Hardware Refresh: Replacing Nexus Switches (VXLAN Technology)

Contents			

Introduction

This document describes the process of replacing Nexus switches running Virtual Extensible LAN (VXLAN).

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- Cisco Nexus Operating System (NX-OS)
- VXLAN

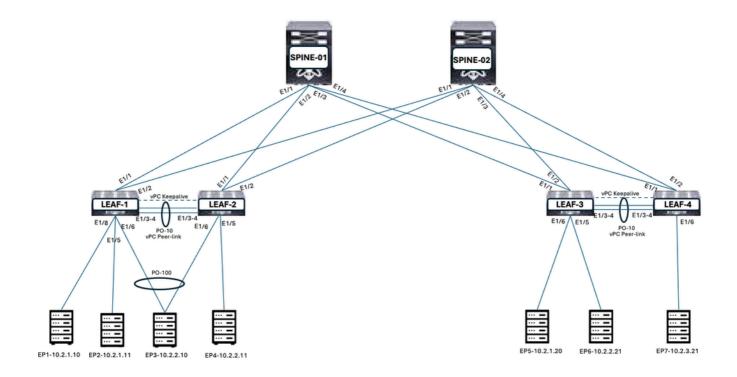
Components Used

The information in this document is based on Nexus 9000 switches.

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. If your network is live, ensure that you understand the potential impact of any command.

VXLAN Leaf-Spine Architecture

Figure 1. VXLAN Leaf-Spine Topology



VXLAN Leaf-Spine Architecture Highlights

- LEAF-1 and LEAF-2 are Virtual Port Channel (vPC) peers. LEAF-3 and LEAF-4 are vPC peers.
- Anycast Gateway are configured on LEAF-1, LEAF-2, LEAF-3, and LEAF-4 for VLAN101, VLAN102, and VLAN103.
- Point-to-Point IP addresses configured between Leaf and Spines.
- Loopback0 primary IP Addresses is used for Leaf individual node VXLAN Tunnel Endpoint (vTEP).
- Loopback0 Secondary IP Addresses is shared between vPC Leaf member as anycast vTEP (vip).
- Open Shortest Path First (OSPF) routing protocol is used between Leaf and Spines for Underlay. Loopback0 advertised from Leaf and Spine through OSPF.
- Border Gateway Protocol (BGP) L2VPN is used between Leaf and Spines for Overlay. BGP L2VPN EVPN peering established on Loopback0.
- VLAN101, VLAN102, and VLAN103 subnets are advertised to Leaf and Spines.

Table 1. Leaf Loopback IP Addresses

Spine/Leaf Hostname	Loopback0 Primary IP	Loopback0 Secondary IP (vip)
SPINE-1	10.7.1.1/32	
SPINE-2	10.7.1.2/32	
LEAF-1	10.5.1.1/32	10.0.1.72/32
LEAF-2	10.5.1.2/32	10.0.1.72/32
LEAF-3	10.6.1.1/32	10.0.2.72/32

LEAF-4	10.6.1.2/32	10.0.2.72/32	

Routes Verification from Leaf and Spines

Figure 2. Verify routes on Leaf switches.

```
LEAF-1(config)# show l2route evpn mac-ip all
Flags -(Rmac):Router MAC (Stt):Static (L):Local (R):Remote (V):vPC link
(Dup):Duplicate (Spl):Split (Rcv):Recv(D):Del Pending (S):Stale (C):Clear
(Ps):Peer Sync (Ro):Re-Originated (Orp):Orphan
Topology Mac Address Host IP
                                                                   Prod Flags
        Seq No Next-Hops
            5254.0003.af2a 10.2.1.10
101
                                                                   HMM
                                                                          L,
                 Local
101
            5254.0007.0bd9 10.2.1.11
                                                                   HMM
                 Local
            5254.0004.83dd 10.2.1.20
101
                                                                   BGP
                  10.0.2.72 (Label: 10101)
102
            5202.fcc4.1b08 10.2.2.10
                                                                   HMM
                  Local
        0
            5254.0019.4de7 10.2.2.11
102
                                                                   HMM
                 Local
            5254.0004.e203 10.2.2.21
102
                                                                   BGP
                  10.0.2.72 (Label: 10102)
            5254.0011.3730 10.2.3.21
                                                                   BGP
103
                  10.0.2.72 (Label: 10103)
```

