

//  
//

# CONFIG

//  
//

## SITE-POD-01

iBGP - ASN - 65001

VLAN 10 - vrf tenant-1 member vni 10010

VLAN 11 - vrf tenant-1

ip add 192.168.11.0 /24

VLAN 12 - vrf tenant-1

ip add 192.168.12.0 /24

VLAN 20 vrf tenant-2 member vni 20020

VLAN 21 - vrf tenant-2

ip add 192.168.21.0 /24

VLAN 22 - vrf tenant-2

ip add 192.168.22.0 /24

//

### **DO APPLY TO ALL DEVICES!**

//

system jumbomtu 9216

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#### **LEAFs**

license grace-period

feature privilege

feature telnet

feature vrrp

feature ospf

feature bgp

feature pim

feature private-vlan

feature interface-vlan

feature vn-segment-vlan-based  
feature glbp  
feature dhcp  
feature tunnel  
feature vpc  
feature lldp  
feature vtp  
feature bfd  
feature nv overlay  
feature vni

install feature-set fabric  
install feature-set fabricpath

feature-set fabric  
feature-set fabricpath  
feature fabric forwarding

nv overlay evpn

---

## **SPINEs**

feature-set mpls

feature privilege  
feature telnet  
feature vrrp  
feature tacacs+  
nv overlay evpn  
feature ospf  
feature bgp  
feature pim  
feature eigrp  
feature isis  
feature fabric forwarding  
feature private-vlan  
feature port-security  
feature interface-vlan  
feature vn-segment-vlan-based  
feature dhcp  
feature vpc  
feature lldp  
feature vtp  
feature bfd  
feature nv overlay



```
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
int eth 1/20
description Linka k LEAF-20-POD-01
mtu 9216
no switchport
ip add 10.1.20.1 255.255.255.252
ip ospf network point-to-point
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
int loopback 0
description Loopback pre OSPF RID
ip add 1.1.1.1/32 tag 54321
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
int loopback 1
description Loopback pre VTEP PIP
ip add 1.1.1.10/32 tag 54321
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
int loopback 254
description Loopback pre PIM
ip add 10.254.254.254/32
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
ip pim rp-address 10.254.254.254 group-list 239.239.239.0 /24
ip pim anycast-rp 10.254.254.254 1.1.1.1
ip pim anycast-rp 10.254.254.254 1.1.2.1
```

```
router bgp 65001
router-id 1.1.1.1
neighbor 1.1.10.2
remote-as 65001
update-source loopback0
address-family l2vpn evpn
send-community
send-community extended
```

```
                route-reflector-client
neighbor 1.1.20.2
    remote-as 65001
    update-source loopback0
    address-family l2vpn evpn
        send-community
        send-community extended
    route-reflector-client
```

---

```
evpn multisite border-gateway 100
    delay-restore time 30
```

```
interface e1/1
    description Linka k PE-1-WAN-ISP-I
    mtu 9216
    ip add 172.16.1.1 255.255.255.252 tag 54321
    no shutdown
    evpn multisite dci-tracking
```

```
interface e1/2
    description Linka k PE-2-WAN-ISP-II
    mtu 9216
    ip add 172.16.2.1 255.255.255.252 tag 54321
    no shutdown
    evpn multisite dci-tracking
```

```
int e1/30
    description Linka k SPINE-02-POD-01
    mtu 9216
    ip add 172.17.1.1/30 tag 54321
    ip ospf network point-to-point
    ip router ospf 110 area 0.0.0.0
    ip pim sparse-mode
    no shutdown
    evpn multisite fabric-tracking
```

```
int loopback 100
    description Loopback pre VTEP
    ip add 1.1.1.100/32 tag 54321
    ip router ospf 110 area 0.0.0.0
    ip pim sparse-mode
```

```
vlan 10
```

```
name tenant-1
vn-segment 10010
```

```
vlan 20
name tenant-2
vn-segment 20020
```

```
vlan 11
vn-segment 10011
```

```
vlan 12
vn-segment 10012
```

```
vlan 21
vn-segment 20021
```

```
vlan 22
vn-segment 20022
```

```
route-map SITE-REDIST-DIRECT-CONN permit 100
match tag 54321
```

```
vrf context tenant-1
vni 10010
rd auto
address-family ipv4 unicast
route-target both auto
route-target both auto evpn
```

```
vrf context tenant-2
vni 20020
rd auto
address-family ipv4 unicast
route-target both auto
route-target both auto evpn
```

```
int vlan 10
description tenant-1-VRF-VLAN
no shutdown
mtu 9216
vrf member tenant-1
ip forward
```

```
int vlan 20
```

```
description tenant-2-VRF-VLAN
no shutdown
mtu 9216
vrf member tenant-2
ip forward
```

```
int nve 1
no shut
host-reachability protocol bgp
source-interface loopback 1
multisite border-gateway interface loopback 100
member vni 10011
    multisite ingress-replication
    mcast-group 239.0.0.11
    suppress-arp
member vni 10012
    multisite ingress-replication
    mcast-group 239.0.0.12
    suppress-arp
member vni 20021
    multisite ingress-replication
    mcast-group 239.0.0.21
    suppress-arp
member vni 20022
    multisite ingress-replication
    mcast-group 239.0.0.22
    suppress-arp
member vni 10010 associate-vrf
member vni 20020 associate-vrf
```

```
router bgp 65001
address-family ipv4 unicast
    redistribute direct route-map SITE-REDIST-DIRECT-CONN
    maximum-paths 4
neighbor 1.1.2.1
    remote-as 65001
    update-source loopback 0
    address-family l2vpn evpn
        send-community
        send-community extended
neighbor 1.1.200.100 ( PE-1 )
    remote-as 65535
    update-source loopback 0
    peer-type fabric-external
```

```

        address-family l2vpn evpn
            send-community
            send-community extended
            rewrite-evpn-rt-asn
neighbor 1.1.200.200 ( PE-2 )
    remote-as 65535
    update-source loopback 0
    peer-type fabric-external
    address-family l2vpn evpn
        send-community
        send-community extended
        rewrite-evpn-rt-asn
neighbor 172.16.1.2
    remote-as 65535
    update-source eth1/1
    address-family ipv4 unicast
neighbor 172.16.2.2
    remote-as 65535
    update-source eth1/2
    address-family ipv4 unicast
```

