IPV4的方式建立隧道，实现子网1与子网2的互通。

## 配置步骤

- 1、按照网络拓扑图正确配置IP地址
- 2、FW1与FW2建立ipv4 over ipv4隧道

## 配置关键点

### 第一阶段调试（基础网络配置）：

ISP:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname ISP
[ISP]int gi 0/0
[ISP-GigabitEthernet0/0]des <connect to FW1>
[ISP-GigabitEthernet0/0]ip address 202.1.100.1 30
[ISP-GigabitEthernet0/0]quit
[ISP]int gi 0/1
[ISP-GigabitEthernet0/1]des <connect to FW2>
[ISP-GigabitEthernet0/1]ip address 202.2.100.1 30
[ISP-GigabitEthernet0/1]quit
[ISP]ip route-static 202.1.100.0 255.255.255.252 202.1.100.2
[ISP]ip route-static 202.2.100.0 255.255.255.252 202.2.100.2
```

FW1:

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]sysname FW1
[FW1]int gi 1/0/3
[FW1-GigabitEthernet1/0/3]ip address 192.168.1.1 24
[FW1-GigabitEthernet1/0/3]quit
[FW1]int gi 1/0/2
[FW1-GigabitEthernet1/0/2]des <connect to ISP>
[FW1-GigabitEthernet1/0/2]ip address 202.1.100.2 30
[FW1-GigabitEthernet1/0/2]quit
[FW1]ip route-static 0.0.0.0 0.0.0.0 202.1.100.1
[FW1]security-zone name Trust
[FW1-security-zone-Trust]import interface GigabitEthernet 1/0/3
[FW1-security-zone-Trust]quit
[FW1]security-zone name Untrust
[FW1-security-zone-Untrust]import interface GigabitEthernet 1/0/2
[FW1-security-zone-Untrust]quit
[FW1]acl basic 2001
```

```
[FW1-acl-ipv4-basic-2001]rule 0 permit source any
[FW1-acl-ipv4-basic-2001]quit
[FW1]
[FW1]zone-pair security source trust destination untrust
[FW1-zone-pair-security-Trust-Untrust]packet-filter 2001
[FW1-zone-pair-security-Trust-Untrust]quit
[FW1]
[FW1]zone-pair security source untrust destination trust
[FW1-zone-pair-security-Untrust-Trust]packet-filter 2001
[FW1-zone-pair-security-Untrust-Trust]quit
[FW1]
[FW1]zone-pair security source trust destination local
[FW1-zone-pair-security-Trust-Local]packet-filter 2001
[FW1-zone-pair-security-Trust-Local]quit
[FW1]
[FW1]zone-pair security source local destination trust
[FW1-zone-pair-security-Local-Trust]packet-filter 2001
[FW1-zone-pair-security-Local-Trust]quit
[FW1]
[FW1]zone-pair security source untrust destination local
[FW1-zone-pair-security-Untrust-Local]packet-filter 2001
[FW1-zone-pair-security-Untrust-Local]quit
[FW1]
[FW1]zone-pair security source local destination untrust
[FW1-zone-pair-security-Local-Untrust]packet-filter 2001
[FW1-zone-pair-security-Local-Untrust]quit
```

FW2:

```
<H3C>sys
```

```
System View: return to User View with Ctrl+Z.
```

```
[H3C]sysname FW2
```

```
[FW2]int gi 1/0/3
```

```
[FW2-GigabitEthernet1/0/3]ip address 172.16.1.1 24
```

```
[FW2-GigabitEthernet1/0/3]quit
```

```
[FW2-GigabitEthernet1/0/2]des <connect to ISP>
```

```
[FW2-GigabitEthernet1/0/2]ip address 202.2.100.2 30
```

```
[FW2-GigabitEthernet1/0/2]quit
```

```
[FW2]ip route-static 0.0.0.0 0.0.0.0 202.2.100.1
```

```
[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 GigabitEthernet 1/0/3
```

```
[FW2-security-zone-Trust]quit
```

```
[FW2]acl basic 2001
```

```
[FW2-acl-ipv4-basic-2001]rule 0 permit source any
```

```
[FW2-acl-ipv4-basic-2001]quit
```

```
[FW2]
```

```
[FW2]zone-pair security source trust destination untrust
```

```
[FW2-zone-pair-security-Trust-Untrust]packet-filter 2001
```

```
[FW2-zone-pair-security-Trust-Untrust]quit
```

```
[FW2]
```

```
[FW2]zone-pair security source untrust destination trust
```

```
[FW2-zone-pair-security-Untrust-Trust]packet-filter 2001
```

```
[FW2-zone-pair-security-Untrust-Trust]quit
```

```
[FW2]
```

```
[FW2]zone-pair security source trust destination local
```

```
[FW2-zone-pair-security-Trust-Local]packet-filter 2001
```

```
[FW2-zone-pair-security-Trust-Local]quit
```

```
[FW2]
```

```
[FW2]zone-pair security source local destination trust
```

```
[FW2-zone-pair-security-Local-Trust]packet-filter 2001
```

```
[FW2-zone-pair-security-Local-Trust]quit
```

