

##R01##

```

conf t
!
router bgp 100
  bgp router-id 1.1.1.1
  bgp log-neighbor-changes
  no bgp default ipv4-unicast
  neighbor 192.168.16.6 remote-as 101
  neighbor 192.168.17.7 remote-as 102
  !
  address-family ipv4
    neighbor 192.168.16.6 activate
    neighbor 192.168.17.7 activate
    redistribute ospf 1 match internal external 1 external 2
    network 1.1.1.1 mask 255.255.255.255
  exit-address-family
!
router ospf 1
  redistribute bgp 100 subnets
!
end

```

##R02##

```

conf t
!
router bgp 100
  bgp router-id 2.2.2.2
  bgp log-neighbor-changes
  no bgp default ipv4-unicast
  neighbor 192.168.26.6 remote-as 101
  neighbor 192.168.27.7 remote-as 102
  !
  address-family ipv4
    neighbor 192.168.26.6 activate
    neighbor 192.168.27.7 activate
    redistribute ospf 1 match internal external 1 external 2
    network 2.2.2.2 mask 255.255.255.255
  exit-address-family
!
router ospf 1
  redistribute bgp 100 subnets
!
end

```

##R09##

```

conf t
!
router bgp 103
  bgp router-id 9.9.9.9
  bgp log-neighbor-changes
  no bgp default ipv4-unicast
  neighbor 8.8.8.8 remote-as 103
  neighbor 8.8.8.8 update-source Loopback 0
  neighbor 10.10.10.10 remote-as 103
  neighbor 10.10.10.10 update-source Loopback 0
  neighbor 11.11.11.11 remote-as 103
  neighbor 11.11.11.11 update-source Loopback 0
  neighbor 192.168.93.13 remote-as 105
  !
  address-family ipv4
    neighbor 8.8.8.8 activate
    neighbor 10.10.10.10 activate
    neighbor 11.11.11.11 activate
    neighbor 8.8.8.8 next-hop-self
    neighbor 10.10.10.10 next-hop-self
    neighbor 11.11.11.11 next-hop-self
    neighbor 192.168.93.13 activate
    network 9.9.9.9 mask 255.255.255.255
  exit-address-family
!
end

```

##R07##

```

conf t
!
router bgp 102
  bgp router-id 7.7.7.7
  bgp log-neighbor-changes
  no bgp default ipv4-unicast
  neighbor 192.168.17.1 remote-as 100
  neighbor 192.168.27.2 remote-as 100
  neighbor 192.168.78.8 remote-as 103
  !
  address-family ipv4
    neighbor 192.168.17.1 activate
    neighbor 192.168.27.2 activate
    neighbor 192.168.78.8 activate
    network 7.7.7.7 mask 255.255.255.255
  exit-address-family
!
end

```

##R08##

```

conf t
!
router bgp 103
  bgp router-id 8.8.8.8
  bgp log-neighbor-changes
  no bgp default ipv4-unicast
  neighbor 9.9.9.9 remote-as 103
  neighbor 9.9.9.9 update-source Loopback 0
  neighbor 10.10.10.10 remote-as 103
  neighbor 10.10.10.10 update-source Loopback 0
  neighbor 11.11.11.11 remote-as 103
  neighbor 11.11.11.11 update-source Loopback 0
  neighbor 192.168.78.7 remote-as 102
  !
  address-family ipv4
    neighbor 9.9.9.9 activate
    neighbor 10.10.10.10 activate
    neighbor 11.11.11.11 activate
    neighbor 9.9.9.9 next-hop-self
    neighbor 10.10.10.10 next-hop-self
    neighbor 11.11.11.11 next-hop-self
    neighbor 192.168.78.7 activate
    network 8.8.8.8 mask 255.255.255.255
  exit-address-family
!
end

```

##R06##

```

conf t
!
router bgp 101
  bgp router-id 6.6.6.6
  bgp log-neighbor-changes
  no bgp default ipv4-unicast
  neighbor 192.168.16.1 remote-as 100
  neighbor 192.168.26.2 remote-as 100
  neighbor 192.168.126.12 remote-as 104
  !
  address-family ipv4
    neighbor 192.168.16.1 activate
    neighbor 192.168.26.2 activate
    neighbor 192.168.126.12 activate
    network 6.6.6.6 mask 255.255.255.255
  exit-address-family
!
end

```

##R10##

```

conf t
!
router bgp 103
  bgp router-id 10.10.10.10
  bgp log-neighbor-changes
  no bgp default ipv4-unicast
  neighbor 8.8.8.8 remote-as 103
  neighbor 8.8.8.8 update-source Loopback 0
  neighbor 9.9.9.9 remote-as 103
  neighbor 9.9.9.9 update-source Loopback 0
  neighbor 11.11.11.11 remote-as 103
  neighbor 11.11.11.11 update-source Loopback 0
!
address-family ipv4
  neighbor 8.8.8.8 activate
  neighbor 9.9.9.9 activate
  neighbor 11.11.11.11 activate
  neighbor 8.8.8.8 next-hop-self
  neighbor 9.9.9.9 next-hop-self
  neighbor 11.11.11.11 next-hop-self
  network 10.10.10.10 mask 255.255.255.255
exit-address-family
!
end

```

##R13##

```

conf t
!
route-map CONNECTED-Lo43-Lo44 permit 10
  match interface Loopback43 Loopback44
!
router bgp 105
  bgp router-id 13.13.13.13
  bgp log-neighbor-changes
  no bgp default ipv4-unicast
  neighbor 192.168.93.9 remote-as 103
  neighbor 192.168.113.11 remote-as 103
  neighbor 192.168.123.12 remote-as 104
!
address-family ipv4
  neighbor 192.168.93.9 activate
  neighbor 192.168.113.11 activate
  neighbor 192.168.123.12 activate
  network 172.16.40.40 mask 255.255.255.255
  network 172.16.41.41 mask 255.255.255.255
  network 172.16.42.42 mask 255.255.255.255
  redistribute connected route-map CONNECTED-Lo43-Lo44
  network 13.13.13.13 mask 255.255.255.255
exit-address-family
!
end

```

##R11##

```

conf t
!
router bgp 103
  bgp router-id 11.11.11.11
  bgp log-neighbor-changes
  no bgp default ipv4-unicast
  neighbor 9.9.9.9 remote-as 103
  neighbor 9.9.9.9 update-source Loopback 0
  neighbor 10.10.10.10 remote-as 103
  neighbor 10.10.10.10 update-source Loopback 0
  neighbor 8.8.8.8 remote-as 103
  neighbor 8.8.8.8 update-source Loopback 0
  neighbor 192.168.113.13 remote-as 105
!
address-family ipv4
  neighbor 9.9.9.9 activate
  neighbor 10.10.10.10 activate
  neighbor 8.8.8.8 activate
  neighbor 9.9.9.9 next-hop-self
  neighbor 10.10.10.10 next-hop-self
  neighbor 8.8.8.8 next-hop-self
  neighbor 192.168.113.13 activate
  network 11.11.11.11 mask 255.255.255.255
exit-address-family
!
end

```

##R12##

```

conf t
!
router bgp 104
  bgp router-id 12.12.12.12
  bgp log-neighbor-changes
  no bgp default ipv4-unicast
  neighbor 192.168.126.6 remote-as 101
  neighbor 192.168.123.13 remote-as 105
!
address-family ipv4
  neighbor 192.168.126.6 activate
  neighbor 192.168.123.13 activate
  network 12.12.12.12 mask 255.255.255.255
exit-address-family
!
end

```