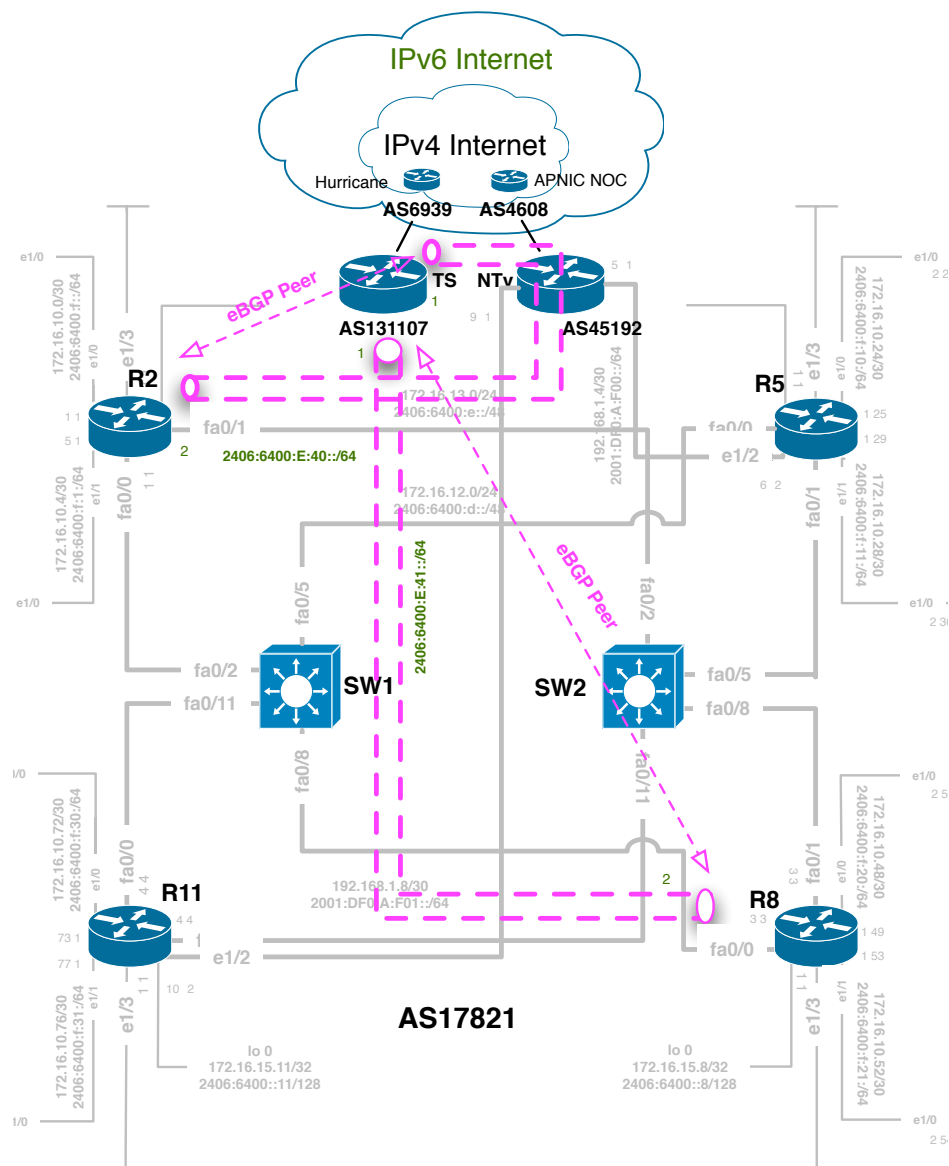


Tunnel Transit Service WAN Interface Conf Region 1:



IPV6 Tunnel Interface conf Router1:

No configuration required

Wait for R2 & R8 to finish configuration then perform following verification to analyze network effect.

Verify Configuration:

```
ping 2406:6400:e:42::1      [...]
ping 2406:6400:e:43::1      [...]
```

IPv6 Tunnel Interface conf Router2:

```
config t
interface Tunnel0
tunnel source 172.16.15.2
tunnel destination 192.168.1.1
tunnel mode ipv6ip
ipv6 address 2406:6400:E:42::2/64
ipv6 enable
exit
exit
wr
```

Verify Configuration:

```
ping 2406:6400:e:42::1          [!!!!]
```

IPv6 Tunnel Interface conf Router3:

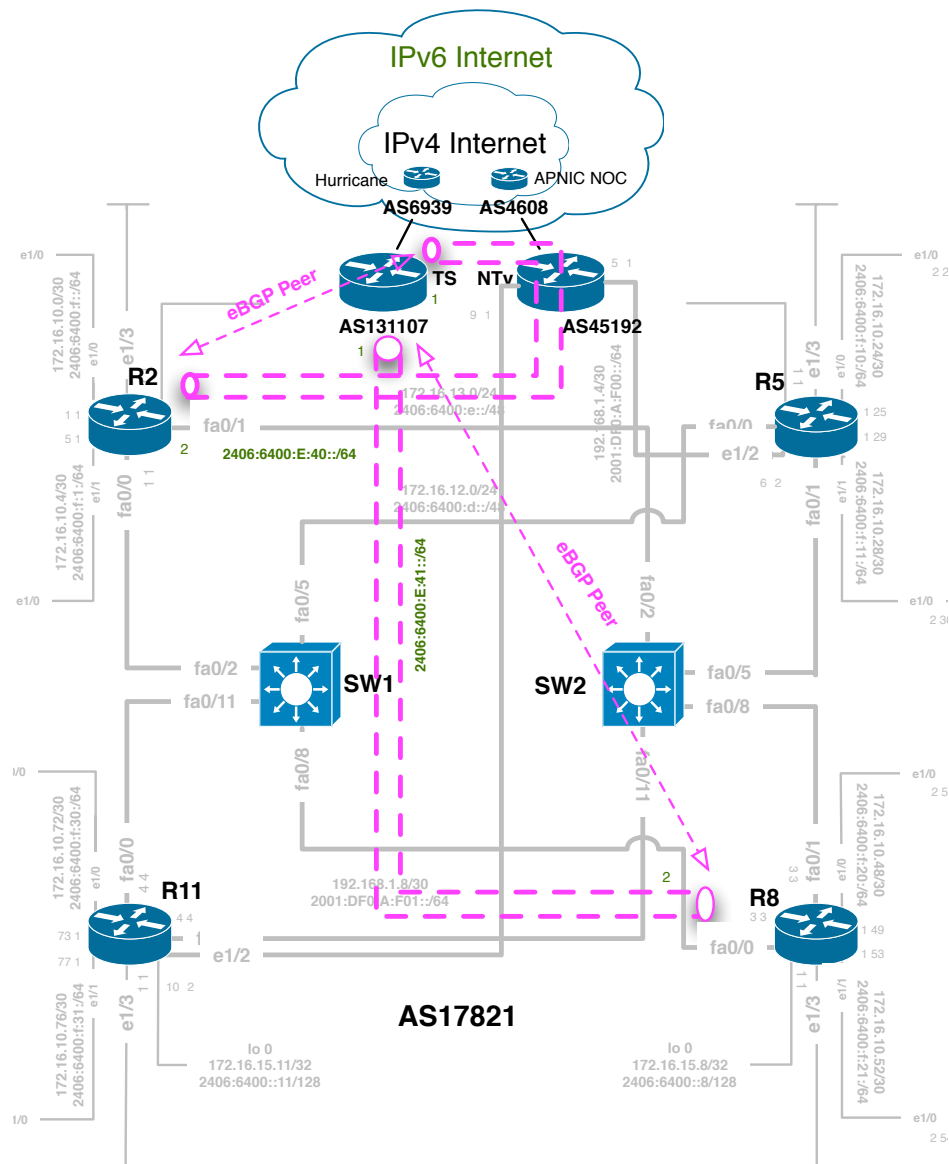
No configuration required

Wait for R2 & R8 to finish configuration then perform following verification to analyze network effect.

Verify Configuration:

```
ping 2406:6400:e:42::1          [...]
ping 2406:6400:e:43::1          [...]
```

Tunnel Transit Service eBGP Conf Region 1:



IPv6 Tunnel eBGP Peering conf Router1:

No configuration required

Wait for R2 & R8 to finish configuration then perform following verification to analyze network effect.

Verify Configuration:

```
sh bgp ipv6 unicast summary      [Number of prefixes received from peers]
sh bgp ipv6 unicast             [Any new prefix?]
sh ipv6 route bgp               [Any new prefix?]
sh bgp ipv6 unicast neighbors   [Regional core Router] received-routes/routes
sh ip route
```

```
ping 2001:df0:a:f02::1          [!!!!]
ping 2001:df0:a:f03::1          [!!!!]
```

IPv6 Tunnel eBGP Peering conf Router2:

```
config t
router bgp 17821
address-family ipv6
neighbor 2406:6400:e:42::1 remote-as 23456
neighbor 2406:6400:e:42::1 activate
exit
exit
exit
wr
```

STOP AND WAIT FOR INSTRUCTOR'S EXPLANATION

IPv6 Tunnel eBGP Nexthop conf Router2:

```
config t
router bgp 17821
address-family ipv6
neighbor IPV6-iBGP-REG1 next-hop-self
neighbor IPV6-iBGP-TRCORE next-hop-self
exit
exit
exit
wr
```

STOP AND WAIT FOR INSTRUCTOR'S EXPLANATION

IPv6 Tunnel eBGP prefix announcement conf Router2:

```
config t
router bgp 17821
address-family ipv6
aggregate-address 2406:6400::/32
exit
exit
exit
wr
```

Verify Configuration:

```
sh bgp ipv6 unicast summary      [Number of prefixes received from peers]
sh bgp ipv6 unicast              [Any new prefix?]
sh ipv6 route bgp                [Any new prefix?]
sh bgp ipv6 unicast neighbors [Regional core Router] received-routes/routes
sh ip route
ping 2001:df0:a:f02::1          [!!!!]
ping 2001:df0:a:f03::1          [!!!!]
```

IPv6 Tunnel eBGP Peering conf Router3:

No configuration required

Wait for R2 & R8 to finish configuration then perform following verification to analyze network effect.

Verify Configuration:

```
sh bgp ipv6 unicast summary      [Number of prefixes received from peers]
sh bgp ipv6 unicast              [Any new prefix?]
sh ipv6 route bgp                [Any new prefix?]
sh bgp ipv6 unicast neighbors [Regional core Router] received-routes/routes
sh ip route
ping 2001:df0:a:f02::1          [!!!!]
ping 2001:df0:a:f03::1          [!!!!]
```