[FW2]

[FW2]zone-pair security source untrust destination local

[FW2-zone-pair-security-Untrust-Local]packet-filter 2001

[FW2-zone-pair-security-Untrust-Local]quit

[FW2]

[FW2]zone-pair security source local destination untrust

[FW2-zone-pair-security-Local-Untrust]packet-filter 2001

[FW2-zone-pair-security-Local-Untrust]quit

第一阶段测试:

所有PC都填写IP地址:



配置PC\_4

接口	状态	IPv4地址	IPv6地址
G0/0/1	UP	192.168.1.2/24	

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\_5

接口	状态	IPv4地址	IPv6地址
G0/0/1	UP	172.16.1.2/24	

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

子网1的终端无法PING通到ISP:

```
hcl tszme
FI060_1
FI060_2
PC_4
PC_5
MSR36-20_3
round-trip min/avg/max/std-dev = 1.000/1.800/5.000/1.600 ms
<H3C>Feb 28 13:00:13:848 2020 H3C PING/6/PING STATISTICS: Ping statistics for 202.1.100.1
: 5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss, round-trip min/avg/max/
std-dev = 1.000/1.800/5.000/1.600 ms.
ping 202.1.100.1
Ping 202.1.100.1 (202.1.100.1): 56 data bytes, press CTRL_C to break
Request time out
Request time out
Request time out
Request time out
Request time out

--- Ping statistics for 202.1.100.1 ---
5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss
<H3C>Feb 28 13:00:25:827 2020 H3C PING/6/PING STATISTICS: Ping statistics for 202.1.100.1
: 5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss.
ping 202.1.100.1
Ping 202.1.100.1 (202.1.100.1): 56 data bytes, press CTRL_C to break
Request time out
Request time out
Request time out
Request time out
Request time out

--- Ping statistics for 202.1.100.1 ---
```

子网2的终端无法PING通到ISP:

```
hcl tszme
FI060_1
FI060_2
PC_4
PC_5
MSR36-20_3
<H3C>ping 202.2.100.1
Ping 202.2.100.1 (202.2.100.1): 56 data bytes, press CTRL_C to break
Request time out
Request time out
Request time out
Request time out
Request time out

--- Ping statistics for 202.2.100.1 ---
5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss
<H3C>Feb 28 13:04:11:002 2020 H3C PING/6/PING STATISTICS: Ping statistics for 202.2.100.1
: 5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss.
ping 202.1.100.1
Ping 202.1.100.1 (202.1.100.1): 56 data bytes, press CTRL_C to break
Request time out
Request time out
Request time out
Request time out
Request time out

--- Ping statistics for 202.1.100.1 ---
5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss
<H3C>Feb 28 13:04:33:691 2020 H3C PING/6/PING STATISTICS: Ping statistics for 202.1.100.1
: 5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss.
```

第二阶段调试 (IPV4 OVER IPV4关键配置点) :

FW1:

```
[FW1]int Tunnel 0 mode ipv4-ipv4
[FW1-Tunnel0]ip address 123.0.0.1 30
[FW1-Tunnel0]source GigabitEthernet 1/0/2
[FW1-Tunnel0]destination 202.2.100.2
[FW1-Tunnel0]quit
[FW1]ip route-static 172.16.1.0 255.255.255.0 123.0.0.2
[FW1]security-zone name Untrust
[FW1-security-zone-Untrust]import interface Tunnel 0
[FW1-security-zone-Untrust]quit
```

FW2:

```
[FW2]int Tunnel 0 mode ipv4-ipv4
[FW2-Tunnel0]ip address 123.0.0.2 30
[FW2-Tunnel0]source 202.2.100.2
[FW2-Tunnel0]description 202.1.100.2
[FW2-Tunnel0]quit
[FW2]security-zone name Untrust
[FW2-security-zone-Untrust]import interface Tunnel 0
[FW2-security-zone-Untrust]quit
[FW2]ip route-static 192.168.1.0 255.255.255.0 123.0.0.1
```