Flags (Dup)	-(Rma Dupli:	<pre>ig)# show l2route evpn mac-ip all c):Router MAC (Stt):Static (L):Local (R):Remote (V):vPC cate (Spl):Split (Rcv):Recv(D):Del Pending (S):Stale (C ync (Ro):Re-Originated (Orp):Orphan</pre>		
		Mac Address Host IP	Prod	Flags
. opo co	0.5	No Next-Hops	1100	rago
101		5254.0003.af2a 10.2.1.10	HMM	L,
	0	Local		
101		5254.0007.0bd9 10.2.1.11	HMM	L,
	0	Local		
101		5254.0004.83dd 10.2.1.20	BGP	
	0	10.0.2.72 (Label: 10101)		
102		5202.fcc4.1b08 10.2.2.10	HMM	L,
1010101	0	Local	0/20/02/07	121
102		5254.0019.4de7 10.2.2.11	HMM	L,
272720	0	Local		
102		5254.0004.e203 10.2.2.21	BGP	
	0	10.0.2.72 (Label: 10102)		
103		5254.0011.3730 10.2.3.21	BGP	
	a	10.0.2.72 (Lahel: 10103)		

```
LEAF-3(config-if)# show l2route evpn mac-ip all
Flags -(Rmac):Router MAC (Stt):Static (L):Local (R):Remote (V):vPC link
(Dup):Duplicate (Spl):Split (Rcv):Recv(D):Del Pending (S):Stale (C):Clear
(Ps):Peer Sync (Ro):Re-Originated (Orp):Orphan
Topology
            Mac Address
                          Host IP
                                                                     Prod
                                                                            Flags
        Seg No
                   Next-Hops
101
            5254.0003.af2a 10.2.1.10
                                                                     BGP
                  10.0.1.72 (Label: 10101)
        0
            5254.0007.0bd9 10.2.1.11
101
                                                                     BGP
                  10.0.1.72 (Label: 10101)
        0
            5254.0004.83dd 10.2.1.20
                                                                    HMM
101
        0
                  Local
102
            5202.fcc4.1b08 10.2.2.10
                                                                     BGP
                  10.0.1.72 (Label: 10102)
        0
            5254.0019.4de7 10.2.2.11
                                                                     BGP
102
        0
                  10.0.1.72 (Label: 10102)
            5254.0004.e203 10.2.2.21
102
                                                                    HMM
                                                                            L,
        0
                  Local
            5254.0011.3730 10.2.3.21
                                                                            L,
103
                                                                     HMM
        0
                 Local
LEAF-4# show l2route evpn mac-ip all
Flags -(Rmac):Router MAC (Stt):Static (L):Local (R):Remote (V):vPC link
(Dup):Duplicate (Spl):Split (Rcv):Recv(D):Del Pending (S):Stale (C):Clear
(Ps):Peer Sync (Ro):Re-Originated (Orp):Orphan
Topology
            Mac Address
                           Host IP
                                                                     Prod
                                                                            Flags
        Seg No
                   Next-Hops
            5254.0003.af2a 10.2.1.10
                                                                     BGP
101
                  10.0.1.72 (Label: 10101)
        0
            5254.0007.0bd9 10.2.1.11
101
                                                                     BGP
                  10.0.1.72 (Label: 10101)
            5254.0004.83dd 10.2.1.20
                                                                     HMM
101
                                                                            L,
                  Local
        0
            5202.fcc4.1b08 10.2.2.10
                                                                     BGP
102
                  10.0.1.72 (Label: 10102)
        0
102
            5254.0019.4de7 10.2.2.11
                                                                     BGP
                  10.0.1.72 (Label: 10102)
            5254.0004.e203 10.2.2.21
102
                                                                     HMM
                                                                            L,
        0
                  Local
103
            5254.0011.3730 10.2.3.21
                                                                     HMM
                                                                            L,
                  Local
```

Figure 3. Verify routes on Spine switches (it remains same on both spine switches).

