##R01##

```
conf t
!
interface Ethernet0/0
 ip ospf authentication message-digest
 ip ospf message-digest-key 1 md5 0 cisco
!
interface Ethernet0/1
 ip ospf authentication message-digest
 ip ospf message-digest-key 1 md5 0 cisco
!
router ospf 1
router-id 1.1.1.1
network 1.1.1.1 0.0.0.0 area 0
network 192.168.15.1 0.0.0.0 area 0
network 192.168.51.1 0.0.0.0 area 0
network 192.168.12.1 0.0.0.0 area 1
network 192.168.13.1 0.0.0.0 area 1
area 0 authentication message-digest
!
end
```

##R02##

```
conf t
!
router ospf 1
router-id 2.2.2.2
network 2.2.2.2 0.0.0.0 area 1
network 192.168.12.2 0.0.0.0 area 1
network 192.168.24.2 0.0.0.0 area 1
!
end
```

##R03##

```
conf t
!
router ospf 1
router-id 3.3.3.3
network 3.3.3.3 0.0.0.0 area 1
network 192.168.34.3 0.0.0.0 area 1
network 192.168.13.3 0.0.0.0 area 1
!
end
```

##R05##

```
conf t
!
interface Ethernet0/0
 ip ospf authentication message-digest
 ip ospf message-digest-key 1 md5 0 cisco
!
interface Ethernet0/1
 ip ospf authentication message-digest
 ip ospf message-digest-key 1 md5 0 cisco
!
router ospf 1
router-id 5.5.5.5
network 5.5.5.5 0.0.0.0 area 0
network 192.168.15.5 0.0.0.0 area 0
network 192.168.51.5 0.0.0.0 area 0
network 192.168.56.5 0.0.0.0 area 2
network 192.168.57.5 0.0.0.0 area 2
area 0 authentication message-digest
!
end
```

##R06##

```
conf t
!
router ospf 1
router-id 6.6.6.6
network 6.6.6.6 0.0.0.0 area 2
network 192.168.56.6 0.0.0.0 area 2
network 192.168.68.6 0.0.0.0 area 2
!
end
```

##R07##

```
conf t
!
router ospf 1
router-id 7.7.7.7
network 7.7.7.7 0.0.0.0 area 2
network 192.168.57.7 0.0.0.0 area 2
network 192.168.78.7 0.0.0.0 area 2
!
end
```

##R08##

```
conf t
!
router ospf 1
router-id 8.8.8.8
network 8.8.8.8 0.0.0.0 area 2
network 192.168.68.8 0.0.0.0 area 2
network 192.168.78.8 0.0.0.0 area 2
network 172.16.0.0 0.0.255.255 area 2
!
interface Ethernet0/0
ip ospf cost 64
!
end
```

##R04##

```
conf t
!
router ospf 1
router-id 4.4.4.4
network 4.4.4.4 0.0.0.0 area 1
network 192.168.24.4 0.0.0.0 area 1
network 192.168.34.4 0.0.0.0 area 1
network 172.16.0.0 0.0.255.255 area 1
!
interface Ethernet0/0
ip ospf cost 100
!
end
```