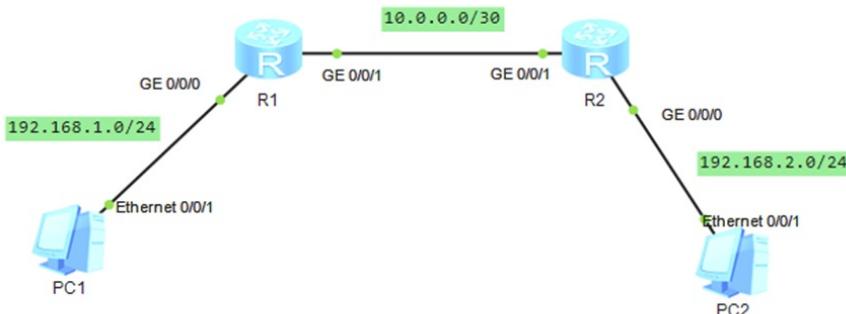




组网及说明



组网说明：本案例采用ENSP模拟器来模拟RIP接口明文认证，实现路由器之间RIP路由协议的安全对接，保障网络的安全。

配置步骤

- 1、按照网络拓扑图配置IP地址。
- 2、配置R1、R2路由器的RIP及接口明文认证

配置关键点

R1:

```
<Huawei>u t m  
Info: Current terminal monitor is off.  
<Huawei>u t d  
Info: Current terminal debugging is off.  
<Huawei>sys  
Enter system view, return user view with Ctrl+Z.  
[Huawei]sysname R1  
[R1]int gi 0/0/0  
[R1-GigabitEthernet0/0/0]ip address 192.168.1.1 24  
[R1-GigabitEthernet0/0/0]quit  
[R1]int gi 0/0/1  
[R1-GigabitEthernet0/0/1]ip address 10.0.0.1 30  
[R1-GigabitEthernet0/0/1]quit  
[R1]rip 1  
[R1-rip-1]version 2  
[R1-rip-1]undo summary  
[R1-rip-1]network 10.0.0.0  
[R1-rip-1]network 192.168.1.0  
[R1-rip-1]quit  
[R1]int gi 0/0/0  
[R1-GigabitEthernet0/0/0]quit  
[R1]int gi 0/0/1  
[R1-GigabitEthernet0/0/1]rip authentication-mode simple weijianing  
//接口启用RIP 明文认证，密钥为weijianing  
[R1-GigabitEthernet0/0/1]quit
```

R2:

```
<Huawei>u t m  
Info: Current terminal monitor is off.  
<Huawei>u t d  
Info: Current terminal debugging is off.  
<Huawei>sys  
Enter system view, return user view with Ctrl+Z.  
[Huawei]sysname R2  
[R2]int gi 0/0/0  
[R2-GigabitEthernet0/0/0]ip address 192.168.2.1 24  
[R2-GigabitEthernet0/0/0]quit  
[R2]int gi 0/0/1  
[R2-GigabitEthernet0/0/1]ip address 10.0.0.2 30  
[R2-GigabitEthernet0/0/1]quit
```

```

[R2]rip 1
[R2-rip-1]version 2
[R2-rip-1]undo summary
[R2-rip-1]network 10.0.0.0
[R2-rip-1]network 192.168.2.0
[R2-rip-1]quit
[R2]int gi 0/0/0
[R2-GigabitEthernet0/0/0]quit
[R2]int gi 0/0/1
[R2-GigabitEthernet0/0/1]rip authentication-mode simple weijianing
[R2-GigabitEthernet0/0/1]quit

```

查看R1、R2的路由表，均已通过RIP学习到对端发布的路由：

```

[R1]dis ip routing-table
Route Flags: R - relay, D - download to fib
-----
Routing Tables: Public
      Destinations : 7      Routes : 7

Destination/Mask   Proto   Pre  Cost       Flags NextHop      Interface
          10.0.0.0/30 Direct    0    0           D  10.0.0.1      GigabitEthernet
0/0/1
          10.0.0.1/32 Direct    0    0           D  127.0.0.1      GigabitEthernet
0/0/1
          127.0.0.0/8  Direct    0    0           D  127.0.0.1      InLoopBack0
          127.0.0.1/32 Direct    0    0           D  127.0.0.1      InLoopBack0
          192.168.1.0/24 Direct    0    0           D  192.168.1.1    GigabitEthernet
0/0/0
          192.168.1.1/32 Direct    0    0           D  127.0.0.1      GigabitEthernet
0/0/0
          192.168.2.0/24 RIP     100   1           D  10.0.0.2      GigabitEthernet
0/0/1

```

```

Route Flags: R - relay, D - download to fib
-----
Routing Tables: Public
      Destinations : 7      Routes : 7

Destination/Mask   Proto   Pre  Cost       Flags NextHop      Interface
          10.0.0.0/30 Direct    0    0           D  10.0.0.2      GigabitEthernet
0/0/1
          10.0.0.2/32 Direct    0    0           D  127.0.0.1      GigabitEthernet
0/0/1
          127.0.0.0/8  Direct    0    0           D  127.0.0.1      InLoopBack0
          127.0.0.1/32 Direct    0    0           D  127.0.0.1      InLoopBack0
          192.168.1.0/24 RIP     100   1           D  10.0.0.1      GigabitEthernet
0/0/1
          192.168.2.0/24 Direct    0    0           D  192.168.2.1    GigabitEthernet
0/0/0
          192.168.2.1/32 Direct    0    0           D  127.0.0.1      GigabitEthernet
0/0/0

```

PC分别填写IP地址，且能相互PING通：





```
Welcome to use PC Simulator!  
PC>ping 192.168.2.2  
  
Ping 192.168.2.2: 32 data bytes, Press Ctrl_C to break  
From 192.168.2.2: bytes=32 seq=1 ttl=126 time=93 ms  
From 192.168.2.2: bytes=32 seq=2 ttl=126 time=78 ms  
From 192.168.2.2: bytes=32 seq=3 ttl=126 time=93 ms  
From 192.168.2.2: bytes=32 seq=4 ttl=126 time=47 ms  
From 192.168.2.2: bytes=32 seq=5 ttl=126 time=78 ms  
  
--- 192.168.2.2 ping statistics ---  
5 packet(s) transmitted  
5 packet(s) received  
0.00% packet loss  
round-trip min/avg/max = 47/77/93 ms  
  
PC>
```

```
Welcome to use PC Simulator!  
PC>ping 192.168.1.2  
  
Ping 192.168.1.2: 32 data bytes, Press Ctrl_C to break  
From 192.168.1.2: bytes=32 seq=1 ttl=126 time=47 ms  
From 192.168.1.2: bytes=32 seq=2 ttl=126 time=78 ms  
From 192.168.1.2: bytes=32 seq=3 ttl=126 time=63 ms  
From 192.168.1.2: bytes=32 seq=4 ttl=126 time=63 ms  
From 192.168.1.2: bytes=32 seq=5 ttl=126 time=62 ms  
  
--- 192.168.1.2 ping statistics ---  
5 packet(s) transmitted  
5 packet(s) received  
0.00% packet loss  
round-trip min/avg/max = 47/62/78 ms  
  
PC>
```

至此，RIP接口明文认证典型组网配置案例已完成！