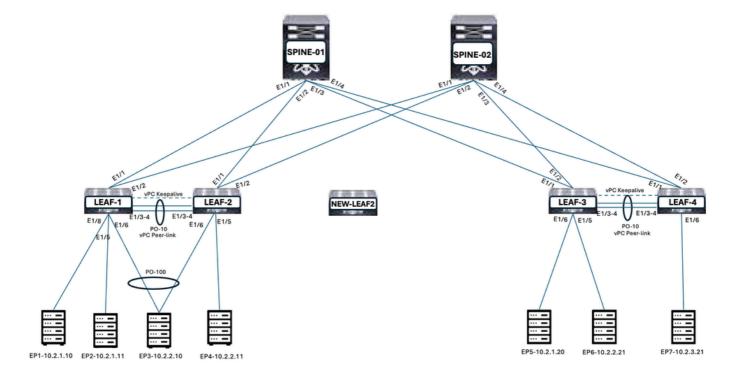
```
SPINE-1# show bgp l2vpn evpn
BGP routing table information for VRF default, address BGP table version is 162, Local Router ID is 10.7.1.1 Status: s-suppressed, x-deleted, S-stale, d-dampened,
                                                address family L2VPN EVPN
                                          d-dampened, h-history, *-valid, >-best
Path type: i-internal, e-external, c-confed,
                                              l-local, a-aggregate, r-redist,
                                                                               T-i
njected
                  IGP, e - EGP, ? - incomplete, | - multipath, & - backup, 2 - b
Origin codes: i -
est2
                        10.5.1.1:32868
Route Distinguisher:
*>i[2]:[0]:[0]:[0]:[48]:[5254.0003.af2a]:[0]:[0.0.0.0]/216
                         10.0.1.72
                                                                100
                                                                              0
                                                                                 1
*>i[2]:[0]:[0]:[48]:[5254.0007.0bd9]:[0]:[0.0.0.0]/216
                         10.0.1.72
                                                                100
                                                                              0
                                                                                 i
*>i[2]:[0]:[0]:[48]:[5254.0003.af2a]:[32]:[10.2.1.10]/272
                         10.0.1.72
                                                                100
                                                                              0
                                                                                 i
*>i[2]:[0]:[0]:[48]:[5254.0007.0bd9]:[32]:[10.2.
                         10.0.1.72
                                                                100
                                                                              0
                                                                                 i
      Distinguisher:
                        10.5.1.1:32869
*>i[2]:[0]:[0]:[48]:[5202.fcc4.1b08]:[0]:[0.0.0.0]/216
                         10.0.1.72
                                                                100
                                                                              0
                                                                                i.
*>i[2]:[0]:[0]:[48]:[5254.0019.4de7]:[0]:[0.0.0.0]/216
                         10.0.1.72
                                                                100
                                                                              0
                                                                                 i.
*>i[2]:[0]:[0]:[48]:[5202.fcc4.1b08]:[32]:[10.2.2.10]/272
                         10.0.1.72
                                                                100
                                                                              0
*>1[2]:[0]:[0]:[48]:[5254.0019.4de7]:[32]:[10.2.2.11]/
                                                             272
                         10.0.1.72
                                                                100
                                                                              0
                                                                                 i
Route Distinguisher:
                       10.5.1.2:32868
*>i[2]:[0]:[0]:[48]:[5254.0003.af2a]:[0]:[0.0.0.0]/216
                         10.0.1.72
                                                               100
                                                                              0
                                                                                i.
*>i[2]:[0]:[0]:[48]:[5254.0007.0bd9]:[0]:[0.0.0.0]/216
                         10.0.1.72
                                                                100
                                                                              0
                                                                                -i
*>i[2]:[0]:[0]:[48]:[5254.0003.af2a]:[32]:[10.2.1.10]/272
                         10.0.1.72
                                                               100
                                                                              0
                                                                                1
*>i[2]:[0]:[0]:[48]:[5254.0007.0bd9]:[32]:[10.2.1.11]/272
                         10.0.1.72
                                                               100
                                                                              0
Route Distinguisher: 10.5.1.2:32869
*>i[2]:[0]:[0]:[48]:[5202.fcc4.1b08]:[0]:[0.0.0.0]/216
                         10.0.1.72
                                                               100
                                                                              0
                                                                                i.
*>i[2]:[0]:[0]:[48]:[5254.0019.4de7]:[0]:[0.0.0.0]/216
                         10.0.1.72
                                                                100
                                                                              0
