

## AS-PATH-PREPEND LAB

=====  
**R18 v4**  
=====

```
config t
ip prefix-list V4-PREFIX-VIA-TRANSIT permit 172.16.26.0/24
ip prefix-list V4-PREFIX-VIA-PEERING permit 172.16.27.0/24

route-map SET-AS-PATH-IPV4-IXP permit 10
  match ip address prefix-list V4-PREFIX-VIA-TRANSIT
  set as-path prepend 65006 65006 65006
route-map SET-AS-PATH-IPV4-IXP permit 20
  exit

route-map SET-AS-PATH-IPV4-TRANSIT permit 10
  match ip address prefix-list V4-PREFIX-VIA-PEERING
  set as-path prepend 65006 65006 65006
route-map SET-AS-PATH-IPV4-TRANSIT permit 20

router bgp 65006
  address-family ipv4
  neighbor 10.10.10.21 route-map SET-AS-PATH-IPV4-IXP out
  neighbor 172.16.11.161 route-map SET-AS-PATH-IPV4-TRANSIT out
  exit
exit

clear bgp ipv4 unicast * soft out
```

=====  
**R18 v6**  
=====

```
config t
ipv6 prefix-list V6-PREFIX-VIA-TRANSIT permit 2406:6400:D800::/48
ipv6 prefix-list V6-PREFIX-VIA-PEERING permit 2406:6400:D801::/48

route-map SET-AS-PATH-IPV6-IXP permit 10
  match ipv6 address prefix-list V6-PREFIX-VIA-TRANSIT
  set as-path prepend 65006 65006 65006
route-map SET-AS-PATH-IPV6-IXP permit 20
  exit

route-map SET-AS-PATH-IPV6-TRANSIT permit 10
  match ipv6 address prefix-list V6-PREFIX-VIA-PEERING
  set as-path prepend 65006 65006 65006
route-map SET-AS-PATH-IPV6-TRANSIT permit 20

router bgp 65006
  address-family ipv6
  neighbor 2406:6400:24::1 route-map SET-AS-PATH-IPV6-TRANSIT out
  neighbor 2001:Db8:ABCD:18::1 route-map SET-AS-PATH-IPV6-IXP out
```

```
exit  
exit
```

```
clear bgp ipv4 unicast * soft out
```