

# ق قحت ل او LACP ESI ل ددعت م ل ا ه ا ج ت ا ل ا ن ي و ك ت EVPN VXLAN ي ف ه ت ح ص ن م

## ت ا ي و ت ح م ل ا

[ة م د ق م ل ا](#)

[ة ي س ا س ا ل ا ت ا ب ل ط ت م ل ا](#)

[ت ا ب ل ط ت م ل ا](#)

[ة م د خ ت س م ل ا ت ا ن و ك م ل ا](#)

[ن ي و ك ت ل ا](#)

[ة ك ب ش ل ل ل ي ط ي ط خ ت ل ا م س ر ل ا](#)

[1- ي ر ق ف د و م ع](#)

[2- ي ر ق ف ل ا د و م ع ل ا](#)

[1- ف ي ل](#)

[2- ف ي ل](#)

[3- ف ي ل](#)

[4- ف ي ل](#)

[1- ف ي ض م ل ا](#)

[2- ف ي ض م ل ا](#)

[ة ح ص ل ا ن م ق ق ح ت ل ا](#)

[ا ه ج ل ص ا و ا ط خ ا ل ا ف ا ش ك ت س ا](#)

## ة م د ق م ل ا

ة ك ب ش (LACP) ت ا ط ا ب ت ر ا ل ا ع ي م ج ت ي ف م ك ح ت ل ا ل و ك و ت و ر ب ر ش ن ة ي ف ي ك د ن ت س م ل ا ا ذ ه ح ض و ي  
Nexus 9000 ل ع EVPN ل ة ط ش ن ل ل / ة ط ش ن ل (VXLAN) ة ي ر ه ا ط ل ا ة ع س و م ل ا LAN

## ة ي س ا س ا ل ا ت ا ب ل ط ت م ل ا

### ت ا ب ل ط ت م ل ا

ة ي ل ل ا ت ل ا ع ي ض ا و م ل ا ب ة ف ر ع م ك ي د ل ن و ك ت ن ا ب Cisco ي ص و ت:

- (BGP) ة ي د و د ح ل ا ة ب ا و ب ل ا ل و ك و ت و ر ب
- (OSPF) ا ل و ا ر ا س م ر ص ق ا ح ت ف ل و ك و ت و ر ب
- (EVPN) ت ن ر ث ي ا ل ا ب ة ص ا خ ل ا VPN ة ك ب ش
- Virtual vPC
- vPC
- ت ن ر ث ي ا ع ا ط ق

### ة م د خ ت س م ل ا ت ا ن و ك م ل ا



```
feature ospf
feature bgp
feature pim
feature nv overlay

copp profile strict

ip pim rp-address 192.168.1.1 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

interface Ethernet1/1
ip address 172.16.4.2/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/3
mtu 9216
ip address 172.16.6.2/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/5
ip address 172.16.0.2/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/7
mtu 9216
ip address 172.16.2.2/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface loopback0
ip address 192.168.1.2/32
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
icam monitor scale

router ospf 100
router-id 192.168.1.2
router bgp 100
router-id 192.168.1.2
address-family ipv4 unicast
address-family l2vpn evpn
maximum-paths ibgp 32
additional-paths send
additional-paths receive
neighbor 192.168.1.3
remote-as 100
update-source loopback0
address-family ipv4 unicast
send-community extended
route-reflector-client
address-family l2vpn evpn
```

```
    send-community extended
    route-reflector-client
neighbor 192.168.1.4
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
    send-community extended
    route-reflector-client
  address-family l2vpn evpn
    send-community extended
    route-reflector-client
neighbor 192.168.1.7
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
    send-community extended
    route-reflector-client
  address-family l2vpn evpn
    send-community extended
    route-reflector-client
neighbor 192.168.1.8
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
    send-community extended
    route-reflector-client
  address-family l2vpn evpn
    send-community extended
    route-reflector-client
```

## 2-ي فرق لال دومع لال

```
hostname spine2

nv overlay evpn
feature ospf
feature bgp
feature pim
feature nv overlay

copp profile strict

ip pim rp-address 192.168.1.1 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

interface Ethernet1/1
ip address 172.16.5.2/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/3
mtu 9216
ip address 172.16.7.2/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
```

```
ip pim sparse-mode
no shutdown

interface Ethernet1/5
ip address 172.16.1.2/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/7
mtu 9216
ip address 172.16.3.2/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface loopback0
ip address 192.168.1.1/32
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode

router ospf 100
router-id 192.168.1.1
router bgp 100
router-id 192.168.1.1
address-family ipv4 unicast
address-family l2vpn evpn
maximum-paths ibgp 32
additional-paths send
additional-paths receive
neighbor 192.168.1.3
remote-as 100
update-source loopback0
address-family ipv4 unicast
send-community extended
route-reflector-client
address-family l2vpn evpn
send-community extended
route-reflector-client
neighbor 192.168.1.4
remote-as 100
update-source loopback0
address-family ipv4 unicast
send-community extended
route-reflector-client
address-family l2vpn evpn
send-community extended
route-reflector-client
neighbor 192.168.1.7
remote-as 100
update-source loopback0
address-family ipv4 unicast
send-community extended
route-reflector-client
address-family l2vpn evpn
send-community extended
route-reflector-client
neighbor 192.168.1.8
remote-as 100
update-source loopback0
```

```
address-family ipv4 unicast
  send-community extended
  route-reflector-client
address-family l2vpn evpn
  send-community extended
  route-reflector-client
```

