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

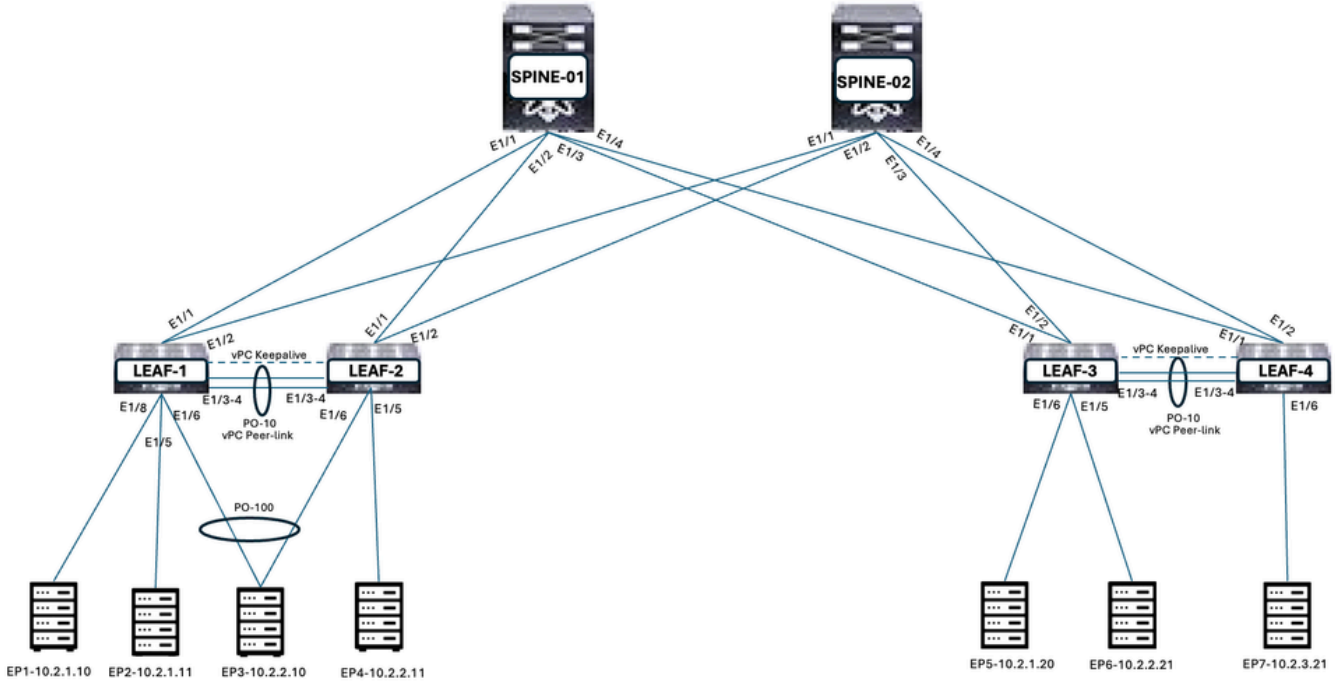
Components Used

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
----------- -------------- ------------------------------------ ------ ------
---- ---------- ------------------------------------
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,
        0          Local
102         5254.0019.4de7 10.2.2.11                                 HMM    L,
        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    --
        0          10.0.2.72 (Label: 10103)
```

