

```
hostname R2
log syslog informational
service integrated-vtysh-config

!
ip route 203.0.113.0/24 Null0
ipv6 route 2001:db8:6520::/48 Null0
!

interface eth0
    description "Router 2 interface to R1 and R3"
    ip address 192.0.2.2/24
    ipv6 address 2001:db8::192:0:2:2/64
exit
!

router bgp 65200
    bgp router-id 192.0.2.2

    !
    ! -----
    ! IPv4/IPv6 Peer to Router 1
    ! -----
    neighbor 192.0.2.1 remote-as 65100
    neighbor 192.0.2.1 description "Router 1 IPv4 Peer"

    neighbor 2001:db8::192:0:2:1 remote-as 65100
    neighbor 2001:db8::192:0:2:1 description "Router 1 IPv6 Peer"

    !
    ! -----
    ! IPv4/IPv6 Peer to Router 3
    ! -----
    neighbor 192.0.2.254 remote-as 65300
    neighbor 192.0.2.254 description "Router 3 IPv4 Peer"

    neighbor 2001:db8::192:0:2:254 remote-as 65300
    neighbor 2001:db8::192:0:2:254 description "Router 3 IPv6 Peer"

    !
    ! -----
    ! Address-Family: IPv4
    ! -----
    address-family ipv4 unicast

        network 203.0.113.0/24

    ! R1 IPv4 peering
    neighbor 192.0.2.1 activate
```

```
neighbor 192.0.2.1 soft-reconfiguration inbound
neighbor 192.0.2.1 prefix-list FROM-R1-IPV4 in
```

```
! R3 IPv4 peering
neighbor 192.0.2.254 activate
neighbor 192.0.2.254 soft-reconfiguration inbound
neighbor 192.0.2.254 prefix-list FROM-R3-IPV4 in
```

```
exit-address-family
```

```
!
! -----
! Address-Family: IPv6
! -----
address-family ipv6 unicast
```

```
network 2001:db8:6520::/48
```

```
! R1 IPv6 peering
neighbor 2001:db8::192:0:2:1 activate
neighbor 2001:db8::192:0:2:1 soft-reconfiguration inbound
neighbor 2001:db8::192:0:2:1 prefix-list FROM-R1-IPV6 in
```

```
! R3 IPv6 peering
neighbor 2001:db8::192:0:2:254 activate
neighbor 2001:db8::192:0:2:254 soft-reconfiguration inbound
neighbor 2001:db8::192:0:2:254 prefix-list FROM-R3-IPV6 in
```

```
exit-address-family
```

```
exit
```

```
!
```

```
! -----
! Prefix Lists for Router 1
! -----
```

```
ip prefix-list FROM-R1-IPV4 seq 10 permit 198.51.100.0/24
ip prefix-list FROM-R1-IPV4 seq 20 permit 0.0.0.0/0
```

```
ipv6 prefix-list FROM-R1-IPV6 seq 10 permit 2001:db8:6510::/48
ipv6 prefix-list FROM-R1-IPV6 seq 20 permit ::/0
```

```
! -----
! Prefix Lists for Router 3
! -----
```

```
ip prefix-list FROM-R3-IPV4 seq 10 permit 0.0.0.0/0
ip prefix-list FROM-R3-IPV4 seq 20 permit 192.168.0.0/23
```

```
ipv6 prefix-list FROM-R3-IPV6 seq 10 permit ::/0
```

```
ipv6 prefix-list FROM-R3-IPV6 seq 20 permit 2001:db8:6530::/48
```

```
end
```