## 1-فيل

```
<#root>
```

```
hostname Leaf1
```

```
nv overlay evpn
feature ospf
feature bgp
feature pim
feature fabric forwarding
feature interface-vlan
feature vn-segment-vlan-based
feature lacp
feature nv overlay
```

```
copp profile strict
```

```
evpn esi multihoming
```

```
ethernet-segment delay-restore time 180
```

```
fabric forwarding anycast-gateway-mac 0000.2222.3333
ip pim rp-address 192.168.1.1 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8
```

```
vlan 1,10,100,200,300,400
```

```
vlan 10
  vn-segment 500001
vlan 100
  vn-segment 5001002
vlan 200
  vn-segment 5001001
```

```
vrf context vxlan-500001
  vni 500001
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn
  address-family ipv6 unicast
    route-target both auto
    route-target both auto evpn
hardware access-list tcam region vac1 0
hardware access-list tcam region e-rac1 0
hardware access-list tcam region arp-ether 256
```

```
interface Vlan10
  no shutdown
  vrf member vxlan-500001
  ip forward

interface Vlan100
  no shutdown
  vrf member vxlan-500001
  ip address 172.20.1.1/24
  fabric forwarding mode anycast-gateway

interface Vlan200
  no shutdown
  vrf member vxlan-500001
  ip address 172.21.1.1/24
  fabric forwarding mode anycast-gateway

interface port-channel111
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300,400

  ethernet-segment 2011

    system-mac 0000.0000.2011

  mtu 9216

interface nve1
  no shutdown
  host-reachability protocol bgp
  source-interface loopback0
  member vni 500001 associate-vrf
  member vni 5001001
    suppress-arp
    mcast-group 239.0.0.1
  member vni 5001002
    suppress-arp
    mcast-group 239.0.0.1

interface Ethernet1/1
  no switchport

  evpn multihoming core-tracking

  ip address 172.16.0.1/30
  ip ospf network point-to-point
  ip router ospf 100 area 0.0.0.0
  ip pim sparse-mode
  no shutdown

interface Ethernet1/3
  no switchport

  evpn multihoming core-tracking

  ip address 172.16.1.1/30
  ip ospf network point-to-point
  ip router ospf 100 area 0.0.0.0
  ip pim sparse-mode
```

```
no shutdown

interface Ethernet1/6
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300,400
  mtu 9216
  channel-group 111 mode active

interface loopback0
  ip address 192.168.1.3/32
  ip router ospf 100 area 0.0.0.0
  ip pim sparse-mode

router ospf 100
  router-id 192.168.1.3
router bgp 100
  router-id 192.168.1.3
  address-family ipv4 unicast
  address-family l2vpn evpn
    maximum-paths ibgp 3
    additional-paths send
    additional-paths receive
  neighbor 192.168.1.1
    remote-as 100
    update-source loopback0
  address-family ipv4 unicast
    send-community extended
  address-family l2vpn evpn
    send-community extended
  neighbor 192.168.1.2
    remote-as 100
    update-source loopback0
  address-family ipv4 unicast
    send-community extended
  address-family l2vpn evpn
    send-community extended

evpn
vrf context vxlan-500001
rd auto
address-family ipv4 unicast
route-target both auto
route-target both auto evpn
address-family ipv6 unicast
route-target both auto
route-target both auto evpn
```

## 2-في

<#root>

```
hostname Leaf2

feature scp-server
feature sftp-server
nv overlay evpn
feature ospf
feature bgp
feature pim
```



```
feature fabric forwarding
feature interface-vlan
feature vn-segment-vlan-based
feature lACP
feature nv overlay
```

```
copp profile strict
```

```
evpn esi multihoming
```

```
    ethernet-segment delay-restore time 180
```

```
fabric forwarding anycast-gateway-mac 0000.2222.3333
ip pim rp-address 192.168.1.1 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8
```

```
vlan 1,10,100,200,300,400
```

```
vlan 10
```

```
    vn-segment 500001
```

```
vlan 100
```

```
    vn-segment 5001002
```

```
vlan 200
```

```
    vn-segment 5001001
```

```
vrf context vxlan-500001
```

```
    vni 500001
```

```
    rd auto
```

```
    address-family ipv4 unicast
```

```
        route-target both auto
```

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

```
    address-family ipv6 unicast
```

```
        route-target both auto
```

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

```
hardware access-list tcam region span 0
```

```
hardware access-list tcam region rp-qos 0
```

```
hardware access-list tcam region arp-ether 256
```

```
interface Vlan10
```

```
    no shutdown
```

```
    vrf member vxlan-500001
```

```
    ip forward
```

```
interface Vlan100
```

```
    no shutdown
```

```
    vrf member vxlan-500001
```

```
    ip address 172.20.1.1/24
```

```
    fabric forwarding mode anycast-gateway
```

```
interface Vlan200
```

```
    no shutdown
```

```
    vrf member vxlan-500001
```

```
    ip address 172.21.1.1/24
```

```
    fabric forwarding mode anycast-gateway
```

```
interface port-channel111
```

```
    switchport mode trunk
```

```
    switchport trunk allowed vlan 100,200,300,400
```

```
ethernet-segment 2011
```

```
system-mac 0000.0000.2011
```

```
mtu 9216
```

```
interface nve1
  no shutdown
  host-reachability protocol bgp
  source-interface loopback0
  member vni 500001 associate-vrf
  member vni 5001001
    suppress-arp
    mcast-group 239.0.0.1
  member vni 5001002
    suppress-arp
    mcast-group 239.0.0.1
```

```
interface Ethernet1/1
  no switchport
```

```
evpn multihoming core-tracking
```

```
mtu 9216
ip address 172.16.2.1/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
interface Ethernet1/3
  no switchport
```

```
evpn multihoming core-tracking
```

```
mtu 9216
ip address 172.16.3.1/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
interface Ethernet1/6
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300,400
  mtu 9216
  channel-group 111 mode active
```

```
interface mgmt0
  vrf member management
  ip address 10.88.146.115/24
```

```
interface loopback0
  ip address 192.168.1.4/32
  ip router ospf 100 area 0.0.0.0
  ip pim sparse-mode
```

```
router ospf 100
  router-id 192.168.1.4
```

```

router bgp 100
  router-id 192.168.1.4
  address-family ipv4 unicast
  address-family l2vpn evpn
    maximum-paths ibgp 32
    additional-paths send
    additional-paths receive
  neighbor 192.168.1.1
    remote-as 100
    update-source loopback0
    address-family ipv4 unicast
      send-community extended
    address-family l2vpn evpn
      send-community extended
  neighbor 192.168.1.2
    remote-as 100
    update-source loopback0
    address-family ipv4 unicast
      send-community extended
    address-family l2vpn evpn
      send-community extended
evpn
vrf context vxlan-500001
rd auto
address-family ipv4 unicast
route-target both auto
route-target both auto evpn
address-family ipv6 unicast
route-target both auto
route-target both auto evpn

