Configurer le EVPN de couche 2 Nexus sur SR MPLS avec la passerelle Anycast VPC

Contenu

Introduction

Conditions préalables

Conditions requises

Components Used

Informations générales

Configuration

Diagramme du réseau

Configuration de haut niveau

Vérification

Dépannage

Introduction

Ce document décrit comment déployer le VPN L2 Ethernet sur le routage de segment (SR) la commutation multiprotocole par étiquette avec le Port Channel virtuel sur Nexus9K.

Conditions préalables

Conditions requises

Cisco vous recommande de prendre connaissance des rubriques suivantes :

- Border Gateway Protocol (BGP)
- Protocole OSPF (Open Shortest Path First)
- MPI S
- Protocole LDP (Label Distribution Protocol)
- Protocole de réservation de ressources (RSVP)
- EVPN
- SR
- vPC

Components Used

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

- Commutateur Nexus 92360C qui exécute la version 9.3(10) pour H1 et H3.
- Commutateur Nexus 93180YC-FX qui exécute la version 10.2(3) pour Spine.
- Commutateur Nexus 93240YC qui exécute la version 10.2(3) pour Leaf.

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

Informations générales

VPLS/L2-EVPN est un service VPN de couche 2 multipoint à multipoint qui connecte plusieurs filiales d'un client, dans une architecture commutée logique unique sur un réseau IP/MPLS.

Présentation de Layer2 EVPN-MPLS SR

EVPN (RFC 7432) est une solution BGP MPLS qui a été utilisée pour les services Ethernet de nouvelle génération dans les réseaux de data centers virtualisés. Il utilise plusieurs blocs tels que Distincteur de route (RD), Cible de route (RT) et Routage et transfert virtuel (VRF) des technologies MPLS qui existent.

Contrairement à VPLS, EVPN permet l'apprentissage MAC basé sur le plan de contrôle dans le coeur. Dans EVPN, les PE qui participent aux instances EVPN apprennent des routes MAC personnalisées dans le plan de contrôle avec le protocole Multiprotocol (MP)-BGP. L'apprentissage MAC du plan de contrôle offre un certain nombre d'avantages qui permettent à EVPN de remédier aux lacunes du VPLS, ce qui inclut la prise en charge du multihome avec équilibrage de charge par flux.

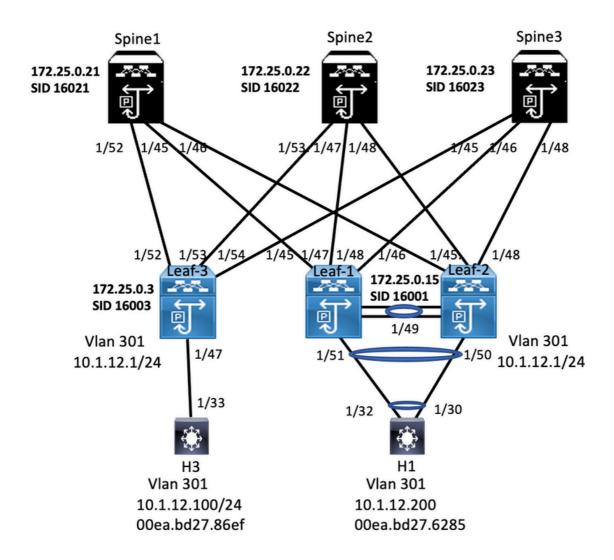
SR L2 EVPN est une nouvelle fonctionnalité disponible dans NXOS 9.3(1) qui est prise en charge sur la plate-forme Nexus 9300 FX2.