第二阶段测试:

子网1的终端可以PING通子网2的终端:

```
hcl_tszbme
F1060_1 F1060_2 PC_4 PC_5 MSR36-20_3
Request time out
Request time out
--- Ping statistics for 202.1.100.1 ---
5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss
<H3C>Feb 28 13:01:39:523 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 202.1.100.1
: 5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss.
<H3C>
<H3C>
<H3C>ping 172.16.1.2
Ping 172.16.1.2 (172.16.1.2): 56 data bytes, press CTRL_C to break
56 bytes from 172.16.1.2: icmp_seq=0 ttl=253 time=23.000 ms
56 bytes from 172.16.1.2: icmp_seq=1 ttl=253 time=2.000 ms
56 bytes from 172.16.1.2: icmp_seq=2 ttl=253 time=3.000 ms
56 bytes from 172.16.1.2: icmp_seq=3 ttl=253 time=3.000 ms
56 bytes from 172.16.1.2: icmp_seq=4 ttl=253 time=3.000 ms
--- Ping statistics for 172.16.1.2 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 2.000/6.800/23.000/8.109 ms
<H3C>Feb 28 13:10:24:417 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 172.16.1.2:
: 5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss, round-trip min/avg/max/s
td-dev = 2.000/6.800/23.000/8.109 ms.
```

子网1的终端依然无法PING通ISP:

```
hcl_tszbme
F1060_1 F1060_2 PC_4 PC_5 MSR36-20_3
<H3C>ping 172.16.1.2
Ping 172.16.1.2 (172.16.1.2): 56 data bytes, press CTRL_C to break
56 bytes from 172.16.1.2: icmp_seq=0 ttl=253 time=23.000 ms
56 bytes from 172.16.1.2: icmp_seq=1 ttl=253 time=2.000 ms
56 bytes from 172.16.1.2: icmp_seq=2 ttl=253 time=3.000 ms
56 bytes from 172.16.1.2: icmp_seq=3 ttl=253 time=3.000 ms
56 bytes from 172.16.1.2: icmp_seq=4 ttl=253 time=3.000 ms
--- Ping statistics for 172.16.1.2 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 2.000/6.800/23.000/8.109 ms
<H3C>Feb 28 13:10:24:417 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 172.16.1.2:
: 5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss, round-trip min/avg/max/s
td-dev = 2.000/6.800/23.000/8.109 ms.
<H3C>ping 202.2.100.2
Ping 202.2.100.2 (202.2.100.2): 56 data bytes, press CTRL_C to break
56 bytes from 202.2.100.2: icmp_seq=0 ttl=254 time=3.000 ms
56 bytes from 202.2.100.2: icmp_seq=1 ttl=254 time=3.000 ms
56 bytes from 202.2.100.2: icmp_seq=2 ttl=254 time=3.000 ms
56 bytes from 202.2.100.2: icmp_seq=3 ttl=254 time=3.000 ms
56 bytes from 202.2.100.2: icmp_seq=4 ttl=254 time=2.000 ms
--- Ping statistics for 202.2.100.2 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 2.000/2.800/3.000/0.400 ms
<H3C>Feb 28 13:11:03:387 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 202.2.100.2
: 5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss, round-trip min/avg/max/
std-dev = 2.000/2.800/3.000/0.400 ms.
<H3C>ping 202.2.100.1
Ping 202.2.100.1 (202.2.100.1): 56 data bytes, press CTRL_C to break
Request time out
Request time out
Request time out
Request time out
--- Ping statistics for 202.2.100.1 ---
5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss
<H3C>Feb 28 13:14:29:390 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 202.2.100.1: 5 pa
```

子网2的终端可以PING通子网1的终端:

```
hcl_tszbme
F1060_1 F1060_2 PC_4 PC_5 MSR36-20_3
Request time out
Request time out
Request time out
Request time out
--- Ping statistics for 202.1.100.1 ---
5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss
<H3C>Feb 28 13:04:33:691 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 202.1.100.1
: 5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss.
<H3C>ping 192.168.1.2
Ping 192.168.1.2 (192.168.1.2): 56 data bytes, press CTRL_C to break
56 bytes from 192.168.1.2: icmp_seq=0 ttl=253 time=4.000 ms
56 bytes from 192.168.1.2: icmp_seq=1 ttl=253 time=3.000 ms
56 bytes from 192.168.1.2: icmp_seq=2 ttl=253 time=4.000 ms
56 bytes from 192.168.1.2: icmp_seq=3 ttl=253 time=3.000 ms
56 bytes from 192.168.1.2: icmp_seq=4 ttl=253 time=2.000 ms
--- Ping statistics for 192.168.1.2 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 2.000/3.200/4.000/0.748 ms
<H3C>Feb 28 13:10:49:491 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 192.168.1.2
: 5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss, round-trip min/avg/max/
std-dev = 2.000/3.200/4.000/0.748 ms.
```

