

思科认证辅导:Eigrpsplithorizon丢失路由分析思科认证 PDF转换可能丢失图片或格式，建议阅读原文

[https://www.100test.com/kao\\_ti2020/644/2021\\_2022\\_\\_E6\\_80\\_9D\\_E7\\_A7\\_91\\_E8\\_AE\\_A4\\_E8\\_c101\\_644200.htm](https://www.100test.com/kao_ti2020/644/2021_2022__E6_80_9D_E7_A7_91_E8_AE_A4_E8_c101_644200.htm) 我们测试的网络类型是帧中继（HUB-SPOKE），R1分别与R2和R3建立frame映射，R1为hub端，2，3分别为spoke端。R2只与R1建立映射，R3也只与R1建立映射。R2-----R1-----R3

配置帧中继：R1配置：

```
R1#conf t R1(config)#int lo 0 R1(config-if)#ip add 1.1.1.1 255.255.255.0 R1(config-if)#no sh R1(config-if)#int s0/0
```

```
R1(config-if)#ip add 11.1.1.1 255.255.255.0
```

```
R1(config-if)#encapsulation frame-relay R1(config-if)#no arp frame-relay R1(config-if)#no frame inverse-arp R1(config-if)#frame map ip 11.1.1.2 102 broadcast R1(config-if)#frame map ip 11.1.1.3 103 broadcast （帧中继的标准配置） R1(config-if)#no sh
```

```
R2配置： R2(config-if)#int s0/0 R2(config-if)#ip add 11.1.1.2 255.255.255.0 R2(config-if)#no sh R2(config-if)#encapsulation frame-relay R2(config-if)#no arp frame-relay R2(config-if)#no frame inverse-arp R2(config-if)#frame map ip 11.1.1.1 201 broadcast R2(config-if)#no sh R3配置： R3(config-if)#int s0/0
```

```
R3(config-if)#ip add 11.1.1.3 255.255.255.0
```

```
R3(config-if)#encapsulation frame-relay R3(config-if)#no arp frame-relay R3(config-if)#no frame inverse-arp R3(config-if)#frame map ip 11.1.1.1 301 broadcast R3(config-if)#no sh 查看帧中继建立情况 R1#sh frame map Serial0/0 (up): ip 11.1.1.2 dlci
```

```
102(0x66,0x1860), static, broadcast, CISCO, status defined, active Serial0/0 (up): ip 11.1.1.3 dlci 103(0x67,0x1870), static, broadcast,
```

CISCO, status defined, active R2#sh frame map Serial0/0 (up): ip 11.1.1.1 dlci 201(0xC9,0x3090), static, broadcast, CISCO, status defined, active R3#sh frame map Serial0/0 (up): ip 11.1.1.1 dlci 301(0x12D,0x48D0), static, broadcast, CISCO, status defined, active 已经建立完毕 测试连通性 : R3#ping 11.1.1.1 Type escape sequence to abort. Sending 5, 100-byte ICMP Echos to 11.1.1.1, timeout is 2 seconds: !!!!! ( 成功 ) Success rate is 100 percent (5/5), round-trip min/avg/max = 48/77/96 ms 帧中继有水平分割 , 在rip协议中 , 帧中继的水平分割默认是被关闭的 , 在eigrp协议中 帧中继的水平分割默认是被打开的 可查看R1的S0/0接口 R1#sh ip int s0/0 Serial0/0 is up, line protocol is up Internet address is 11.1.1.1/24 Broadcast address is 255.255.255.255 Address determined by setup command MTU is 1500 bytes Helper address is not set Directed broadcast forwarding is disabled Multicast reserved groups joined: 224.0.0.9 Outgoing access list is not set Inbound access list is not set Proxy ARP is enabled Local Proxy ARP is disabled Security level is default Split horizon is disabled ICMP redirects are always sent ICMP unreachable are always sent ICMP mask replies are never sent IP fast switching is enabled IP fast switching on the same interface is enabled IP Flow switching is disabled 我们分别用 rip 和 eigrp做同样的实验 , 首先每台路由器启动RIP , 通过查看路由表可以发现 , R2 R3会学到对方的路由。 100Test 下载频道开通 , 各类考试题目直接下载。详细请访问 [www.100test.com](http://www.100test.com)