Limitations pour L2 EVPN sur SR MPLS

- L'inondation EVPN SR L2 est basée sur le mécanisme de réplication d'entrée
- Il utilise la route EVPN de type 3 pour le trafic BUM
- Le coeur MPLS ne prend pas en charge la multidiffusion
- La suppression du protocole de résolution d'adresse (ARP) n'est pas prise en charge
- La vérification de cohérence sur VPC n'est pas prise en charge
- La même instance EVPN de couche 2 (EVI) et la même instance EVI de couche 3 ne peuvent pas être configurées ensemble

Configuration

Diagramme du réseau



Configuration de haut niveau

- 1. Installer les fonctionnalités
- 2. Configurer l'adresse IP Sous-jacent
- 3. Configurer IGP OSPF
- 4. Configurer MP BGP
- 5. Configuration de la superposition VLAN et EVPN
- 6. Configurer e-BGP entre les hôtes et les LEAF
- 7. Configurer VPC sur LEAF 1 et 2

interface Ethernet1/45 install feature-set mpls allow feature-set mpls feature-set mpls feature bgp feature mpls segment-routing ion connected to Leaf1 - 1/45 - 192.168.1.9 mtu 9216 logging event port link-status no ip redirects router bgp 64087 router-id 172.25.0.21 bestpath as-path multipath-relax ip address 192.168.1.10/30 ip arp timeout 14400 mpls ip forwarding interface Ethernet1/46 remote-as 65534 description EBGP-PEERING-to-ACCESS bestpath med missing-as-worst feature interface-vlan address-family ipv4 unicast bestpath med missing-as-worst log-neighbor-changes nexthop suppress-default-resolution address-family ipv4 unicast network 172.25.0.21/32 maximum-paths 4 nexthop route-map NH-RESTRICT description connected to Leaf2- 1/46 - 192.168.2.9 disable-peer-as-check disable-peer-as-check send-community send-community extended default-originate no advertise local-labeled-route soft-reconfiguration inbound address-family ipv4 labeled-unicast mtu 9216 logging event port link-status no ip redirects ip address 192.168.2.10/30 ip arp timeout 14400 mpls ip forwarding interface Ethernet1/52 allocate-label route-map node-sid-label address-family ipv4 labeled-unicast connected-prefix-sid-map adores-ramily lpve labeled-disable-peer-as-check send-community extended soft-reconfiguration inbour address-family I2vpn evpn disable-peer-as-check send-community address-family ipv4 labeled-prefix-priority high address-family lZvpn evpn retain route-target all neighbor 192.168.1.9 inherit peer EBGP-ACCES neighbor 192.168.2.9 inherit peer EBGP-ACCESS neighbor 192.168.3.9 description connected to Leaf3 - 1/52 - 192.168.3.9 172.25.0.21/32 absolute 16021 mtu 9216 ip prefix-list NH-RESTRICT seq 5 permit 0.0.0.0/0 ip prefix-list node-sid-loopback seq 5 permit 172.25.0.21/32 route-map NH-RESTRICT deny 10 match ip address prefix-list NH-RESTRICT route-map NH-RESTRICT permit 20 logging event port link-status no ip redirects ip address 192.168.3.10/30 ip arp timeout 14400 mpls ip forwarding nterface loopback0 route-map NH_UNCHG permit 10 ip address 172.25.0.21/32 route-map NH_UNCHG out inherit peer EBGP-ACCESS

nable Feature, Label-Range, Route-map, Label-Index Interface Configura Ethernet1/47 description connected to Leaf1 - 1/47 - 192.168.1.13 mtu 9216 allow feature-set mpls

feature-set mpls feature bgp feature mpls segment-routing feature mpls evpn feature interface-vlan feature mpls oam feature mpls segment-routing traffic-engineering

segment-routing mpls global-block 16000 24000 connected-prefix-sid-map address-family ipv4 172.25.0.22/32 absolute 16022

ip prefix-list NH-RESTRICT seq 5 permit 0.0.0.0/0 ip prefix-list node-sid-loopback seq 5 permit 172.25.0.22/32 route-map NH-RESTRICT deny 10 match ip address prefix-list NH-RESTRICT route-map NH-RESTRICT permit 20 route-map NH UNCHG permit 10 set ip next-hop unchanged

logging event port link-status no ip redirects ip address 192.168.1.14/30 ip arp timeout 14400 mpls ip forwarding

interface EthernetL/48
description connected to Leaf2 - 1/45 - 192.168.2.13
mtu 9216
logging event port link-status
no ip redirects
ip address 192.168.2.14/30

ip address 192.168.2.14/30 ip arp timeout 14400 mpls ip forwarding interface Ethernet1/53 description connected to Leaf3 - 1/53 - 192.168.3.13 mtu 9216

interface Ethernet1/48

logging event port link-status ip address 192.168.3.14/30 ip arp timeout 14400 mpls ip forwarding interface loopback0 ip address 172.25.0.22/32 icam monitor scale

router bgp 64087 router-id 172.25.0.22 bestpath as-path multipath-relax bestpath med missing-as-worst log-neighbor-changes nexthop suppress-default-re address-family ipv4 unicast network 172.25.0.22/32