                                                                                i
*>i[2]:[0]:[0]:[48]:[5202.fcc4.1b08]:[32]:[10.2.2.10]/272
                         10.0.1.72
                                                               100
                                                                              0
                                                                                i
*>i[2]:[0]:[0]:[48]:[5254.0019.4de7]:[32]:[10.2.2.11]/272
                                                               100
                         10.0.1.72
                                                                              0
                                                                                1
      Distinguisher:
                        10.6.1.1:32868
*>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[0]:[0.0.0.0]/216
                         10.0.2.72
                                                               100
                                                                              0
                                                                               1
*>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[32]:[10.2.1.20]/
                         10.0.2.72
                                                               100
                                                                              0
      Distinguisher:
                        10.6.1.1:32869
Route
*>i[2]:[0]:[0]:[48]:[5254.0004.e203]:[0]:[0.0.0.0]/216
                         10.0.2.72
                                                               100
                                                                              0
*>i[2]:[0]:[0]:[48]:[5254.0004.e203]:[32]:[10.2.2.21]/272
10.0.2.72
                                                               100
                                                                              0
Route Distinguisher: 10.6.1.1:32870
*>i[2]:[0]:[0]:[48]:[5254.0011.3730]:[0]:[0.0.0.0]/216
                         10.0.2.72
                                                               100
                                                                              0
                                                                                1.
  -i[2]:[0]:[0]:[48]:[5254.0011.3730]:[32]:[10.2.3.21]/
                         10.0.2.72
                                                               100
                                                                              0
                                                                                4
      Distinguisher:
                        10.6.1.2:3
*>i[5]:[0]:[0]:[24]:[10.2.1.0]/224
10.0.2.72
*>i[5]:[0]:[0]:[24]:[10.2.2.0]/224
                                                     0
                                                               100
                                                                              0
                                                                                7
                         10.0.2.72
                                                               100
                                                                              0
*>i[5]:[0]:[0]:[24]:[10.2.3.0]/224
                         10.0.2.72
                                                               100
                                                                              0
Route Distinguisher:
                        10.6.1.2:32868
*>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[0]:[0.0.0.0]/216
                         10.0.2.72
                                                               100
                                                                              0
                                                                               1.
*>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[32]:[10.2.1.20]/272
                                                               100
                         10.0.2.72
                                                                              0
      Distinguisher:
                        10.6.1.2:32869
Route
*>i[2]:[0]:[0]:[48]:[5254.0004.e203]:[0]:[0.0.0.0]/216
                         10.0.2.72
                                                               100
                                                                              0 i
*>i[2]:[0]:[0]:[48]:[5254.0004.e203]:[32]:[10.2.2.21]/272
                         10.0.2.72
                                                               100
                                                                              0
                                                                                1
      Distinguisher:
                        10.6.1.2:32870
*>i[2]:[0]:[0]:[48]:[5254.0011.3730]:[0]:[0.0.0.0]/216
                         10.0.2.72
                                                               100
                                                                              0
                                                                               1
*>i[2]:[0]:[0]:[48]:[5254.0011.3730]:[32]:[10.2.3.21]/272
                                                               100
                         10.0.2.72
                                                                              Ø i
```

