

Configuration de Nexus EVPN-VXLAN multisite avec le serveur de routage

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Introduction

Ce document décrit comment configurer et vérifier l'environnement multisite Ethernet VPN/Virtual Extensible LAN (EVPN/VxLAN) sur les commutateurs Cisco Nexus 9000. Elle implique l'appairage de fabric virtuel dans les noeuds leaf vPC.

Pour la connectivité de site à site, le concept de serveur de routage est expliqué.

Conditions préalables

Exigences

Cisco vous recommande de prendre connaissance des rubriques suivantes :

- VPN de couche 3 MPLS (Multiprotocol Label Switching)
- Protocole MP-BGP (Multiprotocol-Border Gateway Protocol)
- EVPN

Composants utilisés

Les informations contenues dans ce document sont basées sur les versions de matériel et de logiciel suivantes :

Toutes les feuilles de site	N9K-C9336C-FX2	NXOS : 10.2(3)
Comm1_Spine1	N9K-C9364C	NXOS : 10.2(4)
Comm1_Spine2	N9K-C9364C	NXOS 9.3(5)
S1_Border Gateway1, S2_Border Gateway2, S2_Border Gateway1	N9K-C932C	NXOS : 9.3(9)
Passerelle en limite S1_2	N9K-C932C	NXOS : 10.2(4)
Serveur de routage	N9K-C9396PX	NXOS : 9.2(2)
Hôte 1	N3K-C3264C-E	NXOS : 9.3(5)
Hôte 2 et Hôte 3	N3K-C3264C-E	NXOS : 9.2(2)

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. Si votre réseau est en ligne, assurez-vous de bien comprendre l'incidence possible des commandes.

Informations générales

Le data center est un pool de ressources qui contient la puissance de calcul, le stockage et les applications nécessaires pour prendre en charge n'importe quel environnement d'entreprise. Une planification adéquate de la conception de l'infrastructure du data center est essentielle. Ce document traite des exigences critiques, telles que les réseaux d'hôpitaux, et de la manière de satisfaire ou de dépasser ces exigences. Les déploiements d'infrastructures informatiques et de data centers modernes nécessitent une haute disponibilité (HA), la possibilité d'évoluer à un rythme plus rapide et des performances élevées en permanence.

Quelques exigences essentielles explorées dans l'espace de conception/d'architecture DC incluent :

- La densité des ports est améliorée par l'extendeur de fabric (FEX).
- La capacité de calcul est améliorée par la virtualisation matérielle (UCS).
- La bande passante de liaison ascendante de la couche d'accès est améliorée par port-

channel.

- La redondance au niveau du châssis est améliorée par vPC.
- Le fabric SDN (Software-Defined Networking) est amélioré par l'infrastructure ACI (Application Centric Infrastructure), qui automatise la couche sous-jacente et la couche de superposition dans un fabric.
- Le déploiement et la prise en charge rapides de nouveaux services sont améliorés par Data Center Network Manager (DCNM).
- La bande passante requise pour les applications longue distance est améliorée par la fibre noire ou le service de longueur d'onde.
- Avant tout, la redondance et l'évolutivité géographiques sont des attributs clés pour dynamiser/faire évoluer l'environnement du data center. VxLAN/EVPN multisite nous aide à avoir de meilleures solutions d'interconnexion de data center (DCI).

En quoi le multisite est-il utile ?

La connectivité externe inclut la connexion du data center au reste du réseau : à Internet, au WAN ou au campus. Toutes les options fournies pour la connectivité externe sont compatibles avec les services partagés et se concentrent sur le transport de couche 3 (L3) vers les domaines de réseau externes.

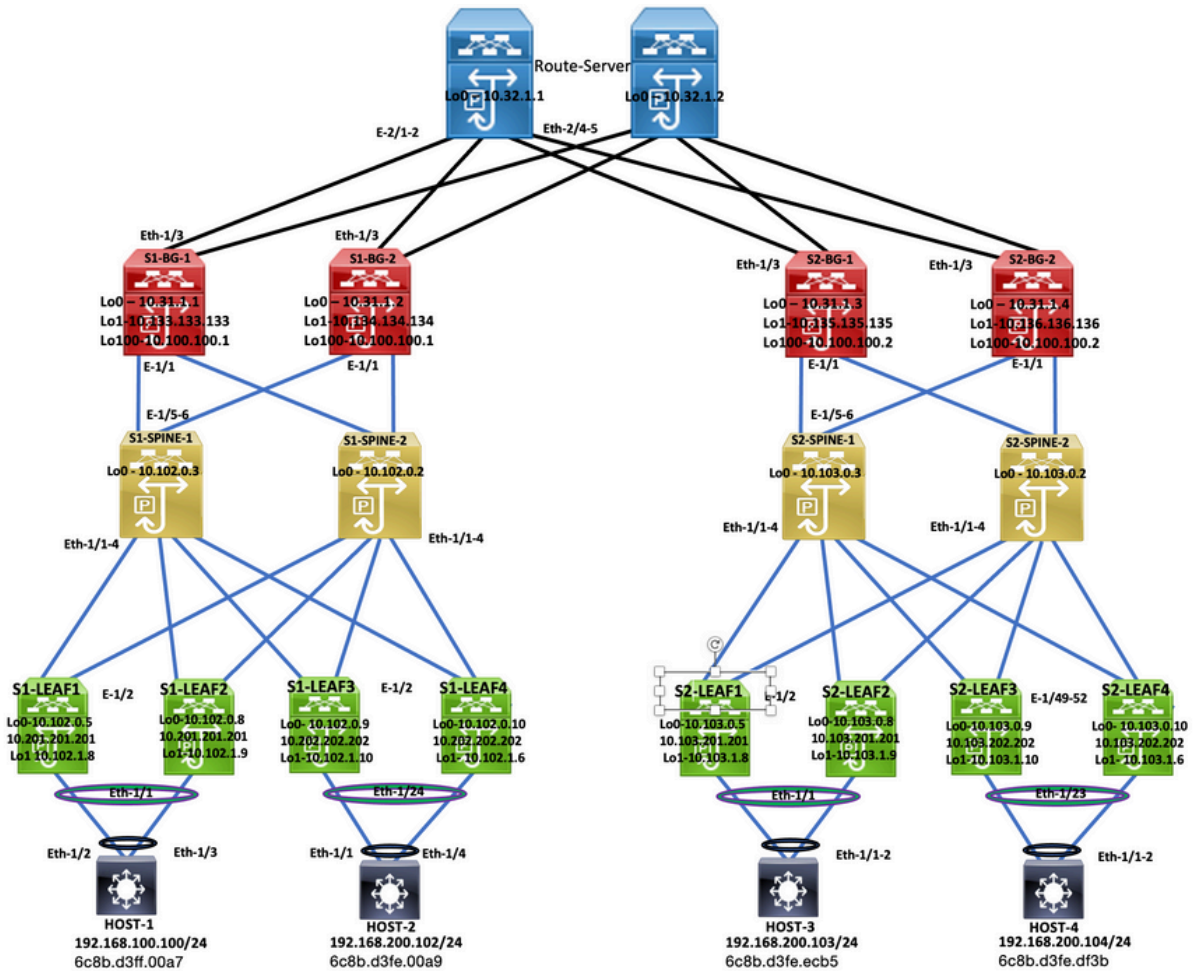
- EVPN est une solution VPN tout-en-un de nouvelle génération.
- Non seulement il fonctionne avec de nombreuses autres technologies VPN, mais il est également meilleur.
- Intégration avec les réseaux existants.
- Publicité/extension sélective :
 - Étendez la seule couche 2 (L2) : des VLAN/sous-réseaux spécifiques qui peuvent être étendus avec des routes de type 2.
 - Extension des seuls domaines L3 - des domaines L3 spécifiques peuvent être étendus avec des routes de type 5.
- Détection automatique du groupe de redondance avec les routes de type 4.
- Aliasage, retrait massif d'adresses, indication de multihébergement (MH) à horizon divisé (SH) avec routes de type 1.
- Détection automatique des points d'extrémité de tunnel de multidiffusion et du type de tunnel de multidiffusion (MCAST) avec des routes de type 3.

Autres avantages

- Équilibrage de la charge de travail entre les data centers et les clouds.
- Réponse proactive aux perturbations - réduit les risques de catastrophes imminentes, telles que les ouragans et les inondations.
- Maintenance et migrations du data center : événements planifiés sur une période donnée et intégration avec les réseaux existants.
- Sauvegarde et reprise après sinistre en tant que service (aaS).

Configurer

Diagramme du réseau



Topologie

Configuration Leaf-1 du site 1

```

feature nxapi
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

fabric forwarding anycast-gateway-mac 0000.1111.2222

ip pim rp-address 10.102.0.2 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8
ip igmp snooping vxlan

vlan 1,100,200,300-350,2001
    
```

```
vlan 100
  vn-segment 4000100
vlan 200
  vn-segment 4000200
vlan 301
  vn-segment 4000301
vlan 302
  vn-segment 4000302
vlan 303
  vn-segment 4000303
vlan 350
  name L3-VNI
  vn-segment 4000999
vlan 2001
  vn-segment 4000502

vrf context L3VNI4000999
  vni 4000999
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn
vrf context vrf_1
  vni 4000501
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn

vrf context vrf_2
  vni 4000502
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn
vpc domain 100
  peer-switch
  peer-keepalive destination 10.197.214.54 source 10.197.214.53
  virtual peer-link destination 10.102.1.9 source 10.102.1.8 dscp 56
  delay restore 150
  peer-gateway
  ip arp synchronize

interface Vlan100
  no shutdown
  mtu 9216
  vrf member vrf_2
  no ip redirects
  ip address 192.168.100.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway

interface Vlan200
  no shutdown
  mtu 9216
  vrf member vrf_2
  no ip redirects
  ip address 192.168.200.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway

interface Vlan301
```

```
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.11.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan302
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.12.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan303
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.13.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan2001
no shutdown
mtu 9000
vrf member vrf_2
no ip redirects
ip forward
ipv6 address use-link-local-only
no ipv6 redirects
```

```
interface port-channel10
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300-350,2001
spanning-tree port type network
vpc peer-link
```

```
interface port-channel100
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200
mtu 9216
vpc 100
```

```
interface nve1
no shutdown
host-reachability protocol bgp
advertise virtual-rmac
source-interface loopback1
member vni 4000100
  suppress-arp
  mcast-group 231.0.0.1
member vni 4000200
  suppress-arp
  mcast-group 231.0.0.2
member vni 4000502 associate-vrf
```

```
interface Ethernet1/1
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 100,200
  mtu 9216
  channel-group 100
  no shutdown
```

```
interface Ethernet1/2
  mtu 9216
  port-type fabric
  medium p2p
  ip address 192.168.17.12/24
  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 10.102.0.5/32
  ip router ospf 100 area 0.0.0.0
  ip pim sparse-mode
```

```
interface loopback1
  ip address 10.102.1.8/32
  ip address 10.201.201.201/32 secondary
  ip router ospf 100 area 0.0.0.0
  ip pim sparse-mode
```

```
router ospf 100
  router-id 10.102.0.5
router bgp 100
  router-id 10.102.0.5
  log-neighbor-changes
  address-family l2vpn evpn
    advertise-pip
  neighbor 10.102.0.2
    remote-as 100
    update-source loopback0
    address-family ipv4 unicast
    address-family ipv6 unicast
      send-community
      send-community extended
    address-family l2vpn evpn
      send-community
      send-community extended
  neighbor 10.102.0.3
    remote-as 100
    update-source loopback0
    address-family ipv4 unicast
    address-family ipv6 unicast
      send-community
      send-community extended
    address-family l2vpn evpn
      send-community
      send-community extended
```

```
evpn
  vni 4000100 l2
  rd auto
  route-target import auto
  route-target export auto
```

```
vni 4000200 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000301 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000302 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000303 12
  rd auto
  route-target import auto
  route-target export auto
```