```

### 3-فيل

<#root>

```

hostname Leaf3

feature scp-server
feature sftp-server
cfs ipv4 distribute
nv overlay evpn
feature ospf
feature bgp
feature pim
feature fabric forwarding
feature interface-vlan
feature vn-segment-vlan-based
feature lacp
feature vpc
feature nv overlay

copp profile strict
hardware access-list tcam region egr-racl 0
hardware access-list tcam region ing-netflow 0
hardware access-list tcam region ing-flow-redirect 512

fabric forwarding anycast-gateway-mac 0000.2222.3333
ip pim rp-address 192.168.1.1 group-list 224.0.0.0/4

```

```
ip pim ssm range 232.0.0.0/8
```

```
vlan 1,10,100,200  
vlan 10  
  vn-segment 500001  
vlan 100  
  vn-segment 5001002  
vlan 200  
  vn-segment 5001001
```

```
vrf context vxlan-500001  
vni 500001  
rd auto  
address-family ipv4 unicast  
  route-target both auto  
  route-target both auto evpn  
address-family ipv6 unicast  
  route-target both auto  
  route-target both auto evpn
```

```
vpc domain 100  
peer-switch  
peer-keepalive destination 10.88.146.113 source 10.88.146.112  
virtual peer-link destination 192.168.1.8 source 192.168.1.7 dscp 56  
peer-gateway  
ip arp synchronize
```

```
interface Vlan1  
no ip redirects  
no ipv6 redirects
```

```
interface Vlan10  
no shutdown  
vrf member vxlan-500001  
ip forward
```

```
interface Vlan100  
no shutdown  
vrf member vxlan-500001  
no ip redirects  
ip address 172.20.1.1/24  
no ipv6 redirects  
fabric forwarding mode any cast-gateway
```

```
interface Vlan200  
no shutdown  
vrf member vxlan-500001  
no ip redirects  
ip address 172.21.1.1/24  
no ipv6 redirects  
fabric forwarding mode any cast-gateway
```

```
interface port-channel10  
switchport  
switchport mode trunk  
switchport trunk allowed vlan 100,200,300,400  
spanning-tree port type network  
vpc peer-link
```

```
interface port-channel30  
switchport  
switchport mode trunk
```

```
switchport trunk allowed vlan 100,200,300,400
vpc 30
```

```
interface nve1
no shutdown
host-reachability protocol bgp
advertise virtual-rmac
source-interface loopback1
member vni 500001 associate-vrf
member vni 5001001
    suppress-arp
    mcast-group 239.0.0.1
member vni 5001002
    suppress-arp
    mcast-group 239.0.0.1
```

```
interface Ethernet1/1
```

```
port-type fabric
```

```
ip address 172.16.4.1/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
interface Ethernet1/3
```

```
port-type fabric
```

```
ip address 172.16.5.1/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
interface Ethernet1/5
```

```
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300,400
channel-group 30 mode active
no shutdown
```

```
interface mgmt0
```

```
vrf member management
ip address 10.88.146.112/24
```

```
interface loopback0
```

```
ip address 192.168.1.7/32
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
```

```
interface loopback1
```

```
ip address 192.168.1.5/32
ip address 192.168.1.51/32 secondary
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
```

```
router ospf 100
```

```
router-id 192.168.1.5
```

```
router bgp 100
  router-id 192.168.1.7
  address-family ipv4 unicast
  address-family l2vpn evpn
    maximum-paths ibgp 32
  advertise-pip
  additional-paths send
  additional-paths receive
  neighbor 192.168.1.1
    remote-as 100
    update-source loopback0
  address-family ipv4 unicast
    send-community extended
  address-family l2vpn evpn
    send-community extended
  neighbor 192.168.1.2
    remote-as 100
    update-source loopback0
  address-family ipv4 unicast
    send-community extended
  address-family l2vpn evpn
    send-community extended
evpn
vrf context vxlan-500001
rd auto
address-family ipv4 unicast
route-target both auto
route-target both auto evpn
address-family ipv6 unicast
route-target both auto
route-target both auto evpn
```

## 4-فيل

<#root>

```
hostname Leaf4

cfs ipv4 distribute
nv overlay evpn
feature ospf
feature bgp
feature pim
feature fabric forwarding
feature interface-vlan
feature vn-segment-vlan-based
feature lacp
feature vpc
feature nv overlay

copp profile strict
hardware access-list tcam region egr-racl 0
hardware access-list tcam region ing-netflow 0
hardware access-list tcam region ing-flow-redirect 512

fabric forwarding anycast-gateway-mac 0000.2222.3333
ip pim rp-address 192.168.1.1 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8
```