evpn

```

vni 10011 l2
    rd auto
    route-target import auto
    route-target export auto
vni 10012 l2
    rd auto
    route-target import auto
    route-target export auto
vni 20021 l2
    rd auto
    route-target import auto
    route-target export auto
vni 20022 l2
    rd auto
    route-target import auto
    route-target export auto
```

```

//////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
SPINE-02-POD-01
```

```
hostname SPINE-02-POD-01
```





```
ip pim sparse-mode
no shutdown
```

```
int loopback 0
description Loopback pre OSPF RID
ip add 1.1.2.1/32 tag 54321
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
int loopback 1
description Loopback pre VTEP PIP
ip add 1.1.2.10/32 tag 54321
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
int loopback 254
description Loopback pre PIM
ip add 10.254.254.254/32
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
ip pim rp-address 10.254.254.254 group-list 239.239.239.0 /24
ip pim anycast-rp 10.254.254.254 1.1.1.1
ip pim anycast-rp 10.254.254.254 1.1.2.1
```

```
router bgp 65001
router-id 1.1.2.1
neighbor 1.2.10.2
    remote-as 65001
    update-source loopback0
    address-family l2vpn evpn
        send-community
        send-community extended
        route-reflector-client
neighbor 1.2.20.2
    remote-as 65001
    update-source loopback0
    address-family l2vpn evpn
        send-community
        send-community extended
        route-reflector-client
```

---

```
evpn multisite border-gateway 100
```

delay-restore time 30

```
interface e1/1
  description Linka k PE-1-WAN-ISP-I
  mtu 9216
  ip add 172.16.1.5 255.255.255.252 tag 54321
  no shutdown
  evpn multisite dci-tracking
```

```
interface e1/2
  description Linka k PE-2-WAN-ISP-II
  mtu 9216
  ip add 172.16.2.5 255.255.255.252 tag 54321
  no shutdown
  evpn multisite dci-tracking
```

```
int e1/30
  description Linka k SPINE-01-POD-01
  mtu 9216
  ip add 172.17.1.2/30 tag 54321
  ip ospf network point-to-point
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode
  no shutdown
  evpn multisite fabric-tracking
```

```
int loopback 100
  description Loopback pre VTEP
  ip add 1.1.2.100/32 tag 54321
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode
```

```
vlan 10
  name tenant-1
  vn-segment 10010
```

```
vlan 20
  name tenant-2
  vn-segment 20020
```

```
vlan 11
  vn-segment 10011
```

```
vlan 12
```

```
vn-segment 10012

vlan 21
  vn-segment 20021

vlan 22
  vn-segment 20022

route-map SITE-REDIST-DIRECT-CONN permit 100
  match tag 54321

vrf context tenant-1
  vni 10010
  rd auto
  address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn

vrf context tenant-2
  vni 20020
  rd auto
  address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn

int vlan 10
  description tenant-1-VRF-VLAN
  no shutdown
  mtu 9216
  vrf member tenant-1
  ip forward

int vlan 20
  description tenant-2-VRF-VLAN
  no shutdown
  mtu 9216
  vrf member tenant-2
  ip forward

int nve 1
  no shut
  host-reachability protocol bgp
  source-interface loopback 1
  multisite border-gateway interface loopback 100
```

```
member vni 10011
    multisite ingress-replication
    mcast-group 239.0.0.11
    suppress-arp
member vni 10012
    multisite ingress-replication
    mcast-group 239.0.0.12
    suppress-arp
member vni 20021
    multisite ingress-replication
    mcast-group 239.0.0.21
    suppress-arp
member vni 20022
    multisite ingress-replication
    mcast-group 239.0.0.22
    suppress-arp
member vni 10010 associate-vrf
member vni 20020 associate-vrf
```

```
router bgp 65001
    address-family ipv4 unicast
        redistribute direct route-map SITE-REDIST-DIRECT-CONN
        maximum-paths 4
    neighbor 1.1.1.1
        remote-as 65001
        update-source loopback 0
        address-family l2vpn evpn
            send-community
            send-community extended
    neighbor 1.1.200.100 ( PE-1 )
        remote-as 65535
        update-source loopback 0
        peer-type fabric-external
        address-family l2vpn evpn
            send-community
            send-community extended
            rewrite-evpn-rt-asn
    neighbor 1.1.200.200 ( PE-2 )
        remote-as 65535
        update-source loopback 0
        peer-type fabric-external
        address-family l2vpn evpn
            send-community
            send-community extended
```



```
ip add 10.254.254.254/32
```

```
int eth2/1  
ip add 10.1.10.2 255.255.255.252
```

```
int eth2/2  
ip add 10.2.10.2 255.255.255.252
```

```
int vlan 11  
ip add 192.168.11.1 255.255.255.0
```

```
int vlan 12  
ip add 192.168.12.1 255.255.255.0
```

```
int vlan 21  
ip add 192.168.21.1 255.255.255.0
```

```
int vlan 22  
ip add 192.168.22.1 255.255.255.0
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

```
router ospf 110  
  router-id 1.1.10.1  
  log-adjacency-changes detail
```

```
int eth 2/1  
  description Linka k SPINE-01-POD-01  
  mtu 9216  
  ip add 10.1.10.2 255.255.255.252  
  ip ospf network point-to-point  
  ip router ospf 110 area 0.0.0.0  
  ip pim sparse-mode  
  no shutdown
```

```
int eth 2/2  
  description Linka k SPINE-02-POD-01  
  mtu 9216  
  ip add 10.2.10.2 255.255.255.252  
  ip ospf network point-to-point  
  ip router ospf 110 area 0.0.0.0  
  ip pim sparse-mode  
  no shutdown
```

```
int loopback 0
  description Loopback pre OSPF RID
  ip add 1.1.10.1/32
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode
```

```
int loopback 1
  description Loopback pre VTEP PIP
  ip add 1.1.10.10/32
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode
```