Configuration Leaf-2 du site 1

```
feature nxapi
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
fabric forwarding anycast-gateway-mac 0000.1111.2222

ip pim rp-address 10.102.0.2 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

vlan 1,100,200,300-350,2001

vlan 100
  vn-segment 4000100
vlan 200
  vn-segment 4000200
vlan 301
  vn-segment 4000301
vlan 302
  vn-segment 4000302
vlan 303
  vn-segment 4000303
vlan 350
  name L3-VNI
  vn-segment 4000999
vlan 2001
  vn-segment 4000502

vrf context L3VNI4000999
  vni 4000999
```



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

vrf context vrf_1
vni 4000501
rd auto
address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn

vrf context vrf_2
vni 4000502
rd auto
address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn

vpc domain 100
peer-switch
peer-keepalive destination 10.197.214.53 source 10.197.214.54
virtual peer-link destination 10.102.1.8 source 10.102.1.9 dscp 56
delay restore 150
peer-gateway
ip arp synchronize

interface Vlan100
no shutdown
mtu 9216
vrf member vrf_2
no ip redirects
ip address 192.168.100.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan200
no shutdown
mtu 9216
vrf member vrf_2
no ip redirects
ip address 192.168.200.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan301
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.11.254/24
no ipv6 redirects

fabric forwarding mode anycast-gateway
interface Vlan302
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.12.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan303
  no shutdown
  mtu 9216
  vrf member vrf_1
  no ip redirects
  ip address 172.16.13.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway
```

```
interface Vlan2001
  no shutdown
  mtu 9000
  vrf member vrf_2
  no ip redirects
  ip forward
  ipv6 address use-link-local-only
  no ipv6 redirects
```

```
interface port-channel10
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300-350,2001
  spanning-tree port type network
  vpc peer-link
```

```
interface port-channel100
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 100,200
  mtu 9216
  vpc 100
```

```
interface nve1
  no shutdown
  host-reachability protocol bgp
  advertise virtual-rmac
  source-interface loopback1
  member vni 4000100
    suppress-arp
    mcast-group 231.0.0.1
  member vni 4000200
    suppress-arp
    mcast-group 231.0.0.2
  member vni 4000502 associate-vrf
```

```
interface Ethernet1/1
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 100,200
  mtu 9216
  channel-group 100
  no shutdown
```

```
interface Ethernet1/2
  mtu 9216
  port-type fabric
  medium p2p
  ip address 192.168.18.12/24
  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 10.102.0.8/32
 ip router ospf 100 area 0.0.0.0
 ip pim sparse-mode

interface loopback1
 ip address 10.102.1.9/32
 ip address 10.201.201.201/32 secondary
 ip router ospf 100 area 0.0.0.0
 ip pim sparse-mode
icam monitor scale

router ospf 100
 router-id 10.102.0.8
router bgp 100
 router-id 10.102.0.8
 log-neighbor-changes
 address-family l2vpn evpn
  advertise-pip
 neighbor 10.102.0.2
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
  address-family ipv6 unicast
  send-community
  send-community extended
  address-family l2vpn evpn
  send-community
  send-community extended
 neighbor 10.102.0.3
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
  address-family ipv6 unicast
  send-community
  send-community extended
  address-family l2vpn evpn
  send-community
  send-community extended
evpn
 vni 4000100 12
  rd auto
  route-target import auto
  route-target export auto
 vni 4000200 12
  rd auto
  route-target import auto
  route-target export auto
 vni 4000301 12
  rd auto
  route-target import auto
  route-target export auto
 vni 4000302 12
  rd auto
  route-target import auto
  route-target export auto
 vni 4000303 12
  rd auto
  route-target import auto
  route-target export auto
```

Configuration Leaf-3 du site 1

```
feature nxapi
feature bash-shell
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
feature ngoam

fabric forwarding anycast-gateway-mac 0000.1111.2222

ip pim rp-address 10.102.0.2 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

vlan 1,100,200,300-350,2001

vlan 100
  vn-segment 4000100
vlan 200
  vn-segment 4000200
vlan 301
  vn-segment 4000301
vlan 302
  vn-segment 4000302
vlan 303
  vn-segment 4000303
vlan 350
  name L3-VNI
  vn-segment 4000999
vlan 2001
  vn-segment 4000502

vrf context L3VNI4000999
  vni 4000999
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn

vrf context vrf_1
  vni 4000501
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn

vrf context vrf_2
  vni 4000502
  rd auto
  address-family ipv4 unicast
```

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

```
vpc domain 100
peer-switch
peer-keepalive destination 10.197.214.56 source 10.197.214.55
virtual peer-link destination 10.102.0.10 source 10.102.0.9 dscp 56
delay restore 150
peer-gateway
layer3 peer-router
ip arp synchronize
```

```
interface Vlan100
no shutdown
mtu 9216
vrf member vrf_2
no ip redirects
ip address 192.168.100.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan200
no shutdown
mtu 9216
vrf member vrf_2
no ip redirects
ip address 192.168.200.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan2001
no shutdown
mtu 9000
vrf member vrf_2
no ip redirects
ip forward
ipv6 address use-link-local-only
no ipv6 redirects
```

```
interface port-channel2
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200
vpc 2
```

```
interface port-channel10
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300-500,2001
spanning-tree port type network
vpc peer-link
```

```
interface nve1
no shutdown
host-reachability protocol bgp
advertise virtual-rmac
source-interface loopback1
member vni 4000100
suppress-arp
mcast-group 231.0.0.1
member vni 4000200
suppress-arp
```

```
    mcast-group 231.0.0.2
    member vni 4000502 associate-vrf

interface Ethernet1/1
    switchport
    switchport mode trunk
    switchport trunk allowed vlan 200,300-305
    mtu 9216
    no shutdown

interface Ethernet1/2
    mtu 9216
    port-type fabric
    medium p2p
    ip address 192.168.19.12/24
    ip ospf network point-to-point
    ip router ospf 100 area 0.0.0.0
    ip pim sparse-mode
    no shutdown

interface Ethernet1/24
    switchport
    switchport mode trunk
    switchport trunk allowed vlan 100,200
    channel-group 2 mode active
    no shutdown

interface loopback0
    ip address 10.102.0.9/32
    ip router ospf 100 area 0.0.0.0
    ip pim sparse-mode

interface loopback1
    ip address 10.102.1.10/32
    ip address 10.202.202.202/32 secondary
    ip router ospf 100 area 0.0.0.0
    ip pim sparse-mode

interface loopback100
    vrf member vrf_2
    ip address 10.15.100.2/24

router ospf 100
    router-id 10.102.0.9
router bgp 100
    router-id 10.102.0.9
    log-neighbor-changes
    address-family 12vpn evpn
        advertise-pip
    neighbor 10.102.0.2
        remote-as 100
        update-source loopback0
        address-family ipv4 unicast
        address-family ipv6 unicast
            send-community
        send-community extended
    address-family 12vpn evpn
        send-community
        send-community extended
neighbor 10.102.0.3
    remote-as 100
    update-source loopback0
```

```

address-family ipv4 unicast
address-family ipv6 unicast
  send-community
  send-community extended
address-family l2vpn evpn
  send-community
  send-community extended
  vrf vrf_2
address-family ipv4 unicast
  network 10.15.100.2/32
  network 192.168.100.0/24
neighbor 192.168.100.253
  remote-as 65111
  update-source loopback100
  ebgp-multihop 10
  address-family ipv4 unicast
evpn
vni 4000100 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000200 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000301 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000302 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000303 12
  rd auto
  route-target import auto
  route-target export auto

```

Configuration Leaf-4 du site 1

```

feature nxapi
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
feature ngoam

fabric forwarding anycast-gateway-mac 0000.1111.2222

ip pim rp-address 10.102.0.2 group-list 224.0.0.0/4

```

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

```
vlan 1,100,200,300-350,2001
```

```
vlan 100
```

```
vn-segment 4000100
```

```
vlan 200
```

```
vn-segment 4000200
```

```
vlan 301
```

```
vn-segment 4000301
```

```
vlan 302
```

```
vn-segment 4000302
```

```
vlan 303
```

```
vn-segment 4000303
```

```
vlan 350
```

```
name L3-VNI
```

```
vn-segment 4000999
```

```
vlan 2001
```

```
vn-segment 4000502
```

```
vrf context L3VNI4000999
```

```
vni 4000999
```

```
rd auto
```

```
address-family ipv4 unicast
```

```
route-target both auto
```

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

```
vrf context vrf_1
```

```
vni 4000501
```

```
rd auto
```

```
address-family ipv4 unicast
```

```
route-target both auto
```

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

```
vrf context vrf_2
```

```
vni 4000502
```

```
rd auto
```

```
address-family ipv4 unicast
```

```
route-target both auto
```

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

```
vpc domain 100
```

```
peer-switch
```

```
peer-keepalive destination 10.197.214.55 source 10.197.214.56
```

```
virtual peer-link destination 10.102.0.9 source 10.102.0.10 dscp 56
```

```
delay restore 150
```

```
peer-gateway
```

```
layer3 peer-router
```

```
ip arp synchronize
```

```
interface Vlan100
```

```
no shutdown
```

```
mtu 9216
```

```
vrf member vrf_2
```

```
no ip redirects
```

```
ip address 192.168.100.254/24
```

```
no ipv6 redirects
```

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

```
interface Vlan200
```

```
no shutdown
```



```
mtu 9216
vrf member vrf_2
no ip redirects
ip address 192.168.200.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan2001
no shutdown
mtu 9000
vrf member vrf_2
no ip redirects
ip forward
ipv6 address use-link-local-only
no ipv6 redirects
```

```
interface port-channel2
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200
vpc 2
```

```
interface port-channel10
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300-500,2001
spanning-tree port type network
vpc peer-link
```

```
interface nve1
no shutdown
host-reachability protocol bgp
advertise virtual-rmac
source-interface loopback1
member vni 4000100
suppress-arp
mcast-group 231.0.0.1
member vni 4000200
suppress-arp
mcast-group 231.0.0.2
member vni 4000502 associate-vrf
```

```
interface Ethernet1/1
switchport
switchport mode trunk
switchport trunk allowed vlan 200,300-305
mtu 9216
no shutdown
```

```
interface Ethernet1/2
mtu 9216
port-type fabric
medium p2p
ip address 192.168.20.12/24
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown
```

```
interface Ethernet1/24
switchport
switchport mode trunk
```

```
switchport trunk allowed vlan 100,200
channel-group 2 mode active
no shutdown

interface loopback0
 ip address 10.102.0.10/32
 ip router ospf 100 area 0.0.0.0
 ip pim sparse-mode

interface loopback1
 ip address 10.102.1.6/32
 ip address 10.202.202.202/32 secondary
 ip router ospf 100 area 0.0.0.0
 ip pim sparse-mode

interface loopback100
 vrf member vrf_2
 ip address 10.15.100.1/24

router ospf 100
 router-id 10.102.0.10
router bgp 100
 router-id 10.102.0.10
 log-neighbor-changes
 address-family ipv4 unicast
 address-family ipv4 mvpn
 address-family l2vpn evpn
  advertise-pip
 neighbor 10.102.0.2
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
  address-family ipv6 unicast
  address-family ipv4 mvpn
  send-community
  send-community extended
  address-family l2vpn evpn
  send-community
  send-community extended
 neighbor 10.102.0.3
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
  address-family ipv6 unicast
  address-family ipv4 mvpn
  send-community
  send-community extended
  address-family l2vpn evpn
  send-community
  send-community extended
vrf vrf_2
 address-family ipv4 unicast
  network 10.15.100.1/32
  network 192.168.100.0/24
 neighbor 192.168.100.253
  remote-as 65111
  update-source loopback100
  ebgp-multihop 3
  address-family ipv4 unicast
evpn
 vni 4000100 l2
 rd auto
```