vlan 1,10,100,200

vlan 10

vn-segment 500001

vlan 100

vn-segment 5001002

vlan 200

vn-segment 5001001

vrf context vxlan-500001

vni 500001

rd auto

address-family ipv4 unicast

route-target both auto

route-target both auto evpn

address-family ipv6 unicast

route-target both auto

route-target both auto evpn

vpc domain 100

peer-switch

peer-keepalive destination 10.88.146.112 source 10.88.146.113

virtual peer-link destination 192.168.1.7 source 192.168.1.8 dscp 56

peer-gateway

ip arp synchronize

interface Vlan1

no ip redirects

no ipv6 redirects

interface Vlan10

no shutdown

vrf member vxlan-500001

ip forward

interface Vlan100

no shutdown

vrf member vxlan-500001

no ip redirects

ip address 172.20.1.1/24

no ipv6 redirects

fabric forwarding mode any cast-gateway

interface Vlan200

no shutdown

vrf member vxlan-500001

no ip redirects

ip address 172.21.1.1/24

no ipv6 redirects

fabric forwarding mode any cast-gateway

interface port-channel10

switchport

switchport mode trunk

switchport trunk allowed vlan 100,200,300,400

spanning-tree port type network

vpc peer-link

interface port-channel30

switchport

switchport mode trunk

```
switchport trunk allowed vlan 100,200,300,400
vpc 30
```

```
interface nve1
no shutdown
host-reachability protocol bgp
advertise virtual-rmac
source-interface loopback1
member vni 500001 associate-vrf
member vni 5001001
    suppress-arp
    mcast-group 239.0.0.1
member vni 5001002
    suppress-arp
    mcast-group 239.0.0.1
```

```
interface Ethernet1/1
mtu 9216
```

```
port-type fabric
```

```
ip address 172.16.6.1/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
interface Ethernet1/3
mtu 9216
```

```
port-type fabric
```

```
ip address 172.16.7.1/30
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
interface Ethernet1/5
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300,400
channel-group 30 mode active
no shutdown
```

```
interface mgmt0
vrf member management
ip address 10.88.146.113/24
```

```
interface loopback0
ip address 192.168.1.8/32
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
```

```
interface loopback1
ip address 192.168.1.6/32
ip address 192.168.1.51/32 secondary
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
icam monitor scale
```



```
router ospf 100
  router-id 192.168.1.6
router bgp 100
  router-id 192.168.1.8
  address-family ipv4 unicast
  address-family l2vpn evpn
  maximum-paths ibgp 32
  advertise-pip
  additional-paths send
  additional-paths receive
  neighbor 192.168.1.1
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
  send-community extended
  address-family l2vpn evpn
  send-community extended
  neighbor 192.168.1.2
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
  send-community extended
  address-family l2vpn evpn
  send-community extended
evpn
vrf context vxlan-500001
rd auto
address-family ipv4 unicast
route-target both auto
route-target both auto evpn
address-family ipv6 unicast
route-target both auto
route-target both auto evp
```

## 1-فيضملا

```
feature bash-shell
feature scp-server
feature interface-vlan
feature lacp
feature lldp

vlan 1,10,100,200,300,400

interface Vlan100
  no shutdown
  ip address 172.20.1.100/24

interface port-channel111
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300,400

interface Ethernet1/2
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300,400
  channel-group 111 mode active
  no shutdown
```

```
interface Ethernet1/3
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300,400
  channel-group 111 mode active
  no shutdown
```

## 2- فيض المل

```
feature bash-shell
feature scp-server
feature interface-vlan
feature lacp
feature lldp
```

```
vlan 1,10,100,200,300,400
```

```
interface Vlan100
  no shutdown
  ip address 172.20.1.101/24
```

```
interface port-channel30
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300,400
```

```
interface Ethernet1/1
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300,400
  channel-group 30 mode active
  no shutdown
```

```
interface Ethernet1/3
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300,400
  channel-group 30 mode active
  no shutdown
```

## تحصيل نم ققحتل

ححص لكشب نيوكتلا لمع ديكأتل مسقلا اذه مدختسا.

```
H2# ping 172.20.1.100
PING 172.20.1.100 (172.20.1.100): 56 data bytes
36 bytes from 172.20.1.101: Destination Host Unreachable
Request 0 timed out
64 bytes from 172.20.1.100: icmp_seq=1 ttl=254 time=2.324 ms
64 bytes from 172.20.1.100: icmp_seq=2 ttl=254 time=1.546 ms
64 bytes from 172.20.1.100: icmp_seq=3 ttl=254 time=1.574 ms
64 bytes from 172.20.1.100: icmp_seq=4 ttl=254 time=1.527 ms
```



G 200 00f6.634f.1473 static - F F sup-eth1(R)

Leaf1#

Leaf2# show mac address-table

Legend:

\* - primary entry, G - Gateway MAC, (R) - Routed MAC, O - Overlay MAC

age - seconds since last seen,+ - primary entry using vPC Peer-Link,

(T) - True, (F) - False, C - ControlPlane MAC, ~ - vsan

VLAN MAC Address Type age Secure NTFY Ports

-----+-----+-----+-----+-----+-----

\* 10 00f6.634e.ea4f static - F F Vlan10

\* 10 00f6.634f.1473 static - F F nve1(192.168.1.3)

\* 10 0200.c0a8.0133 static - F F nve1(192.168.1.51)

C 100 005d.73bb.10fc dynamic 0 F F nve1(192.168.1.51)

C 100 6cb2.aefa.2b01 dynamic 0 F F Po111

C 200 005d.73bb.10fc dynamic 0 F F nve1(192.168.1.51)

\* 200 6cb2.aefa.2b01 dynamic 0 F F Po111

G - 0000.2222.3333 static - F F sup-eth1(R)

G - 00f6.634e.ea4f static - F F sup-eth1(R)

G 10 00f6.634e.ea4f static - F F sup-eth1(R)

G 100 00f6.634e.ea4f static - F F sup-eth1(R)

G 200 00f6.634e.ea4f static - F F sup-eth1(R)

Leaf2#

Leaf2#

Leaf3# show mac address-table

Legend:

\* - primary entry, G - Gateway MAC, (R) - Routed MAC, O - Overlay MAC

age - seconds since last seen,+ - primary entry using vPC Peer-Link,

(T) - True, (F) - False, C - ControlPlane MAC, ~ - vsan,

(NA)- Not Applicable

VLAN MAC Address Type age Secure NTFY Ports

-----+-----+-----+-----+-----+-----

\* 100 005d.73bb.10fc dynamic NA F F Po30

C 100 6cb2.aefa.2b01 dynamic NA F F nve1(192.168.1.3)

\* 200 005d.73bb.10fc dynamic NA F F Po30

C 200 6cb2.aefa.2b01 dynamic NA F F nve1(192.168.1.3)

G - 0000.2222.3333 static - F F sup-eth1(R)

G 100 003a.9c07.9b07 static - F F vPC Peer-Link(R)

G 400 003a.9c07.9b07 static - F F vPC Peer-Link(R)

G 200 003a.9c07.9b07 static - F F vPC Peer-Link(R)

G - 0200.c0a8.0133 static - F F sup-eth1(R)

G - 8c94.1f5f.f787 static - F F sup-eth1(R)

G 10 8c94.1f5f.f787 static - F F sup-eth1(R)

G 100 8c94.1f5f.f787 static - F F sup-eth1(R)

G 200 8c94.1f5f.f787 static - F F sup-eth1(R)

Leaf3#

Leaf3#

Leaf4# show mac address-table

Legend:

\* - primary entry, G - Gateway MAC, (R) - Routed MAC, O - Overlay MAC

age - seconds since last seen,+ - primary entry using vPC Peer-Link,

(T) - True, (F) - False, C - ControlPlane MAC, ~ - vsan,

(NA)- Not Applicable

VLAN MAC Address Type age Secure NTFY Ports

-----+-----+-----+-----+-----+-----

+ 100 005d.73bb.10fc dynamic NA F F Po30

C 100 6cb2.aefa.2b01 dynamic NA F F nve1(192.168.1.3)