```
int loopback 254
  description Loopback for PIM
  ip add 10.254.254.254/32
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode
```

```
ip pim rp-address 10.254.254.254 group-list 239.239.239.0 /24
```

```
vlan 10
  name tenant-1
  vn-segment 10010
```

```
vlan 20
  name tenant-2
  vn-segment 20020
```

```
vlan 11
  vn-segment 10011
```

```
vlan 12
  vn-segment 10012
```

```
vlan 21
  vn-segment 20021
```

```
vlan 22
  vn-segment 20022
```

```
vrf context tenant-1
  vni 10010
  rd auto
  address-family ipv4 unicast
```



```
route-target both auto
route-target both auto evpn
```

```
vrf context tenant-2
  vni 20020
  rd auto
  address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn
```

```
fabric forwarding anycast-gateway-mac eeee.eeee.eeee
```

```
int vlan 10
  description tenant-1-VRF-VLAN
  no shutdown
  mtu 9216
  vrf member tenant-1
  ip forward
```

```
int vlan 11
  no shut
  vrf member tenant-1
  ip add 192.168.11.1/24 tag 101112
  fabric forwarding mode anycast-gateway
```

```
int vlan 12
  no shut
  vrf member tenant-1
  ip add 192.168.12.1/24 tag 101112
  fabric forwarding mode anycast-gateway
```

```
int vlan 20
  description tenant-2-VRF-VLAN
  no shutdown
  mtu 9216
  vrf member tenant-2
  ip forward
```

```
int vlan 21
  no shut
  vrf member tenant-2
  ip add 192.168.21.1/24 tag 202122
  fabric forwarding mode anycast-gateway
```

```
int vlan 22
  no shut
  vrf member tenant-2
  ip add 192.168.22.1/24 tag 202122
  fabric forwarding mode anycast-gateway
```

```
int nve 1
  no shut
  host-reachability protocol bgp
  source-interface loopback 1
  member vni 10011
    mcast-group 239.0.0.11
    suppress-arp
  member vni 10012
    mcast-group 239.0.0.12
    suppress-arp
  member vni 20021
    mcast-group 239.0.0.21
    suppress-arp
  member vni 20022
    mcast-group 239.0.0.22
    suppress-arp
  member vni 10010 associate-vrf
  member vni 20020 associate-vrf
```

```
route-map FABRIC_REDIST_SUBNET_TEN-1 permit 10
  match tag 101112
```

```
route-map FABRIC_REDIST_SUBNET_TEN-2 permit 20
  match tag 202122
```

```
router bgp 65001
  router-id 1.1.10.1
  neighbor 1.1.1.1
    remote-as 65001
    update-source loopback 0
    address-family l2vpn evpn
      send-community
      send-community extended
  neighbor 1.1.2.1
    remote-as 65001
    update-source loopback 0
    address-family l2vpn evpn
      send-community
```

```
send-community extended
vrf tenant-1
  address-family ipv4 unicast
  advertise l2vpn evpn
  redistribute direct route-map FABRIC_REDIST_SUBNET_TEN-1
  maximum-paths ibgp 4
```

```
vrf tenant-2
  address-family ipv4 unicast
  advertise l2vpn evpn
  redistribute direct route-map FABRIC_REDIST_SUBNET_TEN-2
  maximum-paths ibgp 4
```

evpn

```
vni 10011 I2
  rd auto
  route-target import auto
  route-target export auto
```

```
vni 10012 I2
  rd auto
  route-target import auto
  route-target export auto
```

```
vni 20021 I2
  rd auto
  route-target import auto
  route-target export auto
```

```
vni 20022 I2
  rd auto
  route-target import auto
  route-target export auto
```

