



## Internet Exchange Workshop Lab

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### R16 Configuration

#### Interface Configuration

```
config t
interface Ethernet1/1
description IX Router
no ip redirects
no ip unreachable
no clns route-cache
ip address 203.176.189.16 255.255.255.0
ipv6 address 2001:0df0:000a:0001::16/64
duplex full
no shut
!
exit
exit
wr
```

#### eBGP Configuration

```

config t
!
router bgp 135536
! Not enforce that the first ASN in the AS path matches the peering ASN
no bgp enforce-first-as
neighbor IPV4-eBGP-IX peer-group
neighbor IPV6-eBGP-IX peer-group
!
address-family ipv4
neighbor 203.176.189.240 remote-as 135541
neighbor 203.176.189.240 peer-group IPV4-eBGP-IX
neighbor 203.176.189.240 activate
exit-address-family
!
address-family ipv6
neighbor 2001:0df0:000a:0001::240 remote-as 135541
neighbor 2001:0df0:000a:0001::240 peer-group IPV6-eBGP-IX
neighbor 2001:0df0:000a:0001::240 activate
!
exit
exit
exit
wr

```

## Prefix Filter

```

config t
!
ip prefix-list ANNOUNCE-PREFIX-IPv4 seq 5 permit 172.16.22.0/23 le 24
ip prefix-list ANNOUNCE-PREFIX-IPv4 seq 100 deny 0.0.0.0/0 le 32
!
ipv6 prefix-list ANNOUNCE-PREFIX-IPv6 seq 5 permit 2406:6400:b800::/48
ipv6 prefix-list ANNOUNCE-PREFIX-IPv6 seq 100 deny ::/0 le 48
!
router bgp 135536
address-family ipv4
neighbor IPV4-eBGP-IX prefix-list ANNOUNCE-PREFIX-IPv4 out
neighbor IPV4-eBGP-UPSTREAM prefix-list ANNOUNCE-PREFIX-IPv4 out
exit-address-family
!
address-family ipv6
neighbor IPV6-eBGP-IX prefix-list ANNOUNCE-PREFIX-IPv6 out
neighbor IPV6-eBGP-UPSTREAM prefix-list ANNOUNCE-PREFIX-IPv6 out

```

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