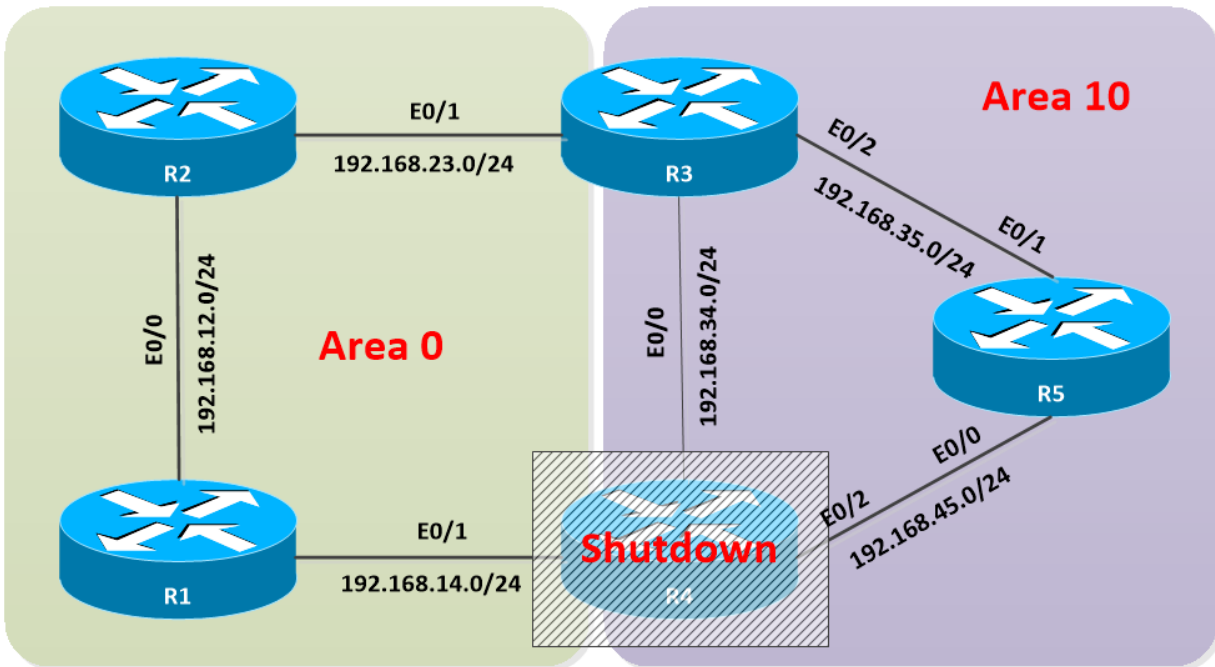


OSPF Stub Router Advertisement and Graceful Restart



Initial Configurations:

R1:

```
!
hostname R1
!
no aaa new-model
no ip icmp rate-limit unreachable
no ip domain lookup
ip cef
no cdp log mismatch duplex
ip tcp synwait-time 5
!
interface Loopback0
ip address 1.1.1.1 255.255.255.255
ip ospf 1 area 0
!
interface Ethernet0/0
ip address 192.168.12.1 255.255.255.0
ip ospf 1 area 0
!
interface Ethernet0/1
```

```
ip address 192.168.14.1 255.255.255.0
ip ospf 1 area 0
!
router ospf 1
router-id 0.0.0.1
!
no ip http server
no ip http secure-server
!
line vty 0 4
exec-timeout 0 0
privilege level 15
logging synchronous
width 180
!
end
```

R2:

```
!
hostname R2
!
```

```

no aaa new-model
no ip icmp rate-limit unreachable
no ip domain lookup
ip cef
no ipv6 cef
no cdp log mismatch duplex
ip tcp synwait-time 5
!
interface Loopback0
ip address 2.2.2.2 255.255.255.255
ip ospf 1 area 0
!
interface Ethernet0/0
ip address 192.168.12.2 255.255.255.0
ip ospf 1 area 0
!
interface Ethernet0/1
ip address 192.168.23.2 255.255.255.0
ip ospf 1 area 0
!
router ospf 1
router-id 0.0.0.2
!
no ip http server
no ip http secure-server
!
line vty 0 4
exec-timeout 0 0
privilege level 15
logging synchronous
width 180
!
end

```

R3:

```

!
hostname R3
!
no aaa new-model
no ip icmp rate-limit unreachable
no ip domain lookup
ip cef
no ipv6 cef
no cdp log mismatch duplex
ip tcp synwait-time 5
!
interface Loopback0
ip address 3.3.3.3 255.255.255.255
ip ospf 1 area 10
!
interface Ethernet0/0
ip address 192.168.34.3 255.255.255.0
ip ospf 1 area 10
!
interface Ethernet0/1
ip address 192.168.23.3 255.255.255.0

```

```

ip ospf 1 area 0
!
interface Ethernet0/2
ip address 192.168.35.3 255.255.255.0
ip ospf 1 area 10
!
router ospf 1
router-id 0.0.0.3
!
no ip http server
no ip http secure-server
!
line vty 0 4
exec-timeout 0 0
privilege level 15
logging synchronous
width 180
!
end

```

R4:

```

!
hostname R4
!
no aaa new-model
no ip icmp rate-limit unreachable
no ip domain lookup
ip cef
no ipv6 cef
no cdp log mismatch duplex
ip tcp synwait-time 5
!
interface Loopback0
ip address 4.4.4.4 255.255.255.255
ip ospf 1 area 10
!
interface Ethernet0/0
ip address 192.168.34.4 255.255.255.0
ip ospf 1 area 10
!
interface Ethernet0/1
ip address 192.168.14.4 255.255.255.0
ip ospf 1 area 0
!
interface Ethernet0/2
ip address 192.168.45.4 255.255.255.0
ip ospf 1 area 10
!
router ospf 1
router-id 0.0.0.4
max-metric router-lsa on-startup 300
!
no ip http server
no ip http secure-server
!
line vty 0 4

```

```
exec-timeout 0 0
privilege level 15
logging synchronous
width 180
!
end
```

R5:

```
!
hostname R5
!
no aaa new-model
no ip icmp rate-limit unreachable
no ip domain lookup
ip cef
no ipv6 cef
no cdp log mismatch duplex
ip tcp synwait-time 5
!
interface Loopback0
ip address 5.5.5.5 255.255.255.255
ip ospf 1 area 10
!
interface Ethernet0/0
ip address 192.168.45.5 255.255.255.0
ip ospf 1 area 10
!
interface Ethernet0/1
ip address 192.168.35.5 255.255.255.0
ip ospf 1 area 10
!
router ospf 1
router-id 0.0.0.5
!
no ip http server
no ip http secure-server
!
line vty 0 4
exec-timeout 0 0
privilege level 15
logging synchronous
width 180
!
end
```