```
////////////////////////////////////
```

## **LEAF-20**

```
hostname LEAF-20-POD-01
```

```
int loo 0
ip add 1.1.20.1/32
```

```
int loo 1
ip add 1.1.20.10/32
```

```
int loo 100
```

```
ip add 1.1.20.100/32
```

```
int loo 254
```

```
ip add 10.254.254.254/32
```

```
int eth2/1
```

```
ip add 10.1.20.2 255.255.255.252
```

```
int eth2/2
```

```
ip add 10.2.20.2 255.255.255.252
```

```
int vlan 11
```

```
ip add 192.168.11.1 255.255.255.0
```

```
int vlan 12
```

```
ip add 192.168.12.1 255.255.255.0
```

```
int vlan 21
```

```
ip add 192.168.21.1 255.255.255.0
```

```
int vlan 22
```

```
ip add 192.168.22.1 255.255.255.0
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

```
router ospf 110
```

```
    router-id 1.1.20.1
```

```
    log-adjacency-changes detail
```

```
int eth 2/1
```

```
    description Linka k SPINE-01-POD-01
```

```
    mtu 9216
```

```
    ip add 10.1.20.2 255.255.255.252
```

```
    ip ospf network point-to-point
```

```
    ip router ospf 110 area 0.0.0.0
```

```
    ip pim sparse-mode
```

```
    no shutdown
```

```
int eth 2/2
```

```
    description Linka k SPINE-02-POD-01
```

```
    mtu 9216
```

```
    ip add 10.2.20.2 255.255.255.252
```

```
    ip ospf network point-to-point
```

```
    ip router ospf 110 area 0.0.0.0
```

```
ip pim sparse-mode
no shutdown
```

```
int loopback 0
description Loopback pre OSPF RID
ip add 1.1.20.1/32
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
int loopback 1
description Loopback pre VTEP PIP
ip add 1.1.20.10/32
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
int loopback 254
description Loopback pre PIM
ip add 10.254.254.254/32
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
ip pim rp-address 10.254.254.254 group-list 239.239.239.0 /24
```

```
vlan 10
name tenant-1
vn-segment 10010
```

```
vlan 20
name tenant-2
vn-segment 20020
```

```
vlan 11
vn-segment 10011
```

```
vlan 12
vn-segment 10012
```

```
vlan 21
vn-segment 20021
```

```
vlan 22
vn-segment 20022
```

```
vrf context tenant-1
```

```
vni 10010
rd auto
address-family ipv4 unicast
route-target both auto
route-target both auto evpn
```

```
vrf context tenant-2
vni 20020
rd auto
address-family ipv4 unicast
route-target both auto
route-target both auto evpn
```

```
fabric forwarding anycast-gateway-mac eeee.eeee.eeee
```

```
int vlan 10
description tenant-1-VRF-VLAN
no shutdown
mtu 9216
vrf member tenant-1
ip forward
```

```
int vlan 11
no shut
vrf member tenant-1
ip add 192.168.11.1/24 tag 101112
fabric forwarding mode anycast-gateway
```

```
int vlan 12
no shut
vrf member tenant-1
ip add 192.168.12.1/24 tag 101112
fabric forwarding mode anycast-gateway
```

```
int vlan 20
description tenant-2-VRF-VLAN
no shutdown
mtu 9216
vrf member tenant-2
ip forward
```

```
int vlan 21
no shut
vrf member tenant-2
```

```
ip add 192.168.21.1/24 tag 202122
fabric forwarding mode anycast-gateway
```

```
int vlan 22
  no shut
  vrf member tenant-2
  ip add 192.168.22.1/24 tag 202122
  fabric forwarding mode anycast-gateway
```

```
int nve 1
  no shut
  host-reachability protocol bgp
  source-interface loopback 1
  member vni 10011
    mcast-group 239.0.0.11
    suppress-arp
  member vni 10012
    mcast-group 239.0.0.12
    suppress-arp
  member vni 20021
    mcast-group 239.0.0.21
    suppress-arp
  member vni 20022
    mcast-group 239.0.0.22
    suppress-arp
  member vni 10010 associate-vrf
  member vni 20020 associate-vrf
```

```
route-map FABRIC_REDIST_SUBNET_TEN-1 permit 10
  match tag 101112
```

```
route-map FABRIC_REDIST_SUBNET_TEN-2 permit 20
  match tag 202122
```

```
router bgp 65001
  router-id 1.1.20.1
  neighbor 1.1.1.1
    remote-as 65001
    update-source loopback 0
    address-family l2vpn evpn
      send-community
      send-community extended
  neighbor 1.1.2.1
    remote-as 65001
```





VLAN 12 - vrf tenant-1  
ip add 192.168.12.0 /24

VLAN 20 vrf tenant-2 member vni 20020  
VLAN 21 - vrf tenant-2  
ip add 192.168.21.0 /24

VLAN 22 - vrf tenant-2  
ip add 192.168.22.0 /24

|||||  
**DO APPLY TO ALL DEVICES!**  
|||||

system jumbomtu 9216

license grace-period

feature privilege  
feature telnet  
feature vrrp  
feature tacacs+  
feature ospf  
feature bgp  
feature ospfv3  
feature pim  
feature eigrp  
feature isis  
feature private-vlan  
feature interface-vlan  
feature vn-segment-vlan-based  
feature netflow  
feature hsrp  
feature glbp  
feature dhcp  
feature tunnel  
feature vpc  
feature lldp  
feature vtp  
feature bfd  
feature wccp  
feature evc  
feature evmed

feature nv overlay

feature nxapi

feature msrp

feature vni

install feature-set fabric

install feature-set fabricpath

feature-set fabric

feature-set fabricpath

feature fabric forwarding

nv overlay evpn

//

-----

//

//

## **SPINE-01-POD-02**

hostname SPINE-01-POD-02

int loo 0

    ip add 1.2.1.1/32

int loo 1

    ip add 1.2.1.10/32

int loo 100

    ip add 1.2.1.100/32

int loo 254

    ip add 10.254.254.254/32

int eth1/1

    ip add 172.18.1.1 255.255.255.252

int eth1/2

    ip add 172.18.2.1 255.255.255.252

int eth1/10

    Linka k LEAF-10

    ip add 10.1.10.5 255.255.255.252

```
int eth1/20
  Linka k LEAF-20
  ip add 10.1.20.5 255.255.255.252
```

```

%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
router ospf 110
  router-id 1.2.1.1
  log-adjacency-changes detail
```

```
int eth 1/10
  description Link to LEAF-10
  mtu 9216
  ip add 10.1.10.5 255.255.255.252
  ip ospf network point-to-point
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode
  no shutdown
```

```
int eth 1/20
  description Link to LEAF-20
  mtu 9216
  ip add 10.1.20.5 255.255.255.252
  ip ospf network point-to-point
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode
  no shutdown
```

```
int loopback 0
  description Loopback for OSPF RID
  ip add 1.2.1.1/32 tag 54321
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode
```

```
int loopback 1
  description Loopback for VTEP PIP
  ip add 1.2.1.10/32 tag 54321
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode
```

```
int loopback 254
  description Loopback for PIM
  ip add 10.254.254.254/32
  ip router ospf 110 area 0.0.0.0
```

```
ip pim sparse-mode

ip pim rp-address 10.254.254.254 group-list 239.239.239.0 /24
ip pim anycast-rp 10.254.254.254 1.2.1.1
ip pim anycast-rp 10.254.254.254 1.2.2.1

router bgp 65002
  router-id 1.2.1.1
  neighbor 1.2.10.1
    remote-as 65002
    update-source loopback0
    address-family l2vpn evpn
      send-community
      send-community extended
      route-reflector-client
  neighbor 1.2.20.1
    remote-as 65002
    update-source loopback0
    address-family l2vpn evpn
      send-community
      send-community extended
      route-reflector-client
```