+ 200 005d.73bb.10fc dynamic NA F F Po30

C 200 6cb2.aefa.2b01 dynamic NA F F nve1(192.168.1.3)

G - 0000.2222.3333 static - F F sup-eth1(R)

G - 003a.9c07.9b07 static - F F sup-eth1(R)

```
G 10 003a.9c07.9b07 static - F F sup-eth1(R)
G 100 003a.9c07.9b07 static - F F sup-eth1(R)
G 400 003a.9c07.9b07 static - F F sup-eth1(R)
G 200 003a.9c07.9b07 static - F F sup-eth1(R)
G - 0200.c0a8.0133 static - F F sup-eth1(R)
G 100 8c94.1f5f.f787 static - F F vPC Peer-Link(R)
G 200 8c94.1f5f.f787 static - F F vPC Peer-Link(R)
Leaf4#
```

## اهحال صاوا عااطخاا فاشكسا

اهحال صاوا نيوكتاا عااطخا فاشكسااا اهمادختسااا ككناكي تامولعم مسقلا اذرفوي

```
Leaf2# show nve ethernet-segment
ESI: 0300.0000.0020.1100.07db
  Parent interface: port-channel111
  ES State: Up
  Port-channel state: Up
  NVE Interface: nve1
  NVE State: Up
  Host Learning Mode: control-plane
  Active VLANs: 100,200,300,400
  DF VLANs:
  Active VNIs: 5001001-5001002
  CC failed for VLANs:
  VLAN CC timer: 0
  Number of ES members: 2
  My ordinal: 1
  DF timer start time: 00:00:00
  Config State: config-applied
  DF List: 192.168.1.3 192.168.1.4
  ES route added to L2RIB: True
  EAD/ES routes added to L2RIB: True
  EAD/EVI route timer age: not running
-----
```

```
Leaf2# show port-ch summary
Flags: D - Down          P - Up in port-channel (members)
       I - Individual    H - Hot-standby (LACP only)
       s - Suspended     r - Module-removed
       b - BFD Session Wait
       S - Switched      R - Routed
       U - Up (port-channel)
       p - Up in delay-lacp mode (member)
       M - Not in use. Min-links not met
-----
```

Group	Port-Channel	Type	Protocol	Member Ports
111	Po111(SU)	Eth	LACP	Eth1/6(P)

```
Leaf2# show bgp l2vpn evpn
BGP routing table information for VRF default, address family L2VPN EVPN
BGP table version is 123, Local Router ID is 192.168.1.4
Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, *-valid, >-best
Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist, I-injected
```

Origin codes: i - IGP, e - EGP, ? - incomplete, | - multipath, & - backup, 2 - best2

Network	Next Hop	Metric	LocPrf	Weight	Path
Route Distinguisher: 192.168.1.3:19536					
*>i[1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152	192.168.1.3		100	0	i
* i	192.168.1.3		100	0	i
Route Distinguisher: 192.168.1.3:27110					
*>i[4]:[0300.0000.0020.1100.07db]:[32]:[192.168.1.3]/136	192.168.1.3		100	0	i
* i	192.168.1.3		100	0	i
Route Distinguisher: 192.168.1.3:32867					
*>i[1]:[0300.0000.0020.1100.07db]:[0x0]/152	192.168.1.3		100	0	i
* i	192.168.1.3		100	0	i
*>i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[0]:[0.0.0.0]/216	192.168.1.3		100	0	i
* i	192.168.1.3		100	0	i
*>i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.100]/272	192.168.1.3		100	0	i
* i	192.168.1.3		100	0	i
Route Distinguisher: 192.168.1.3:32967					
*>i[1]:[0300.0000.0020.1100.07db]:[0x0]/152	192.168.1.3		100	0	i
* i	192.168.1.3		100	0	i
Route Distinguisher: 192.168.1.4:27110 (ES [0300.0000.0020.1100.07db 0])					
*>i[4]:[0300.0000.0020.1100.07db]:[32]:[192.168.1.3]/136	192.168.1.3		100	0	i
*>  [4]:[0300.0000.0020.1100.07db]:[32]:[192.168.1.4]/136	192.168.1.4		100	32768	
Route Distinguisher: 192.168.1.4:32867 (L2VNI 5001002)					
* i[1]:[0300.0000.0020.1100.07db]:[0x0]/152	192.168.1.3		100	0	i
*>	192.168.1.4		100	32768	i
*>i[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216	192.168.1.51		100	0	i
*>i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[0]:[0.0.0.0]/216	192.168.1.51		100	0	i
* i	192.168.1.51		100	0	i
* i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[0]:[0.0.0.0]/216	192.168.1.3		100	0	i
*>	192.168.1.4		100	32768	i
*>i[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216	192.168.1.51		100	0	i
* i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[32]:[172.20.1.101]/272	192.168.1.51		100	0	i
*>i	192.168.1.51		100	0	i
* i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.100]/272	192.168.1.3		100	0	i
*>	192.168.1.4		100	32768	i
Route Distinguisher: 192.168.1.4:32967 (L2VNI 5001001)					
* i[1]:[0300.0000.0020.1100.07db]:[0x0]/152	192.168.1.3		100	0	i
*>	192.168.1.4		100	32768	i
*>i[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216	192.168.1.51		100	0	i

```

*>i[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216
    192.168.1.51                    100          0 i

Route Distinguisher: 192.168.1.4:65534 (L2VNI 0)
*>i[1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152
    192.168.1.3                    100          0 i

Route Distinguisher: 192.168.1.7:3
* i[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216
    192.168.1.51                    100          0 i
*>i
    192.168.1.51                    100          0 i

Route Distinguisher: 192.168.1.7:32867
* i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[0]:[0.0.0.0]/216
    192.168.1.51                    100          0 i
*>i
    192.168.1.51                    100          0 i
* i[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216
    192.168.1.51                    100          0 i
*>i
    192.168.1.51                    100          0 i
* i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[32]:[172.20.1.101]/272
    192.168.1.51                    100          0 i
*>i
    192.168.1.51                    100          0 i

Route Distinguisher: 192.168.1.7:32967
* i[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216
    192.168.1.51                    100          0 i
*>i
    192.168.1.51                    100          0 i

Route Distinguisher: 192.168.1.8:3
* i[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216
    192.168.1.51                    100          0 i
*>i
    192.168.1.51                    100          0 i

Route Distinguisher: 192.168.1.8:32867
* i[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216
    192.168.1.51                    100          0 i
*>i
    192.168.1.51                    100          0 i
* i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[0]:[0.0.0.0]/216
    192.168.1.51                    100          0 i
*>i
    192.168.1.51                    100          0 i
* i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[32]:[172.20.1.101]/272
    192.168.1.51                    100          0 i
*>i
    192.168.1.51                    100          0 i

Route Distinguisher: 192.168.1.8:32967
* i[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216
    192.168.1.51                    100          0 i
*>i
    192.168.1.51                    100          0 i

Route Distinguisher: 192.168.1.4:19536 (EAD-ES [0300.0000.0020.1100.07db 19536])
*>l[1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152
    192.168.1.4                    100        32768 i

