

Route Server를 사용하여 Nexus EVPN-VXLAN 멀티 사이트 구성

목차

[소개](#)

[사전 요구 사항](#)

[요구 사항](#)

[사용되는 구성 요소](#)

[배경 정보](#)

[멀티 사이트가 어떤 도움이 됩니까?](#)

[기타 혜택](#)

[구성](#)

[네트워크 다이어그램](#)

[사이트 1 Leaf-1 컨피그레이션](#)

[사이트 1 리프-2 컨피그레이션](#)

[사이트 1 Leaf-3 컨피그레이션](#)

[사이트 1 리프-4 컨피그레이션](#)

[사이트 1 스파인-1 컨피그레이션](#)

[사이트 1 보더 게이트웨이-1 컨피그레이션](#)

[사이트 1 보더 게이트웨이-2 컨피그레이션](#)

[라우터 서버](#)

[사이트 2 보더 게이트웨이-1 컨피그레이션](#)

[사이트 2 보더 게이트웨이-2 컨피그레이션](#)

[사이트 2 스파인-1 컨피그레이션](#)

[사이트 2 Leaf-1 컨피그레이션](#)

[사이트 2 리프-2 컨피그레이션](#)

[사이트 2 Leaf-3 컨피그레이션](#)

[사이트 2 Leaf-4 컨피그레이션](#)

[다음을 확인합니다.](#)

[문제 해결](#)

소개

이 문서에서는 Cisco Nexus 9000 스위치에서 이더넷 VPN/EVPN/VxLAN(Virtual Extensible LAN) 멀티 사이트 환경을 구성하고 확인하는 방법에 대해 설명합니다. vPC 리프 노드의 가상 패브릭 피어링이 포함됩니다.

사이트 대 사이트 연결의 경우 경로 서버 개념에 대해 설명합니다.

사전 요구 사항

요구 사항

다음 주제에 대한 지식을 보유하고 있으면 유용합니다.

- MPLS(Multiprotocol Label Switching) 레이어 3 VPN
- MP-BGP(Multiprotocol-Border Gateway Protocol)
- EVPN

사용되는 구성 요소

이 문서의 정보는 다음 소프트웨어 및 하드웨어 버전을 기반으로 합니다.

모든 사이트 리프	N9K-C9336C-FX2	NXOS: 10.2(3)
S1_스파인1	N9K-C9364C	NXOS: 10.2(4)
S1_스파인2	N9K-C9364C	NXOS 9.3(5)
S1_Border Gateway1, S2_Border Gateway2, S2_Border Gateway1	N9K-C9332C	NXOS: 9.3(9)
S1_Border Gateway2	N9K-C9332C	NXOS: 10.2(4)
경로 서버	N9K-C9396PX	NXOS: 9.2(2)
호스트 1	N3K-C3264C-E	NXOS: 9.3(5)
호스트 2 및 호스트 3	N3K-C3264C-E	NXOS: 9.2(2)

이 문서의 정보는 특정 랩 환경의 디바이스를 토대로 작성되었습니다. 이 문서에 사용된 모든 디바이스는 초기화된(기본) 컨피그레이션으로 시작되었습니다. 현재 네트워크가 작동 중인 경우 모든 명령의 잠재적인 영향을 미리 숙지하시기 바랍니다.

배경 정보

데이터 센터는 모든 비즈니스 환경을 지원하는 데 필요한 컴퓨팅 성능, 스토리지 및 애플리케이션이 포함된 리소스 풀입니다. 데이터 센터 인프라 설계에 대한 적절한 계획이 필수적입니다. 이 문서에서는 병원 네트워크에 대한 요구 사항과 이러한 요구 사항을 충족하거나 초과하는 방법에 대해 다룹니다. 최신 IT 인프라 및 데이터 센터 구축에는 고가용성(HA), 더 빠른 속도로 확장 가능한 기능, 항상 높은 성능이 필요합니다.

DC 설계/아키텍처 분야의 몇 가지 핵심 요구 사항은 다음과 같습니다.