---

```
evpn multisite border-gateway 200
  delay-restore time 30
```

```
interface e1/1
  description Linka k PE-1-WAN-ISP-I
  mtu 9216
  ip add 172.18.1.1 255.255.255.252 tag 54321
  no shutdown
  evpn multisite dci-tracking
```

```
interface e1/2
  description Linka k PE-2-WAN-ISP-II
  mtu 9216
  ip add 172.18.2.1 255.255.255.252 tag 54321
  no shutdown
  evpn multisite dci-tracking
```

```
int e1/30
  description Linka k SPINE-02
  mtu 9216
```

```
ip add 172.17.2.1/30 tag 54321
ip ospf network point-to-point
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
no shutdown
evpn multisite fabric-tracking
```

```
int loopback 100
description Loopback pre VTEP
ip add 1.2.1.100/32 tag 54321
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
vlan 10
name tenant-1
vn-segment 10010
```

```
vlan 20
name tenant-2
vn-segment 20020
```

```
vlan 11
vn-segment 10011
```

```
vlan 12
vn-segment 10012
```

```
vlan 21
vn-segment 20021
```

```
vlan 22
vn-segment 20022
```

```
route-map SITE-REDIST-DIRECT-CONN permit 100
match tag 54321
```

```
vrf context tenant-1
vni 10010
rd auto
address-family ipv4 unicast
route-target both auto
route-target both auto evpn
```

```
vrf context tenant-2
```

```
vni 20020
rd auto
address-family ipv4 unicast
route-target both auto
route-target both auto evpn
```

```
int vlan 10
description tenant-1-VRF-VLAN
no shutdown
mtu 9216
vrf member tenant-1
ip forward
```

```
int vlan 20
description tenant-2-VRF-VLAN
no shutdown
mtu 9216
vrf member tenant-2
ip forward
```

```
int nve 1
no shut
host-reachability protocol bgp
source-interface loopback 1
multisite border-gateway interface loopback 100
member vni 10011
    multisite ingress-replication
    mcast-group 239.0.0.11
    suppress-arp
member vni 10012
    multisite ingress-replication
    mcast-group 239.0.0.12
    suppress-arp
member vni 20021
    multisite ingress-replication
    mcast-group 239.0.0.21
    suppress-arp
member vni 20022
    multisite ingress-replication
    mcast-group 239.0.0.22
    suppress-arp
member vni 10010 associate-vrf
member vni 20020 associate-vrf
```

```
router bgp 65002
  address-family ipv4 unicast
    redistribute direct route-map SITE-REDIST-DIRECT-CONN
    maximum-paths 4
  neighbor 1.2.2.1
    remote-as 65001
    update-source loopback 0
    address-family l2vpn evpn
      send-community
      send-community extended
  neighbor 1.2.200.100 ( PE-3 )
    remote-as 65535
    update-source loopback 0
    peer-type fabric-external
    address-family l2vpn evpn
      send-community
      send-community extended
      rewrite-evpn-rt-asn
  neighbor 1.2.200.200 ( PE-4 )
    remote-as 65535
    update-source loopback 0
    peer-type fabric-external
    address-family l2vpn evpn
      send-community
      send-community extended
      rewrite-evpn-rt-asn
  neighbor 172.18.1.2
    remote-as 65535
    update-source eth1/1
    address-family ipv4 unicast
  neighbor 172.18.2.2
    remote-as 65535
    update-source eth1/2
    address-family ipv4 unicast
```

evpn

```
vni 10011 l2
  rd auto
  route-target import auto
  route-target export auto
vni 10012 l2
  rd auto
  route-target import auto
  route-target export auto
```

```
vni 20021 I2
  rd auto
  route-target import auto
  route-target export auto
vni 20022 I2
  rd auto
  route-target import auto
  route-target export auto
```

```
////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////////
```

**SPINE-02-POD-02**

```
hostname SPINE-02-POD-02
```

```
int loo 0
  ip add 1.2.2.1/32

int loo 1
  ip add 1.2.2.10/32

int loo 100
  ip add 1.2.2.100/32

int loo 254
  ip add 10.254.254.254/32

int eth1/1
  ip add 172.18.1.5 255.255.255.252

int eth1/2
  ip add 172.18.2.5 255.255.255.252

int eth1/10
  Linka k LEAF-10
  ip add 10.2.10.5 255.255.255.252

int eth1/20
  Linka k LEAF-20
  ip add 10.2.20.5 255.255.255.252
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

```
router ospf 110
  router-id 1.2.2.1
  log-adjacency-changes detail
```



```
int eth 1/10
  description Link to LEAF-10
  mtu 9216
  ip add 10.2.10.5 255.255.255.252
  ip ospf network point-to-point
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode
  no shutdown

int eth 1/20
  description Link to LEAF-20
  mtu 9216
  ip add 10.2.20.5 255.255.255.252
  ip ospf network point-to-point
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode
  no shutdown

int loopback 0
  description Loopback for OSPF RID
  ip add 1.2.2.1/32 tag 54321
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode

int loopback 1
  description Loopback for VTEP PIP
  ip add 1.2.2.10/32 tag 54321
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode

int loopback 254
  description Loopback for PIM
  ip add 10.254.254.254/32
  ip router ospf 110 area 0.0.0.0
  ip pim sparse-mode

ip pim rp-address 10.254.254.254 group-list 239.239.239.0 /24
ip pim anycast-rp 10.254.254.254 1.2.1.1
ip pim anycast-rp 10.254.254.254 1.2.2.1

router bgp 65002
  router-id 1.2.2.1
  neighbor 1.2.10.1
```

```
        remote-as 65002
        update-source loopback0
        address-family l2vpn evpn
            send-community
            send-community extended
            route-reflector-client
neighbor 1.2.20.1
    remote-as 65002
    update-source loopback0
    address-family l2vpn evpn
        send-community
        send-community extended
        route-reflector-client
```

---

```
evpn multisite border-gateway 200
    delay-restore time 30
```

```
interface e1/1
    description Linka k PE-1-WAN-ISP-I
    mtu 9216
    ip add 172.18.1.5 255.255.255.252 tag 54321
    no shutdown
    evpn multisite dci-tracking
```

```
interface e1/2
    description Linka k PE-2-WAN-ISP-II
    mtu 9216
    ip add 172.18.2.5 255.255.255.252 tag 54321
    no shutdown
    evpn multisite dci-tracking
```

```
int e1/30
    description Linka k SPINE-02
    mtu 9216
    ip add 172.17.2.2/30 tag 54321
    ip ospf network point-to-point
    ip router ospf 110 area 0.0.0.0
    ip pim sparse-mode
    no shutdown
    evpn multisite fabric-tracking
```

```
int loopback 100
    description Loopback pre VTEP
```

```
ip add 1.2.2.100/32 tag 54321
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
vlan 10
  name tenant-1
  vn-segment 10010
```