```

Leaf2#

Leaf1# show port-ch su

```

Flags:  D - Down          P - Up in port-channel (members)
        I - Individual    H - Hot-standby (LACP only)
        s - Suspended     r - Module-removed
        b - BFD Session Wait
        S - Switched      R - Routed
        U - Up (port-channel)
        p - Up in delay-lacp mode (member)

```

M - Not in use. Min-links not met

```
-----  
Group Port-      Type      Protoco1  Member Ports  
  Channel  
-----
```

```
111 Po111(SU)  Eth      LACP      Eth1/6(P)
```

Leaf1#

Leaf1#

Leaf1# show nve ethernet-segment

ESI: 0300.0000.0020.1100.07db

Parent interface: port-channel111

ES State: Up

Port-channel state: Up

NVE Interface: nve1

NVE State: Up

Host Learning Mode: control-plane

Active VLANs: 100,200,300,400

DF VLANs: 100,200,300,400

Active VNIs: 5001001-5001002

CC failed for VLANs:

VLAN CC timer: 0

Number of ES members: 2

My ordinal: 0

DF timer start time: 00:00:00

Config State: config-applied

DF List: 192.168.1.3 192.168.1.4

ES route added to L2RIB: True

EAD/ES routes added to L2RIB: True

EAD/EVI route timer age: not running

```
-----  
Leaf1#
```

Leaf1# show bgp l2vpn evpn

BGP routing table information for VRF default, address family L2VPN EVPN

BGP table version is 189, Local Router ID is 192.168.1.3

Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, \*-valid, >-best

Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist, I-injected

Origin codes: i - IGP, e - EGP, ? - incomplete, | - multipath, & - backup, 2 - best2

Network	Next Hop	Metric	LocPrf	Weight	Path
Route Distinguisher: 192.168.1.3:27110 (ES [0300.0000.0020.1100.07db 0])					
*>l[4]:[0300.0000.0020.1100.07db]:[32]:[192.168.1.3]/136	192.168.1.3		100	32768	i
*>i[4]:[0300.0000.0020.1100.07db]:[32]:[192.168.1.4]/136	192.168.1.4		100	0	i
Route Distinguisher: 192.168.1.3:32867 (L2VNI 5001002)					
*>l[1]:[0300.0000.0020.1100.07db]:[0x0]/152	192.168.1.3		100	32768	i
* i	192.168.1.4		100	0	i
*>i[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216	192.168.1.51		100	0	i
*>i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[0]:[0.0.0.0]/216	192.168.1.51		100	0	i
* i	192.168.1.51		100	0	i
*>l[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[0]:[0.0.0.0]/216	192.168.1.3		100	32768	i
* i	192.168.1.4		100	0	i
*>i[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216	192.168.1.51		100	0	i
* i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[32]:[172.20.1.101]/272	192.168.1.51		100	0	i



```

*>i          192.168.1.51          100          0 i
*>l[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.100]/272
          192.168.1.3          100          32768 i
* i          192.168.1.4          100          0 i

```

Route Distinguisher: 192.168.1.3:32967 (L2VNI 5001001)

```

*>l[1]:[0300.0000.0020.1100.07db]:[0x0]/152
          192.168.1.3          100          32768 i
* i          192.168.1.4          100          0 i
*>i[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216
          192.168.1.51          100          0 i
*>i[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216
          192.168.1.51          100          0 i

```

Route Distinguisher: 192.168.1.3:65534 (L2VNI 0)

```

*>i[1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152
          192.168.1.4          100          0 i

```

Route Distinguisher: 192.168.1.4:19536

```

* i[1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152
          192.168.1.4          100          0 i
*>i          192.168.1.4          100          0 i

```

Route Distinguisher: 192.168.1.4:27110

```

* i[4]:[0300.0000.0020.1100.07db]:[32]:[192.168.1.4]/136
          192.168.1.4          100          0 i
*>i          192.168.1.4          100          0 i

```

Route Distinguisher: 192.168.1.4:32867

```

* i[1]:[0300.0000.0020.1100.07db]:[0x0]/152
          192.168.1.4          100          0 i
*>i          192.168.1.4          100          0 i
* i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[0]:[0.0.0.0]/216
          192.168.1.4          100          0 i
*>i          192.168.1.4          100          0 i
* i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.100]/272
          192.168.1.4          100          0 i
*>i          192.168.1.4          100          0 i

```

Route Distinguisher: 192.168.1.4:32967

```

* i[1]:[0300.0000.0020.1100.07db]:[0x0]/152
          192.168.1.4          100          0 i
*>i          192.168.1.4          100          0 i

```

Route Distinguisher: 192.168.1.7:3

```

* i[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216
          192.168.1.51          100          0 i
*>i          192.168.1.51          100          0 i

```

Route Distinguisher: 192.168.1.7:32867

```

* i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[0]:[0.0.0.0]/216
          192.168.1.51          100          0 i
*>i          192.168.1.51          100          0 i
* i[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216
          192.168.1.51          100          0 i
*>i          192.168.1.51          100          0 i
* i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[32]:[172.20.1.101]/272
          192.168.1.51          100          0 i
*>i          192.168.1.51          100          0 i

```

Route Distinguisher: 192.168.1.7:32967

```

* i[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216