```
route-target import auto
route-target export auto
vni 4000200 12
rd auto
route-target import auto
route-target export auto
vni 4000301 12
rd auto
route-target import auto
route-target export auto
vni 4000302 12
rd auto
route-target import auto
route-target export auto
vni 4000303 12
rd auto
route-target import auto
route-target export auto
```

Configuration du Spine-1 du site 1

```
feature nxapi
nv overlay evpn
feature ospf
feature bgp
feature pim
feature interface-vlan
feature vn-segment-vlan-based
feature lACP

ip pim rp-address 10.102.0.2 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

vlan 1

interface Ethernet1/1
mtu 9216
medium p2p
ip address 192.168.17.11/24
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/2
mtu 9216
medium p2p
ip address 192.168.18.11/24
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
```

```
medium p2p
ip address 192.168.19.11/24
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/4
mtu 9216
medium p2p
ip address 192.168.20.11/24
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/5
mtu 9216
medium p2p
ip address 192.168.15.11/24
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/6
mtu 9216
medium p2p
ip address 192.168.16.11/24
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface loopback0
description "anycast RP address"
ip address 10.102.0.2/32
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
icam monitor scale

router ospf 100
router-id 10.102.0.2
router bgp 100
router-id 10.102.0.2
log-neighbor-changes
address-family ipv4 unicast
address-family ipv6 unicast
address-family l2vpn evpn
neighbor 10.31.1.1
remote-as 100
update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
address-family ipv4 mvpn
send-community
send-community extended
route-reflector-client
address-family l2vpn evpn
send-community
send-community extended
route-reflector-client
```

```
neighbor 10.31.1.2
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
  address-family ipv6 unicast
  send-community
  send-community extended
  route-reflector-client
  address-family l2vpn evpn
  send-community
  send-community extended
  route-reflector-client
neighbor 10.102.0.5
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
  address-family ipv6 unicast
  send-community
  send-community extended
  route-reflector-client
  address-family l2vpn evpn
  send-community
  send-community extended
  route-reflector-client
neighbor 10.102.0.8
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
  address-family ipv6 unicast
  address-family ipv4 mvpn
  send-community
  send-community extended
  route-reflector-client
  address-family l2vpn evpn
  send-community
  send-community extended
  route-reflector-client
neighbor 10.102.0.9
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
  address-family ipv6 unicast
  send-community
  send-community extended
  route-reflector-client
  address-family l2vpn evpn
  send-community
  send-community extended
  route-reflector-client
neighbor 10.102.0.10
  remote-as 100
  update-source loopback0
  address-family ipv4 unicast
  address-family ipv6 unicast
  send-community
  send-community extended
  route-reflector-client
  address-family l2vpn evpn
  send-community
  send-community extended
  route-reflector-client
neighbor 10.133.133.133
```

```
remote-as 100
update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
  send-community
send-community extended
  route-reflector-client
address-family l2vpn evpn
  send-community
  send-community extended
  route-reflector-client
```

Configuration de la passerelle de périphérie 1 du site 1

```
S1-Bg1# show run
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 nv overlay
evpn multisite border-gateway 100
  delay-restore time 300

fabric forwarding anycast-gateway-mac 0000.1111.2222

ip pim rp-address 10.102.0.2 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

vlan 1,100,200,300-350,2001

vlan 100
  vn-segment 4000100
vlan 200
  vn-segment 4000200
vlan 301
  vn-segment 4000301
vlan 302
  vn-segment 4000302
vlan 303
  vn-segment 4000303
vlan 350
  name L3-VNI
  vn-segment 4000999
vlan 2001
  vn-segment 4000502

route-map REDIST-T0-SITE-EXT-DCI permit 10
  match tag 54321
route-map RETAIN-NEXT-HOP permit 10
  set ip next-hop unchanged

vrf context L3VNI4000999
```

```
vni 4000999
rd auto
address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn

vrf context vrf_1
vni 4000501
rd auto
address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn

vrf context vrf_2
vni 4000502
rd auto
address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn

interface Vlan100
no shutdown
mtu 9216
vrf member vrf_2
no ip redirects
ip address 192.168.100.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan200
no shutdown
mtu 9216
vrf member vrf_2
no ip redirects
ip address 192.168.200.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan301
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.11.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan302
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.12.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan303
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.13.254/24
```

```
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan2001
no shutdown
mtu 9000
vrf member vrf_2
no ip redirects
ip forward
ipv6 address use-link-local-only
no ipv6 redirects

interface nve1
no shutdown
host-reachability protocol bgp
source-interface loopback1
multisite border-gateway interface loopback100
member vni 4000100
    suppress-arp
    multisite ingress-replication
    mcast-group 231.0.0.1
member vni 4000200
    suppress-arp
    multisite ingress-replication
    mcast-group 231.0.0.2
member vni 4000502 associate-vrf

interface Ethernet1/1
mtu 9216
port-type fabric
medium p2p
ip address 192.168.15.12/24
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown
evpn multisite fabric-tracking

interface Ethernet1/3
mtu 9216
ip address 10.150.150.1/24 tag 54321
ip router ospf 100 area 0.0.0.0
no shutdown
evpn multisite dci-tracking

interface loopback0
ip address 10.31.1.1/32 tag 54321
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode

interface loopback1
ip address 10.133.133.133/32 tag 54321
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode

interface loopback100
description "Multi-site VIP"
ip address 10.100.100.1/32 tag 54321
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
icam monitor scale
```



```

router ospf 100
  router-id 10.31.1.1
router bgp 100
  router-id 10.31.1.1
  log-neighbor-changes
  address-family ipv4 unicast
    redistribute direct route-map REDIST-T0-SITE-EXT-DCI
  address-family ipv4 mvpn
  address-family l2vpn evpn
  neighbor 10.32.1.1
    remote-as 300
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    address-family ipv4 mvpn
      send-community
      send-community extended
      rewrite-rt-asn
    address-family l2vpn evpn
      send-community
      send-community extended
      rewrite-evpn-rt-asn
  neighbor 10.102.0.2
    remote-as 100
    update-source loopback0
    address-family ipv4 unicast
    address-family ipv6 unicast
    address-family ipv4 mvpn
      send-community
      send-community extended
    address-family l2vpn evpn
      send-community
      send-community extended
  neighbor 10.150.150.2
    remote-as 300
    address-family ipv4 unicast
evpn
vni 4000100 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000200 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000301 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000302 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000303 12
  rd auto
  route-target import auto
  route-target export auto

```

Configuration de la passerelle de périphérie 2 du site 1

```
S1_B2#
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 nv overlay
evpn multisite border-gateway 100
    delay-restore time 300

fabric forwarding anycast-gateway-mac 0000.2222.4444

ip pim rp-address 10.102.0.2 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

vlan 1,100,200,300-350,2001
vlan 100
    vn-segment 4000100
vlan 200
    vn-segment 4000200
vlan 301
    vn-segment 4000301
vlan 302
    vn-segment 4000302
vlan 303
    vn-segment 4000303
vlan 350
    name L3-VNI
    vn-segment 4000999
vlan 2001
    vn-segment 4000502

route-map REDIST-T0-SITE-EXT-DCI permit 10
    match tag 54321
route-map RETAIN-NEXT-HOP permit 10
    set ip next-hop unchanged

vrf context L3VNI4000999
    vni 4000999
    rd auto
address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn

vrf context vrf_1
    vni 4000501
    rd auto
address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn

vrf context vrf_2
    vni 4000502
    rd auto
address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn
```

```
interface Vlan100
  no shutdown
  mtu 9216
  vrf member vrf_2
  no ip redirects
  ip address 192.168.100.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway
```

```
interface Vlan200
  no shutdown
  mtu 9216
  vrf member vrf_2
  no ip redirects
  ip address 192.168.200.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway
```

```
interface Vlan301
  no shutdown
  mtu 9216
  vrf member vrf_1
  no ip redirects
  ip address 172.16.11.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway
```

```
interface Vlan302
  no shutdown
  mtu 9216
  vrf member vrf_1
  no ip redirects
  ip address 172.16.12.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway
```

```
interface Vlan303
  no shutdown
  mtu 9216
  vrf member vrf_1
  no ip redirects
  ip address 172.16.13.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway
```

```
interface Vlan2001
  no shutdown
  mtu 9000
  vrf member vrf_2
  no ip redirects
  ip forward
  ipv6 address use-link-local-only
  no ipv6 redirects
```

```
interface nve1
  no shutdown
  host-reachability protocol bgp
  source-interface loopback1
  multisite border-gateway interface loopback100
  member vni 4000100
  suppress-arp
```

```

    multisite ingress-replication
    mcast-group 231.0.0.1
member vni 4000200
    suppress-arp
    multisite ingress-replication
    mcast-group 231.0.0.2
member vni 4000502 associate-vrf

interface Ethernet1/1
    mtu 9216
    port-type fabric
    medium p2p
    ip address 192.168.16.12/24
    ip ospf network point-to-point
    ip router ospf 100 area 0.0.0.0
    ip pim sparse-mode
    no shutdown
    evpn multisite fabric-tracking

interface Ethernet1/3
    mtu 9216
    ip address 10.150.151.1/24 tag 54321
    ip router ospf 100 area 0.0.0.0
    no shutdown
    evpn multisite dci-tracking

interface loopback0
    ip address 10.31.1.2/32 tag 54321
    ip router ospf 100 area 0.0.0.0
    ip pim sparse-mode

interface loopback1
    ip address 10.134.134.134/32 tag 54321
    ip router ospf 100 area 0.0.0.0
    ip pim sparse-mode

interface loopback100
    description "Multi-site VIP"
    ip address 10.100.100.1/32 tag 54321
    ip router ospf 100 area 0.0.0.0
    ip pim sparse-mode
icam monitor scale

router ospf 100
    router-id 10.31.1.2
router bgp 100
    router-id 10.31.1.2
    log-neighbor-changes
    address-family ipv4 unicast
        redistribute direct route-map REDIST-TO-SITE-EXT-DCI
    address-family ipv4 mvpn
    address-family l2vpn evpn
    neighbor 10.32.1.1
        remote-as 300
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    address-family ipv4 mvpn
        send-community
        send-community extended
    rewrite-rt-asn
    address-family l2vpn evpn

```

```
    send-community
    send-community extended
    rewrite-evpn-rt-asn
neighbor 10.102.0.2
    remote-as 100
    update-source loopback0
    address-family ipv4 unicast
    address-family ipv6 unicast
        send-community
        send-community extended
    address-family l2vpn evpn
        send-community
        send-community extended
neighbor 10.150.151.2
    remote-as 300
    address-family ipv4 unicast
evpn
vni 4000100 12
    rd auto
    route-target import auto
    route-target export auto
vni 4000200 12
    rd auto
    route-target import auto
    route-target export auto
vni 4000301 12
    rd auto
    route-target import auto
    route-target export auto
vni 4000302 12
    rd auto
    route-target import auto
    route-target export auto
vni 4000303 12
    rd auto
    route-target import auto
    route-target export auto
S1_B2#
```

Serveur du routeur

```
Router_Server#
nv overlay evpn
feature ospf
feature bgp
feature pim
feature interface-vlan

vlan 1

route-map REDIST-T0-SITE-EXT-DCI permit 10
    match tag 54321
route-map RETAIN-NEXT-HOP permit 10
    set ip next-hop unchanged

interface Ethernet2/1
```

```
no switchport
ip address 10.150.150.2/24
no shutdown

interface Ethernet2/2
no switchport
ip address 10.150.151.2/24
no shutdown

interface Ethernet2/4
no switchport
ip address 10.150.152.2/24
no shutdown

interface Ethernet2/5
no switchport
mtu 9216
ip address 10.150.153.2/24
no shutdown

interface loopback0
ip address 10.32.1.1/32 tag 54321

router bgp 300
router-id 10.32.1.1
address-family ipv4 unicast
  redistribute direct route-map REDIST-T0-SITE-EXT-DCI
  maximum-paths 2
  retain route-target all
address-family l2vpn evpn
  retain route-target all
neighbor 10.31.1.1
  remote-as 100
  update-source loopback0
  ebgp-multihop 5
  address-family ipv4 unicast
    send-community
    send-community extended
    route-map RETAIN-NEXT-HOP out
    rewrite-rt-asn
  address-family l2vpn evpn
    send-community
    send-community extended
    route-map RETAIN-NEXT-HOP out
    rewrite-evpn-rt-asn
neighbor 10.31.1.2
  remote-as 100
  update-source loopback0
  ebgp-multihop 5
  address-family ipv4 unicast
    send-community
    send-community extended
    route-map RETAIN-NEXT-HOP out
    rewrite-rt-asn
  address-family l2vpn evpn
    send-community
    send-community extended
    route-map RETAIN-NEXT-HOP out
    rewrite-evpn-rt-asn
neighbor 10.31.1.3
  remote-as 200
  update-source loopback0
```

