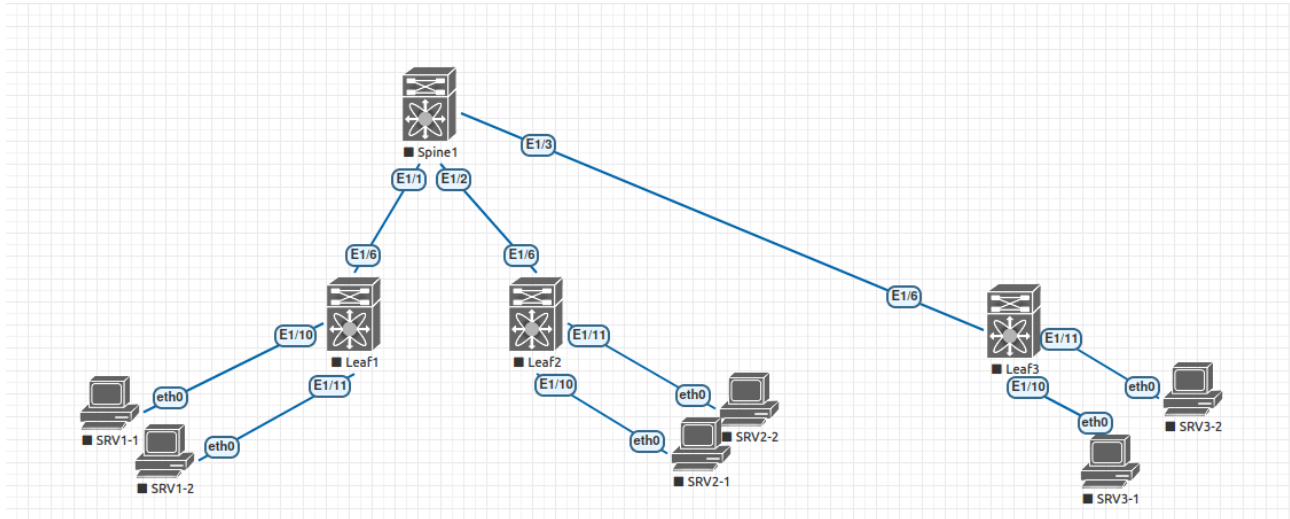


Scenario Name: VXLAN Bridging



Configuration:

```
Leaf1(config)# feature nv overlay
Leaf1(config)# feature vn-segment-vlan-based
Leaf1(config)# feature ospf
Leaf1(config)# feature pim
```

```
Leaf2(config)# feature nv overlay
Leaf2(config)# feature vn-segment-vlan-based
Leaf2(config)# feature ospf
Leaf2(config)# feature pim
```

```
Leaf3(config)# feature nv overlay
Leaf3(config)# feature vn-segment-vlan-based
Leaf3(config)# feature ospf
Leaf3(config)# feature pim
```

```
Spine1(config)# feature ospf
Spine1(config)# feature pim
```

```
Leaf1(config)# interface loopback 1
Leaf1(config-if)# ip address 1.1.1.1/32
Leaf1(config-if)# ip router ospf 1 area 0.0.0.0
Leaf1(config-if)# ip pim sparse-mode
Leaf1(config-if)# no shutdown
```

```
Leaf2(config)# interface loopback 1
Leaf2(config-if)# ip address 2.2.2.2/32
Leaf2(config-if)# ip router ospf 1 area 0.0.0.0
Leaf2(config-if)# ip pim sparse-mode
Leaf2(config-if)# no shutdown
```

```
Leaf3(config)# interface loopback 1
Leaf3(config-if)# ip address 3.3.3.3/32
Leaf3(config-if)# ip router ospf 1 area 0.0.0.0
Leaf3(config-if)# ip pim sparse-mode
Leaf3(config-if)# no shutdown
```

```
Spine1(config)# interface loopback 1
Spine1(config-if)# ip address 4.4.4.4/32
Spine1(config-if)# ip router ospf 1 area 0.0.0.0
Spine1(config-if)# ip pim sparse-mode
Spine1(config-if)# no shutdown
```

```
Leaf1(config)# interface ethernet 1/6
Leaf1(config-if)# no switchport
Leaf1(config-if)# ip address 192.168.14.1/24
Leaf1(config-if)# ip router ospf 1 area 0.0.0.0
Leaf1(config-if)# ip pim sparse-mode
Leaf1(config-if)# no shutdown
```

```
Leaf2(config)# interface ethernet 1/6
Leaf2(config-if)# no switchport
Leaf2(config-if)# ip address 192.168.24.1/24
Leaf2(config-if)# ip router ospf 1 area 0.0.0.0
Leaf2(config-if)# ip pim sparse-mode
Leaf2(config-if)# no shutdown
```

```
Leaf3(config)# interface ethernet 1/6
Leaf3(config-if)# no switchport
Leaf3(config-if)# ip address 192.168.34.1/24
Leaf3(config-if)# ip router ospf 1 area 0.0.0.0
Leaf3(config-if)# ip pim sparse-mode
Leaf3(config-if)# no shutdown
```

```
Spine1(config)# interface ethernet 1/1
Spine1(config-if)# no switchport
Spine1(config-if)# ip address 192.168.14.2/24
Spine1(config-if)# ip router ospf 1 area 0.0.0.0
Spine1(config-if)# ip pim sparse-mode
Spine1(config-if)# no shutdown
Spine1(config)# interface ethernet 1/2
Spine1(config-if)# no switchport
Spine1(config-if)# ip address 192.168.24.2/24
Spine1(config-if)# ip router ospf 1 area 0.0.0.0
Spine1(config-if)# ip pim sparse-mode
Spine1(config-if)# no shutdown
```

```
Spine1(config-if)# interface ethernet 1/3
Spine1(config-if)# no switchport
Spine1(config-if)# ip address 192.168.34.2/24
Spine1(config-if)# ip router ospf 1 area 0.0.0.0
Spine1(config-if)# ip pim sparse-mode
Spine1(config-if)# no shutdown
```

```
Leaf1(config)# router ospf 1
Leaf1(config-router)# router-id 1.1.1.1
Leaf1(config-router)# exit
```

```
Leaf2(config)# router ospf 1
Leaf2(config-router)# router-id 2.2.2.2
Leaf2(config-router)# exit
```

```
Leaf3(config)# router ospf 1
Leaf3(config-router)# router-id 3.3.3.3
Leaf3(config-router)# exit
```

```
Spine1(config)# router ospf 1
Spine1(config-router)# router-id 4.4.4.4