子网2的终端依然无法PING通ISP:

```

hcl_tszbme
F1060_1 F1060_2 FC_4 FC_5 MSR36-20_3
<H3C>ping 192.168.1.2
Ping 192.168.1.2 (192.168.1.2): 56 data bytes, press CTRL_C to break
56 bytes from 192.168.1.2: icmp_seq=0 ttl=253 time=4.000 ms
56 bytes from 192.168.1.2: icmp_seq=1 ttl=253 time=3.000 ms
56 bytes from 192.168.1.2: icmp_seq=2 ttl=253 time=4.000 ms
56 bytes from 192.168.1.2: icmp_seq=3 ttl=253 time=3.000 ms
56 bytes from 192.168.1.2: icmp_seq=4 ttl=253 time=2.000 ms

--- Ping statistics for 192.168.1.2 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 2.000/3.200/4.000/0.748 ms
<H3C>%Feb 28 13:10:49:491 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 192.168.1.2
: 5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss, round-trip min/avg/max/
std-dev = 2.000/3.200/4.000/0.748 ms.

<H3C>ping 202.1.100.2
Ping 202.1.100.2 (202.1.100.2): 56 data bytes, press CTRL_C to break
56 bytes from 202.1.100.2: icmp_seq=0 ttl=254 time=3.000 ms
56 bytes from 202.1.100.2: icmp_seq=1 ttl=254 time=2.000 ms
56 bytes from 202.1.100.2: icmp_seq=2 ttl=254 time=4.000 ms
56 bytes from 202.1.100.2: icmp_seq=3 ttl=254 time=3.000 ms
56 bytes from 202.1.100.2: icmp_seq=4 ttl=254 time=1.000 ms

--- Ping statistics for 202.1.100.2 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 1.000/2.600/4.000/1.020 ms
<H3C>%Feb 28 13:15:06:313 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 202.1.100.2
p min/avg/max/std-dev = 1.000/2.600/4.000/1.020 ms.

<H3C>ping 202.1.100.1
Ping 202.1.100.1 (202.1.100.1): 56 data bytes, press CTRL_C to break
Request time out
Request time out
Request time out
Request time out
Request time out

--- Ping statistics for 202.1.100.1 ---
5 packet(s) transmitted, 0 packet(s) received, 100.0% packet loss
<H3C>%Feb 28 13:15:20:426 2020 H3C PING/6/PING_STATISTICS: Ping statistics for 202.1.100.1

```

根据测试结果，说明子网1和子网2的终端可以跨越ISP建立隧道并实现互通。

查看FW1的隧道状态和路由表有隧道的路由：

```

[FW1]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
GE1/0/0        DOWN DOWN        --             --
GE1/0/1        DOWN DOWN        192.168.0.1    --
GE1/0/2        UP UP           202.1.100.2    <connect to ISP>
GE1/0/3        UP UP           192.168.1.1    --
GE1/0/4        DOWN DOWN        --             --
GE1/0/5        DOWN DOWN        --             --
GE1/0/6        DOWN DOWN        --             --
GE1/0/7        DOWN DOWN        --             --
GE1/0/8        DOWN DOWN        --             --
GE1/0/9        DOWN DOWN        --             --
GE1/0/10       DOWN DOWN        --             --
GE1/0/11       DOWN DOWN        --             --
GE1/0/12       DOWN DOWN        --             --
GE1/0/13       DOWN DOWN        --             --
GE1/0/14       DOWN DOWN        --             --
GE1/0/15       DOWN DOWN        --             --
GE1/0/16       DOWN DOWN        --             --
GE1/0/17       DOWN DOWN        --             --
GE1/0/18       DOWN DOWN        --             --
GE1/0/19       DOWN DOWN        --             --
GE1/0/20       DOWN DOWN        --             --
GE1/0/21       DOWN DOWN        --             --
GE1/0/22       DOWN DOWN        --             --
GE1/0/23       DOWN DOWN        --             --
InLoop0       UP UP(s)         --             --
NULL0         UP UP(s)         --             --
REG0          UP --           --             --
Tun0          UP UP           123.0.0.1     --