```

ebgp-multihop 5
address-family ipv4 unicast
  send-community
  send-community extended
  route-map RETAIN-NEXT-HOP out
  rewrite-rt-asn
address-family l2vpn evpn
  send-community
  send-community extended
  route-map RETAIN-NEXT-HOP out
  rewrite-evpn-rt-asn
neighbor 10.31.1.4
  remote-as 200
  update-source loopback0
  ebgp-multihop 5
  address-family ipv4 unicast
  address-family ipv4 mvpn
  send-community
  send-community extended
  route-map RETAIN-NEXT-HOP out
  rewrite-rt-asn
  address-family l2vpn evpn
  send-community
  send-community extended
  route-map RETAIN-NEXT-HOP out
  rewrite-evpn-rt-asn
neighbor 10.150.150.1
  remote-as 100
  address-family ipv4 unicast
neighbor 10.150.151.1
  remote-as 100
  address-family ipv4 unicast
neighbor 10.150.152.1
  remote-as 200
  address-family ipv4 unicast
neighbor 10.150.153.1
  remote-as 200
  address-family ipv4 unicast
Router_Server#

```

Configuration de la passerelle de périphérie 1 du site 2

```

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 nv overlay
evpn multisite border-gateway 200

fabric forwarding anycast-gateway-mac 0000.2222.4444

ip pim rp-address 10.103.0.3 group-list 224.0.0.0/4

```

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

```
vlan 1,100,200,300-350,2000-2001
```

```
vlan 100
```

```
vn-segment 4000100
```

```
vlan 200
```

```
vn-segment 4000200
```

```
vlan 301
```

```
vn-segment 4000301
```

```
vlan 302
```

```
vn-segment 4000302
```

```
vlan 303
```

```
vn-segment 4000303
```

```
vlan 350
```

```
name L3-VNI
```

```
vn-segment 4000999
```

```
vlan 2000
```

```
vn-segment 2000
```

```
vlan 2001
```

```
vn-segment 4000502
```

```
route-map REDIST-T0-SITE-EXT-DCI permit 10
```

```
match tag 54321
```

```
route-map RETAIN-NEXT-HOP permit 10
```

```
set ip next-hop unchanged
```

```
vrf context L3VNI4000999
```

```
vni 4000999
```

```
rd auto
```

```
address-family ipv4 unicast
```

```
route-target both auto
```

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

```
vrf context vrf_1
```

```
vni 4000501
```

```
rd auto
```

```
address-family ipv4 unicast
```

```
route-target both auto
```

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

```
vrf context vrf_2
```

```
vni 4000502
```

```
rd auto
```

```
address-family ipv4 unicast
```

```
route-target both auto
```

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

```
interface Vlan100
```

```
no shutdown
```

```
mtu 9216
```

```
vrf member vrf_2
```

```
no ip redirects
```

```
ip address 192.168.100.254/24
```

```
no ipv6 redirects
```

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

```
interface Vlan200
```

```
no shutdown
```

```
mtu 9216
```

```
vrf member vrf_2
```

```
no ip redirects
```

```
ip address 192.168.200.254/24
```



```
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan301
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.11.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan302
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.12.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan303
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.13.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan2001
no shutdown
mtu 9000
vrf member vrf_2
no ip redirects
ip forward
ipv6 address use-link-local-only
no ipv6 redirects

interface nve1
no shutdown
host-reachability protocol bgp
source-interface loopback1
multisite border-gateway interface loopback100
member vni 4000100
  suppress-arp
  mcast-group 231.0.0.1
member vni 4000200
  suppress-arp
  mcast-group 231.0.0.2
member vni 4000502 associate-vrf

interface Ethernet1/1
mtu 9216
port-type fabric
medium p2p
ip address 192.168.17.12/24
ip ospf network point-to-point
ip router ospf 200 area 0.0.0.0
ip pim sparse-mode
no shutdown
evpn multisite fabric-tracking
```

```
interface Ethernet1/3
  mtu 9216
  ip address 10.150.152.1/24 tag 54321
  ip router ospf 200 area 0.0.0.0
  no shutdown
  evpn multisite dci-tracking

interface loopback0
  ip address 10.31.1.3/32 tag 54321
  ip router ospf 200 area 0.0.0.0
  ip pim sparse-mode

interface loopback1
  ip address 10.135.135.135/32 tag 54321
  ip router ospf 200 area 0.0.0.0
  ip pim sparse-mode

interface loopback100
  description "Multi-site VIP"
  ip address 10.100.100.2/32 tag 54321
  ip router ospf 200 area 0.0.0.0
  ip pim sparse-mode
  icam monitor scale

router ospf 200
router bgp 200
  router-id 10.31.1.3
  log-neighbor-changes
  address-family ipv4 unicast
    redistribute direct route-map REDIST-T0-SITE-EXT-DCI
  address-family l2vpn evpn
  neighbor 10.32.1.1
    remote-as 300
    update-source loopback0
    ebgp-multihop 5
    peer-type fabric-external
    send-community
    send-community extended
    rewrite-rt-asn
  address-family l2vpn evpn
    send-community
    send-community extended
    rewrite-evpn-rt-asn
  neighbor 10.103.0.3
    remote-as 200
    update-source loopback0
    address-family ipv4 unicast
    address-family ipv6 unicast
    send-community
    send-community extended
  address-family l2vpn evpn
    send-community
    send-community extended
  neighbor 10.150.152.2
    remote-as 300
    address-family ipv4 unicast

evpn
  vni 4000100 l2
  rd auto
  route-target import auto
  route-target export auto
```

```
vni 4000200 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000301 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000302 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000303 12
  rd auto
  route-target import auto
  route-target export auto
```

Configuration de la passerelle de périphérie 2 du site 2

```
S2-BG2#
cfs ipv4 distribute
feature ngmvpn
nv overlay evpn
feature ospf
feature bgp
feature pim
feature fabric forwarding
feature interface-vlan
feature vn-segment-vlan-based
feature lacp
feature lldp
feature bfd
feature nv overlay
evpn multisite border-gateway 200
  delay-restore time 300

fabric forwarding anycast-gateway-mac 0000.2222.4444
ip pim rp-address 10.103.0.3 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

vlan 1,100,200,301-303,350,2000-2001
vlan 100
  vn-segment 4000100
vlan 200
  vn-segment 4000200
vlan 301
  vn-segment 4000301
vlan 302
  vn-segment 4000302
vlan 303
  vn-segment 4000303
vlan 350
  name L3-VNI
  vn-segment 4000999
vlan 2000
  vn-segment 2000
vlan 2001
```

```
vn-segment 4000502

route-map REDIST-TO-SITE-EXT-DCI permit 10
  match tag 54321
route-map RETAIN-NEXT-HOP permit 10
  set ip next-hop unchanged

vrf context L3VNI4000999
  vni 4000999
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn

vrf context vrf_1
  vni 4000501
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn

vrf context vrf_2
  vni 4000502
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn

interface Vlan100
  no shutdown
  mtu 9216
  vrf member vrf_2
  no ip redirects
  ip address 192.168.100.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway

interface Vlan200
  no shutdown
  mtu 9216
  vrf member vrf_2
  no ip redirects
  ip address 192.168.200.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway

interface Vlan301
  no shutdown
  mtu 9216
  vrf member vrf_1
  no ip redirects
  ip address 172.16.11.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway

interface Vlan302
  no shutdown
  mtu 9216
```

```
vrf member vrf_1
no ip redirects
ip address 172.16.12.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan303
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.13.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan2001
no shutdown
mtu 9000
vrf member vrf_2
no ip redirects
ip forward
ipv6 address use-link-local-only
no ipv6 redirects

interface nve1
no shutdown
host-reachability protocol bgp
source-interface loopback1
multisite border-gateway interface loopback100
member vni 4000100
    suppress-arp
    multisite ingress-replication
    mcast-group 231.0.0.1
member vni 4000200
    suppress-arp
    multisite ingress-replication
    mcast-group 231.0.0.2
member vni 4000502 associate-vrf

interface Ethernet1/1
mtu 9216
port-type fabric
medium p2p
ip address 192.168.18.12/24
ip ospf network point-to-point
ip router ospf 200 area 0.0.0.0
ip pim sparse-mode
no shutdown
evpn multisite fabric-tracking

interface Ethernet1/3
mtu 9216
ip address 10.150.153.1/24 tag 54321
ip router ospf 200 area 0.0.0.0
no shutdown
evpn multisite dci-tracking

interface loopback0
ip address 10.31.1.4/32 tag 54321
ip router ospf 200 area 0.0.0.0
ip pim sparse-mode
```

```

interface loopback1
 ip address 10.136.136.136/32 tag 54321
 ip router ospf 200 area 0.0.0.0
 ip pim sparse-mode

interface loopback100
 description "Multi-site VIP"
 ip address 10.100.100.2/32 tag 54321
 ip router ospf 200 area 0.0.0.0
 ip pim sparse-mode
 icam monitor scale

router ospf 200
router bgp 200
 router-id 10.31.1.4
 log-neighbor-changes
 address-family ipv4 unicast
  redistribute direct route-map REDIST-T0-SITE-EXT-DCI
 address-family l2vpn evpn
 neighbor 10.32.1.1
  remote-as 300
  update-source loopback0
  ebgp-multihop 5
  peer-type fabric-external
  send-community
  send-community extended
  rewrite-rt-asn
 address-family l2vpn evpn
  send-community
  send-community extended
  rewrite-evpn-rt-asn
 neighbor 10.103.0.3
  remote-as 200
  update-source loopback0
 address-family ipv4 unicast
 address-family ipv6 unicast
  send-community
  send-community extended
 address-family l2vpn evpn
  send-community
  send-community extended
 neighbor 10.150.153.2
  remote-as 300
  address-family ipv4 unicast

evpn
 vni 4000100 12
  rd auto
  route-target import auto
  route-target export auto
 vni 4000200 12
  rd auto
  route-target import auto
  route-target export auto
 vni 4000301 12
  rd auto
  route-target import auto
  route-target export auto
 vni 4000302 12
  rd auto
  route-target import auto
  route-target export auto
 vni 4000303 12

```

```
rd auto
route-target import auto
route-target export auto
S2-BG2#
```

Configuration du Spine-1 du site 2

```
S2-Spine1#
feature nxapi
cfs ipv4 distribute
cfs eth 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 ngoam

ip pim rp-address 10.103.0.3 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

interface Ethernet1/1
  mtu 9216
  medium p2p
  ip address 192.168.0.11/24
  ip ospf network point-to-point
  ip router ospf 200 area 0.0.0.0
  ip pim sparse-mode
  no shutdown

interface Ethernet1/2
  mtu 9216
  medium p2p
  ip address 192.168.1.11/24
  ip ospf network point-to-point
  ip router ospf 200 area 0.0.0.0
  ip pim sparse-mode
  no shutdown

interface Ethernet1/3
  mtu 9216
  medium p2p
  ip address 192.168.2.11/24
  ip ospf network point-to-point
  ip router ospf 200 area 0.0.0.0
  ip pim sparse-mode
  no shutdown

interface Ethernet1/4
  mtu 9216
  medium p2p
  ip address 192.168.3.11/24
  ip ospf network point-to-point
```