Nexus Switch Hardware Refresh Steps

Step 1. Copy Configuration from LEAF-2 to NEW-LEAF2

Copy configuration from LEAF-2 to NEW-LEAF2. Shut down all the interfaces on NEW-LEAF2.

Figure 4. Configure NEW-LEAF2



Step 2. Isolate vPC Secondary Switch by Shutting all the Interfaces (LEAF-2 is vPC Secondary Switch)

The sequence to shut down the interfaces on secondary switch:

- Shutdown vPC Member ports and Orphan ports
- Shutdown uplinks towards Spines
- Shutdown vPC keepalive link
- Shutdown vPC Peer link

Figure 5. Isolate vPC secondary switch

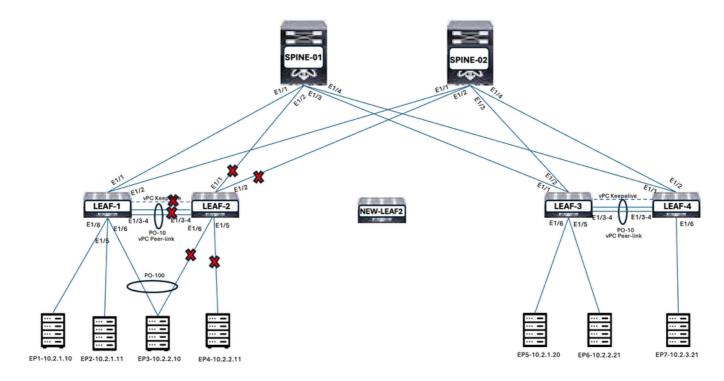


Figure 6. Shut down the interfaces on secondary switch

```
LEAF-2(config)# int eth1/5-6
LEAF-2(config-if-range)# shutdown
LEAF-2(config-if-range)#
LEAF-2(config-if-range)# int eth1/1-2
LEAF-2(config-if-range)# shutdown
LEAF-2(config-if-range)#
LEAF-2(config-if-range)#
LEAF-2(config-if)# shutdown
Shutting down this interface will drop all telnet and SSH sessions. Do you wish to continue(y/n)? [no] y
LEAF-2(config-if)# int eth1/3-4
LEAF-2(config-if-range)# shutdown
```

Step 3. Verify the vPC Sticky Bit on NEW-LEAF2

Sticky bit must be 'False'. If it is 'True', increase the vPC priority higher than the previous value. Reload the Leaf in case if sticky bit status did not change to 'False'. NEW-LEAF2 is configured with vPC autorecovery, hence it is vPC primary switch. It is not forming any vPC peering with LEAF-1, as the Peer-link and Peer-keepalive are down.

Figure 7. NEW-LEAF2 is vPC Primary

```
NEW-LEAF2(config-vpc-domain)# sh vpc role
vPC Role status
vPC role
                                                                   : primary
Dual Active Detection Status

vPC system-mac

vPC system-priority

vPC local system-mac

vPC local role-priority

vPC local role-priority

vPC local role-priority

control role-priority
vPC local config role-priority : 200
vPC peer system-mac
                                              : 00:00:00:00:00:00
vPC peer role-priority
vPC peer config role-priority : 0
NEW-LEAF2(config-vpc-domain)# exit
NEW-LEAF2(config)#
NEW-LEAF2(config)#
NEW-LEAF2(config)#
NEW-LEAF2(config)# show system internal vpcm info global | i i sticky
                 00B Peer Version: 0 00B peer was alive: FALSE Sticky Master: T
RUE
```

Step 4. Remove Secondary IP Address from Loopback0 from NEW-LEAF2

This step is to ensure that once the links comes up, Routes for Endpoints connected on Orphan ports are sent to the Leaf and Spines from NEW-LEAF2.

Figure 8. Remove secondary IP address from Loopback0

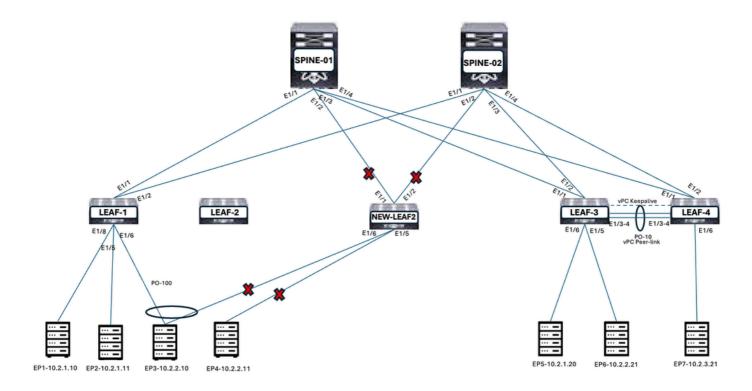
```
interface loopback0
  ip address 10.5.1.2/32
  ip address 10.0.1.72/32 secondary
  ip router ospf UNDERLAY area 0.0.0.0
  ip pim sparse-mode

NEW-LEAF2(config-if)# int loopback 0
NEW-LEAF2(config-if)# no ip address 10.0.1.72/32 secondary
```

Step 5. Connect the Cables to NEW-LEAF2

Complete the cable connectivity from NEW-LEAF2 to Spines and Endpoints.

