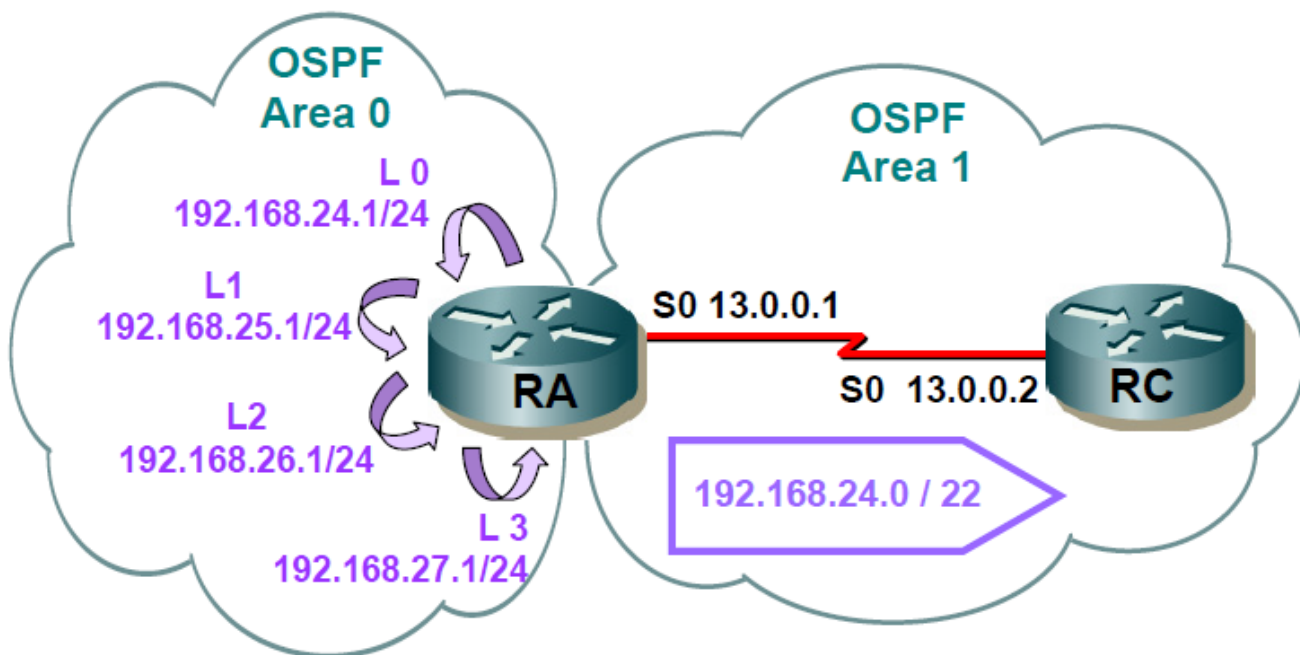


Configuring Ospf Route Summarization



RouterA

```
RouterA(config)#router ospf 64
RouterA(config-router)#network 192.168.24.1 0.0.0.255 area 0
RouterA(config-router)#network 192.168.25.1 0.0.0.255 area 0
RouterA(config-router)#network 192.168.26.1 0.0.0.255 area 0
RouterA(config-router)#network 192.168.27.1 0.0.0.255 area 0
RouterA(config-router)#network 13.0.0.0 0.255.255.255 area 1

RouterA(config-router)# area 0 range 192.168.24.0 255.255.252.0
```

RouterC

```
RouterC(config)#router ospf 64
RouterC(config-router)#network 13.0.0.0 0.255.255.255 area 1
```