```
ip router ospf 200 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/5
mtu 9216
medium p2p
ip address 192.168.17.11/24
ip ospf network point-to-point
ip router ospf 200 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/6
mtu 9216
medium p2p
ip address 192.168.18.11/24
ip ospf network point-to-point
ip router ospf 200 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface loopback0
description "anycast RP address"
ip address 10.103.0.3/32
ip router ospf 200 area 0.0.0.0
ip pim sparse-mode
icam monitor scale

router ospf 200
router-id 10.202.0.3
router bgp 200
router-id 10.103.0.3
log-neighbor-changes
address-family ipv4 unicast
address-family ipv6 unicast
address-family ipv4 mvpn
address-family l2vpn evpn
neighbor 10.31.1.3
remote-as 200
update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
send-community
send-community extended
address-family l2vpn evpn
send-community
send-community extended
neighbor 10.31.1.4
remote-as 200
update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
send-community
send-community extended
address-family l2vpn evpn
send-community
send-community extended
neighbor 10.103.0.5
remote-as 200
update-source loopback0
address-family ipv4 unicast
```



```
address-family ipv6 unicast
  send-community
  send-community extended
  route-reflector-client
address-family l2vpn evpn
  send-community
  send-community extended
  route-reflector-client
neighbor 10.103.0.8
  remote-as 200
  update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
  send-community
  send-community extended
  route-reflector-client
address-family l2vpn evpn
  send-community
  send-community extended
  route-reflector-client
neighbor 10.103.0.9
  remote-as 200
  update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
address-family ipv4 mvpn
  send-community
  send-community extended
  route-reflector-client
address-family l2vpn evpn
  send-community
  send-community extended
  route-reflector-client
neighbor 10.103.0.10
  remote-as 200
  update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
address-family ipv4 mvpn
  send-community
  send-community extended
  route-reflector-client
address-family l2vpn evpn
  send-community
  send-community extended
  route-reflector-client
S2-Spine1#
```

Configuration Leaf-1 du site 2

```
feature nxapi
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

fabric forwarding anycast-gateway-mac 0000.1111.2222
ip pim rp-address 10.103.0.3 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

vlan 1,100,200,300-350,2001
vlan 100
    vn-segment 4000100
vlan 200
    vn-segment 4000200
vlan 301
    vn-segment 4000301
vlan 302
    vn-segment 4000302
vlan 303
    vn-segment 4000303
vlan 350
    name L3-VNI
    vn-segment 4000999
vlan 2001
    vn-segment 4000502

route-map DIRECT permit 10
    match tag 12345
route-map DIRECT deny 90
vrf context L3VNI4000999
    vni 4000999
    rd auto
    address-family ipv4 unicast
        route-target both auto
        route-target both auto evpn

vrf context vrf_1
    vni 4000501
    rd auto
    address-family ipv4 unicast
        route-target both auto
        route-target both auto evpn

vrf context vrf_2
    vni 4000502
    rd auto
    address-family ipv4 unicast
        route-target both auto
        route-target both auto evpn

vpc domain 100
    peer-switch
    peer-keepalive destination 10.197.214.63
    virtual peer-link destination 10.103.1.9 source 10.103.1.8 dscp 56
    delay restore 150
    peer-gateway
    ip arp synchronize
```

```
interface Vlan100
  no shutdown
  mtu 9216
  vrf member vrf_2
  no ip redirects
  ip address 192.168.100.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway
```

```
interface Vlan200
  no shutdown
  mtu 9216
  vrf member vrf_2
  no ip redirects
  ip address 192.168.200.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway
```

```
interface Vlan301
  no shutdown
  mtu 9216
  vrf member vrf_1
  no ip redirects
  ip address 172.16.11.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway
```

```
interface Vlan302
  no shutdown
  mtu 9216
  vrf member vrf_1
  no ip redirects
  ip address 172.16.12.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway
```

```
interface Vlan303
  no shutdown
  mtu 9216
  vrf member vrf_1
  no ip redirects
  ip address 172.16.13.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway
```

```
interface Vlan2001
  no shutdown
  mtu 9000
  vrf member vrf_2
  no ip redirects
  ip forward
  ipv6 address use-link-local-only
  no ipv6 redirects
```

```
interface port-channel10
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300-500
  spanning-tree port type network
  vpc peer-link
```

```
interface port-channel100
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300-305
  mtu 9216
  vpc 100
```

```
interface nve1
  no shutdown
  host-reachability protocol bgp
  advertise virtual-rmac
  source-interface loopback1
  member vni 4000100
    suppress-arp
    mcast-group 231.0.0.1
  member vni 4000200
    suppress-arp
    mcast-group 231.0.0.2
  member vni 4000502 associate-vrf
```

```
interface Ethernet1/1
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300-305
  mtu 9216
  channel-group 100
  no shutdown
```

```
interface Ethernet1/2
  mtu 9216
  port-type fabric
  medium p2p
  ip address 192.168.0.12/24
  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 10.103.0.5/32
  ip router ospf 100 area 0.0.0.0
  ip pim sparse-mode
```

```
interface loopback1
  ip address 10.103.1.8/32
  ip address 10.103.201.201/32 secondary
  ip router ospf 100 area 0.0.0.0
  ip pim sparse-mode
  icam monitor scale
```

```
router ospf 100
  router-id 10.102.0.5
router bgp 200
  router-id 10.103.0.5
  log-neighbor-changes
  address-family ipv4 mvpn
  address-family l2vpn evpn
    advertise-pip
  neighbor 10.103.0.2
    remote-as 200
  update-source loopback0
  address-family ipv4 unicast
```

```

address-family ipv6 unicast
  send-community
  send-community extended
address-family l2vpn evpn
  send-community
  send-community extended
neighbor 10.103.0.3
  remote-as 200
  update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
  send-community
  send-community extended
address-family l2vpn evpn
  send-community
  send-community extended
evpn
vni 4000100 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000200 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000301 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000302 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000303 12
  rd auto
  route-target import auto
  route-target export auto

```

Configuration Leaf-2 du site 2

```

S2-Leaf2#
feature nxapi
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

fabric forwarding anycast-gateway-mac 0000.1111.2222
ip pim rp-address 10.103.0.3 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

```

```
vlan 1,100,200,300-350,2001
vlan 100
  vn-segment 4000100
vlan 200
  vn-segment 4000200
vlan 301
  vn-segment 4000301
vlan 302
  vn-segment 4000302
vlan 303
  vn-segment 4000303
vlan 350
  name L3-VNI
  vn-segment 4000999
vlan 2001
  vn-segment 4000502
```

```
vrf context L3VNI4000999
vni 4000999
rd auto
address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn
```

```
vrf context vrf_1
vni 4000501
rd auto
address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn
```

```
vrf context vrf_2
vni 4000502
rd auto
address-family ipv4 unicast
  route-target both auto
  route-target both auto evpn
```

```
vpc domain 100
peer-switch
peer-keepalive destination 10.197.214.62
virtual peer-link destination 10.103.1.8 source 10.103.1.9 dscp 56
delay restore 150
peer-gateway
ip arp synchronize
```

```
interface Vlan100
no shutdown
mtu 9216
vrf member vrf_2
no ip redirects
ip address 192.168.100.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan200
no shutdown
```

```
mtu 9216
vrf member vrf_2
no ip redirects
ip address 192.168.200.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan301
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.11.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan302
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.12.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan303
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.13.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway
```

```
interface Vlan2001
no shutdown
mtu 9000
vrf member vrf_2
no ip redirects
ip forward
ipv6 address use-link-local-only
no ipv6 redirects
```

```
interface port-channel10
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300-500
spanning-tree port type network
vpc peer-link
```

```
interface port-channel100
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300-305
mtu 9216
vpc 100
```

```
interface nve1
no shutdown
host-reachability protocol bgp
advertise virtual-rmac
source-interface loopback1
```

```
member vni 4000100
  suppress-arp
  mcast-group 231.0.0.1
member vni 4000200
  suppress-arp
  mcast-group 231.0.0.2
member vni 4000502 associate-vrf
```

```
interface Ethernet1/1
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300-305
  mtu 9216
  channel-group 100
  no shutdown
```

```
interface Ethernet1/2
  mtu 9216
  port-type fabric
  medium p2p
  ip address 192.168.1.12/24
  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 10.103.0.8/32
  ip router ospf 100 area 0.0.0.0
  ip pim sparse-mode
```

```
interface loopback1
  ip address 10.103.1.9/32
  ip address 10.103.201.201/32 secondary
  ip router ospf 100 area 0.0.0.0
  ip pim sparse-mode
icam monitor scale
```

```
router ospf 100
  router-id 10.102.0.8
router bgp 200
  router-id 10.103.0.8
  log-neighbor-changes
  address-family l2vpn evpn
    advertise-pip
  neighbor 10.103.0.2
    remote-as 200
    update-source loopback0
    address-family ipv4 unicast
    address-family ipv6 unicast
      send-community
      send-community extended
    address-family l2vpn evpn
      send-community
      send-community extended
  neighbor 10.103.0.3
    remote-as 200
    update-source loopback0
    address-family ipv4 unicast
    address-family ipv6 unicast
    address-family ipv4 mvpn
      send-community
```



```
        send-community extended
address-family l2vpn evpn
    send-community
    send-community extended
evpn
vni 4000100 12
    rd auto
    route-target import auto
    route-target export auto
vni 4000200 12
    rd auto
    route-target import auto
    route-target export auto
vni 4000301 12
    rd auto
    route-target import auto
    route-target export auto
vni 4000302 12
    rd auto
    route-target import auto
    route-target export auto
vni 4000303 12
    rd auto
    route-target import auto
    route-target export auto
S2-Leaf2#
```

Configuration Leaf-3 du site 2

```
S2-leaf3#
feature nxapi
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

fabric forwarding anycast-gateway-mac 0000.1111.2222
ip pim rp-address 10.103.0.3 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

vlan 1,100,200,300-350,2001
vlan 100
    vn-segment 4000100
vlan 200
    vn-segment 4000200
vlan 301
    vn-segment 4000301
vlan 302
    vn-segment 4000302
vlan 303
```

```
    vn-segment 4000303
vlan 350
    name L3-VNI
    vn-segment 4000999
vlan 2001
    vn-segment 4000502

vrf context L3VNI4000999
    vni 4000999
    rd auto
    address-family ipv4 unicast
        route-target both auto
        route-target both auto evpn

vrf context vrf_1
    vni 4000501
    rd auto
    address-family ipv4 unicast
        route-target both auto
        route-target both auto evpn

vrf context vrf_2
    vni 4000502
    rd auto
    address-family ipv4 unicast
        route-target both auto
        route-target both auto evpn

vpc domain 100
    peer-switch
    peer-keepalive destination 10.197.214.65
    virtual peer-link destination 10.103.1.6 source 10.103.1.10 dscp 56
    delay restore 150
    peer-gateway
    ip arp synchronize

interface Vlan100
    no shutdown
    mtu 9216
    vrf member vrf_2
    no ip redirects
    ip address 192.168.100.254/24
    no ipv6 redirects
    fabric forwarding mode anycast-gateway

interface Vlan200
    no shutdown
    mtu 9216
    vrf member vrf_2
    no ip redirects
    ip address 192.168.200.254/24
    no ipv6 redirects
    fabric forwarding mode anycast-gateway

interface Vlan301
    no shutdown
    mtu 9216
    vrf member vrf_1
```

```
no ip redirects
ip address 172.16.11.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan302
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.12.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan303
no shutdown
mtu 9216
vrf member vrf_1
no ip redirects
ip address 172.16.13.254/24
no ipv6 redirects
fabric forwarding mode anycast-gateway

interface Vlan2001
no shutdown
mtu 9000
vrf member vrf_2
no ip redirects
ip forward
ipv6 address use-link-local-only
no ipv6 redirects

interface port-channel10
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300-500
spanning-tree port type network
vpc peer-link

interface port-channel100
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300-305
mtu 9216
vpc 100

interface nve1
no shutdown
host-reachability protocol bgp
advertise virtual-rmac
source-interface loopback1
member vni 4000100
  suppress-arp
  mcast-group 231.0.0.1
member vni 4000200
  suppress-arp
  mcast-group 231.0.0.2
member vni 4000502 associate-vrf

interface Ethernet1/2
mtu 9216
port-type fabric
```

```
medium p2p
ip address 192.168.2.12/24
ip ospf network point-to-point
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/23
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300-305
mtu 9216
channel-group 100
no shutdown

interface Ethernet1/24
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300-305
mtu 9216
channel-group 100
no shutdown

interface loopback0
ip address 10.103.0.9/32
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode

interface loopback1
ip address 10.103.1.10/32
ip address 10.103.202.202/32 secondary
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
icam monitor scale

router ospf 100
router-id 10.102.0.9
router bgp 200
router-id 10.103.0.9
log-neighbor-changes
address-family ipv4 mvpn
address-family l2vpn evpn
advertise-pip
neighbor 10.103.0.2
remote-as 200
update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
address-family ipv4 mvpn
send-community
send-community extended
address-family l2vpn evpn
send-community
send-community extended
neighbor 10.103.0.3
remote-as 200
update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
send-community
send-community extended
address-family l2vpn evpn
```