- FEX(Fabric Extender)를 통해 포트 집적도가 향상됩니다.
- 컴퓨팅 용량은 UCS(Hardware Virtualization)를 통해 향상됩니다.
- 액세스 레이어 업링크 대역폭은 포트 채널에 의해 향상됩니다.
- 새시 레벨 이중화는 vPC에 의해 개선됩니다.
- SDN(Software-Defined Networking) 패브릭은 ACI(Application Centric Infrastructure)를 통해 향상되었으며 패브릭에서 언더레이와 오버레이를 자동화합니다.
- DCNM(Data Center Network Manager)을 통해 새로운 서비스의 신속한 구축 및 지원이 향상

됩니다.

- 장거리 애플리케이션의 대역폭 요건은 다크 파이버(dark fiber) 또는 파장 서비스로 개선됩니다.
- 무엇보다도 지리적 이중화 및 확장성은 데이터 센터 환경을 throbbing/scaling out하기 위한 핵심 특성입니다. 멀티 사이트 VxLAN/EVPN은 더 나은 DCI(Data Center Interconnect) 솔루션을 제공하는 데 도움이 됩니다.

멀티 사이트가 어떤 도움이 됩니까?

외부 연결에는 네트워크의 나머지 부분(인터넷, WAN 또는 캠퍼스)에 대한 데이터 센터 연결이 포함됩니다. 외부 연결을 위해 제공되는 모든 옵션은 멀티 테넌트를 인식하고 외부 네트워크 도메인으로의 L3(Layer 3) 전송에 중점을 둡니다.

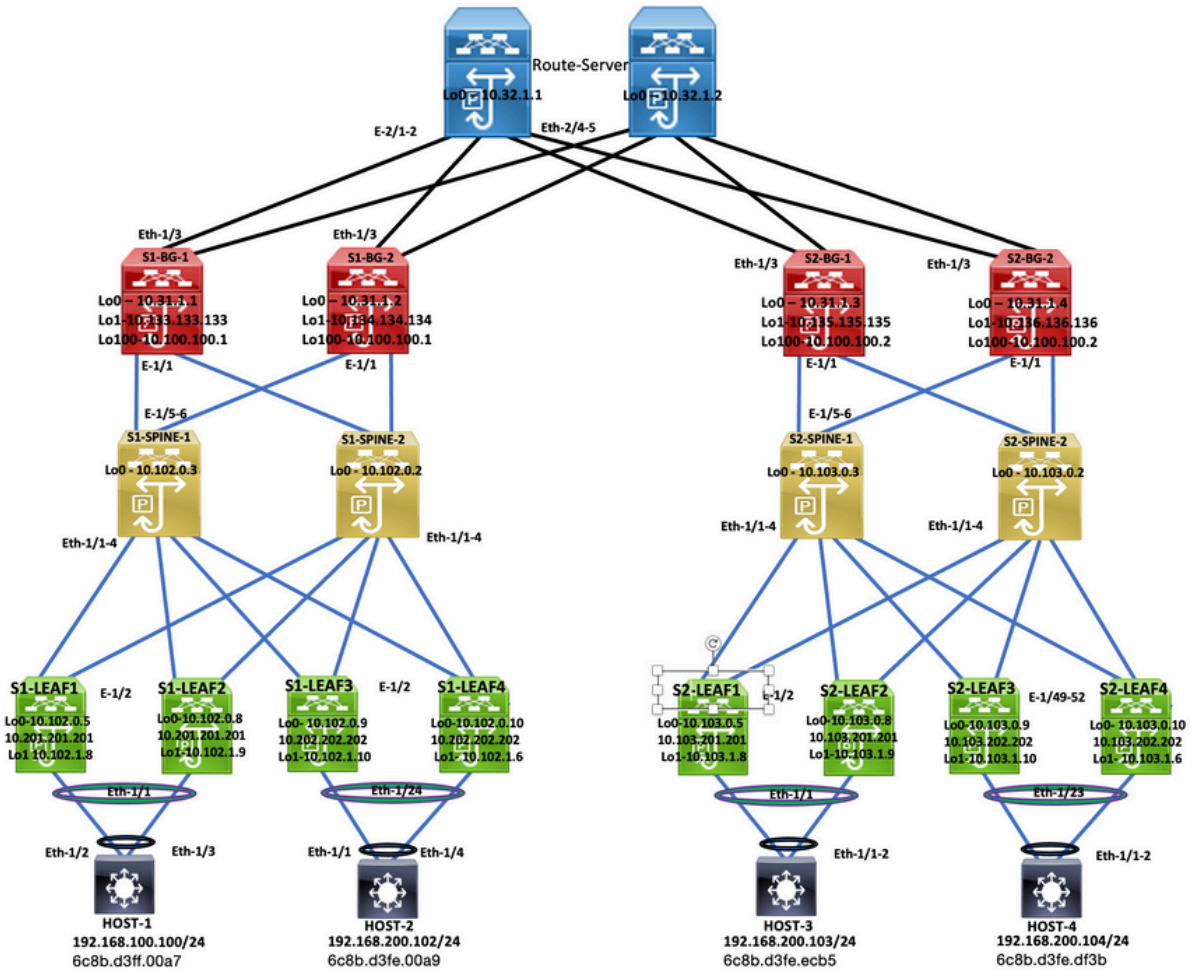
- EVPN은 차세대 올인원(all-in-one) VPN 솔루션입니다.
- 다른 여러 VPN 기술의 작업을 수행할 뿐만 아니라 더 우수합니다.
- 레거시 네트워크와의 통합.
- 선택적 광고/확장:
 - L2(Layer 2)만 확장 - Type-2 경로를 통해 확장할 수 있는 특정 VLAN/서브넷입니다.
 - L3만 확장 - 특정 L3 도메인은 Type-5 라우트로 확장할 수 있습니다.
- Type-4 경로를 사용하는 이중화 그룹의 자동 검색
- 별칭 사용, 주소의 대량 철회, SH(Split Horizon) MH(Multi Homing) 표시(Type-1 경로 사용)
- Type-3 경로를 사용하는 멀티캐스트 터널 엔드포인트 및 멀티캐스트(MCAST) 터널 유형의 자동 검색