BGP/EVPN Configuration

maximum-paths 4 nexthop route-map NH-RESTRICT allocate-label route-map node-sid-label address-family ipv4 labeled-unicast prefix-priority high address-family I2vpn evpn

retain route-target all neighbor 192.168.1.13 inherit peer EBGP-ACCESS neighbor 192.168.2.13 inherit peer EBGP-ACCESS neighbor 192.168.3.13

template peer EBGP-ACCESS remote-as 65534 description EBGP-PEERING-to-ACCESS address-family ipv4 unicast disable-peer-as-check send-community send-community extended default-originate no advertise local-labeled-route soft-reconfiguration inbound address-family ipv4 labeled-unicast disable-peer-as-check send-community send-community extended soft-reconfiguration inbound address-family I2vpn evpn disable-peer-as-check send-community send-community extended

route-map NH UNCHG out

router bgp 65334
template peer EBGP-SPINE
remotes 450FPERING-to-AGG
address-family jived unicast
allowavin 1
send-community extended
router-map NODE-500-MED out
no advertise local-labeled-route
soft-reconfiguration inbound
address-family ipvel labeled-unicast
allowavin 1
send-community extended
router-map NODE-500-MED out
soft-community extended
filter-lies LOCALIE-ORIGINATE out
router-map SET_ME out
excappidation mpls VPC Configuration

vpc domain 21
peer-switch
peer-keepalive destination 10.88.238.243 source 10.88.238.242
peer-keepalive destination 10.88.238.243 source 10.88.238.242
peer-gateway
ip arp synchronize
interface Ethernets/J49
switchport
switchport mode trunk
switchport mode trunk
switchport trunk allowed vlan 301-310
channel-group 10 mode active
interface Ethernets/S1
switchport
switchport trunk allowed vlan 301-310
channel-group 30 mode active
interface port-channel10
switchport interface Ethernet1/45
description connected to spine1 - 1/45 - 192.168.1.10
mtu 921.6
logging event port link-status
no logging event port link-status
no logging event port link-status
por logging event port link-status
por logging event port link-status
interface 192.168.1.9/30
log arp timeout 14400
mplis jo frowarding
no shatdown
interface thernet1/47
description connected to spine2 - 2/47 - 192.168.1.14
mtu 921.6
logging event port link-status router bgp 65514
router-6172,25.0.1
router-6172,25.0.1
disable-policy-batching
bestpath as-path multipath-relai
bestpath as-path multipath-relai
bestpath med missing-as-worst
log-neighbor-changes
event-history detail size large
newthop suppress-default-resoluaddress-family lipr4 unicast
newthop suppress-default-resoluaddress-family lipr4 unicast
networst 172,25.0.15/32
networst 172,25.0.15/32
networst 172,25.0.10/1/32 install feature-set mpls feature-set mpls no overlay expn feature bgo feature mpls segment-routing feature mpls expn feature interface-vian Feature lacp feature mpls expn oescription connected to spine2 - 1 mtu 9216 logging event port link-status no to predirects in a decision size of the size of feature ny overlay network 172.25.0.15/32 network 172.25.0.10/32 maximum-paths 4 maximum-paths 8gp 4 allocate-label route-map node-sid-label address-family joyd labeled-unicast prefix-priority high address-family (Lypn expn neighbor 192.168.1.10 inherit peer EGPO-SPNE neighbor 192.168.1.14 inherit peer EGPO-SPNE cast-gateway-mac 0000.0000.1111 switchport
switchport mode trunk
switchport trunk allowed vian 301-310
spanning-tree port type network
vpc peer-link
interface port-channel30
switchport mode trunk
switchport trunk allowed vian 301-310 global-block 16000 24000 connected-prefix-sid-map address-family jpv4 172.25.0.15/32 absolute 16001 vlan 301 evi auto vrf context VPN-A evi 30001 vrf context VPN-B rd auto address-family jpv4 unicast route-target import 302:302 route-target import 302:302 evpn route-target export 302:302 route-target export 302:302 vrf VPN-A path multipath-e allocate-index 2001 address-family jave dunicast network 10.112.0/24 address-family jave dunicast network 10.112.0/24 advertise (2vpn evpn maximum-paths 4 vrf VPN-B bestpath as-path multipath-e allocate-index 2002 address-family yet unicast network 10.113.0/24 advertise (2ypn evpn maximum-paths 4 vpn vrf VPN-A

