

Local Preference Lab

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R1

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```
config t
ip prefix-list AS65001-PREF-TRANSIT seq 5 permit 172.16.16.0/24
ip prefix-list AS65001-PREF-IX seq 5 permit 172.16.17.0/24

route-map V4-SET-LOCAL-PREF permit 10
match ip address prefix-list AS65001-PREF-TRANS
set local-preference 200

route-map V4-SET-LOCAL-PREF permit 20
match ip address prefix-list AS65001-PREF-IX
set local-preference 50

route-map SET-LOCAL-PREF permit 30
exit

router bgp 17821
address-family ipv4
neighbor 172.16.11.2 route-map V4-SET-LOCAL-PREF in
exit
exit
wr
wr

clear bgp ipv4 unicast * soft in
```

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R1

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```
conf t
ipv6 prefix-list AS65001-V6-PREF-TRANS seq 5 permit 2406:6400:8000::/48
ipv6 prefix-list AS65001-V6-PREF-IX seq 5 permit 2406:6400:8001::/48

route-map V6-SET-LOCAL-PREF permit 10
match ipv6 address prefix-list AS65001-V6-PREF-TRANS
set local-preference 200

route-map V6-SET-LOCAL-PREF permit 20
match ipv6 address prefix-list AS65001-V6-PREF-IX
set local-preference 50

route-map V6-SET-LOCAL-PREF permit 30
exit

router bgp 17821
address-family ipv6
neighbor 2406:6400:10::2 route-map V6-SET-LOCAL-PREF in
exit
```

```
exit

clear bgp ipv6 unicast * soft in

wr
```

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R8
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```
config t
ip prefix-list V4-IXP-PREFIX permit 172.16.16.0/20 le 24

route-map V4-SET-LOCAL-PREF permit 10
match ip address prefix-list V4-IXP-PREFIX
set local-preference 150

route-map V4-SET-LOCAL-PREF permit 20
exit

router bgp 17821
address-family ipv4
neighbor 10.10.10.33 route-map V4-SET-LOCAL-PREF in
exit
exit
wr

clear bgp ipv4 unicast * soft in
```

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R8
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```

```
config t
ipv6 prefix-list V6-IXP-PREFIX permit 2406:6400:8000::/33 le 48

route-map V6-SET-LOCAL-PREF permit 10
match ipv6 address prefix-list V6-IXP-PREFIX
set local-preference 150

route-map V6-SET-LOCAL-PREF permit 20
exit

router bgp 17821
address-family ipv6
neighbor 2001:DB8:ABCD:8:1 route-map V6-SET-LOCAL-PREF in
exit
exit
wr
```

```
clear bgp ipv6 unicast * soft in
```