```

```

[FW1]dis ip routing-table
Destinations : 22      Routes : 22

Destination/Mask Proto Pre Cost      NextHop      Interface
0.0.0.0/0        Static 60 0      202.1.100.1  GE1/0/2
0.0.0.0/32       Direct 0 0      127.0.0.1    InLoop0
123.0.0.0/30     Direct 0 0      123.0.0.1    Tun0
123.0.0.0/32     Direct 0 0      123.0.0.1    Tun0
123.0.0.1/32     Direct 0 0      127.0.0.1    InLoop0
123.0.0.3/32     Direct 0 0      123.0.0.1    Tun0
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
172.16.1.0/24   Static 60 0      123.0.0.2    Tun0
192.168.1.0/24   Direct 0 0      192.168.1.1  GE1/0/3
192.168.1.0/32   Direct 0 0      192.168.1.1  GE1/0/3
192.168.1.1/32   Direct 0 0      127.0.0.1    InLoop0
192.168.1.255/32 Direct 0 0      192.168.1.1  GE1/0/3
202.1.100.0/30   Direct 0 0      202.1.100.2  GE1/0/2
202.1.100.0/32   Direct 0 0      202.1.100.2  GE1/0/2
202.1.100.2/32   Direct 0 0      127.0.0.1    InLoop0
202.1.100.3/32   Direct 0 0      202.1.100.2  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

```

查看FW2的隧道状态及路由表有隧道的路由：

```
[FW2]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
GE1/0/0        DOWN DOWN        --
GE1/0/1        DOWN DOWN        192.168.0.1
GE1/0/2        UP  UP          202.2.100.2    <connect to ISP>
GE1/0/3        UP  UP          172.16.1.1
GE1/0/4        DOWN DOWN        --
GE1/0/5        DOWN DOWN        --
GE1/0/6        DOWN DOWN        --
GE1/0/7        DOWN DOWN        --
GE1/0/8        DOWN DOWN        --
GE1/0/9        DOWN DOWN        --
GE1/0/10       DOWN DOWN        --
GE1/0/11       DOWN DOWN        --
GE1/0/12       DOWN DOWN        --
GE1/0/13       DOWN DOWN        --
GE1/0/14       DOWN DOWN        --
GE1/0/15       DOWN DOWN        --
GE1/0/16       DOWN DOWN        --
GE1/0/17       DOWN DOWN        --
GE1/0/18       DOWN DOWN        --
GE1/0/19       DOWN DOWN        --
GE1/0/20       DOWN DOWN        --
GE1/0/21       DOWN DOWN        --
GE1/0/22       DOWN DOWN        --
GE1/0/23       DOWN DOWN        --
InLoop0       UP  UP(s)        --
NULL0         UP  UP(s)        --
REG0          UP  --          --
Tun0          UP  UP          123.0.0.2
[FW2]
```

```
[FW2]dis ip routing-table
Destinations : 22      Routes : 22

Destination/Mask  Proto  Pre Cost      NextHop          Interface
0.0.0.0/0         Static 60  0             202.2.100.1     GE1/0/2
0.0.0.0/32        Direct 0  0             127.0.0.1       InLoop0
123.0.0.0/30      Direct 0  0             123.0.0.2       Tun0
123.0.0.0/32      Direct 0  0             123.0.0.2       Tun0
123.0.0.2/32      Direct 0  0             127.0.0.1       InLoop0
123.0.0.3/32      Direct 0  0             123.0.0.2       Tun0
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
172.16.1.0/24     Direct 0  0             172.16.1.1      GE1/0/3
172.16.1.0/32     Direct 0  0             172.16.1.1      GE1/0/3
172.16.1.1/32     Direct 0  0             127.0.0.1       InLoop0
172.16.1.255/32   Direct 0  0             172.16.1.1      GE1/0/3
192.168.1.0/24    Static 60  0             123.0.0.1       Tun0
202.2.100.0/30    Direct 0  0             202.2.100.2     GE1/0/2
202.2.100.0/32    Direct 0  0             202.2.100.2     GE1/0/2
202.2.100.2/32    Direct 0  0             127.0.0.1       InLoop0
202.2.100.3/32    Direct 0  0             202.2.100.2     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
[FW2]
```

至此，F1060 IPV4 OVER IPV4隧道典型组网配置案例已完成！