ip prefix-list node-sid-loopback seq 10 permit 172.25.0.15/32 (a sopith acces-list LOCALLY-ORIGINATE seq 1 permit **65514**) (a sopith acces-list LOCALLY-ORIGINATE seq 2 permit **65** route-map NODE-SID-MED permit 10 match is address prefix-list node-sid-loopback set metric 120 or route-map NODE-SID-MED permit 20 route-map SET_PM permit 30 route-map SET_PM permit 35 match community MATCH-65534-65534 set ip next-hop unchanged route-map SET_PM permit 10 match as-path LOCALLY-ORIGINATE set ip next-hop LOCALLY-ORIGINATE set ip next-hop 172.25.0.15 VPC Configuration
vpc domain 21
peer-switch
peer-skepalive destination 10.88.238.242 source 10.88.238.243
peer-skepalive destination 10.88.238.242 source 10.88.238.243
peer-gateway
ip any punchemise
port-channel30
switchport more allowed vian 301-310
spanning-tree port type network
vpc peer-link
interface port-channel30
switchport
switchport more trunk
switchport trunk allowed vian 301-310
vpc 30 interface loopback0 ip address 172.25.0.2/32 ip address 172.25.0.15/32 secondary interface loopback1
ip address 172.25.0.201/32
icam monitors capable
interface Ethernet1/45
description connected to spine2 - 1/48 - 192.168.2.14
mtu 9216

interface loopback0 ip address 172.25.0.1/32 ip address 172.25.0.15/32 sinterface loopback1 ip address 172.25.0.201/32

install feature-set mpls allow feature-set mpls feature-set mpls nv overlay ergin feature bgp feature empls segment-feature mpls seyn feature interface-vlain feature lacp feature wpc feature mpls oam feature nv overlay ac 0000 0000 1111 forwarding anycast vlan 1,301-310

vian 1,301-310 segment-routing mpls global-block 16000 24000 connected-prefix-sid-map address-family igo4 172.25.0.15/32 absolute 16001 vian 301 evi auto

ip prefix list node-sid-loopback seq 10 permit 172.25.0.15/12
ip as-path access-list LOCALIY-ORIGINATE seq 1 permit "~655
ip as-path access-list LOCALIY-ORIGINATE seq 2 permit "~65"
route-map NODE-50-MID permit 10
match ip address prefix list node-sid-loopback
set metric 100
route-map NODE-50-MID permit 20
route-map NODE-50-MID permit 20
route-map NODE-50-MID permit 20
route-map SET_IMI permit 5
match community MATCH-65334-65534
set ip next-hop unchanged
route-map SET_IMI permit 10
match a-spath LOCALIY-ORIGINATE
set ip next-hop 172.25.0.15

wf context VPN-A evi 30001 wf context VPN-B ed auto address-family ipv4 unicast route-target import 302:302 route-target import 302:302 evpn route-target export 302:302 route-target export 302:302 evpn

vpc 30 nterface Ethernet1/49 switchport switchport mode trunk

switchport mode trunk switchport trunk allowed vlan 301-310 channel-group 10 mode active interface Ethernet1/50 switchport switchport switchport mode trunk switchport mode trunk channel-group 30 mode active channel-group 30 mode active

