


```
255.0.0.0!interface Serial0/0ip address 10.0.0.4
```

```
255.0.0.0encapsulation frame-relayip ospf network broadcastip ospf  
priority 0frame-relay map ip 10.0.0.1 401 broadcastframe-relay map  
ip 10.0.0.5 401no frame-relay inverse-arp!router ospf 1network  
0.0.0.0 255.255.255.255 area 0R5:interface Ethernet0/0ip address
```

```
5.0.0.5 255.0.0.0!interface Serial0/0ip address 10.0.0.5
```

```
255.0.0.0encapsulation frame-relayip ospf network broadcastip ospf  
priority 0frame-relay map ip 10.0.0.1 501 broadcastframe-relay map  
ip 10.0.0.4 501no frame-relay inverse-arp!router ospf 1network  
0.0.0.0 255.255.255.255 area 0R1#show ip ospf neighbor
```

```
Neighbor ID Pri State Dead Time Address Interface10.0.0.4 0 FULL/DRO  
THER 00:00:33 10.0.0.4 Serial0/010.0.0.5 0 FULL/DRO  
THER 00:00:36
```

```
10.0.0.5 Serial0/0R4#show ip ospf neighborNeighbor ID Pri State  
Dead Time Address Interface10.0.0.1 1 FULL/DR 00:00:39 10.0.0.1
```

```
Serial0/0R5#show ip ospf neighborNeighbor ID Pri State Dead Time  
Address Interface10.0.0.1 1 FULL/DR 00:00:33 10.0.0.1
```

```
Serial0/0R1#show ip routeCodes: C - connected, S - static, I - IGRP,  
R - RIP, M - mobile, B - BGPD - EIGRP, EX - EIGRP external, O -  
OSPF, IA - OSPF inter areaN1 - OSPF NSSA external type 1, N2 -  
OSPF NSSA external type 2E1 - OSPF external type 1, E2 - OSPF  
external type 2, E - EGPI - IS-IS, su - IS-IS summary, L1 - IS-IS  
level-1, L2 - IS-IS level-2ia - IS-IS inter area, * - candidate default, U  
- per-user static routeo - ODR, P - periodic downloaded static
```

```
routeGateway of last resort is not setC 1.0.0.0/8 is directly connected,  
Ethernet0/0O 4.0.0.0/8 [110/74] via 10.0.0.4, 00:01:49, Serial0/0O  
5.0.0.0/8 [110/74] via 10.0.0.5, 00:01:49, Serial0/0C 10.0.0.0/8 is
```

directly connected, Serial0/0R4#show ip routeCodes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGPD - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter areaN1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGPI - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2ia - IS-IS inter area, * - candidate default, U - per-user static routeo - ODR, P - periodic downloaded static routeGateway of last resort is not setO 1.0.0.0/8 [110/74] via 10.0.0.1, 00:02:26, Serial0/0C 4.0.0.0/8 is directly connected, Ethernet0/0O 5.0.0.0/8 [110/74] via 10.0.0.5, 00:02:26, Serial0/0C 10.0.0.0/8 is directly connected, Serial0/0R5#show ip routeCodes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGPD - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter areaN1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGPI - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2ia - IS-IS inter area, * - candidate default, U - per-user static routeo - ODR, P - periodic downloaded static routeGateway of last resort is not setO 1.0.0.0/8 [110/74] via 10.0.0.1, 00:00:11, Serial0/0O 4.0.0.0/8 [110/74] via 10.0.0.4, 00:00:11, Serial0/0C 5.0.0.0/8 is directly connected, Ethernet0/0C 10.0.0.0/8 is directly connected, Serial0/0

注解：在网络类型为broadcast的网络中OSPF hellos包是通过组播传递，像non-broadcast的网络类型一样需要DR/BDR的选举。对于以太网或者令牌网这种广播型网络来说，这种是缺省的网络类型。需要注意的是本例中的framerelay map命令增加了broadcast选项，这是因为hello包

是组播传递的。另外由于不是单播所以对于DR和BDR就不需要配置neighbor的命令。同样还会出现前例讲到的优先级配置问题，略过。通过使用show ip ospf neighbor命令来验证邻居关系，使用show ip ospf interface命令来验证网络类型和DR/BDR. 关于下一跳的问题也类似前例。 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