```

```

192.168.1.51          100          0 i
*>i          192.168.1.51          100          0 i

Route Distinguisher: 192.168.1.8:3
* i[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216
192.168.1.51          100          0 i
*>i          192.168.1.51          100          0 i

Route Distinguisher: 192.168.1.8:32867
* i[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216
192.168.1.51          100          0 i
*>i          192.168.1.51          100          0 i
* i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[0]:[0.0.0.0]/216
192.168.1.51          100          0 i
*>i          192.168.1.51          100          0 i
* i[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[32]:[172.20.1.101]/272
192.168.1.51          100          0 i
*>i          192.168.1.51          100          0 i

Route Distinguisher: 192.168.1.8:32967
* i[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216
192.168.1.51          100          0 i
*>i          192.168.1.51          100          0 i

Route Distinguisher: 192.168.1.3:19536 (EAD-ES [0300.0000.0020.1100.07db 19536])
*>l[1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152
192.168.1.3          100          32768 i

```

Leaf1#

Leaf3# show port-ch summary

```

Flags: D - Down          P - Up in port-channel (members)
       I - Individual    H - Hot-standby (LACP only)
       s - Suspended     r - Module-removed
       b - BFD Session Wait
       S - Switched      R - Routed
       U - Up (port-channel)
       p - Up in delay-lacp mode (member)
       M - Not in use. Min-links not met

```

```

-----
Group Port-      Type      Protocol  Member Ports
Channel
-----

```

```

10   Po10(SU)    Eth       NONE      --
30   Po30(SU)    Eth       LACP      Eth1/5(P)

```

Leaf3#

Leaf3# show vpc

Legend:

(\*) - local vPC is down, forwarding via vPC peer-link

```

vPC domain id          : 100
Peer status             : peer adjacency formed ok
vPC keep-alive status  : peer is alive
Configuration consistency status : success
Per-vlan consistency status : success
Type-2 consistency status : success
vPC role                : secondary
Number of vPCs configured : 1
Peer Gateway           : Enabled
Dual-active excluded VLANs : -
Graceful Consistency Check : Enabled
Auto-recovery status   : Disabled

```

Delay-restore status : Timer is off.(timeout = 30s)  
Delay-restore SVI status : Timer is off.(timeout = 10s)  
Operational Layer3 Peer-router : Disabled  
Virtual-peerlink mode : Enabled

vPC Peer-link status

```
-----  
id   Port   Status Active vlans  
--   ----  
1    Po10   up     100,200
```

vPC status

```
-----  
Id   Port           Status Consistency Reason           Active vlans  
--   ----  
30   Po30           up     success      success           100,200
```

Please check "show vpc consistency-parameters vpc

" for the

consistency reason of down vpc and for type-2 consistency reasons for

any vpc.

Leaf3# show bgp l2vpn evpn

BGP routing table information for VRF default, address family L2VPN EVPN

BGP table version is 66, Local Router ID is 192.168.1.7

Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, \*-valid, >-best

Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist, I-injected

Origin codes: i - IGP, e - EGP, ? - incomplete, | - multipath, & - backup, 2 -best2

Network	Next Hop	Metric	LocPrf	Weight	Path
---------	----------	--------	--------	--------	------

Route Distinguisher: 192.168.1.3:19536

\*>i [1]: [0300.0000.0020.1100.07db]: [0xffffffff]/152

	192.168.1.3		100	0	i
--	-------------	--	-----	---	---

* i	192.168.1.3		100	0	i
-----	-------------	--	-----	---	---

Route Distinguisher: 192.168.1.3:32867

\*>i [1]: [0300.0000.0020.1100.07db]: [0x0]/152

	192.168.1.3		100	0	i
--	-------------	--	-----	---	---

* i	192.168.1.3		100	0	i
-----	-------------	--	-----	---	---

\*>i [2]: [0]: [0]: [48]: [6cb2.aefa.2b01]: [0]: [0.0.0.0]/216

	192.168.1.3		100	0	i
--	-------------	--	-----	---	---

* i	192.168.1.3		100	0	i
-----	-------------	--	-----	---	---

\*>i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.100]/272

192.168.1.3 100 0 i

\* i 192.168.1.3 100 0 i

Route Distinguisher: 192.168.1.3:32967

\*>i[1]:[0300.0000.0020.1100.07db]:[0x0]/152

192.168.1.3 100 0 i

\* i 192.168.1.3 100 0 i

Route Distinguisher: 192.168.1.4:19536

\* i[1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152

192.168.1.4 100 0 i

\*>i 192.168.1.4 100 0 i

Route Distinguisher: 192.168.1.4:32867

\* i[1]:[0300.0000.0020.1100.07db]:[0x0]/152

192.168.1.4 100 0 i

\*>i 192.168.1.4 100 0 i

\* i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[0]:[0.0.0.0]/216

192.168.1.4 100 0 i

\*>i 192.168.1.4 100 0 i

\* i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.100]/272

192.168.1.4 100 0 i

\*>i 192.168.1.4 100 0 i

Route Distinguisher: 192.168.1.4:32967

\* i[1]:[0300.0000.0020.1100.07db]:[0x0]/152

192.168.1.4 100 0 i

\*>i 192.168.1.4 100 0 i

Route Distinguisher: 192.168.1.7:32867 (L2VNI 5001002)

\*>i [1]: [0300.0000.0020.1100.07db]: [0x0]/152

192.168.1.3 100 0 i

\*|i 192.168.1.4 100 0 i

\*>l [2]: [0]: [0]: [48]: [005d.73bb.10fc]: [0]: [0.0.0.0]/216

192.168.1.51 100 32768 i

\*>i [2]: [0]: [0]: [48]: [6cb2.aefa.2b01]: [0]: [0.0.0.0]/216

192.168.1.3 100 0 i

\*|i 192.168.1.4 100 0 i

\*>l [2]: [0]: [0]: [48]: [8c94.1f5f.f787]: [0]: [0.0.0.0]/216

192.168.1.51 100 32768 i

\*>l [2]: [0]: [0]: [48]: [005d.73bb.10fc]: [32]: [172.20.1.101]/272

192.168.1.51 100 32768 i

\*>i [2]: [0]: [0]: [48]: [6cb2.aefa.2b01]: [32]: [172.20.1.100]/272

192.168.1.3 100 0 i

\*|i 192.168.1.4 100 0 i

Route Distinguisher: 192.168.1.7:32967 (L2VNI 5001001)