Figure 9. Connect the cables to NEW-LEAF2



Step 6. Unshut the Uplink Ports and Orphan Ports on NEW-LEAF2

Unshut Uplink ports and Orphan ports on NEW-LEAF2. vPC keepalive, vPC peer link, and vPC members to be kept shut.

This step ensures the routes for Orphan ports are sent to the Spines and other Leaf through NEW-LEAF2. Routes for vPC member ports are sent through the LEAF-1 only.

Figure 10. Unshut the Orphan ports and Uplink ports on NEW-LEAF2

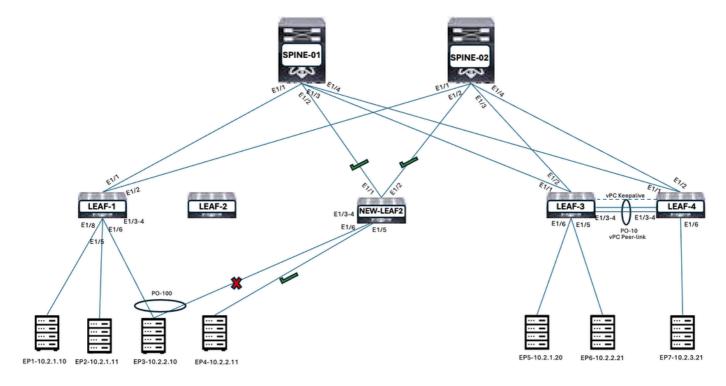


Figure 11. Output for 'unshut the interfaces' on NEW-LEAF2

```
NEW-LEAF2(config)# int eth1/1-2
NEW-LEAF2(config-if-range)# no shutdown
NEW-LEAF2(config-if-range)#
NEW-LEAF2(config-if-range)# int eth1/5-6
NEW-LEAF2(config-if-range)# no shutdown
```

Step 7. Verify the Routes in Spine and Other Leaf which are Received from NEW-LEAF2 for Orphan Ports

NEW-LEAF2 routes for orphan ports are advertised to Spines and other Leaf. NEW-LEAF2 Loopback0 primary IP address is the Next Hop address for the routes.

Figure 12. Verify Routes on Leaf

```
NEW-LEAF2(config-vrf)# show l2route evpn mac-ip all
Flags -(Rmac):Router MAC (Stt):Static (L):Local (R):Remote (V):vPC link
(Dup):Duplicate (Spl):Split (Rcv):Recv(D):Del Pending (S):Stale (C):Clear
(Ps):Peer Sync (Ro):Re-Originated (Orp):Orphan
Topology
          Mac Address Host IP
                                                                    Prod
                                                                           Flags
                   Next-Hops
        Seg No
            5254.0003.af2a 10.2.1.10
101
                                                                    BGP
                  10.0.1.72 (Label: 10101)
        0
            5254.0007.0bd9 10.2.1.11
101
                                                                    BGP
                  10.0.1.72 (Label: 10101)
            5254.0004.83dd 10.2.1.20
                                                                    BGP
101
                  10.0.2.72 (Label: 10101)
        0
102
            5202.fcc4.1b08 10.2.2.10
                                                                    BGP
                  10.0.1.72 (Label: 10102)
        0
            5254.0019.4de7 10.2.2.11
                                                                           L,
102
                                                                    HMM
                  Local
            5254.0004.e203 10.2.2.21
102
                                                                    BGP
        0
                  10.0.2.72 (Label: 10102)
103
            5254.0011.3730 10.2.3.21
                                                                    BGP
                  10.0.2.72 (Label: 10103)
```