```
LEAF-2(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
----------- -------------- ------------------------------------ ------ ------
---- ---------- ------------------------------------
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,
        0          Local
102         5254.0019.4de7 10.2.2.11                                 HMM    L,
        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    --
        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):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
----------- -------------- ------------------------------------ ------ ------
---- ---------- ------------------------------------
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    --
        0          10.0.1.72 (Label: 10102)
102         5254.0019.4de7 10.2.2.11                                 BGP    --
        0          10.0.1.72 (Label: 10102)
102         5254.0004.e203 10.2.2.21                                 HMM    L,
        0          Local
103         5254.0011.3730 10.2.3.21                                 HMM    L,
        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
        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    --
        0          10.0.1.72 (Label: 10102)
102         5254.0019.4de7 10.2.2.11                                 BGP    --
        0          10.0.1.72 (Label: 10102)
102         5254.0004.e203 10.2.2.21                                 HMM    L,
        0          Local
103         5254.0011.3730 10.2.3.21                                 HMM    L,
        0          Local
```

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

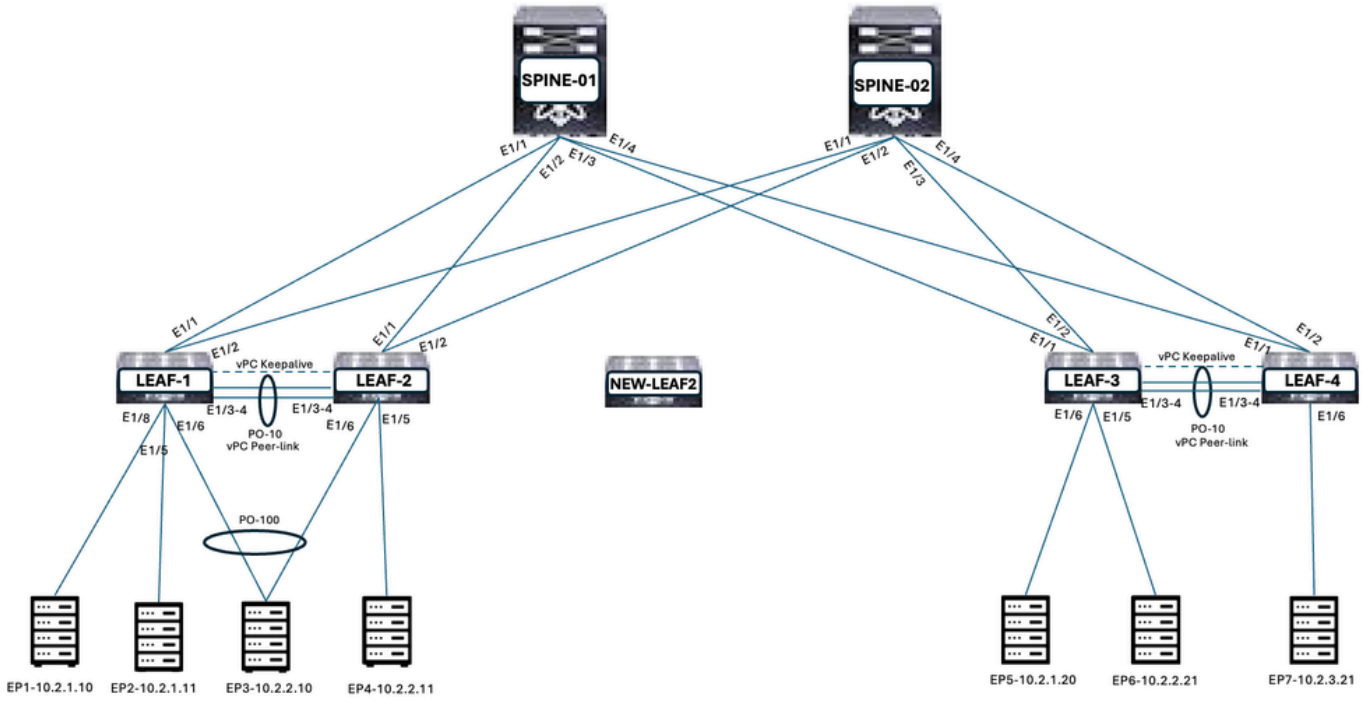
```
SPINE-1# show bgp l2vpn evpn
BGP routing table information for VRF default, address family L2VPN EVPN
BGP table version is 162, Local Router ID is 10.7.1.1
Status: s-suppressed, x-deleted, S-stale, d-dampened, h-history, *-valid, >-best
Path type: i-internal, e-external, c-confed, l-local, a-aggregate, r-redist, I-i
njected
Origin codes: i - IGP, e - EGP, ? - incomplete, | - multipath, & - backup, 2 - b
est2
Route Distinguisher: 10.5.1.1:32868
*>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 i
*>i[2]:[0]:[0]:[48]:[5254.0007.0bd9]:[32]:[10.2.1.11]/272
                     10.0.1.72                              100          0 i

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]:[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
                     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 i
*>i[2]:[0]:[0]:[48]:[5254.0007.0bd9]:[32]:[10.2.1.11]/272
                     10.0.1.72                              100          0 i

