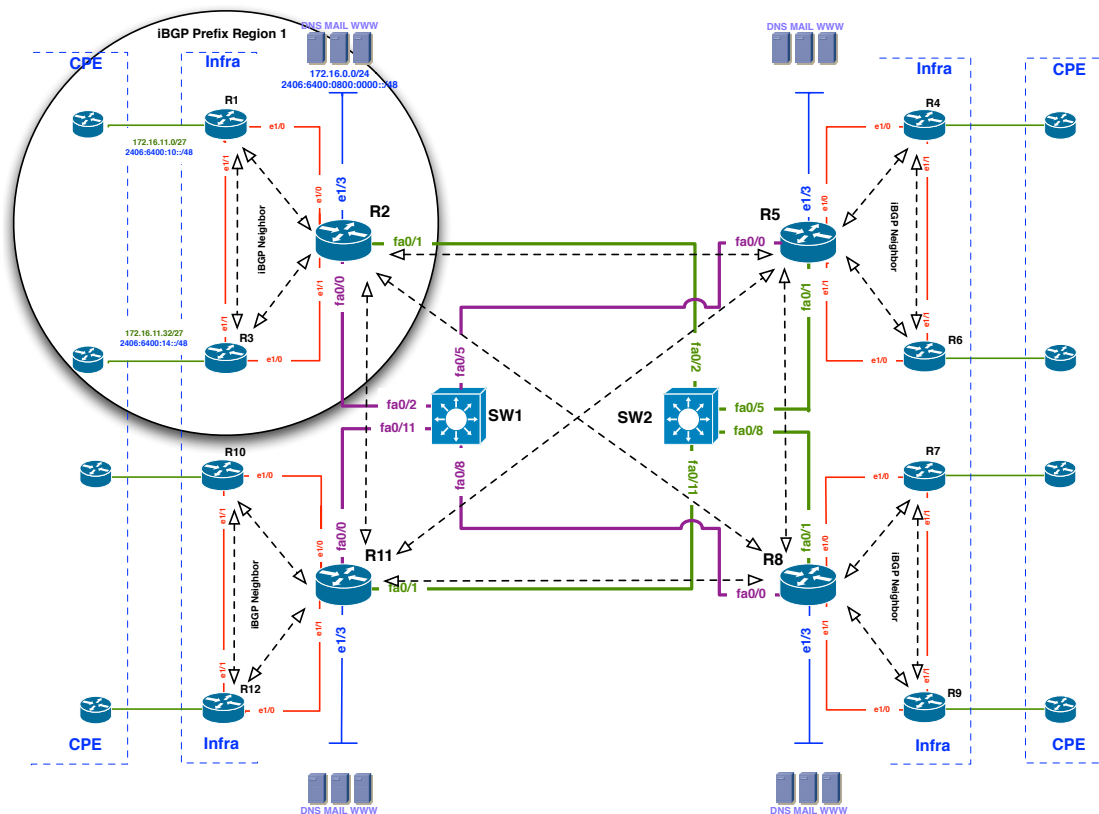


Prefix Announcement/Advertisement from Region 1:



IPv4 Prefix Announcement on Router1:

```

config t
router bgp 17821
address-family ipv4
network 172.16.11.0 mask 255.255.255.224
exit
exit
ip route 172.16.11.0 255.255.255.224 null 0 permanent
exit
wr
  
```

Verify IPv4 Route Advertisement:

```

sh bgp ipv4 unicast neighbors [router 1.....router12 loopback] advertised-
routes
sh bgp ipv4 unicast neighbors [router 1.....router12 loopback] received-
routes/routes
sh ip route [R2, R5, R8, R11 datacenter & R1, R3, R4, R6, R7, R9, R10, R12
CS WAN Link prefix]
  
```

IPv6 Prefix Announcement on Router1:

```
config t
router bgp 17821
address-family ipv6
network 2406:6400:0010:0000::/48
exit
exit
ipv6 route 2406:6400:0010:0000::/48 null 0
exit
wr
```

Verify IPv6 Route Advertisement:

```
sh bgp ipv6 unicast neighbors [router 1.....router12 loopback] advertised-
routes
sh bgp ipv6 unicast neighbors [router 1.....router12 loopback] received-
routes/routes
sh ipv6 route [R2, R5, R8, R11 datacenter & R1, R3, R4, R6, R7, R9, R10,
R12 CS WAN Link prefix]
```

IPv4 Prefix Announcement on Router2:

```
config t
router bgp 17821
address-family ipv4
network 172.16.0.0 mask 255.255.255.0
exit
exit
ip route 172.16.0.0 255.255.255.0 null 0 permanent
exit
wr
```

Verify IPv4 Route Advertisement:

```
sh bgp ipv4 unicast neighbors [router 1.....router12 loopback] advertised-
routes
sh bgp ipv4 unicast neighbors [router 1.....router12 loopback] received-
routes/routes
sh ip route [R2, R5, R8, R11 datacenter & R1, R3, R4, R6, R7, R9, R10, R12
CS WAN Link prefix]
```

IPv6 Prefix Announcement on Router2:

```
config t
router bgp 17821
address-family ipv6
network 2406:6400:0800:0000::/48
exit
exit
ipv6 route 2406:6400:0800:0000::/48 null 0
exit
wr
```

Verify IPv6 Route Advertisement:

```
sh bgp ipv6 unicast neighbors [router 1.....router12 loopback] advertised-
routes
sh bgp ipv6 unicast neighbors [router 1.....router12 loopback] received-
routes/routes
sh ipv6 route [R2, R5, R8, R11 datacenter & R1, R3, R4, R6, R7, R9, R10,
R12 CS WAN Link prefix]
```

IPv4 Prefix Announcement on Router3:

```
config t
router bgp 17821
address-family ipv4
network 172.16.11.32 mask 255.255.255.224
exit
exit
ip route 172.16.11.32 255.255.255.224 null 0 permanent
exit
wr
```

Verify IPv4 Route Advertisement:

```
sh bgp ipv4 unicast neighbors [router 1.....router12 loopback] advertised-
routes
sh bgp ipv4 unicast neighbors [router 1.....router12 loopback] received-
routes/routes
sh ip route [R2, R5, R8, R11 datacenter & R1, R3, R4, R6, R7, R9, R10, R12
CS WAN Link prefix]
```

IPv6 Prefix Announcement on Router3:

```
config t
router bgp 17821
address-family ipv6
network 2406:6400:0014:0000::/48
exit
exit
ipv6 route 2406:6400:0014:0000::/48 null 0
exit
wr
```

Verify IPv6 Route Advertisement:

```
sh bgp ipv6 unicast neighbors [router 1.....router12 loopback] advertised-
routes
sh bgp ipv6 unicast neighbors [router 1.....router12 loopback] received-
routes/routes
sh ipv6 route [R2, R5, R8, R11 datacenter & R1, R3, R4, R6, R7, R9, R10,
R12 CS WAN Link prefix]
```