mtu 9216 logging event port link-status no ip redirects ip address 192.168.2.13/30 ip arp timeout 14400 mpls ip forwarding no shutdown interface Ethernet1/46
description connected to Spinel - 1/46 - 192.168.2.10
mitu 9216
logging event port link-status
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mg/si je forwarding
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Interface VilanãOI no shutdown vf member VPN-A no lo predirects (p address 10.1121/24 (p directed-broadcast (p dir-bcast no jusé redirects (p ap timeout 720 fabric forwarding mode anycast-gateway

router bgp 65534
router-id 172.25.0.2
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bestpath med missing-as-worst
log-neighbor-changes
event-history detail size large
nexthop suppress-default-resolu
address-family-jeet unicast
network 172.25.0.2/32
network 172.25.0.15/32 network 172.25.0.2/32 network 172.25.0.2015/32 network 172.25.0.2013/32 maximum-paths 4 maximum-paths 4 allocate-label route-maps naddress-family yeal labeled-prefix-priority high address-family fiven septon address-family fiven septon inherit peer EBGP-SPINE neighbor 192.168.2.10 inherit peer EBGP-SPINE

evi 1000

vef VPN-A
bestpath as-path multipathallocate-index 2001
address-family pid-unicast
network 10.2.12.0/24
advertise 12.90 evan
maximum-paths 4
vrt VPN-B
bestpath as-path multipathallocate-index 2002
address-family jou4-unicast
network 10.2.13.0/24
advertise 12.90 evan
maximum-paths 4
vrt VPN-B
maximum-paths 4

router bap 65534
template peer EBGP-SPINE
remote-a 646827
description EBGP-PEERING-to-AGG
address-family joud unicast
allowas-in 1
send-community send-community
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send-community send-community extended filter-list LOCALLY-ORIGINATE out route-map SET_NH out encapsulation mpls

| Section | Sect

Host-1 (H1) Configuration

Host-3 (H3) Configuration

interface Ethernet1/30 switchport switchport mode trunk switchport trunk allowed vlan 301-310 channel-group 30 mode active no shutdown

interface Vlan301 no shutdown no ip redirects ip address 10.1.12.100/24

interface Ethernet1/32 switchport switchport mode trunk switchport trunk allowed vlan 301-310 channel-group 30 mode active no shutdown