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
                     10.0.1.72                              100          0 i
 Route 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 i
 *>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[32]:[10.2.1.20]/272
                      10.0.2.72                             100          0 i

 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          0 ?
 *>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                0            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 i
 *>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[32]:[10.2.1.20]/272
                      10.0.2.72                             100          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
                      10.0.2.72                             100          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
                      10.0.2.72                             100          0 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

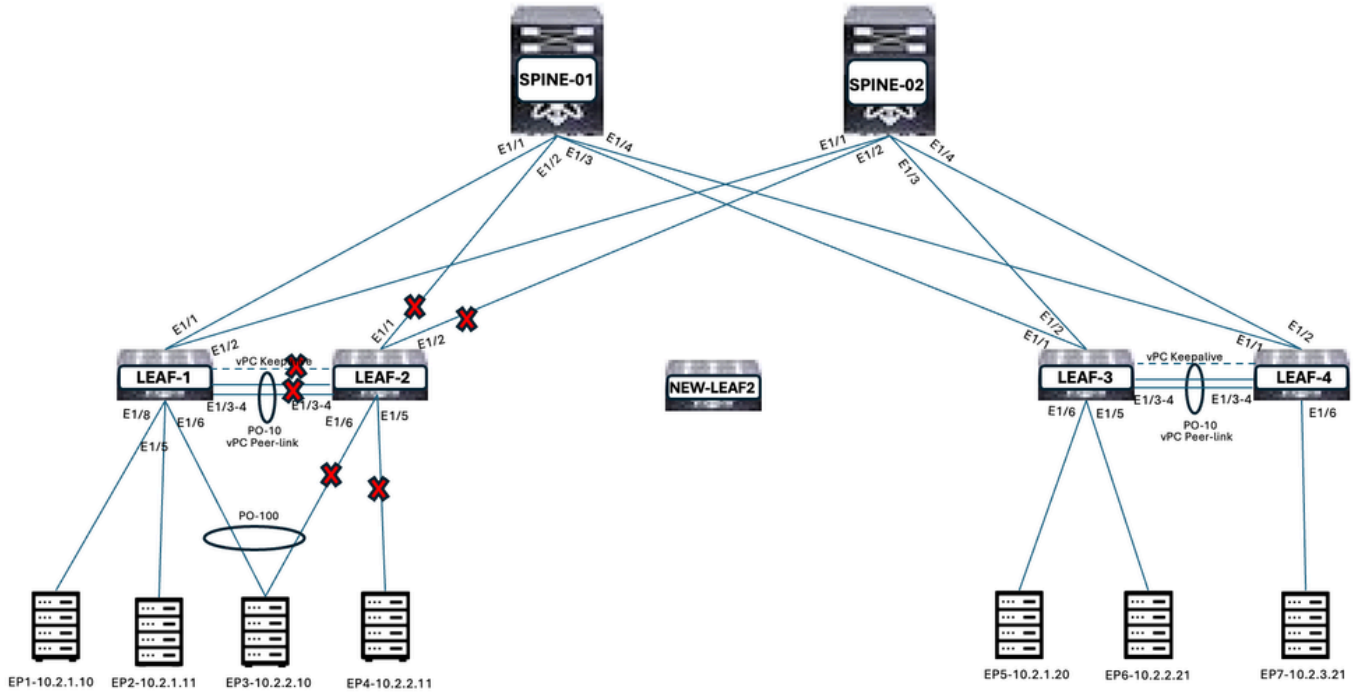


Figure 6. Shut down the interfaces on secondary switch

```
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)# int mgmt 0
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 auto-recovery, 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    : 0
vPC system-mac                  : 00:23:04:ee:be:0a
vPC system-priority             : 32667
vPC local system-mac            : 52:0a:4c:cd:1b:08
vPC local role-priority         : 0
vPC local config role-priority  : 200
vPC peer system-mac             : 00:00:00:00:00:00
vPC peer role-priority          : 0
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
        OOB Peer Version: 0     OOB 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.

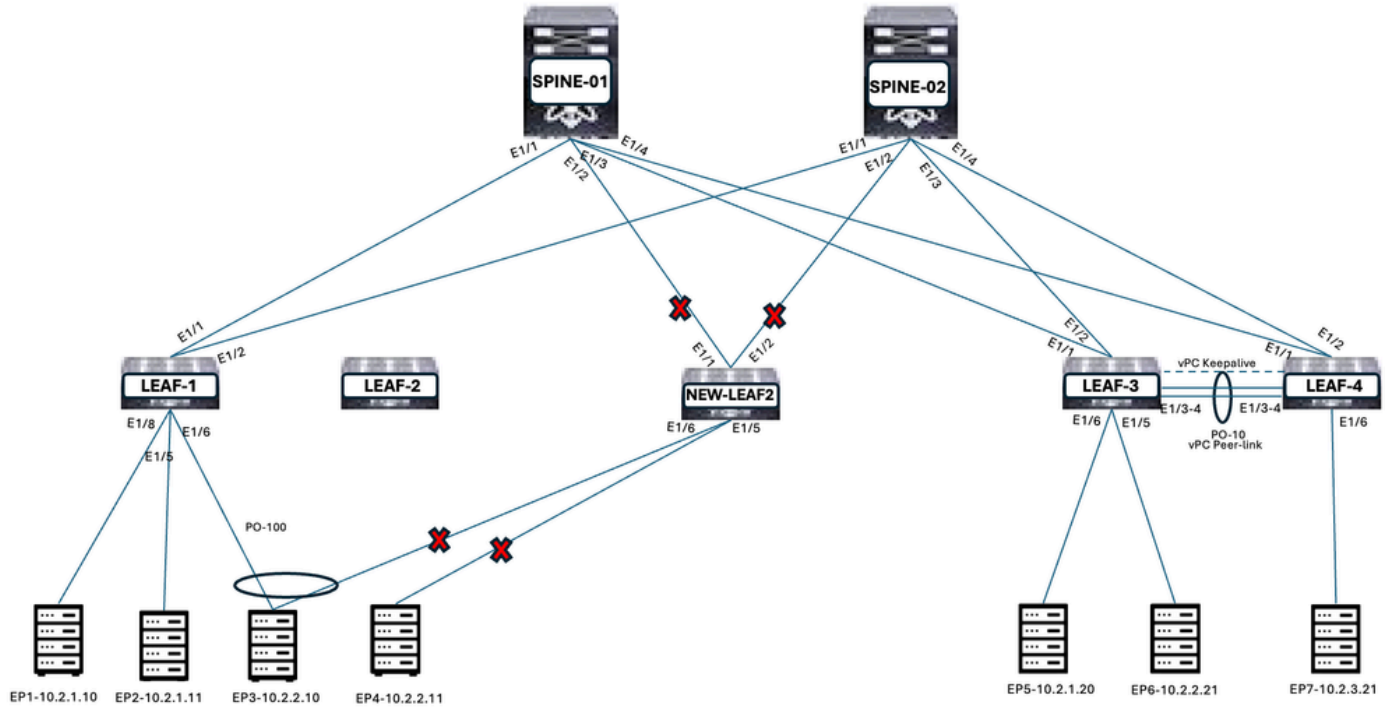
Figure 8. Remove secondary IP address from Loopback0