```
vlan 20
  name tenant-2
  vn-segment 20020
```

```
vlan 11
  vn-segment 10011
```

```
vlan 12
  vn-segment 10012
```

```
vlan 21
  vn-segment 20021
```

```
vlan 22
  vn-segment 20022
```

```
route-map SITE-REDIST-DIRECT-CONN permit 100
  match tag 54321
```

```
vrf context tenant-1
  vni 10010
  rd auto
  address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn
```

```
vrf context tenant-2
  vni 20020
  rd auto
  address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn
```

```
int vlan 10
  description tenant-1-VRF-VLAN
  no shutdown
```

```
mtu 9216
vrf member tenant-1
ip forward
```

```
int vlan 20
description tenant-2-VRF-VLAN
no shutdown
mtu 9216
vrf member tenant-2
ip forward
```

```
int nve 1
no shut
host-reachability protocol bgp
source-interface loopback 1
multisite border-gateway interface loopback 100
member vni 10011
    multisite ingress-replication
    mcast-group 239.0.0.11
    suppress-arp
member vni 10012
    multisite ingress-replication
    mcast-group 239.0.0.12
    suppress-arp
member vni 20021
    multisite ingress-replication
    mcast-group 239.0.0.21
    suppress-arp
member vni 20022
    multisite ingress-replication
    mcast-group 239.0.0.22
    suppress-arp
member vni 10010 associate-vrf
member vni 20020 associate-vrf
```

```
router bgp 65002
address-family ipv4 unicast
    redistribute direct route-map SITE-REDIST-DIRECT-CONN
    maximum-paths 4
neighbor 1.2.1.1
    remote-as 65001
    update-source loopback 0
    address-family l2vpn evpn
        send-community
```

```
        send-community extended
neighbor 1.2.200.100 ( PE-3 )
    remote-as 65535
    update-source loopback 0
    peer-type fabric-external
    address-family l2vpn evpn
        send-community
        send-community extended
        rewrite-evpn-rt-asn
neighbor 1.2.200.200 ( PE-4 )
    remote-as 65535
    update-source loopback 0
    peer-type fabric-external
    address-family l2vpn evpn
        send-community
        send-community extended
        rewrite-evpn-rt-asn
neighbor 172.18.1.6
    remote-as 65535
    update-source eth1/1
    address-family ipv4 unicast
neighbor 172.18.2.6
    remote-as 65535
    update-source eth1/2
    address-family ipv4 unicast
```

## evpn

```
vni 10011 l2
    rd auto
    route-target import auto
    route-target export auto
vni 10012 l2
    rd auto
    route-target import auto
    route-target export auto
vni 20021 l2
    rd auto
    route-target import auto
    route-target export auto
vni 20022 l2
    rd auto
    route-target import auto
    route-target export auto
```



```
mtu 9216
ip add 10.1.10.6 255.255.255.252
ip ospf network point-to-point
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
int eth 2/2
description Link to SPINE-2
mtu 9216
ip add 10.2.10.6 255.255.255.252
ip ospf network point-to-point
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
int loopback 0
description Loopback for OSPF RID
ip add 1.2.10.1/32
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
int loopback 1
description Loopback for VTEP PIP
ip add 1.2.10.10/32
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
int loopback 254
description Loopback for PIM
ip add 10.254.254.254/32
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
ip pim rp-address 10.254.254.254 group-list 239.239.239.0 /24
```

```
vlan 10
name tenant-1
vn-segment 10010
```

```
vlan 20
name tenant-2
vn-segment 20020
```

```
vlan 11
    vn-segment 10011
```

```
vlan 12
    vn-segment 10012
```

```
vlan 21
    vn-segment 20021
```

```
vlan 22
    vn-segment 20022
```

```
vrf context tenant-1
    vni 10010
    rd auto
    address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn
```

```
vrf context tenant-2
    vni 20020
    rd auto
    address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn
```

```
fabric forwarding anycast-gateway-mac eeee.eeee.eeee
```

```
int vlan 10
    description tenant-1-VRF-VLAN
    no shutdown
    mtu 9216
    vrf member tenant-1
    ip forward
```

```
int vlan 11
    no shut
    vrf member tenant-1
    ip add 192.168.11.1/24 tag 101112
    fabric forwarding mode anycast-gateway
```

```
int vlan 12
    no shut
    vrf member tenant-1
```



```
ip add 192.168.12.1/24 tag 101112
fabric forwarding mode anycast-gateway
```

```
int vlan 20
description tenant-2-VRF-VLAN
no shutdown
mtu 9216
vrf member tenant-2
ip forward
```

```
int vlan 21
no shut
vrf member tenant-2
ip add 192.168.21.1/24 tag 202122
fabric forwarding mode anycast-gateway
```

```
int vlan 22
no shut
vrf member tenant-2
ip add 192.168.22.1/24 tag 202122
fabric forwarding mode anycast-gateway
```

```
int nve 1
no shut
host-reachability protocol bgp
source-interface loopback 1
member vni 10011
    mcast-group 239.0.0.11
    suppress-arp
member vni 10012
    mcast-group 239.0.0.12
    suppress-arp
member vni 20021
    mcast-group 239.0.0.21
    suppress-arp
member vni 20022
    mcast-group 239.0.0.22
    suppress-arp
member vni 10010 associate-vrf
member vni 20020 associate-vrf
```

```
route-map FABRIC_REDIST_SUBNET_TEN-1 permit 10
match tag 101112
```

```
route-map FABRIC_REDIST_SUBNET_TEN-2 permit 20
  match tag 202122
```

```
router bgp 65002
  router-id 1.2.10.1
  neighbor 1.2.1.1
    remote-as 65002
    update-source loopback 0
    address-family l2vpn evpn
      send-community
      send-community extended
  neighbor 1.2.2.1
    remote-as 65002
    update-source loopback 0
    address-family l2vpn evpn
      send-community
      send-community extended
  vrf tenant-1
    address-family ipv4 unicast
      advertise l2vpn evpn
      redistribute direct route-map FABRIC_REDIST_SUBNET_TEN-1
      maximum-paths ibgp 4
  vrf tenant-2
    address-family ipv4 unicast
      advertise l2vpn evpn
      redistribute direct route-map FABRIC_REDIST_SUBNET_TEN-2
      maximum-paths ibgp 4
```