LEAF-1(config)# show l2route evpn mac-ip all Flags -(Rmac):Router MAC (Stt):Static (L):Local (R):Remote (V):vPC link (Dup):Duplicate (Spl):Split (Rcv):Recv(D):Del Pending (S):Stale (C):Clear (Ps):Peer Sync (Ro):Re-Originated (Orp):Orphan					
Topology Mac Address Host IP Seq No Next-Hops	Prod	Flags			
101 5254.0003.af2a 10.2.1.10 0 Local	НММ	L,			
101 5254.0007.0bd9 10.2.1.11 0 Local	HMM	L,			
101 5254.0004.83dd 10.2.1.20 0 10.0.2.72 (Label: 10101)	BGP				
102 5202.fcc4.1b08 10.2.2.10 0 Local 102 5254.0019.4de7 10.2.2.11	HMM	L,			
0 10.5.1.2 (Label: 10102) 102 5254.0004.e203 10.2.2.21	BGP				
0 10.0.2.72 (Label: 10102) 103 5254.0011.3730 10.2.3.21	BGP				
0 10.0.2.72 (Label: 10103) LEAF-3(config-if)# show l2route evpn mac-ip all					
Flags -(Rmac):Router MAC (Stt):Static (L):Local (R):Remote (V) (Dup):Duplicate (Spl):Split (Rcv):Recv(D):Del Pending (S):Stale (Ps):Peer Sync (Ro):Re-Originated (Orp):Orphan		•			
Topology Mac Address Host IP Seq No Next-Hops	Prod	Flags			
101 5254.0003.af2a 10.2.1.10	BGP				
0 10.0.1.72 (Label: 10101) 101 5254.0007.0bd9 10.2.1.11 0 10.0.1.72 (Label: 10101)	BGP				
101 5254.0004.83dd 10.2.1.20	HMM	L,			

BGP

BGP

HMM

HMM

L,

0

0

0

0

102

102

102

103

Local

Local

Local

5202.fcc4.1b08 10.2.2.10

5254.0019.4de7 10.2.2.11

5254.0004.e203 10.2.2.21

5254.0011.3730 10.2.3.21

10.0.1.72 (Label: 10102)

10.5.1.2 (Label: 10102)

Flag (Dup	LEAF-4# show l2route evpn mac-ip all Flags -(Rmac):Router MAC (Stt):Static (L):Local (R):Remote (V):vPC link (Dup):Duplicate (Spl):Split (Rcv):Recv(D):Del Pending (S):Stale (C):Clear (Ps):Peer Sync (Ro):Re-Originated (Orp):Orphan				
Topo	logy	Mac Address Host IP	Prod	Flags	
	Seq	No Next-Hops			
101		5254.0003.af2a 10.2.1.10	BGP		
	0	10.0.1.72 (Label: 10101)			
101		5254.0007.0bd9 10.2.1.11	BGP		
	0	10.0.1.72 (Label: 10101)			
101		5254.0004.83dd 10.2.1.20	HMM	L,	
	0	Local			
102		5202.fcc4.1b08 10.2.2.10	BGP		
100	0	10.0.1.72 (Label: 10102)	DCD		
102	0	5254.0019.4de7 10.2.2.11 10.5.1.2 (Label: 10102)	BGP		
102	V	5254.0004.e203 10.2.2.21	HMM	1	
102	0	Local	1 11/11/1	L,	
103	Ü	5254.0011.3730 10.2.3.21	HMM	L	
103	0	Local		-,	