기타 혜택

- 데이터 센터 및 클라우드 간 워크로드 밸런싱.
- 장애에 대한 사전 대응 - 허리케인, 홍수와 같은 재해에 접근하는 위험을 완화합니다.
- 데이터 센터 유지 보수 및 마이그레이션 - 일정 기간 동안 예정된 이벤트 및 기존 네트워크와의 통합
- 백업 및 재해 복구 aaS(as-a-service).

구성

네트워크 다이어그램



토폴로지

사이트 1 Leaf-1 컨피그레이션

```

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 l2
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
```

사이트 1 리프-2 컨피그레이션

```
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
```

사이트 1 Leaf-3 컨피그레이션

```
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

```

사이트 1 리프-4 컨피그레이션

```

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
```

사이트 1 스파인-1 컨피그레이션

```
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
```

사이트 1 보더 게이트웨이-1 컨피그레이션

```
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-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
  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

```

사이트 1 보더 게이트웨이-2 컨피그레이션

```
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-ipvn-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#
```

라우터 서버

```
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#

```

사이트 2 보더 게이트웨이-1 컨피그레이션

```

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-TO-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 l2

```

```
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
```

사이트 2 보더 게이트웨이-2 컨피그레이션

```
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-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 192.168.18.12/24
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#
```

사이트 2 스파인-1 컨피그레이션

```
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#
```

사이트 2 Leaf-1 컨피그레이션

```
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 12vpn 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 12vpn 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

```

사이트 2 리프-2 컨피그레이션

```

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#

```

사이트 2 Leaf-3 컨피그레이션

```

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
```

사이트 2 Leaf-4 컨피그레이션

```
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 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
S2-Leaf4#
```

다음을 확인합니다.

설정이 올바르게 작동하는지 확인하려면 이 섹션을 활용하십시오.

[Cisco CLI Analyzer](#)(등록된 고객만 해당)는 `show` 명령을 사용합니다. Cisco CLI Analyzer를 사용하여 `show` 명령 출력입니다.

```
<#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
```

```
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
```

```
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
```

```
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
```

```
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)#
```

문제 해결

이 섹션에서는 설정 문제 해결에 사용할 수 있는 정보를 제공합니다.

[Cisco CLI Analyzer](#)(등록된 고객만 해당)는 `show` 명령을 사용합니다. Cisco CLI Analyzer를 사용하여 `show` 명령 출력입니다.

<#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

```

S2-Leaf1#

10.100.100.2

100

0 300 100 i

이 번역에 관하여

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