```
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

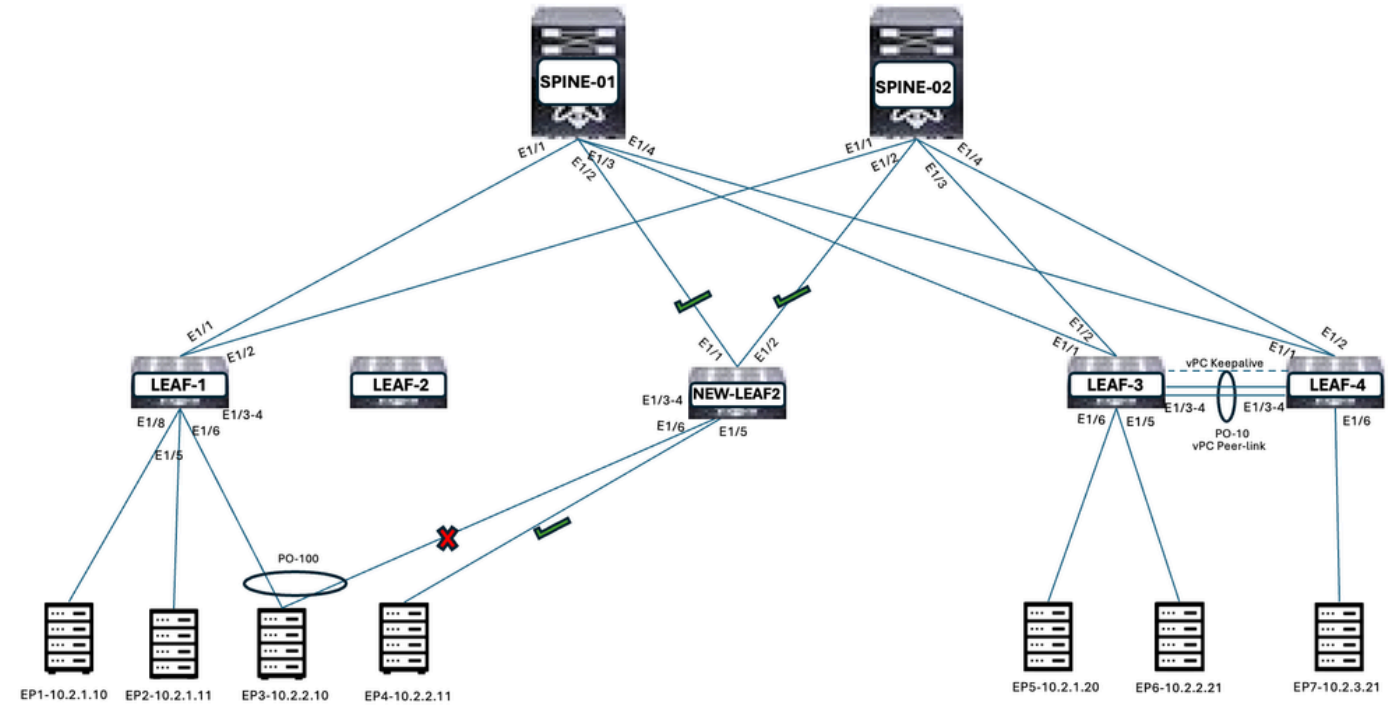


Figure 11. Output for 'unshut the interfaces' on NEW-LEAF2

```
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
        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                                 BGP    --
        0          10.0.2.72 (Label: 10101)
102         5202.fcc4.1b08 10.2.2.10                                 BGP    --
        0          10.0.1.72 (Label: 10102)
102         5254.0019.4de7 10.2.2.11                                 HMM    L,
        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    --
        0          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                                   Prod   Flags
        Seq No     Next-Hops
----------- -------------- ----------------------------------------- ------ ------
---- ---------- ------------------------------------
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,
        0          Local
102         5254.0019.4de7 10.2.2.11                                 BGP    --
        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):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
----------- -------------- ----------------------------------------- ------ ------
---- ---------- ------------------------------------
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    --
        0          10.0.1.72 (Label: 10102)
102         5254.0019.4de7 10.2.2.11                                 BGP    --
        0          10.5.1.2 (Label: 10102)
102         5254.0004.e203 10.2.2.21                                 HMM    L,
        0          Local
103         5254.0011.3730 10.2.3.21                                 HMM    L,
        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
        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    --
        0          10.0.1.72 (Label: 10102)
102         5254.0019.4de7 10.2.2.11                                 BGP    --
        0          10.5.1.2 (Label: 10102)
102         5254.0004.e203 10.2.2.21                                 HMM    L,
        0          Local
103         5254.0011.3730 10.2.3.21                                 HMM    L,
        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
                      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]:[10.2.1.11]/272
                      10.0.1.72                              100          0 i

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: 10.5.1.2:32869
*>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
Route 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 i
*>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[32]:[10.2.1.20]/272
                      10.0.2.72                              100          0 i

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          0 ?
*>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                0             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 i
*>i[2]:[0]:[0]:[48]:[5254.0004.83dd]:[32]:[10.2.1.20]/272
                      10.0.2.72                              100          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
                      10.0.2.72                              100          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
                      10.0.2.72                              100          0 i
```

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