interface port-channel30 switchport

switchport mode trunk

switchport trunk allowed vlan 301-310

interface Vlan301 no shutdown no ip redirects

ip address 10.1.12.200/24

interface Ethernet1/33

switchport

switchport mode trunk

switchport trunk allowed vlan 301-310

no shutdown

Vérification

Utilisez cette section pour confirmer que votre configuration fonctionne correctement

```
spine-18 show bgp [2:pn evon
8GP routing table information for VRF default, address family L2VPN EVPN
8GP table version is 188, local Router ID is 172.25.0.21
Status: -suppressed, #-defeted, 5-state, d-dampened, h-history, *-valid, --best
Path Speci-internal, e-external, c-orderly, local, a-aggregate, r-redsit, i-i
njected
Origin codes: i-1GP, e-EGP. ? -i=---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         H28 show ip Interface brief Interface | Phddess | Interface Status | Varia010 | 10.11220 | protocol-up/link-up/admin-1848 pring 10.112.100 | Phd | Phd
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  BGP routing table information for VRF default, address family L2VPN
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     r-best
Path type: i-internal, e-external, c-confed, I-local, a-aggregate, r-redist, I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         odes: i - IGP, e - EGP, ? - incomplete, | - multipath, & - backup, 2 - Net
op Metric LocPrf Weight Path
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Origin codes: 1-40P, e - (60P, 7 - incomplete, | multipath, & - b
Next Nop Metric Loch* Weight Path
Rouse Distinguisher: 172.25.0.1.5
**e|$||3||0||0||14||(10.11.20)|/25
Rouse Distinguisher: 172.25.0.1.5
**e|2||0||0||4||4||001-172.50
**e|2||0||0||4||4||000-180*/1628595
**e|2||0||0||4||4||000-180*/1628595
**e|2||0||0||4||4||000-180*/1628595
**e|2||0||0||4||4||000-180*/1628595
**e|2||0||0||4||0||000-180*/1628595
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         64 bytes from 10.112.100: icmp_seq2 till=254 time=0.68 ms
64 bytes from 10.112.100: icmp_seq2 till=254 time=0.68 ms
64 bytes from 10.112.100: icmp_seq2 till=254 time=0.624 ms
10.112.100 jimp_seq2 till=254 time=0.624 ms
5 packets transmirtted, 5 packets received, 0.00% packet loss
round-trip minl@qmax = 0.624/0.776/1.211 ms
188 show int vian 301
Vian301 is up, line protocol is up, autostate enabled
hardware is Chrestyl, address is 000a.hbd7.86ef
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Origin codes: i - IGP, e - EGP, ? - incomplete, | - multipath, & - backup, 2
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               b Network Next Hop Metric LocPrf Weight Path Route Distinguisher: 172.25.0.15 
*>e(5){0}{0}{24}{121.112.0}/224 
172.25.0.15 4294967295 0 65534 i
     H1# show ip int brie
IP Interface Status for VRF "default"(1)
Interface IP Address Interface Sta
Vian301 10.1.12.100 protocol-up,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                *>e|2|40|40|44||00ea.bt7.625||3|2|10.1.12.100|/272

*>e|3|40|40|13|417-250.13|40

*>e|3|40|413|417-250.13|40

*>e|3|40|413|417-250.13|40

*>e|3|40|413|417-250.13|40

*>e|3|40|413|417-250.13|40

*>e|3|40|413|417-250.13|40

*>e|3|40|413|417-250.13|40

*>e|3|40|413|417-250.13|40

*>e|3|40|413|417-250.13|40

*>e|3|40|413|410ea.bt7.625|413|410.112.100|/77

*>e|3|40|413|417-250.13|48

*>e|3|40|413|417-250.13|48

*>e|3|40|413|417-250.13|48

*>e|3|40|413|417-250.13|48
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Route Distinguisher: 172.25.0.1.37164

*>e[2]{0}{0}{0}[48]{00ea.bd7.6285}{0}{0}{0.0.00/216}

172.25.0.15 4294967295

0 655341

*>e[2]{0}{0}{0}{48}{00ea.bd7.6285}{12}{10.1.12.100}{722}

172.25.0.15 4294967295

0 655341

172.25.0.15 4294967295

0 655341
* 301 0000.0000.1111 dynamic 0 F F P030

* 301 00ea.bd27.6285 static - F F sup-eth1(R)
G 301 00ea.bd27.6285 static - F F sup-eth1(R)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Route Distinguisher: 172.25.0.2:37164
*>e[2]:[0]:[0]:[48]:[00ea.bd27.6285]:[0]:[0.0.0.0]/216
*>e[2]:[0]:[0]:[48]:[00ea.bd27.6285]:[32]:[10.1.12.100]/272
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Route Distinguisher: 172.25.0.3.37164
**vel2[0](0](4[48](00ex.bd/27.86ef][0](0].0.0.0)(216
**vel2[0](0](148](00ex.bd/27.86ef][0](10.0.0.0)(216
**vel2[0](0](4[48](00ex.bd/27.86ef][12][2](10.12.200](777
**vel2[0](0](12][4](72.25.0.3](48)
**vel3[0](12][4](72.25.0.3](48)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Route Distinguisher: 172.25.0.3:37164
*>e[2]:[0]:[0]:[48]:[00ea.bd27.86ef]:[0]:[0.0.0.0]/216
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      *>e[2]:[0]:[0]:[48]:[00ea.bd27.86e7]:[0]:[0.0.0.0]/216

172.25.0.3 42949672759 0 65534 i

*>e[2]:[0]:[0]:[48]:[00ea.bd27.86e7]:[32]:[10.1.12.200]/272

172.25.0.3 4294967295 0 65534 i

*>e[3]:[0]:[32]:[172.25.0.3]/88
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    172.25.0.3 4294967295
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |P Interface Status for VRF "default" | 1] |
Interface | P Address | Interface Status |
Interface | P SAddress |
```