Spine1(config-router)# exit
```

```
Leaf1# sh ip ospf neighbors
Leaf1# sh ip route
Leaf1# ping 2.2.2.2 source 1.1.1.1
Leaf1# ping 3.3.3.3 source 1.1.1.1
Leaf1# ping 4.4.4.4 source 1.1.1.1
```

```
Leaf1(config)# ip pim rp-address 4.4.4.4 group-list 224.0.0.0/4
```

```
Leaf2(config)# ip pim rp-address 4.4.4.4 group-list 224.0.0.0/4
```

```
Leaf3(config)# ip pim rp-address 4.4.4.4 group-list 224.0.0.0/4
```

```
Spine1(config)# ip pim rp-address 4.4.4.4 group-list 224.0.0.0/4
```

```
Leaf1(config)# vlan 10
```

```
Leaf1(config-vlan)# vn-segment 10000
```

```
Leaf1(config-vlan)# exit
```

```
Leaf1(config)# vlan 11
```

```
Leaf1(config-vlan)# vn-segment 11000
```

```
Leaf1(config-vlan)# exit
```

```
Leaf1(config)# interface ethernet 1/10
```

```
Leaf1(config-if)# switchport
```

```
Leaf1(config-if)# switchport mode access
```

```
Leaf1(config-if)# switchport access vlan 10
```

```
Leaf1(config-if)# no shutdown
```

```
Leaf1(config-if)# interface ethernet 1/11
```

```
Leaf1(config-if)# switchport
```

```
Leaf1(config-if)# switchport mode access
```

```
Leaf1(config-if)# switchport access vlan 11
```

```
Leaf1(config-if)# no shutdown
```

```
Leaf2(config)# vlan 10
```

```
Leaf2(config-vlan)# vn-segment 10000
```

```
Leaf2(config-vlan)# exit
```

```
Leaf2(config)# vlan 11
```

```
Leaf2(config-vlan)# vn-segment 11000
```

```
Leaf2(config-vlan)# exit
```

```
Leaf2(config)# interface ethernet 1/10
```

```
Leaf2(config-if)# switchport
```

```
Leaf2(config-if)# switchport mode access
```

```
Leaf2(config-if)# switchport access vlan 10
```

```
Leaf2(config-if)# no shutdown
```

```
Leaf2(config-if)# interface ethernet 1/11
```

```
Leaf2(config-if)# switchport
```

```
Leaf2(config-if)# switchport mode access
```

```
Leaf2(config-if)# switchport access vlan 11
```

```
Leaf2(config-if)# no shutdown
```

```
Leaf3(config)# vlan 10
Leaf3(config-vlan)# vn-segment 10000
Leaf3(config-vlan)# exit
Leaf3(config)# vlan 11
Leaf3(config-vlan)# vn-segment 11000
Leaf3(config-vlan)# exit
Leaf3(config)# interface ethernet 1/10
Leaf3(config-if)# switchport
Leaf3(config-if)# switchport mode access
Leaf3(config-if)# switchport access vlan 10
Leaf3(config-if)# no shutdown
Leaf3(config-if)# interface ethernet 1/11
Leaf3(config-if)# switchport
Leaf3(config-if)# switchport mode access
Leaf3(config-if)# switchport access vlan 11
Leaf3(config-if)# no shutdown
```

```
Leaf1(config)# interface nve 1
Leaf1(config-if-nve)# no shutdown
Leaf1(config-if-nve)# source-interface loopback 1
Leaf1(config-if-nve)# member vni 10000 mcast-group 239.1.1.10
Leaf1(config-if-nve)# member vni 11000 mcast-group 239.1.1.11
```

```
Leaf2(config)# interface nve 1
Leaf2(config-if-nve)# no shutdown
Leaf2(config-if-nve)# source-interface loopback 1
Leaf2(config-if-nve)# member vni 10000 mcast-group 239.1.1.10
Leaf2(config-if-nve)# member vni 11000 mcast-group 239.1.1.11
```

```
Leaf3(config)# interface nve 1
Leaf3(config-if-nve)# no shutdown
Leaf3(config-if-nve)# source-interface loopback 1
Leaf3(config-if-nve)# member vni 10000 mcast-group 239.1.1.10
Leaf3(config-if-nve)# member vni 11000 mcast-group 239.1.1.11
```

```
Leaf1# show nve inter
Leaf1# show nve vni
Leaf1# show nve peers
```