```
    send-community
    send-community extended
evpn
vni 4000100 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000200 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000301 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000302 12
  rd auto
  route-target import auto
  route-target export auto
vni 4000303 12
  rd auto
  route-target import auto
  route-target export auto
```

Configuration Leaf-4 du site 2

```
S2-Leaf4#
feature nxapi
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

fabric forwarding anycast-gateway-mac 0000.1111.2222
ip pim rp-address 10.103.0.3 group-list 224.0.0.0/4
ip pim ssm range 232.0.0.0/8

vlan 1,100,200,300-350,2001
vlan 100
  vn-segment 4000100
vlan 200
  vn-segment 4000200
vlan 301
  vn-segment 4000301
vlan 302
  vn-segment 4000302
vlan 303
  vn-segment 4000303
vlan 350
  name L3-VNI
```

```
vn-segment 4000999
vlan 2001
  vn-segment 4000502

vrf context L3VNI4000999
  vni 4000999
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn

vrf context vrf_1
  vni 4000501
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn

vrf context vrf_2
  vni 4000502
  rd auto
  address-family ipv4 unicast
    route-target both auto
    route-target both auto evpn

vpc domain 100
  peer-switch
  peer-keepalive destination 10.197.214.64
  virtual peer-link destination 10.103.1.10 source 10.103.1.6 dscp 56
  delay restore 150
  peer-gateway
  ip arp synchronize

interface Vlan100
  no shutdown
  mtu 9216
  vrf member vrf_2
  no ip redirects
  ip address 192.168.100.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway

interface Vlan200
  no shutdown
  mtu 9216
  vrf member vrf_2
  no ip redirects
  ip address 192.168.200.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway

interface Vlan301
  no shutdown
  mtu 9216
  vrf member vrf_1
  no ip redirects
  ip address 172.16.11.254/24
  no ipv6 redirects
```

```
fabric forwarding mode anycast-gateway

interface Vlan302
  no shutdown
  mtu 9216
  vrf member vrf_1
  no ip redirects
  ip address 172.16.12.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway

interface Vlan303
  no shutdown
  mtu 9216
  vrf member vrf_1
  no ip redirects
  ip address 172.16.13.254/24
  no ipv6 redirects
  fabric forwarding mode anycast-gateway

interface Vlan2001
  no shutdown
  mtu 9000
  vrf member vrf_2
  no ip redirects
  ip forward
  ipv6 address use-link-local-only
  no ipv6 redirects

interface port-channel10
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300-500
  spanning-tree port type network
  vpc peer-link

interface port-channel100
  switchport
  switchport mode trunk
  switchport trunk allowed vlan 100,200,300-305
  mtu 9216
  vpc 100

interface nve1
  no shutdown
  host-reachability protocol bgp
  advertise virtual-rmac
  source-interface loopback1
  member vni 4000100
    suppress-arp
    mcast-group 231.0.0.1
  member vni 4000200
    suppress-arp
    mcast-group 231.0.0.2
  member vni 4000502 associate-vrf

interface Ethernet1/2
  mtu 9216
  port-type fabric
  medium p2p
  ip address 192.168.3.12/24
  ip ospf network point-to-point
```

```
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
no shutdown

interface Ethernet1/23
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300-305
mtu 9216
channel-group 100
no shutdown

interface Ethernet1/24
switchport
switchport mode trunk
switchport trunk allowed vlan 100,200,300-305
mtu 9216
channel-group 100
no shutdown

interface loopback0
ip address 10.103.0.10/32
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode

interface loopback1
ip address 10.103.1.6/32
ip address 10.103.202.202/32 secondary
ip router ospf 100 area 0.0.0.0
ip pim sparse-mode
icam monitor scale

router ospf 100
router-id 10.102.0.10
router bgp 200
router-id 10.102.0.10
log-neighbor-changes
address-family l2vpn evpn
advertise-pip
neighbor 10.103.0.2
remote-as 200
update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
address-family ipv4 mvpn
send-community
send-community extended
address-family l2vpn evpn
send-community
send-community extended
neighbor 10.103.0.3
remote-as 200
update-source loopback0
address-family ipv4 unicast
address-family ipv6 unicast
send-community
send-community extended
address-family l2vpn evpn
send-community
send-community extended

evpn
vni 4000100 12
```



```
rd auto
route-target import auto
route-target export auto
vni 4000200 12
rd auto
route-target import auto
route-target export auto
vni 4000301 12
rd auto
route-target import auto
route-target export auto
vni 4000302 12
rd auto
route-target import auto
route-target export auto
vni 4000303 12
rd auto
route-target import auto
route-target export auto
S2-Leaf4#
```

Vérifier

Référez-vous à cette section pour vous assurer du bon fonctionnement de votre configuration.

Cisco [CLI Analyzer](#) (clients enregistrés uniquement) prend en charge certains `show` de l'assistant. Utilisez Cisco CLI Analyzer afin de visualiser une analyse de `show` résultat de la commande.

```
<#root>
```

```
Host2#
```

```
show ip int brief
```

```
IP Interface Status for VRF "default"(1)
Interface          IP Address          Interface Status
Vlan100            192.168.100.102    protocol-up/link-up/admin-up
Vlan200            192.168.200.102    protocol-up/link-up/admin-up
Lo100              10.2.3.4            protocol-up/link-up/admin-up
Host2#
Host2#
```

```
<#root>
```

```
Host2#
```

```
ping 192.168.200.103
```

```
PING 192.168.200.103 (192.168.200.103): 56 data bytes
64 bytes from 192.168.200.103: icmp_seq=0 ttl=254 time=1.21 ms
64 bytes from 192.168.200.103: icmp_seq=1 ttl=254 time=0.627 ms
64 bytes from 192.168.200.103: icmp_seq=2 ttl=254 time=0.74 ms
64 bytes from 192.168.200.103: icmp_seq=3 ttl=254 time=0.737 ms
```

```
64 bytes from 192.168.200.103: icmp_seq=4 ttl=254 time=0.542 ms
--- 192.168.200.103 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 0.542/0.771/1.21 ms
Host2#
Host2#
Host2#
```

```
ping 192.168.100.103
```

```
PING 192.168.100.103 (192.168.100.103): 56 data bytes
64 bytes from 192.168.100.103: icmp_seq=0 ttl=254 time=1.195 ms
64 bytes from 192.168.100.103: icmp_seq=1 ttl=254 time=0.613 ms
64 bytes from 192.168.100.103: icmp_seq=2 ttl=254 time=0.575 ms
64 bytes from 192.168.100.103: icmp_seq=3 ttl=254 time=0.522 ms
64 bytes from 192.168.100.103: icmp_seq=4 ttl=254 time=0.534 ms
--- 192.168.100.103 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 0.522/0.687/1.195 ms
Host2#
Host2#
Host2#
```

```
ping 192.168.100.100
```

```
PING 192.168.100.100 (192.168.100.100): 56 data bytes
64 bytes from 192.168.100.100: icmp_seq=0 ttl=254 time=1.029 ms
64 bytes from 192.168.100.100: icmp_seq=1 ttl=254 time=0.561 ms
64 bytes from 192.168.100.100: icmp_seq=2 ttl=254 time=0.579 ms
64 bytes from 192.168.100.100: icmp_seq=3 ttl=254 time=0.511 ms
64 bytes from 192.168.100.100: icmp_seq=4 ttl=254 time=0.496 ms
--- 192.168.100.100 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 0.496/0.635/1.029 ms
Host2#
Host2#
Host2#
```

```
ping 192.168.200.100
```

```
PING 192.168.200.100 (192.168.200.100): 56 data bytes
64 bytes from 192.168.200.100: icmp_seq=0 ttl=254 time=1.263 ms
64 bytes from 192.168.200.100: icmp_seq=1 ttl=254 time=0.816 ms
64 bytes from 192.168.200.100: icmp_seq=2 ttl=254 time=0.735 ms
64 bytes from 192.168.200.100: icmp_seq=3 ttl=254 time=0.659 ms
64 bytes from 192.168.200.100: icmp_seq=4 ttl=254 time=0.634 ms
--- 192.168.200.100 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 0.634/0.821/1.263 ms
Host2#
```

```
<#root>
```

```
HOST_3(config)#
HOST_3(config)#
```

```
ping 192.168.100.100
```

```
HOST_3(config)# ping 192.168.100.100
PING 192.168.100.100 (192.168.100.100): 56 data bytes
64 bytes from 192.168.100.100: icmp_seq=0 ttl=254 time=1.319 ms
64 bytes from 192.168.100.100: icmp_seq=1 ttl=254 time=0.77 ms
64 bytes from 192.168.100.100: icmp_seq=2 ttl=254 time=0.505 ms
64 bytes from 192.168.100.100: icmp_seq=3 ttl=254 time=0.542 ms
64 bytes from 192.168.100.100: icmp_seq=4 ttl=254 time=0.486 ms
--- 192.168.100.100 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 0.486/0.724/1.319 ms
HOST_3(config)#
```

```
HOST_3(config)#
ping 192.168.100.102
```

```
HOST_3(config)# ping 192.168.100.102
PING 192.168.100.102 (192.168.100.102): 56 data bytes
64 bytes from 192.168.100.102: icmp_seq=0 ttl=254 time=1.304 ms
64 bytes from 192.168.100.102: icmp_seq=1 ttl=254 time=0.853 ms
64 bytes from 192.168.100.102: icmp_seq=2 ttl=254 time=0.845 ms
64 bytes from 192.168.100.102: icmp_seq=3 ttl=254 time=0.564 ms
64 bytes from 192.168.100.102: icmp_seq=4 ttl=254 time=0.55 ms
--- 192.168.100.102 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 0.55/0.823/1.304 ms
HOST_3(config)#
HOST_3(config)#
HOST_3(config)#
```

```
ping 192.168.200.102
```

```
HOST_3(config)# ping 192.168.200.102
PING 192.168.200.102 (192.168.200.102): 56 data bytes
64 bytes from 192.168.200.102: icmp_seq=0 ttl=254 time=0.997 ms
64 bytes from 192.168.200.102: icmp_seq=1 ttl=254 time=0.766 ms
64 bytes from 192.168.200.102: icmp_seq=2 ttl=254 time=0.84 ms
64 bytes from 192.168.200.102: icmp_seq=3 ttl=254 time=0.734 ms
64 bytes from 192.168.200.102: icmp_seq=4 ttl=254 time=0.592 ms
--- 192.168.200.102 ping statistics ---
5 packets transmitted, 5 packets received, 0.00% packet loss
round-trip min/avg/max = 0.592/0.785/0.997 ms
HOST_3(config)#
```

```
HOST_3(config)#
ping 192.168.200.100
```

```
HOST_3(config)# ping 192.168.200.100
PING 192.168.200.100 (192.168.200.100): 56 data bytes
36 bytes from 192.168.200.103: Destination Host Unreachable
Request 0 timed out
64 bytes from 192.168.200.100: icmp_seq=1 ttl=254 time=1.376 ms
64 bytes from 192.168.200.100: icmp_seq=2 ttl=254 time=0.806 ms
64 bytes from 192.168.200.100: icmp_seq=3 ttl=254 time=0.77 ms
64 bytes from 192.168.200.100: icmp_seq=4 ttl=254 time=0.793 ms
--- 192.168.200.100 ping statistics ---
5 packets transmitted, 4 packets received, 20.00% packet loss
round-trip min/avg/max = 0.77/0.936/1.376 ms
HOST_3(config)#
```

Dépannage

Cette section fournit des informations que vous pouvez utiliser pour dépanner votre configuration.

Cisco [CLI Analyzer](#) (clients enregistrés uniquement) prend en charge certains `show` de l'assistant. Utilisez Cisco CLI Analyzer afin de visualiser une analyse de `show` résultat de la commande.