```
evpn
  vni 10011 l2
    rd auto
    route-target import auto
    route-target export auto
  vni 10012 l2
    rd auto
    route-target import auto
    route-target export auto
  vni 20021 l2
    rd auto
    route-target import auto
    route-target export auto
  vni 20022 l2
    rd auto
    route-target import auto
```



```
description Link to SPINE-1
mtu 9216
ip add 10.1.20.6 255.255.255.252
ip ospf network point-to-point
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
int eth 2/2
description Link to SPINE-2
mtu 9216
ip add 10.2.20.6 255.255.255.252
ip ospf network point-to-point
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
int loopback 0
description Loopback for OSPF RID
ip add 1.2.20.1/32
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
int loopback 1
description Loopback for VTEP PIP
ip add 1.2.20.10/32
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
int loopback 254
description Loopback for PIM
ip add 10.254.254.254/32
ip router ospf 110 area 0.0.0.0
ip pim sparse-mode
```

```
ip pim rp-address 10.254.254.254 group-list 239.239.239.0 /24
```

```
vlan 10
name tenant-1
vn-segment 10010
```

```
vlan 20
name tenant-2
vn-segment 20020
```

```
vlan 11
    vn-segment 10011
```

```
vlan 12
    vn-segment 10012
```

```
vlan 21
    vn-segment 20021
```

```
vlan 22
    vn-segment 20022
```

```
vrf context tenant-1
    vni 10010
    rd auto
    address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn
```

```
vrf context tenant-2
    vni 20020
    rd auto
    address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn
```

```
fabric forwarding anycast-gateway-mac eeee.eeee.eeee
```

```
int vlan 10
    description tenant-1-VRF-VLAN
    no shutdown
    mtu 9216
    vrf member tenant-1
    ip forward
```

```
int vlan 11
    no shut
    vrf member tenant-1
    ip add 192.168.11.1/24 tag 101112
    fabric forwarding mode anycast-gateway
```

```
int vlan 12
    no shut
```

```
vrf member tenant-1
ip add 192.168.12.1/24 tag 101112
fabric forwarding mode anycast-gateway
```

```
int vlan 20
description tenant-2-VRF-VLAN
no shutdown
mtu 9216
vrf member tenant-2
ip forward
```

```
int vlan 21
no shut
vrf member tenant-2
ip add 192.168.21.1/24 tag 202122
fabric forwarding mode anycast-gateway
```

```
int vlan 22
no shut
vrf member tenant-2
ip add 192.168.22.1/24 tag 202122
fabric forwarding mode anycast-gateway
```

```
int nve 1
no shut
host-reachability protocol bgp
source-interface loopback 1
member vni 10011
    mcast-group 239.0.0.11
    suppress-arp
member vni 10012
    mcast-group 239.0.0.12
    suppress-arp
member vni 20021
    mcast-group 239.0.0.21
    suppress-arp
member vni 20022
    mcast-group 239.0.0.22
    suppress-arp
member vni 10010 associate-vrf
member vni 20020 associate-vrf
```

```
route-map FABRIC_REDIST_SUBNET_TEN-1 permit 10
match tag 101112
```

```
route-map FABRIC_REDIST_SUBNET_TEN-2 permit 20
  match tag 202122
```

```
router bgp 65002
  router-id 1.2.20.1
  neighbor 1.2.1.1
    remote-as 65002
    update-source loopback 0
    address-family I2vpn evpn
      send-community
      send-community extended
  neighbor 1.2.2.1
    remote-as 65002
    update-source loopback 0
    address-family I2vpn evpn
      send-community
      send-community extended
  vrf tenant-1
    address-family ipv4 unicast
      advertise I2vpn evpn
      redistribute direct route-map FABRIC_REDIST_SUBNET_TEN-1
      maximum-paths ibgp 4
  vrf tenant-2
    address-family ipv4 unicast
      advertise I2vpn evpn
      redistribute direct route-map FABRIC_REDIST_SUBNET_TEN-2
      maximum-paths ibgp 4
```

```
evpn
  vni 10011 I2
    rd auto
    route-target import auto
    route-target export auto
  vni 10012 I2
    rd auto
    route-target import auto
    route-target export auto
  vni 20021 I2
    rd auto
    route-target import auto
    route-target export auto
  vni 20022 I2
    rd auto
```





```
int serial6/4
    ip add 172.16.64.1 255.255.255.252
    ip router isis

int loopback 0
    ip add 71.100.100.1/32

route-map NEXT-HOP-UNCHANGED permit 100
    set ip next-hop unchanged

router isis
    net 49.0001.0000.0000.000a.00

router bgp 65100
    address-family ipv4 unicast
        network 71.100.100.1/32
    address-family l2vpn evpn
        retain route-target all
    neighbor 1.1.1.1
        remote-as 65001
        update-source loopback0
        ebgp-multihop 5
        peer-type fabric-external
        address-family l2vpn evpn
            send-community
            send-community extended
        route-map NEXT-HOP-UNCHANGED out
        rewrite-evpn-rt-asn
    neighbor 1.1.2.1
        remote-as 65001
        update-source loopback0
        ebgp-multihop 5
        peer-type fabric-external
        address-family l2vpn evpn
            send-community
            send-community extended
        route-map NEXT-HOP-UNCHANGED out
        rewrite-evpn-rt-asn

    neighbor 1.2.1.1
        remote-as 65002
        update-source loopback0
        ebgp-multihop 5
        peer-type fabric-external
```

```
address-family l2vpn evpn
  send-community
  send-community extended
  route-map NEXT-HOP-UNCHANGED out
  rewrite-evpn-rt-asn
```

```
neighbor 1.2.2.1
  remotoe-as 65002
  update-source loopback0
  ebgp-multihop 5
  peer-type fabric-external
  address-family l2vpn evpn
    send-community
    send-community extended
    route-map NEXT-HOP-UNCHANGED out
    rewrite-evpn-rt-asn
```

