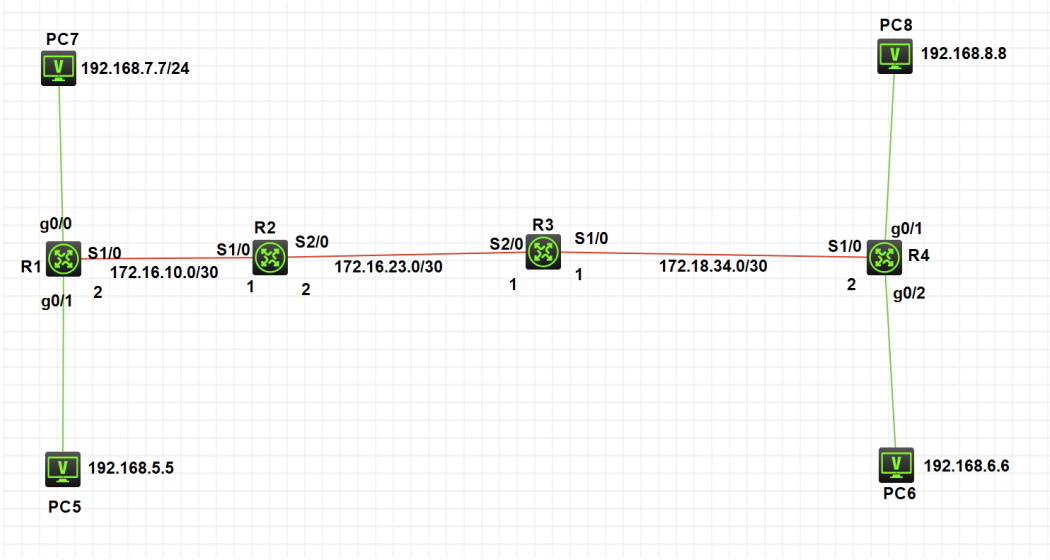
H2 拓扑图



步骤：

1. 连线，路由器与路由器通过S端口连接
2. 配置好PC
3. 配置路由器端口IP
4. 配置路由器的下一跳地址（静态路由）

1. 连线情况可见拓扑图
2. 配置好PC
3. 端口IP

   R1

```
[R1]int g0/0
[R1-GigabitEthernet0/0]ip address 192.168.7.1 24
[R1-GigabitEthernet0/0]undo shutdown
[R1-GigabitEthernet0/0]quit
[R1]int g0/1
[R1-GigabitEthernet0/1]ip address 192.168.5.1 24
[R1-GigabitEthernet0/1]undo shutdown
[R1-GigabitEthernet0/1]quit
[R1]int s1/0
[R1-Serial1/0]ip add 172.16.10.2 30
[R1-Serial1/0]undo shutdown
[R1-Serial1/0]quit
```

R2

```
[H3C]sysname R2
[R2]int s1/0
[R2-Serial1/0]ip add 172.16.10.1 30
[R2-Serial1/0]undo shutdown
[R2-Serial1/0]quit
[R2]int s2/0
[R2-Serial2/0]ip add 172.16.23.2 30
[R2-Serial2/0]undo shutdown
[R2-Serial2/0]quit
[R2]ip rou
[R2]ip route-static 192.168.6.6 24 172.16.23.1
[R2]ip rou
[R2]ip route-static 192.168.8.8 24 172.16.23.1
[R2]ip rou
[R2]ip route-static 192.168.7.7 24 172.16.10.2
[R2]ip rou
[R2]ip route-static 192.168.5.5 24 172.16.10.2
```

R3

```
[H3C]sysname R3
[R3]int s1/0
[R3-Serial1/0]ip add 172.18.34.4 30
Invalid IP address or subnet mask!
[R3-Serial1/0]ip add 172.18.34.1 30
[R3-Serial1/0]undo shutdown
[R3-Serial1/0]quit
[R3]int s2/0
[R3-Serial2/0]ip add 172.16.23.1 30
[R3-Serial2/0]undo shutdown
[R3-Serial2/0]quit
```

R4

```
[H3C]sysname R4
[R4]int s1/0
[R4-Serial1/0]undo shutdown
[R4-Serial1/0]ip add 172.18.34.2 30
[R4-Serial1/0]quit
[R4]int g0/1
[R4-GigabitEthernet0/1]ip address 192.168.8.1 24
[R4-GigabitEthernet0/1]undo shutdown
[R4-GigabitEthernet0/1]quit
[R4]int g0/2
[R4-GigabitEthernet0/2]undo shutdown
[R4-GigabitEthernet0/2]ip address 192.168.6.1 24
[R4-GigabitEthernet0/2]quit
```