Dépannage

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

```
        Leaf18 show 12
        12
        I2protocol 12rib
        I2route

        Leaf18 show rive evi
        EVI
        Vlan Label
        Oper State EVI State

301 301 364378 UP evi-add-complete 
Leaf18 loss bgp (2)-pn evpn 
Network Next Nop Metric Lochrf Weight Path 
Rouse Distinguisher: 172.25.0.137/64 (LVNN 301) 
172.25.0.15 100 332561 
172.25.0.15 100 332561 
172.25.0.3 4294967225 0 644087 655 
341
                                                                                                                                                                                                                                                                                                                                                                 172.25.0.15 4294967295
                                                                                                               301 301 964878 UP evi-add-complete 
Leaf2#
                                                                                                                                                                                                                                                                                                                                                 34 i
*x|[2]:[0]:[0]:[48]:[00ea.bd27.86ef]:[32]:[10.1.12.200]/272
                                                                                                             *>i(3):(0):(32):(172.25.0.3) 100 32768 i

*>i(3):(0):(32):(172.25.0.3)/88 100 32768 i

*>i(3):(0):(172.25.0.15)/88 172.25.0.15 4294967295 0
                                                                                                                                                                                                                               Route Distinguisher: 172.25....

* e[2]:[0]:[0]:[48]:[00ea.bd27.6285]:[0]:[

172.25.0.15 4294967295
                                                                                                                                                                                                                                                                                                      0 64087 655
                                                                                                              172.25.0.15 100 32768 i
*>e[2]:[0]:[0]:[48]:[00ea.bd27.86ef]:[0]:[0.0.0.0]/216
172.25.0.3 4294967295 0
                                                                                                                                                                                                                                                 172.25.0.15 4294967295
                                                                                                                                                                                                                                ">e|2||40||00||48||00ea.bd27.6285||32||410.1.12.100|/272

172.25.0.15 4294967295 0.64087.655
                                                                                                                                                                                                                                                                                                                                                                 172.25.0.15 4294967295
172.25.0.15 4294967295
                                                                                                                                                                                                                              341
* e[3]:[0]:[32]:[172.25.0.15]/88
172.25.0.15 4294967295
34 i
*>e[3]:(0]:(32]:(172.25.0.3]/88
172.25.0.3 4294967295 0 64087 655
                                                                                                                                                                                                                                                                                                                                                                 172.25.0.15 4294967295
                                                                                                                                                                                                                                                                                            0 64087 655
                                                                                                                                                                                                                                                                                                                                                 *e
34 i
*>e[5]:[0]:[0]:[24]:[12.1.12.0]/224
172.25.0.15 4294967295
                                                                                                               34i
*>=(3]:(0]:(32):(172.25.0.3)/88
172.25.0.3 4294967295
34 i
*>|(3):[0]:(32]:(172.25.0.15]/88
172.25.0.15 100 32768 i
                                                                                                                                                                                0 64087 655
                                                                                                                                                                                                                                                  172.25.0.15 4294967295
                                                                                                               34 i
*>([3]:(0]{32]:(172.25.0.15]/88
-22.25.0.15 100 32768 i
                                                                                                                                                                                                                               Route Distinguisher: 172.25.0.2:37164

* e[2]:[0]:[0]:[48]:[00ea.bd27.6285]:[0]:[0.0.0.0]/216

172.25.0.15 4294967295
                                                                                                               Route Distinguisher: 172.25.0.3:37164

• e[2]:[0]:[0]:[48]:[00ea.bd27.86ef]:[0]:[0.0.0.0]/216

172.25.0.3 4294967295 0 64087 655
       e Distinguisher: 172.25.0.3:37164
Route Distinguisher: 172.25.0.3:37164

• e[2]:[0]:[0]:[48]:[00ea.bd27.86ef]:[0]:[0.0.0.0]/216

172.25.0.3 4294967295 0 64087 655
