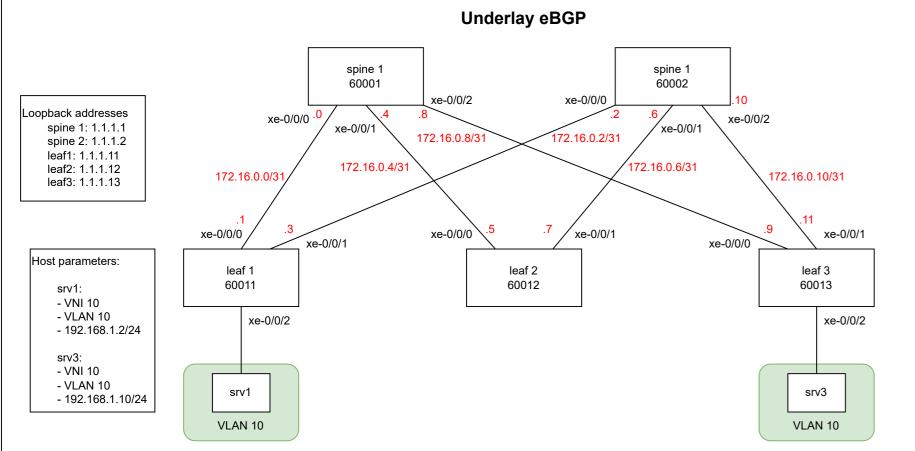
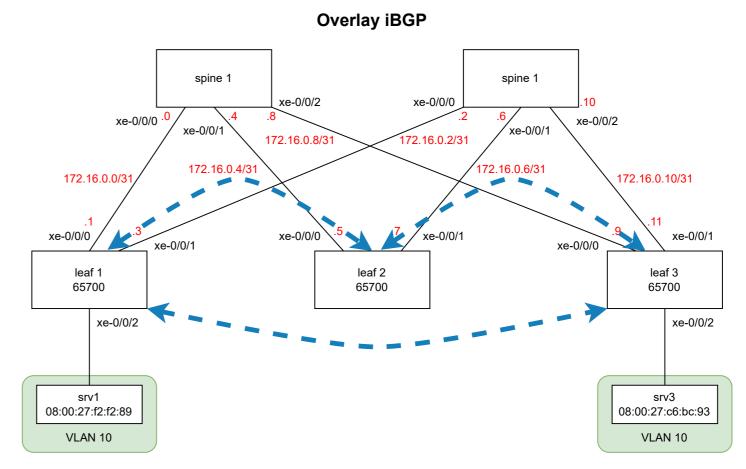
Sample EVPN-VXLAN Lab with Juniper vQFX



Underlay configuration snippet protocols { bgp { group underlay-ipfabric { type external; mtu-discovery; import bgp-ipclos-in; export bgp-ipclos-out; local-as 60013; multipath { multiple-as; bfd-liveness-detection { minimum-interval 350; multiplier 3; session-mode automatic; neighbor 172.16.0.8 { peer-as 60001; neighbor 172.16.0.10 { peer-as 60002; log-updown; graceful-restart; Ildp { interface all;

```
vagrant@leaf3> show route protocol bgp
inet.0: 15 destinations, 20 routes (15 active, 0 holddown, 0 hidden)
+ = Active Route. - = Last Active. * = Both
               *[BGP/170] 00:13:39, localpref 100
1.1.1.1/32
             AS path: 60001 I, validation-state: unverified
            > to 172.16.0.8 via xe-0/0/0.0
            [BGP/170] 00:13:39, localpref 100
             AS path: 60002 60011 60001 I, validation-state: unverified
            > to 172.16.0.10 via xe-0/0/1.0
             *[BGP/170] 00:13:39, localpref 100
1.1.1.2/32
             AS path: 60002 I, validation-state: unverified
            > to 172.16.0.10 via xe-0/0/1.0
            [BGP/170] 00:13:39, localpref 100
             AS path: 60001 60011 60002 I, validation-state: unverified
            > to 172.16.0.8 via xe-0/0/0.0
1.1.1.11/32 *[BGP/170] 00:13:39, localpref 100, from 172.16.0.8
             AS path: 60001 60011 I, validation-state: unverified
              to 172.16.0.8 via xe-0/0/0.0
            > to 172.16.0.10 via xe-0/0/1.0
            [BGP/170] 00:13:39, localpref 100
             AS path: 60002 60011 I, validation-state: unverified
            > to 172.16.0.10 via xe-0/0/1.0
1.1.1.12/32 *[BGP/170] 00:13:39, localpref 100, from 172.16.0.8
             AS path: 60001 60012 I, validation-state: unverified
              to 172.16.0.8 via xe-0/0/0.0
            > to 172.16.0.10 via xe-0/0/1.0
            [BGP/170] 00:13:39, localpref 100
             AS path: 60002 60012 I, validation-state: unverified
            > to 1/2.16.0.10 via xe-0/0/1.0
192.168.2.0/24 *[BGP/170] 00:13:39, localpref 100, from 172.16.0.8
             AS path: 60001 60012 I, validation-state: unverified
              to 172.16.0.8 via xe-0/0/0.0
            > to 172.16.0.10 via xe-0/0/1.0
            [BGP/170] 00:13:39, localpref 100
             AS path: 60002 60012 I, validation-state: unverified
            > to 172.16.0.10 via xe-0/0/1.0
```



```
vagrant@leaf1> show bgp summary
Threading mode: BGP I/O
Groups: 2 Peers: 4 Down peers: 0
          Tot Paths Act Paths Suppressed History Damp State Pending
inet.0
                               0
bgp.evpn.0
                    InPkt OutPkt OutQ Flaps Last Up/Dwn State|#Active/Received/Accepted/Damped...
Peer
