

# 在EVPN VXLAN中配置和驗證LACP ESI多宿主

## 目錄

---

### [簡介](#)

### [必要條件](#)

#### [需求](#)

#### [採用元件](#)

### [設定](#)

#### [網路圖表](#)

#### [骨幹-1](#)

#### [骨幹-2](#)

#### [枝葉-1](#)

#### [枝葉-2](#)

#### [枝葉-3](#)

#### [枝葉-4](#)

#### [主機1](#)

#### [主機2](#)

### [驗證](#)

### [疑難排解](#)

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## 簡介

本檔案介紹如何在Nexus 9000上部署連結彙總控制通訊協定(LACP)主動/主動EVPN虛擬可擴充區域網路(VXLAN)。

## 必要條件

### 需求

思科建議您瞭解以下主題：

- 邊界閘道通訊協定(BGP)
- 開放最短路徑優先(OSPF)
- 乙太網路VPN(EVPN)
- 虛擬vPC
- vPC
- 乙太網段

### 採用元件

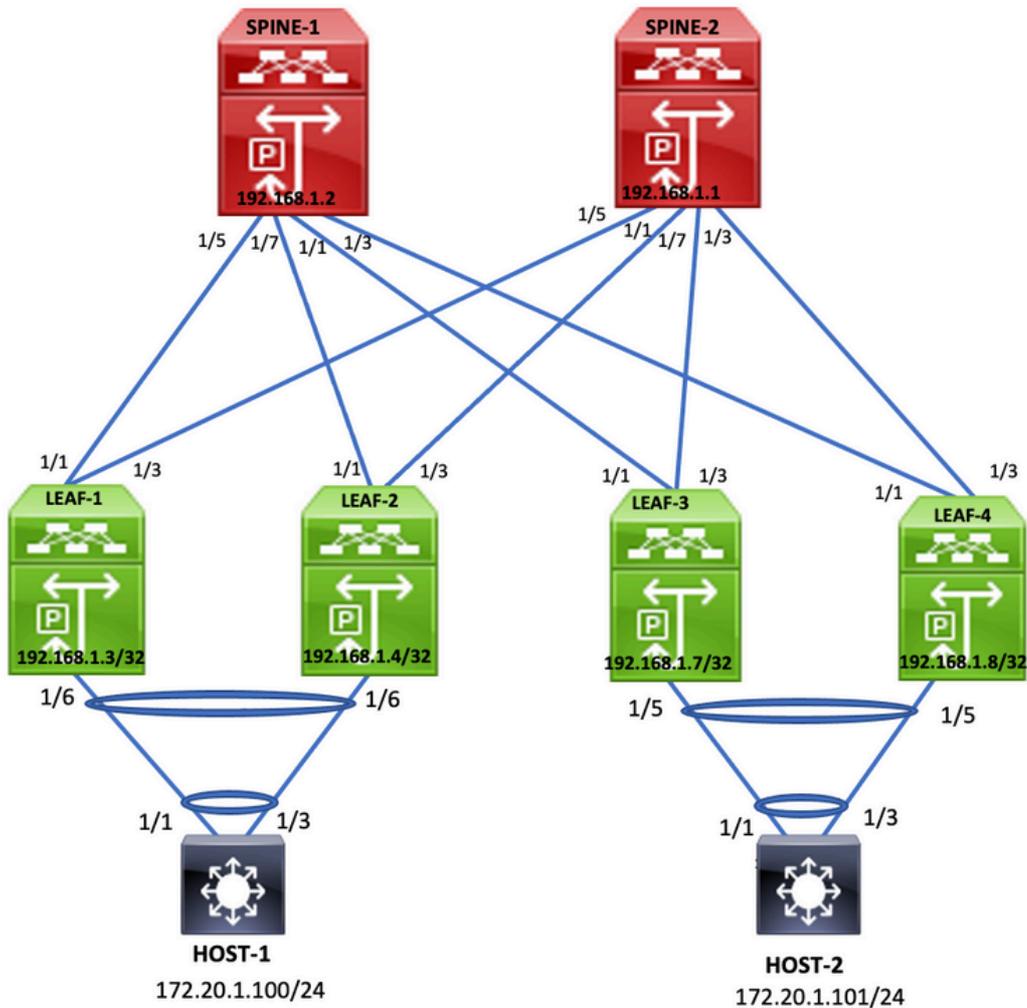
本文中的資訊係根據以下軟體和硬體版本：

- 執行9.3(9)版的Cisco Nexus 9372PX-E [枝葉]
- 執行10.2(2)F版的Cisco Nexus 93180YC-FX [骨幹]
- 執行6.0(2)A8(11b)版的Cisco Nexus 3548機箱[主機]

本文中的資訊是根據特定實驗室環境內的裝置所建立。文中使用到的所有裝置皆從已清除 ( 預設 ) 的組態來啟動。如果您的網路運作中，請確保您瞭解任何指令可能造成的影響。

## 設定

### 網路圖表



### 骨幹-1

```
hostname Spine1

feature scp-server
feature sftp-server
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 172.16.4.2/30
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
```

## 骨幹-2

```
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
```

## 枝葉-1

```
<#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
```

## 枝葉-2

<#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

```

### 枝葉-3

<#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

```

## 枝葉-4

<#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
```

## 主機1

```
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
```

## 主機2

```
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
```

## 驗證

使用本節內容，確認您的組態是否正常運作。

```
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

H2(config-if)# ping 172.20.1.100 source 172.21.1.101
PING 172.20.1.100 (172.20.1.100) from 172.21.1.101: 56 data bytes
```





```
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#
```

## 疑難排解

本節提供的資訊可用於對組態進行疑難排解。

```
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    |
| *>l[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    |
| *>l  | 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    |
| *>l  | 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    |
| *>l  | 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    |
| *>l  | 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      Protocol  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)
*>| [1]:[0300.0000.0020.1100.07db]:[0x0]/152
          192.168.1.3                100      32768 i
* i          192.168.1.4                100          0 i
*>| [2]:[0]:[0]:[48]:[003a.9c07.9b07]:[0]:[0.0.0.0]/216
          192.168.1.51                100          0 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)
*>| [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
*>| [1]:[0300.0000.0020.1100.07db]:[0xffffffff]/152
          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
*>| [4]:[0300.0000.0020.1100.07db]:[32]:[192.168.1.4]/136
          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
*>| [1]:[0300.0000.0020.1100.07db]:[0x0]/152
          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
*>| [2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[0]:[0.0.0.0]/216
          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
*>| [2]:[0]:[0]:[48]:[6cb2.aefa.2b01]:[32]:[172.20.1.100]/272
          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
*>| [1]:[0300.0000.0020.1100.07db]:[0x0]/152
          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
*>| [2]:[0]:[0]:[48]:[8c94.1f5f.f787]:[0]:[0.0.0.0]/216
          192.168.1.51                100          0 i

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

```

```

Route Distinguisher: 192.168.1.8:3
* 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-Channel | Type | Protocol | Member Ports |
|-------|--------------|------|----------|--------------|
| 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-      Type      Protocol  Member Ports
  Channel
-----

```

```

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
```

## 關於此翻譯

思科已使用電腦和人工技術翻譯本文件，讓全世界的使用者能夠以自己的語言理解支援內容。請注意，即使是最佳機器翻譯，也不如專業譯者翻譯的內容準確。Cisco Systems, Inc. 對這些翻譯的準確度概不負責，並建議一律查看原始英文文件（提供連結）。