                                                                                                                                                                                                                                               172.25.0.15 4294967295
                                                                                                                                                                                                                               *>e 172.45.0.5 341 4 e[2]:[0]:[48]:[00ea.bd27.6285]:[82]:[10.1.12.100]/272 172.25.0.15 4294967295 0 6408
                 172.25.0.3 4294967295
                                                                                                                               172.25.0.3 4294967295
*e[2]:[0]:[0]:[48]:[00ea.bd27.86ef]:[32]:[10.1.12.200]/272
172.25.0.3 4294967295 0 64087 655
                                                                                                              * e[2]-[0]-[48]-[00ea.bd27.86ef]-[32]-[10.1.12.200]/272
172.25.0.3 4294967295 0 64087 655
                                                                                                                                                                                                                                               172.25.0.15 4294967295
                                                                                                                                                                                                                               *>e
34 i
* e[3]:[0]:[32]:[172.25,0.15]/88
172.25,0.15 4294967295
*>e
34 i
* e[3]:[0]:[32]:[172.25.0.3]/88
172.25.0.3 4294967295
                                                                                                               *>e
34:1
* e[3]-[0]-[32]-[172.25.0.3]/88
172.25.0.3 4294967295
                                                                                                                                                                                                                                                 172.25.0.15 4294967295
                                                                                                                                                                                                                                                                                                    0 64087 655
                                                                                                                                                                                                                               Route Distinguisher: 172.25.0.3:37164 (L2VNI 301)
*>e[2]{0]:{0}:{0}:{48}:{00ea.bd27.6385]{0}:{0.0.0.0]/216}
172.25.0.15 4294967295
                 172.25.0.3 4294967295
                                                                                                                                172.25.0.3 4294967295
  34 i
Route Distinguisher: 172.25.0.1.5
">=[2]:[0]:[0]:[48]:[00ea.bd27.86ef]:[32]:[10.1.12.200]/272
172.25.0.3 4294967295 0 64087 655
                                                                                                              Route Distinguisher: 172.25.0.2:5
*>=(2]:[0]:[0]:[48]:[00ea.bd27.86ef]:[32]:[10.1.12.200]/272
172.25.0.3 4294967295 0 64087 655
                                                                                                                                                                                                                                                172.25.0.15 4294967295
   H[5]:[0]:[0]:[24]:[12.1.12.0]/224
0.0.0.0 100 327681
                                                                                                                                                                                                                                                172.25.0.3 100 32768
0]:[48]:[00ea.bd27.6285]:[32]:[10.1.12.10
172.25.0.15 4294967295
                                                                                                                                                                                                                              *>e[2]:(0]:(0]:
```

```
Legend:

• - primary entry, G - Gateway MAC, (R) - Routed MAC, O - Overlay MAC
                                                                                                                                                                                   Leaf3# show mac address-table
                                                                                             age - seconds since last seen, + - primary entry using vPC Peer-Link,
(T) - True, (F) - False, C - ControlPlane MAC, ~ - vsan,
                                                                                                                                                                                   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, \sim - vsan,
Leaf1# sho mac address-table
                                                                                             (NA)- Not Applicable
                                                                                                  MAC Address Type age Secure NTFY Ports
          MAC Address Type age Secure NTFY Ports
                                                                                                                                                                                        (NA)- Not Applicable
                                                                                        + 301 00ea.bd27.6285 dynamic NA
C 301 00ea.bd27.86ef dynamic NA
                                             F F Po30
F F sr-peer(172.25.0.3)
                                                                                                                                                                                    VLAN MAC Address Type age Secure NTFY Ports
                                                                                                                                                                                 0000.0000.1111 static - F F sup-eth1(R)

c014.fea3.bc87 static - F F vCP Peer-Link(R)

c014.fea3.ca07 static - F F sup-eth1(R)

c014.fea3.ca07 static - F F sup-eth(R)
G 301
G 301
```

Leaf2# sho mac address-table

À propos de cette traduction

Cisco a traduit ce document en traduction automatisée vérifiée par une personne dans le cadre d'un service mondial permettant à nos utilisateurs d'obtenir le contenu d'assistance dans leur propre langue.

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