4. 配置静态路由

   R1 需要配置 到 PC8(192.168.8.8) 和 PC6(192.168.6.6)的路由

```
[R1]ip rou
[R1]ip route-static 192.168.6.6 24 172.16.10.2
[R1]ip rou
[R1]ip route-static 192.168.8.8 24 172.16.10.2
[R1]ip rou
[R1]ip route-static 192.168.6.6 24 172.16.10.1
[R1]ip rou
[R1]ip route-static 192.168.8.8 24 172.16.10.1
```

R2 4台PC都需要配置

```
[R2]ip rou
[R2]ip route-static 192.168.6.6 24 172.16.23.1
[R2]ip rou
[R2]ip route-static 192.168.8.8 24 172.16.23.1
[R2]ip rou
[R2]ip route-static 192.168.7.7 24 172.16.10.2
[R2]ip rou
[R2]ip route-static 192.168.5.5 24 172.16.10.2
```

R3 4台PC都需要配置

```
[R3]ip rou
[R3]ip route-static 192.168.6.6 24 172.18.34.2
[R3]ip rou
[R3]ip route-static 192.168.8.8 24 172.18.34.2
[R3]ip rou
[R3]ip route-static 192.168.7.7 24 172.16.23.2
[R3]ip rou
[R3]ip route-static 192.168.5.5 24 172.16.23.2
```

R4 配置PC7(192.168.7.7) 和 PC5(192.168.5.5)

```
[R4]ip rou
[R4]ip route-static 192.168.5.5 24 172.18.34.1
[R4]ip rou
[R4]ip route-static 192.168.7.7 24 172.18.34.1
```

ping 结果

PC7

```
<H3C>sys
System View: return to User View with Ctrl+Z.
[H3C]ping 192.168.5.5
Ping 192.168.5.5 (192.168.5.5): 56 data bytes, press CTRL_C to break
56 bytes from 192.168.5.5: icmp_seq=0 ttl=254 time=4.000 ms
56 bytes from 192.168.5.5: icmp_seq=1 ttl=254 time=1.000 ms
56 bytes from 192.168.5.5: icmp_seq=2 ttl=254 time=1.000 ms
56 bytes from 192.168.5.5: icmp_seq=3 ttl=254 time=2.000 ms
56 bytes from 192.168.5.5: icmp_seq=4 ttl=254 time=1.000 ms

--- Ping statistics for 192.168.5.5 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 1.000/1.800/4.000/1.166 ms
[H3C]%May 26 20:45:52:810 2020 H3C PING/6/PING_STATISTICS: Ping statist
ics for 192.168.5.5: 5 packet(s) transmitted, 5 packet(s) received, 0.0
% packet loss, round-trip min/avg/max/std-dev = 1.000/1.800/4.000/1.166
 ms.

[H3C]ping 192.168.8.8
Ping 192.168.8.8 (192.168.8.8): 56 data bytes, press CTRL_C to break
56 bytes from 192.168.8.8: icmp_seq=0 ttl=251 time=6.000 ms
56 bytes from 192.168.8.8: icmp_seq=1 ttl=251 time=8.000 ms
56 bytes from 192.168.8.8: icmp_seq=2 ttl=251 time=9.000 ms
56 bytes from 192.168.8.8: icmp_seq=3 ttl=251 time=5.000 ms
56 bytes from 192.168.8.8: icmp_seq=4 ttl=251 time=6.000 ms

--- Ping statistics for 192.168.8.8 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 5.000/6.800/9.000/1.470 ms
[H3C]%May 26 20:45:59:246 2020 H3C PING/6/PING_STATISTICS: Ping statist
ics for 192.168.8.8: 5 packet(s) transmitted, 5 packet(s) received, 0.0
% packet loss, round-trip min/avg/max/std-dev = 5.000/6.800/9.000/1.470
 ms.

[H3C]ping 192.168.6.6
Ping 192.168.6.6 (192.168.6.6): 56 data bytes, press CTRL_C to break
56 bytes from 192.168.6.6: icmp_seq=0 ttl=251 time=3.000 ms
56 bytes from 192.168.6.6: icmp_seq=1 ttl=251 time=9.000 ms
56 bytes from 192.168.6.6: icmp_seq=2 ttl=251 time=7.000 ms
56 bytes from 192.168.6.6: icmp_seq=3 ttl=251 time=3.000 ms
56 bytes from 192.168.6.6: icmp_seq=4 ttl=251 time=5.000 ms

--- Ping statistics for 192.168.6.6 ---
5 packet(s) transmitted, 5 packet(s) received, 0.0% packet loss
round-trip min/avg/max/std-dev = 3.000/5.400/9.000/2.332 ms
[H3C]%May 26 20:46:04:843 2020 H3C PING/6/PING_STATISTICS: Ping statist
ics for 192.168.6.6: 5 packet(s) transmitted, 5 packet(s) received, 0.0
% packet loss, round-trip min/avg/max/std-dev = 3.000/5.400/9.000/2.332
 ms.
```