```
neighbor 172.16.1.1
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.16.1.5
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.16.2.1
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.16.2.5
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.18.1.1
  remote-as 65002
  address-family ipv4 unicast
```

```
neighbor 172.18.1.5
  remote-as 65002
  address-family ipv4 unicast
```

```
neighbor 172.18.2.1
  remote-as 65002
  address-family ipv4 unicast
```



```
ip add 172.16.66.1 255.255.255.252
ip router isis
```

```
int loopback 0
ip add 71.100.100.2/32
```

```
route-map NEXT-HOP-UNCHANGED permit 100
set ip next-hop unchanged
```

```
router isis
net 49.0001.0000.0000.000b.00
```

```
router bgp 65100
address-family ipv4 unicast
    network 71.100.100.2/32
address-family l2vpn evpn
    retain route-target all
neighbor 1.1.1.1
    remote-as 65001
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    address-family l2vpn evpn
        send-community
        send-community extended
        route-map NEXT-HOP-UNCHANGED out
        rewrite-evpn-rt-asn
neighbor 1.1.2.1
    remote-as 65001
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    address-family l2vpn evpn
        send-community
        send-community extended
        route-map NEXT-HOP-UNCHANGED out
        rewrite-evpn-rt-asn

neighbor 1.2.1.1
    remote-as 65002
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    address-family l2vpn evpn
```

```
send-community
send-community extended
route-map NEXT-HOP-UNCHANGED out
rewrite-evpn-rt-asn
```

```
neighbor 1.2.2.1
  remotoe-as 65002
  update-source loopback0
  ebgp-multihop 5
  peer-type fabric-external
  address-family l2vpn evpn
    send-community
    send-community extended
    route-map NEXT-HOP-UNCHANGED out
    rewrite-evpn-rt-asn
```

```
neighbor 172.16.1.1
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.16.1.5
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.16.2.1
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.16.2.5
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.18.1.1
  remote-as 65002
  address-family ipv4 unicast
```

```
neighbor 172.18.1.5
  remote-as 65002
  address-family ipv4 unicast
```

```
neighbor 172.18.2.1
  remote-as 65002
  address-family ipv4 unicast
```



```
int loopback 0
  ip add 71.100.100.3/32

route-map NEXT-HOP-UNCHANGED permit 100
  set ip next-hop unchanged

router isis
  net 49.0001.0000.0000.000c.00

router bgp 65100
  address-family ipv4 unicast
    network 71.100.100.3/32
  address-family l2vpn evpn
    retain route-target all
  neighbor 1.1.1.1
    remote-as 65001
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    address-family l2vpn evpn
      send-community
      send-community extended
      route-map NEXT-HOP-UNCHANGED out
      rewrite-evpn-rt-asn
  neighbor 1.1.2.1
    remote-as 65001
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    address-family l2vpn evpn
      send-community
      send-community extended
      route-map NEXT-HOP-UNCHANGED out
      rewrite-evpn-rt-asn

  neighbor 1.2.1.1
    remote-as 65002
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    address-family l2vpn evpn
      send-community
      send-community extended
```

```
route-map NEXT-HOP-UNCHANGED out  
rewrite-evpn-rt-asn
```

```
neighbor 1.2.2.1  
  remotoe-as 65002  
  update-source loopback0  
  ebgp-multihop 5  
  peer-type fabric-external  
  address-family l2vpn evpn  
    send-community  
    send-community extended  
  route-map NEXT-HOP-UNCHANGED out  
  rewrite-evpn-rt-asn
```

```
neighbor 172.16.1.1  
  remote-as 65001  
  address-family ipv4 unicast
```

```
neighbor 172.16.1.5  
  remote-as 65001  
  address-family ipv4 unicast
```

```
neighbor 172.16.2.1  
  remote-as 65001  
  address-family ipv4 unicast
```

```
neighbor 172.16.2.5  
  remote-as 65001  
  address-family ipv4 unicast
```

```
neighbor 172.18.1.1  
  remote-as 65002  
  address-family ipv4 unicast
```

```
neighbor 172.18.1.5  
  remote-as 65002  
  address-family ipv4 unicast
```

```
neighbor 172.18.2.1  
  remote-as 65002  
  address-family ipv4 unicast
```

```
neighbor 172.18.2.5  
  remote-as 65002
```





```
ip add 172.16.65.1 255.255.255.252
router isis
```

```
int loopback 0
ip add 71.100.100.4/32
```

```
route-map NEXT-HOP-UNCHANGED permit 100
set ip next-hop unchanged
```

```
router isis
net 49.0001.0000.0000.000d.00
```

```
router bgp 65100
address-family ipv4 unicast
    network 71.100.100.4/32
address-family l2vpn evpn
    retain route-target all
neighbor 1.1.1.1
    remote-as 65001
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    address-family l2vpn evpn
        send-community
        send-community extended
        route-map NEXT-HOP-UNCHANGED out
        rewrite-evpn-rt-asn
neighbor 1.1.2.1
    remote-as 65001
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    address-family l2vpn evpn
        send-community
        send-community extended
        route-map NEXT-HOP-UNCHANGED out
        rewrite-evpn-rt-asn

neighbor 1.2.1.1
    remote-as 65002
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    address-family l2vpn evpn
```

```
send-community
send-community extended
route-map NEXT-HOP-UNCHANGED out
rewrite-evpn-rt-asn
```

```
neighbor 1.2.2.1
  remotoe-as 65002
  update-source loopback0
  ebgp-multihop 5
  peer-type fabric-external
  address-family l2vpn evpn
    send-community
    send-community extended
    route-map NEXT-HOP-UNCHANGED out
    rewrite-evpn-rt-asn
```

```
neighbor 172.16.1.1
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.16.1.5
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.16.2.1
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.16.2.5
  remote-as 65001
  address-family ipv4 unicast
```

```
neighbor 172.18.1.1
  remote-as 65002
  address-family ipv4 unicast
```

```
neighbor 172.18.1.5
  remote-as 65002
  address-family ipv4 unicast
```

```
neighbor 172.18.2.1
  remote-as 65002
  address-family ipv4 unicast
```