```
<#root>
```

```
Host2#
```

```
show ip arp
```

```
Flags: * - Adjacencies learnt on non-active FHRP router
+ - Adjacencies synced via CFSOE
# - Adjacencies Throttled for Glean
CP - Added via L2RIB, Control plane Adjacencies
PS - Added via L2RIB, Peer Sync
RO - Re-Originated Peer Sync Entry
D - Static Adjacencies attached to down interface
```

```
IP ARP Table for context default
```

```
Total number of entries: 8
```

Address	Age	MAC Address	Interface	Flags
192.168.100.100	00:06:52	6c8b.d3ff.00a7	Vlan100	
192.168.100.103	00:07:54	6c8b.d3fe.ecb5	Vlan100	
192.168.100.104	00:07:01	6c8b.d3fe.df3b	Vlan100	
192.168.100.254	00:08:01	0000.1111.2222	Vlan100	
192.168.200.100	00:14:46	6c8b.d3ff.00a7	Vlan200	
192.168.200.103	00:07:07	6c8b.d3fe.ecb5	Vlan200	
192.168.200.104	00:07:31	6c8b.d3fe.df3b	Vlan200	
192.168.200.254	00:07:07	0000.1111.2222	Vlan200	

```
Host2#
```

```
Host2#
```

```
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
* 100	0000.1111.2222	dynamic	0	F	F	Po2
* 100	6c8b.d3fe.df3b	dynamic	0	F	F	Po2
* 100	6c8b.d3fe.ecb5	dynamic	0	F	F	Po2
* 100	6c8b.d3ff.00a7	dynamic	0	F	F	Po2
* 200	0000.1111.2222	dynamic	0	F	F	Po2
* 200	6c8b.d3fe.df3b	dynamic	0	F	F	Po2
* 200	6c8b.d3fe.ecb5	dynamic	0	F	F	Po2
* 200	6c8b.d3ff.00a7	dynamic	0	F	F	Po2
G -	6c8b.d3fe.ff09	static	-	F	F	sup-eth1(R)
G 100	6c8b.d3fe.ff09	static	-	F	F	sup-eth1(R)
G 200	6c8b.d3fe.ff09	static	-	F	F	sup-eth1(R)

```
Host2#
```

```
Host2#
```

<#root>

HOST_3(config)#

show ip arp

Flags: * - Adjacencies learnt on non-active FHRP router
+ - Adjacencies synced via CFSOE
- Adjacencies Throttled for Glean
CP - Added via L2RIB, Control plane Adjacencies
PS - Added via L2RIB, Peer Sync
RO - Re-Originated Peer Sync Entry
D - Static Adjacencies attached to down interface

IP ARP Table for context default

Total number of entries: 8

Address	Age	MAC Address	Interface	Flags
192.168.200.100	00:00:07	6c8b.d3ff.00a7	Vlan200	
192.168.200.102	00:11:41	6c8b.d3fe.ff09	Vlan200	
192.168.200.104	00:18:38	6c8b.d3fe.df3b	Vlan200	
192.168.200.254	00:12:19	0000.1111.2222	Vlan200	
192.168.100.100	00:07:16	6c8b.d3ff.00a7	Vlan100	
192.168.100.102	00:11:51	6c8b.d3fe.ff09	Vlan100	
192.168.100.104	00:15:06	6c8b.d3fe.df3b	Vlan100	
192.168.100.254	00:11:37	0000.1111.2222	Vlan100	

HOST_3(config)#

<#root>

S1-Leaf1#

show bgp l2vpn evpn

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

BGP table version is 3291, Local Router ID is 10.102.0.5

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: 100:4000100

*>i[2]:[0]:[0]:[48]:[10b3.d5c7.9fbd]:[0]:[0.0.0.0]/216	10.100.100.1		100	0	300 200 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.3785]:[0]:[0.0.0.0]/216	10.100.100.1		100	0	300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[0]:[0.0.0.0]/216	10.100.100.1		100	0	300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[0]:[0.0.0.0]/216	10.100.100.1		100	0	300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76d4.2ebf]:[0]:[0.0.0.0]/216	10.100.100.1		100	0	300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76d4.3aef]:[0]:[0.0.0.0]/216	10.100.100.1		100	0	300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.04c3]:[0]:[0.0.0.0]/216	10.100.100.1		100	0	300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.0a3f]:[0]:[0.0.0.0]/216	10.100.100.1		100	0	300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.100.104]/272	10.100.100.1		100	0	300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[32]:[192.168.100.103]/272					

```

10.100.100.1 100 0 300 200 i

Route Distinguisher: 100:4000200
*>i[2]:[0]:[0]:[48]:[10b3.d5c7.9fbd]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.3785]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76d4.2ebf]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76d4.3aef]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.04c3]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.0a3f]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.200.104]/272
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[32]:[192.168.200.103]/272
10.100.100.1 100 0 300 200

Route Distinguisher: 10.31.1.1:32867
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.383d]:[0]:[0.0.0.0]/216
10.133.133.133 100 0

Route Distinguisher: 10.31.1.1:32967
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.383d]:[0]:[0.0.0.0]/216
10.133.133.133 100 0 i

Route Distinguisher: 10.31.1.2:32867
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.38c7]:[0]:[0.0.0.0]/216
10.134.134.134 100 0 i

Route Distinguisher: 10.31.1.2:32967
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.38c7]:[0]:[0.0.0.0]/216
10.134.134.134 100 0 i

Route Distinguisher: 10.102.0.5:32867 (L2VNI 4000100)
*>i[2]:[0]:[0]:[48]:[10b3.d5c7.9fbd]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.3785]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.383d]:[0]:[0.0.0.0]/216
10.133.133.133 100 0 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.38c7]:[0]:[0.0.0.0]/216
10.134.134.134 100 0 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
* i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[0]:[0.0.0.0]/216
10.202.202.202 100 0 i
*>i
10.202.202.202 100 0 i
*>l[2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[0]:[0.0.0.0]/216
10.201.201.201 100 32768 i
*>i[2]:[0]:[0]:[48]:[cc7f.76c6.a673]:[0]:[0.0.0.0]/216
10.202.202.202 100 0 i
*>i[2]:[0]:[0]:[48]:[cc7f.76d4.2ebf]:[0]:[0.0.0.0]/216

```

```

10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76d4.3aef]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.04c3]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.0a3f]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>l[2]:[0]:[0]:[48]:[cc7f.76fa.0adb]:[0]:[0.0.0.0]/216
10.201.201.201 100 32768 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.118f]:[0]:[0.0.0.0]/216
10.202.202.202 100 0 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.100.104]/272
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[32]:[192.168.100.103]/272
10.100.100.1 100 0 300 200 i
* i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.100.102]/272
10.202.202.202 100 0 i
*>i 10.202.202.202 100 0 i
*>l[2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[32]:[192.168.100.100]/272
10.201.201.201 100 32768 i

```

Route Distinguisher: 10.102.0.5:32967 (L2VNI 4000200)

```

*>i[2]:[0]:[0]:[48]:[10b3.d5c7.9fbd]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.3785]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.383d]:[0]:[0.0.0.0]/216
10.133.133.133 100 0 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.38c7]:[0]:[0.0.0.0]/216
10.134.134.134 100 0 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
* i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[0]:[0.0.0.0]/216
10.202.202.202 100 0 i
*>i 10.202.202.202 100 0 i
*>l[2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[0]:[0.0.0.0]/216
10.201.201.201 100 32768 i
*>i[2]:[0]:[0]:[48]:[cc7f.76c6.a673]:[0]:[0.0.0.0]/216
10.202.202.202 100 0 i
*>i[2]:[0]:[0]:[48]:[cc7f.76d4.2ebf]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76d4.3aef]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.04c3]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.0a3f]:[0]:[0.0.0.0]/216
10.100.100.1 100 0 300 200 i
*>l[2]:[0]:[0]:[48]:[cc7f.76fa.0adb]:[0]:[0.0.0.0]/216
10.201.201.201 100 32768 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.118f]:[0]:[0.0.0.0]/216
10.202.202.202 100 0 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.200.104]/272
10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[32]:[192.168.200.103]/272
10.100.100.1 100 0 300 200 i
* i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.200.102]/272
10.202.202.202 100 0 i
*>i 10.202.202.202 100 0 i
*>l[2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[32]:[192.168.200.100]/272

```

```

10.201.201.201                100      32768 i

Route Distinguisher: 10.102.0.9:5
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.118f]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>i[5]:[0]:[0]:[24]:[192.168.100.0]/224
10.102.1.10                  100          0 i
*>i[5]:[0]:[0]:[32]:[10.15.100.2]/224
10.102.1.10                  100          0 i

Route Distinguisher: 10.102.0.9:32867
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.118f]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.100.102]/272
10.202.202.202                100          0 i

Route Distinguisher: 10.102.0.9:32967
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.118f]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.200.102]/272
10.202.202.202                100          0 i

Route Distinguisher: 10.102.0.10:5
*>i[2]:[0]:[0]:[48]:[cc7f.76c6.a673]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>i[5]:[0]:[0]:[24]:[192.168.100.0]/224
10.102.1.6                   100          0 i
*>i[5]:[0]:[0]:[32]:[10.15.100.1]/224
10.102.1.6                   100          0 i

Route Distinguisher: 10.102.0.10:32867
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>i[2]:[0]:[0]:[48]:[cc7f.76c6.a673]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.100.102]/272
10.202.202.202                100          0 i

Route Distinguisher: 10.102.0.10:32967
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>i[2]:[0]:[0]:[48]:[cc7f.76c6.a673]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.200.102]/272
10.202.202.202                100          0 i

Route Distinguisher: 10.102.0.5:5 (L3VNI 4000502)
*>i[2]:[0]:[0]:[48]:[cc7f.76c6.a673]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>l[2]:[0]:[0]:[48]:[cc7f.76fa.0adb]:[0]:[0.0.0.0]/216
10.201.201.201                100      32768 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.118f]:[0]:[0.0.0.0]/216
10.202.202.202                100          0 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.100.104]/272
10.100.100.1                  100          0 300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.200.104]/272
10.100.100.1                  100          0 300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[32]:[192.168.100.103]/272

```



```

10.100.100.1 100 0 300 200 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[32]:[192.168.200.103]/272
10.100.100.1 100 0 300 200 i
* i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.100.102]/272
10.202.202.202 100 0 i
*>i 10.202.202.202 100 0 i
* i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.200.102]/272
10.202.202.202 100 0 i
*>i 10.202.202.202 100 0 i
* i[5]:[0]:[0]:[24]:[192.168.100.0]/224
10.102.1.6 100 0 i
*>i 10.102.1.10 100 0 i
*>i[5]:[0]:[0]:[32]:[10.15.100.1]/224
10.102.1.6 100 0 i
*>i[5]:[0]:[0]:[32]:[10.15.100.2]/224
10.102.1.10 100 0 i
S1-Leaf1#

```

<#root>

S1-Leaf1#

show vpc brief

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 = 150s)
Delay-restore SVI status : Timer is off.(timeout = 10s)
Delay-restore Orphan-port status : Timer is off.(timeout = 0s)
Operational Layer3 Peer-router : Disabled
Virtual-peerlink mode  : Enabled

```

vPC Peer-link status

```

-----
id   Port   Status Active vlans
--   -
1    Po10   up     100,200,300-350,2001

```

vPC status

```

-----
Id   Port           Status Consistency Reason           Active vlans
--   -
100  Po100          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.