Figure 13. Verify Routes on Spines. It remains same on both spines.

```
SPINE-1# sh bgp l2vpn evpn
BGP routing table information for VRF default, address family L2VPN EVPN
BGP table version is 216, Local Router ID is 10.7.1.1
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-i
njected
Origin codes: i - IGP, e - EGP, ? - incomplete, | - multipath, & - backup, 2 - b
est2
Route Distinguisher: 10.5.1.1:32869
*>i[2]:[0]:[0]:[48]:[5202.fcc4.1b08]:[0]:[0.0.0.0]/216
                       10.0.1.72
                                                           100
                                                                         0
                                                                           i
*>i[2]:[0]:[0]:[48]:[5202.fcc4.1b08]:[32]:[10.2.2.10]/272
                       10.0.1.72
                                                           100
                                                                         0 i
Route Distinguisher: 10.5.1.1:32868
*>i[2]:[0]:[0]:[48]:[5254.0003.af2a]:[0]:[0.0.0.0]/216
                       10.0.1.72
                                                           100
                                                                         0 i
*>i[2]:[0]:[0]:[48]:[5254.0007.0bd9]:[0]:[0.0.0.0]/216
                                                           100
                                                                         0
                       10.0.1.72
*>i[2]:[0]:[0]:[48]:[5254.0003.af2a]:[32]:[10.2.1.10]/272
                       10.0.1.72
                                                           100
                                                                         0
                                                                          - 1
*>i[2]:[0]:[0]:[48]:[5254.0007.0bd9]:[32]:[10.2.1.11]/272
                                                           100
                                                                         a i
                       10.0.1.72
Route Distinguisher:
                      10.5.1.1:32869
*>i[2]:[0]:[0]:[48]:[5202.fcc4.1b08]:[0]:[0.0.0.0]/216
                       10.0.1.72
                                                           100
                                                                         0
                                                                          i
*>i[2]:[0]:[0]:[48]:[5202.fcc4.1b08]:[32]:[10.2.2.10]/272
                                                           100
                       10.0.1.72
                                                                         0 i
Route Distinguisher:
                      10.5.1.2:32869
*>i[2]:[0]:[0]:[48]:[5254.0019.4de7]:[0]:[0.0.0.0]/216
                       10.5.1.2
                                                            100
                                                                          0
                                                                            i
*>i[2]:[0]:[0]:[48]:[5254.0019.4de7]:[32]:[10.2.2.11]/272
                       10.5.1.2
                                                            100
                                                                          0
                                                                            i
                      10.6.1.1:32868
Route Distinguisher:
*>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[0]:[0.0.0.0]/216
                       10.0.2.72
                                                            100
                                                                          0
                                                                            i
*>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[32]:[10.2.1.20]/272
                                                            100
                                                                          0
                       10.0.2.72
                                                                            ń
Route Distinguisher:
                      10.6.1.1:32869
*>i[2]:[0]:[0]:[48]:[5254.0004.e203]:[0]:[0.0.0.0]/216
                        10.0.2.72
                                                            100
                                                                          0
                                                                            i
*>i[2]:[0]:[0]:[48]:[5254.0004.e203]:[32]:[10.2.2.21]/272
                       10.0.2.72
                                                            100
                                                                          0
                                                                           i
Route Distinguisher:
                      10.6.1.1:32870
*>i[2]:[0]:[0]:[48]:[5254.0011.3730]:[0]:[0.0.0.0]/216
                       10.0.2.72
                                                            100
                                                                          0
                                                                           i
*>i[2]:[0]:[0]:[48]:[5254.0011.3730]:[32]:[10.2.3.21]/272
                       10.0.2.72
                                                            100
                                                                          0
                                                                            i
Route Distinguisher:
                      10.6.1.2:3
*>i[5]:[0]:[0]:[24]:[10.2.1.0]/224
                       10.0.2.72
                                                  0
                                                            100
                                                                            ?
*>i[5]:[0]:[0]:[24]:[10.2.2.0]/224
                                                                            ?
                       10.0.2.72
                                                  0
                                                            100
                                                                          0
*>i[5]:[0]:[0]:[24]:[10.2.3.0]/224
                       10.0.2.72
                                                            100
                                                                          0
                      10.6.1.2:32868
Route Distinguisher:
*>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[0]:[0.0.0.0]/216
                       10.0.2.72
                                                            100
                                                                          0
                                                                            i
*>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[32]:[10.2.1.20]/272
                                                            100
                       10.0.2.72
                                                                          0
                                                                            i.
Route Distinguisher:
                      10.6.1.2:32869
*>i[2]:[0]:[0]:[48]:[5254.0004.e203]:[0]:[0.0.0.0]/216
                       10.0.2.72
                                                            100
                                                                          0
                                                                           i
*>i[2]:[0]:[0]:[48]:[5254.0004.e203]:[32]:[10.2.2.21]/272
                                                            100
                       10.0.2.72
                                                                          0
                                                                            i
Route Distinguisher:
                      10.6.1.2:32870
*>i[2]:[0]:[0]:[48]:[5254.0011.3730]:[0]:[0.0.0.0]/216
                       10.0.2.72
                                                            100
                                                                          0
                                                                            i
*>i[2]:[0]:[0]:[48]:[5254.0011.3730]:[32]:[10.2.3.21]/272
                                                            100
                                                                          0 i
                       10.0.2.72
```

Step 8, vPC between LEAF-1 and NEW-LEAF2 Remains Down