                               14
1.1.1.12
               65700
                        13
                                     0
                                         0 4:40 Establ
   default evpn .evpn.0: 0/0/0/0
 bgp.evpn.0: 0/0/0/0
 default-switch.evpn.0: 0/0/0/0
              65700
                      20
                                19 0 0
                                                6:39 Establ
1.1.1.13
   default_evpn_.evpn.0: 0/0/0/0
 bgp.evpn.0: 3/3/3/0
 default-switch.evpn.0: 3/3/3/0
172.16.0.0
                60001
                                 115
                                      0
                                            0
                                                 49:18 Establ
 inet.0: 4/4/4/0
172.16.0.2
               60002
                         118
                                121
                                                 49:18 Establ
                                      0
 inet.0: 4/4/4/0
```

```
Overlay configuration snippet
    group overlay {
       type internal;
      local-address 1.1.1.11;
       family evpn {
         signaling;
      local-as 65700;
      multipath;
      neighbor 1.1.1.12;
      neighbor 1.1.1.13;
VTEP, RD, VNI-VLAN mapping
switch-options {
 vtep-source-interface lo0.0;
 route-distinguisher 1.1.1.11:1;
 vrf-import LEAF-IN;
 vrf-target target:9999:9999;
```

```
VTEP, RD, VNI-VLAN mapping
switch-options {
  vtep-source-interface lo0.0;
  route-distinguisher 1.1.1.11:1;
  vrf-import LEAF-IN;
  vrf-target target:9999:9999;
}
vlans {
  vlan10 {
    vlan-id 10;
    vxlan {
     vni 10;
     ingress-node-replication;
  }
  }
}
```

```
        vagrant@leaf1> show evpn database

        Instance: default-switch
        Instance: default-switch

        VLAN DomainId MAC address
        Active source
        Timestamp
        IP address

        10
        08:00:27:c6:bc:93
        1.1.1.13
        Oct 19 14:34:12
        192.168.1.10

        10
        08:00:27:f2:f2:89
        xe-0/0/2.0
        Oct 19 14:34:12
        192.168.1.2
```

```
vagrant@leaf1> show ethernet-switching table
MAC flags (S - static MAC, D - dynamic MAC, L - locally learned, P - Persistent static
      SE - statistics enabled, NM - non configured MAC, R - remote PE MAC, O - ovsdb MAC)
Ethernet switching table : 2 entries, 2 learned
Routing instance : default-switch
 Vlan
              MAC
                             MAC Logical
                                                    Active
               address
                              flags interface
                                                     source
 name
 vlan10
               08:00:27:c6:bc:93 D vtep.32769
                                                         1.1.1.13
               08:00:27:f2:f2:89 D xe-0/0/2.0
 vlan10
```