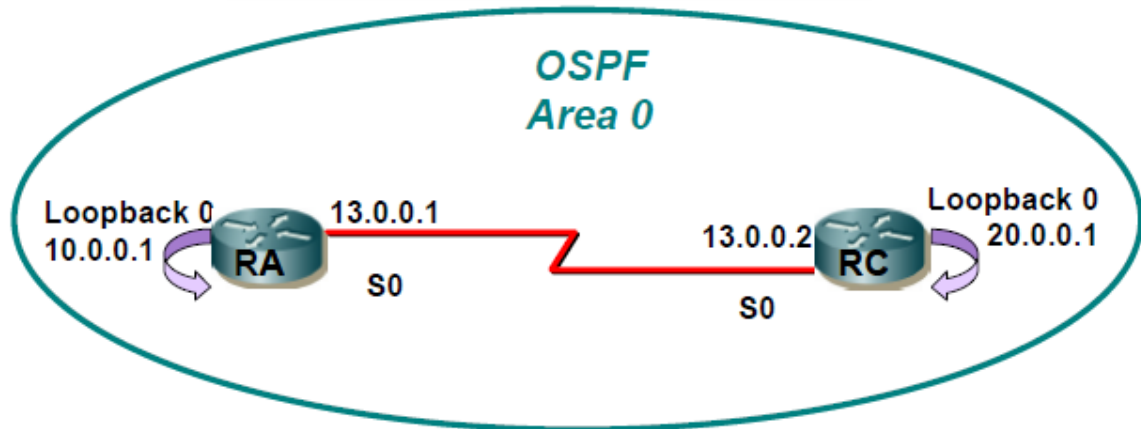
Verifying Commands

```
Router#show ip route
```

```
Router#clear ip route *
```

```
Router#show ip ospf database
```

Configuring Ospf Authentication



Router A

```
RA(config)#router ospf 64
RA(config-router)#network 13.0.0.0 0.255.255.255 area 0
RA(config-router)#network 10.0.0.0 0.255.255.255 area 0
```

```
RA(config)#interface serial 0
RA(config-if)#ip ospf authentication message-digest
RA(config-if)#ip ospf message-digest-key 1 md5 cisco
```

Router C

```
RC(config)#router ospf 64
RC(config-router)#network 13.0.0.0 0.255.255.255 area 0
RC(config-router)#network 20.0.0.0 0.255.255.255 area 0
```

```
RC(config)# interface serial 0
RC(config-if)# ip ospf authentication message-digest
RC(config-if)# ip ospf message-digest-key 1 md5 cisco
```

Verifying Commands

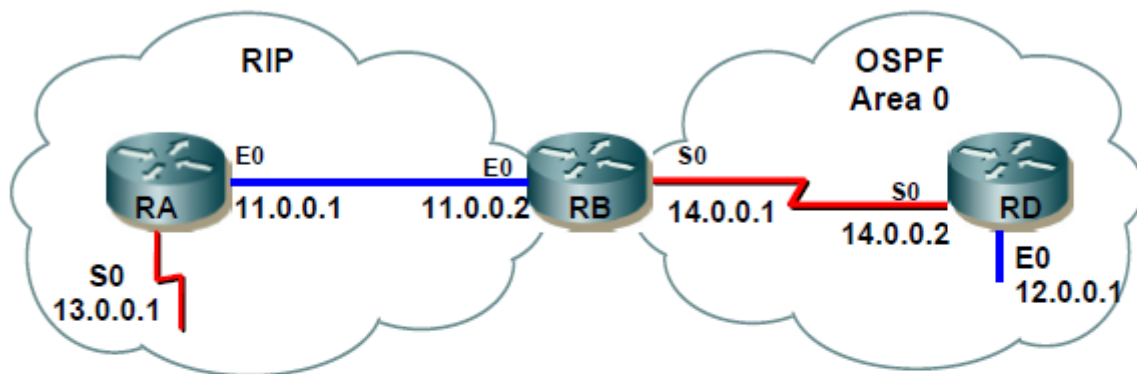
```
Router # debug ip ospf events
```

```
Router # debug ip ospf adj
```

```
Router # show ip ospf neighbor
```

```
Router#show ip route
```

Configuring Redistribution Between RIP & OSPF



Router A

```
RouterA(config)#router rip
RouterA(config-router)#network 11.0.0.0
RouterA(config-router)#network 13.0.0.0
```

Router B

```
RouterB(config)#router rip
RouterB(config-router)#network 11.0.0.0
RouterB(config-router)#redistribute ospf 64 metric 5
```

```
RouterB(config)#router ospf 64
RouterB(config-router)#network 14.0.0.0 0.255.255.255 area 0
RouterB(config-router)#redistribute rip metric 56
```

Router D

```
RouterD(config)#router ospf 64
RouterD(config-router)#network 14.0.0.0 0.255.255.255 area 0
RouterD(config-router)#network 12.0.0.0 0.255.255.255 area 0
```

Verifying Commands

```
Router#show ip route
```

```
Router#show ip protocols
```

```
Router#clear ip route *
```