S1-Leaf1#

<#root>

S1-Leaf1#

S1-Leaf1#

show ip int brief

IP Interface Status for VRF "default"(1)

Interface	IP Address	Interface Status
Lo0	10.102.0.5	protocol-up/link-up/admin-up
Lo1	10.102.1.8	protocol-up/link-up/admin-up
Eth1/2	192.168.17.12	protocol-up/link-up/admin-up

S1-Leaf1#

<#root>

S2-Leaf1#

show bgp l2vpn evpn

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

BGP table version is 4016, Local Router ID is 10.103.0.5

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: 200:4000100					
*>i [2]:[0]:[0]:[48]:[4ce1.75f7.383d]:[0]:[0.0.0.0]/216	10.100.100.2	100		0 300 100	i
*>i [2]:[0]:[0]:[48]:[4ce1.75f7.38c7]:[0]:[0.0.0.0]/216	10.100.100.2	100		0 300 100	i
*>i [2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[0]:[0.0.0.0]/216	10.100.100.2	100		0 300 100	i
*>i [2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[0]:[0.0.0.0]/216	10.100.100.2	100		0 300 100	i
*>i [2]:[0]:[0]:[48]:[cc7f.76c6.a673]:[0]:[0.0.0.0]/216	10.100.100.2	100		0 300 100	i
*>i [2]:[0]:[0]:[48]:[cc7f.76fa.0907]:[0]:[0.0.0.0]/216	10.100.100.2	100		0 300 100	i
*>i [2]:[0]:[0]:[48]:[cc7f.76fa.0adb]:[0]:[0.0.0.0]/216	10.100.100.2	100		0 300 100	i
*>i [2]:[0]:[0]:[48]:[cc7f.76fa.118f]:[0]:[0.0.0.0]/216	10.100.100.2	100		0 300 100	i
*>i [2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.100.102]/272	10.100.100.2	100		0 300 100	i
*>i [2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[32]:[192.168.100.100]/272	10.100.100.2	100		0 300 100	i

Route Distinguisher: 200:4000200

*>i [2]:[0]:[0]:[48]:[4ce1.75f7.383d]:[0]:[0.0.0.0]/216	10.100.100.2	100		0 300 100	i
*>i [2]:[0]:[0]:[48]:[4ce1.75f7.38c7]:[0]:[0.0.0.0]/216	10.100.100.2	100		0 300 100	i
*>i [2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[0]:[0.0.0.0]/216					

```

10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[cc7f.76c6.a673]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.0907]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.0adb]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.118f]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.200.102]/272
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[32]:[192.168.200.100]/272
10.100.100.2 100 0 300 100 i

```

Route Distinguisher: 200:4000502

```

*>i[5]:[0]:[0]:[24]:[192.168.100.0]/224
10.100.100.2 100 0 300 100 i
*>i[5]:[0]:[0]:[32]:[10.15.100.1]/224
10.100.100.2 100 0 300 100 i
*>i[5]:[0]:[0]:[32]:[10.15.100.2]/224
10.100.100.2 100 0 300 100 i

```

Route Distinguisher: 10.31.1.3:32867

```

*>i[2]:[0]:[0]:[48]:[4ce1.75f7.3785]:[0]:[0.0.0.0]/216
10.135.135.135 100 0 i

```

Route Distinguisher: 10.31.1.3:32967

```

*>i[2]:[0]:[0]:[48]:[4ce1.75f7.3785]:[0]:[0.0.0.0]/216
10.135.135.135 100 0 i

```

Route Distinguisher: 10.31.1.4:32867

```

*>i[2]:[0]:[0]:[48]:[10b3.d5c7.9fbd]:[0]:[0.0.0.0]/216
10.136.136.136 100 0 i

```

Route Distinguisher: 10.31.1.4:32967

```

*>i[2]:[0]:[0]:[48]:[10b3.d5c7.9fbd]:[0]:[0.0.0.0]/216
10.136.136.136 100 0 i

```

Route Distinguisher: 10.102.0.10:5

```

*>i[2]:[0]:[0]:[48]:[cc7f.76fa.04c3]:[0]:[0.0.0.0]/216
10.103.202.202 100 0 i

```

Route Distinguisher: 10.102.0.10:32867

```

*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[0]:[0.0.0.0]/216
10.103.202.202 100 0 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.04c3]:[0]:[0.0.0.0]/216
10.103.202.202 100 0 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.100.104]/272
10.103.202.202 100 0 i

```

Route Distinguisher: 10.102.0.10:32967

```

*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[0]:[0.0.0.0]/216
10.103.202.202 100 0 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.04c3]:[0]:[0.0.0.0]/216
10.103.202.202 100 0 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.200.104]/272
10.103.202.202 100 0 i

```

Route Distinguisher: 10.103.0.5:32867 (L2VNI 4000100)

```

*>i[2]:[0]:[0]:[48]:[10b3.d5c7.9fbd]:[0]:[0.0.0.0]/216

```

```

10.136.136.136 100 0 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.3785]:[0]:[0.0.0.0]/216
10.135.135.135 100 0 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.383d]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.38c7]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
* i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[0]:[0.0.0.0]/216
10.103.202.202 100 0 i
*>i 10.103.202.202 100 0 i
*>l[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[0]:[0.0.0.0]/216
10.103.201.201 100 32768 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[cc7f.76c6.a673]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[cc7f.76d4.2ebf]:[0]:[0.0.0.0]/216
10.103.202.202 100 0 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.04c3]:[0]:[0.0.0.0]/216
10.103.202.202 100 0 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.0907]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>l[2]:[0]:[0]:[48]:[cc7f.76fa.0a3f]:[0]:[0.0.0.0]/216
10.103.201.201 100 32768 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.0adb]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[cc7f.76fa.118f]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
* i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.100.104]/272
10.103.202.202 100 0 i
*>i 10.103.202.202 100 0 i
*>l[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[32]:[192.168.100.103]/272
10.103.201.201 100 32768 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.100.102]/272
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[32]:[192.168.100.100]/272
10.100.100.2 100 0 300 100 i

Route Distinguisher: 10.103.0.5:32967 (L2VNI 4000200)
*>i[2]:[0]:[0]:[48]:[10b3.d5c7.9fbd]:[0]:[0.0.0.0]/216
10.136.136.136 100 0 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.3785]:[0]:[0.0.0.0]/216
10.135.135.135 100 0 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.383d]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[4ce1.75f7.38c7]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
* i[2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[0]:[0.0.0.0]/216
10.103.202.202 100 0 i
*>i 10.103.202.202 100 0 i
*>l[2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[0]:[0.0.0.0]/216
10.103.201.201 100 32768 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[cc7f.76c6.a673]:[0]:[0.0.0.0]/216
10.100.100.2 100 0 300 100 i
*>i[2]:[0]:[0]:[48]:[cc7f.76d4.2ebf]:[0]:[0.0.0.0]/216
10.103.202.202 100 0 i

```

```

*>i [2]:[0]:[0]:[48]:[cc7f.76fa.04c3]:[0]:[0.0.0.0]/216
    10.103.202.202          100          0 i
*>i [2]:[0]:[0]:[48]:[cc7f.76fa.0907]:[0]:[0.0.0.0]/216
    10.100.100.2           100          0 300 100 i
*>l [2]:[0]:[0]:[48]:[cc7f.76fa.0a3f]:[0]:[0.0.0.0]/216
    10.103.201.201        100          32768 i
*>i [2]:[0]:[0]:[48]:[cc7f.76fa.0adb]:[0]:[0.0.0.0]/216
    10.100.100.2           100          0 300 100 i
*>i [2]:[0]:[0]:[48]:[cc7f.76fa.118f]:[0]:[0.0.0.0]/216
    10.100.100.2           100          0 300 100 i
* i [2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.200.104]/272
    10.103.202.202          100          0 i
*>i
    10.103.202.202          100          0 i
*>l [2]:[0]:[0]:[48]:[6c8b.d3fe.ecb5]:[32]:[192.168.200.103]/272
    10.103.201.201        100          32768 i
*>i [2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.200.102]/272
    10.100.100.2           100          0 300 100 i
*>i [2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[32]:[192.168.200.100]/272
    10.100.100.2           100          0 300 100 i

```

Route Distinguisher: 10.103.0.9:5

```

*>i [2]:[0]:[0]:[48]:[cc7f.76d4.2ebf]:[0]:[0.0.0.0]/216
    10.103.202.202          100          0 i

```

Route Distinguisher: 10.103.0.9:32867

```

*>i [2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[0]:[0.0.0.0]/216
    10.103.202.202          100          0 i
*>i [2]:[0]:[0]:[48]:[cc7f.76d4.2ebf]:[0]:[0.0.0.0]/216
    10.103.202.202          100          0 i
*>i [2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.100.104]/272
    10.103.202.202          100          0 i

```

Route Distinguisher: 10.103.0.9:32967

```

*>i [2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[0]:[0.0.0.0]/216
    10.103.202.202          100          0 i
*>i [2]:[0]:[0]:[48]:[cc7f.76d4.2ebf]:[0]:[0.0.0.0]/216
    10.103.202.202          100          0 i
*>i [2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.200.104]/272
    10.103.202.202          100          0 i

```

Route Distinguisher: 10.103.0.5:5 (L3VNI 4000502)

```

*>i [2]:[0]:[0]:[48]:[cc7f.76d4.2ebf]:[0]:[0.0.0.0]/216
    10.103.202.202          100          0 i
*>i [2]:[0]:[0]:[48]:[cc7f.76fa.04c3]:[0]:[0.0.0.0]/216
    10.103.202.202          100          0 i
*>l [2]:[0]:[0]:[48]:[cc7f.76fa.0a3f]:[0]:[0.0.0.0]/216
    10.103.201.201        100          32768 i
* i [2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.100.104]/272
    10.103.202.202          100          0 i
*>i
    10.103.202.202          100          0 i
* i [2]:[0]:[0]:[48]:[6c8b.d3fe.df3b]:[32]:[192.168.200.104]/272
    10.103.202.202          100          0 i
*>i
    10.103.202.202          100          0 i
*>i [2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.100.102]/272
    10.100.100.2           100          0 300 100 i
*>i [2]:[0]:[0]:[48]:[6c8b.d3fe.ff09]:[32]:[192.168.200.102]/272
    10.100.100.2           100          0 300 100 i
*>i [2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[32]:[192.168.100.100]/272
    10.100.100.2           100          0 300 100 i
*>i [2]:[0]:[0]:[48]:[6c8b.d3ff.00a7]:[32]:[192.168.200.100]/272
    10.100.100.2           100          0 300 100 i
*>i [5]:[0]:[0]:[24]:[192.168.100.0]/224

```

```
10.100.100.2 100 0 300 100 i
*>i[5]:[0]:[0]:[32]:[10.15.100.1]/224
10.100.100.2 100 0 300 100 i
*>i[5]:[0]:[0]:[32]:[10.15.100.2]/224
10.100.100.2 100 0 300 100 i
S2-Leaf1#
```

À propos de cette traduction

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