\*>i[1]:[0300.0000.0020.1100.07db]:[0x0]/152

192.168.1.3 100 0 i

\*|i 192.168.1.4 100 0 i

\*>l[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216

192.168.1.51 100 32768 i

Route Distinguisher: 192.168.1.7:65534 (L2VNI 0)

\*>i[1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152

192.168.1.3 100 0 i

\*|i 192.168.1.4 100 0 i

Route Distinguisher: 192.168.1.7:3 (L3VNI 500001)

\*>l[2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216

192.168.1.51 100 32768 i



```
*>i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.10]/272
```

```
192.168.1.3 100 0 i
```

```
*|i 192.168.1.4 100 0 i
```

```
Leaf4#
```

```
Leaf4# show vpc
```

```
Legend:
```

```
(*) - local vPC is down, forwarding via vPC peer-link
```

```
vPC domain id          : 100
Peer status            : peer adjacency formed ok
vPC keep-alive status  : peer is alive
Configuration consistency status : success
Per-vlan consistency status : success
Type-2 consistency status : success
vPC role               : primary
Number of vPCs configured : 1
Peer Gateway          : Enabled
Dual-active excluded VLANs : -
Graceful Consistency Check : Enabled
Auto-recovery status  : Disabled
Delay-restore status  : Timer is off.(timeout = 30s)
Delay-restore SVI status : Timer is off.(timeout = 10s)
Operational Layer3 Peer-router : Disabled
Virtual-peerlink mode : Enabled
```

```
vPC Peer-link status
```

```
-----
id  Port  Status Active vlans
--  ---  -----
1   Po10  up    100,200
-----
```

```
vPC status
```

```
-----
Id  Port  Status Consistency Reason  Active vlans
--  ---  -----
30  Po30  up    success    success    100,200
-----
```

Please check "show vpc consistency-parameters vpc <vpc-num>" for the consistency reason of down vpc and for type-2 consistency reasons for any vpc.

```
Leaf4#
```

Leaf4# show port-channel summary

Flags: D - Down P - Up in port-channel (members)  
I - Individual H - Hot-standby (LACP only)  
s - Suspended r - Module-removed  
b - BFD Session Wait  
S - Switched R - Routed  
U - Up (port-channel)  
p - Up in delay-lacp mode (member)  
M - Not in use. Min-links not met

---

Group	Port-Channel	Type	Protocol	Member Ports
10	Po10(SU)	Eth	NONE	--
30	Po30(SU)	Eth	LACP	Eth1/5(P)

---

Leaf4#

Leaf4#

Leaf4# show bgp l2v evpn

BGP routing table information for VRF default, address family L2VPN EVPN

BGP table version is 101, Local Router ID is 192.168.1.8

Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, \*-valid, >-best

Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist, I-injected

Origin codes: i - IGP, e - EGP, ? - incomplete, | - multipath, & - backup, 2 - best2

Network	Next Hop	Metric	LocPrf	Weight	Path
Route Distinguisher: 192.168.1.3:19536					
*>i[1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152	192.168.1.3		100	0	i
* i	192.168.1.3		100	0	i
Route Distinguisher: 192.168.1.3:32867					
*>i[1]:[0300.0000.0020.1100.07db]:[0x0]/152	192.168.1.3		100	0	i
* i	192.168.1.3		100	0	i
*>i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[0]:[0.0.0.0]/216	192.168.1.3		100	0	i
* i	192.168.1.3		100	0	i
*>i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.100]/272	192.168.1.3		100	0	i
* i	192.168.1.3		100	0	i
Route Distinguisher: 192.168.1.3:32967					
*>i[1]:[0300.0000.0020.1100.07db]:[0x0]/152	192.168.1.3		100	0	i
* i	192.168.1.3		100	0	i
Route Distinguisher: 192.168.1.4:19536					
* i[1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152	192.168.1.4		100	0	i
*>i	192.168.1.4		100	0	i
Route Distinguisher: 192.168.1.4:32867					
* i[1]:[0300.0000.0020.1100.07db]:[0x0]/152	192.168.1.4		100	0	i
*>i	192.168.1.4		100	0	i
* i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[0]:[0.0.0.0]/216	192.168.1.4		100	0	i
*>i	192.168.1.4		100	0	i
* i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.100]/272	192.168.1.4		100	0	i
*>i	192.168.1.4		100	0	i

Route Distinguisher: 192.168.1.4:32967

```
* i[1]:[0300.0000.0020.1100.07db]:[0x0]/152
    192.168.1.4          100          0 i
*>i          192.168.1.4          100          0 i
```

Route Distinguisher: 192.168.1.8:32867 (L2VNI 5001002)

```
*>i[1]:[0300.0000.0020.1100.07db]:[0x0]/152
    192.168.1.3          100          0 i
*|i          192.168.1.4          100          0 i
*>l[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216
    192.168.1.51        100          32768 i
*>l[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[0]:[0.0.0.0]/216
    192.168.1.51        100          32768 i
*>i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[0]:[0.0.0.0]/216
    192.168.1.3          100          0 i
*|i          192.168.1.4          100          0 i
*>l[2]:[0]:[0]:[48]:[005d.73bb.10fc]:[32]:[172.20.1.101]/272
    192.168.1.51        100          32768 i
*>i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.100]/272
    192.168.1.3          100          0 i
*|i          192.168.1.4          100          0 i
```

Route Distinguisher: 192.168.1.8:32967 (L2VNI 5001001)

```
*>i[1]:[0300.0000.0020.1100.07db]:[0x0]/152
    192.168.1.3          100          0 i
*|i          192.168.1.4          100          0 i
*>l[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216
    192.168.1.51        100          32768 i
```

Route Distinguisher: 192.168.1.8:65534 (L2VNI 0)

```
*>i[1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152
    192.168.1.3          100          0 i
*|i          192.168.1.4          100          0 i
```

Route Distinguisher: 192.168.1.8:3 (L3VNI 500001)

```
*>l[2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216
    192.168.1.51        100          32768 i
*>i[2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.100]/272
    192.168.1.3          100          0 i
*|i          192.168.1.4          100          0 i
```

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ي ل ا م ا د ع و ج ر ل ا ب ي ص و ت و ت ا مچرت ل ا ه ذ ه ة ق د ن ع ا ه ت ي ل و ئ س م Cisco  
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