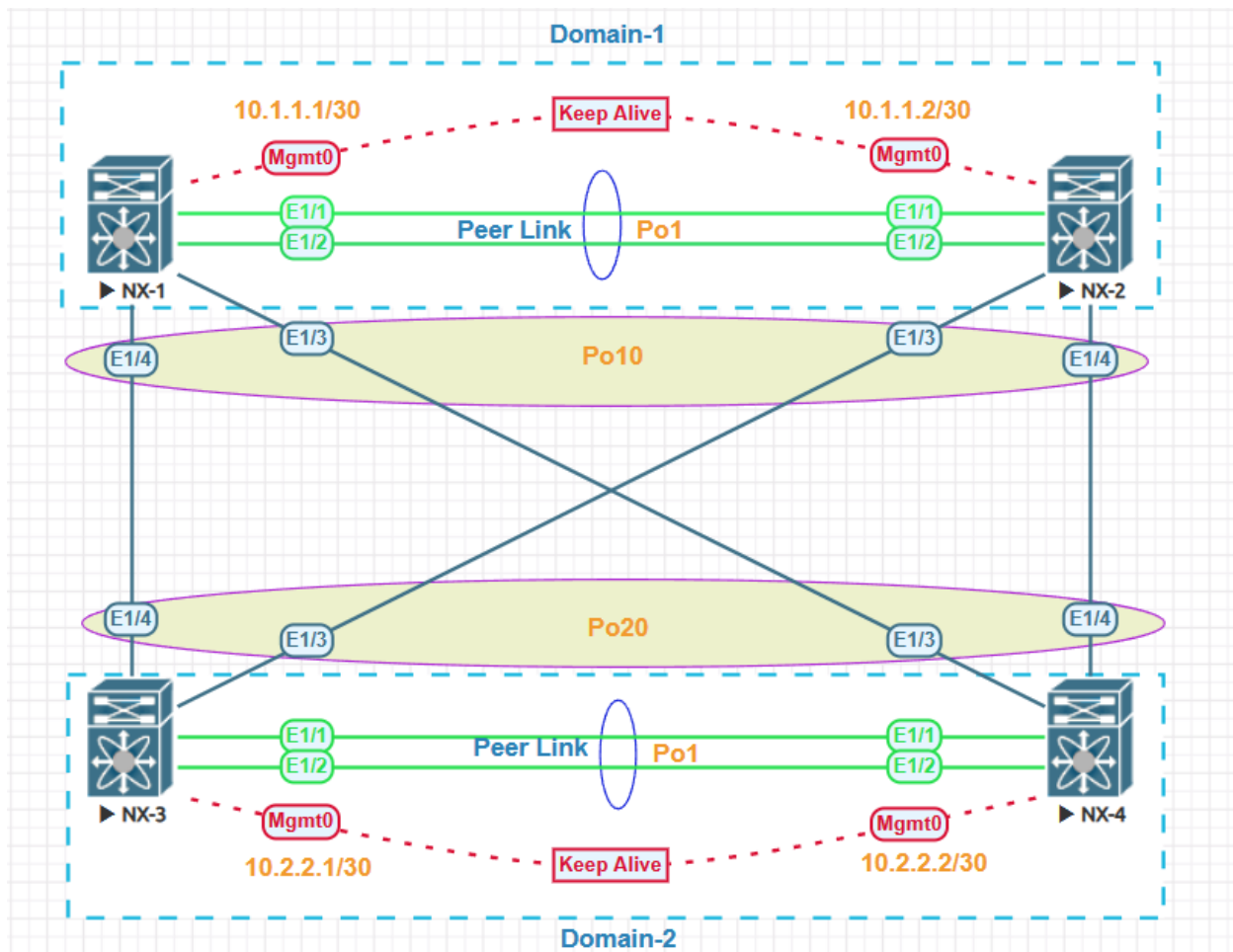


Double-Sided vPC Lab:



NX-1 Role	Primary
NX-2 Role	Secondary
NX-1 Priority	20
NX-2 Priority	30
Peer Links	E1/1 and E1/2
Keep Alive Link	Mgmt0
NX-1 Mgmt0 IP Address	10.1.1.1/30
NX-2 Mgmt0 IP Address	10.1.1.2/30
vPC Domain	1
Peer Link Portchannel	1
Member Portchannel	10
Member Ports	E1/3 and E1/4
Member Ports vPC	10
Nexus Images Version	9300v 9.3.6
Nexus EVE-NG Image	nxosv9k-9.3.6

NX-2 Role	Primary
NX-3 Role	Secondary
NX-2 Priority	20
NX-3 Priority	30
Peer Links	E1/1 and E1/2
Keep Alive Link	Mgmt0
NX-1 Mgmt0 IP Address	10.2.2.1/30
NX-2 Mgmt0 IP Address	10.2.2.2/30
vPC Domain	2
Peer Link Portchannel	1
Member Portchannel	20
Member Ports	E1/3 and E1/4
Member Ports vPC	20
Nexus Images Version	9300v 9.3.6
Nexus EVE-NG Image	nxosv9k-9.3.6

NX-1 Switch Configuration
Change hostname
switch(config)# hostname NX-1
Enable Features for vPC
NX-1(config)# feature vpc NX-1(config)# feature lacp
Configure Keep Alive Link
NX-1(config)# interface mgmt 0 NX-1(config-if)# ip address 10.1.1.1/30 NX-1(config-if)# no shutdown
Configure vPC Domain & Set Priorities
NX-1(config)# vpc domain 1 NX-1(config-vpc-domain)# role priority 20 NX-1(config-vpc-domain)# peer-keepalive destination 10.1.1.2 source 10.1.1.1 vrf management NX-1(config-vpc-domain)# exit
Configure Peer Link
NX-1(config)# interface ethernet 1/1-2 NX-1(config-if-range)# switchport mode trunk NX-1(config-if-range)# spanning-tree port type network NX-1(config-if-range)# channel-group 1 mode active NX-1(config-if-range)# no shutdown
Configure Peer Link Port-Channel
NX-1(config)# interface port-channel 1 NX-1(config-if)# no shutdown NX-1(config-if)# switchport NX-1(config-if)# switchport mode trunk NX-1(config-if)# spanning-tree port type network NX-1(config-if)# vpc peer-link
Configure Member Ports
NX-1(config)# interface ethernet 1/3-4 NX-1(config-if)# channel-group 10 mode active NX-1(config-if)# no shutdown NX-1(config-if)# exit
Configure Member Port-Channel
NX-1(config)# interface port-channel 10 NX-1(config-if)# no shutdown NX-1(config-if)# switchport NX-1(config-if)# switchport mode trunk NX-1(config-if)# vpc 10 NX-1(config-if)# exit

NX-2 Switch Configuration
Change hostname
switch(config)# hostname NX-2
Enable Features for vPC
NX-2(config)# feature vpc NX-2(config)# feature lacp
Configure Keep Alive Link
NX-2(config)# interface mgmt 0 NX-2(config-if)# ip address 10.1.1.2/30 NX-2(config-if)# no shutdown
Configure vPC Domain & Set Priorities
NX-2(config)# vpc domain 1 NX-2(config-vpc-domain)# role priority 20 NX-2(config-vpc-domain)# peer-keepalive destination 10.1.1.1 source 10.1.1.2 vrf management NX-2(config-vpc-domain)# exit
Configure Peer Link
NX-2(config)# interface ethernet 1/1-2 NX-2(config-if-range)# switchport mode trunk NX-2(config-if-range)# spanning-tree port type network NX-2(config-if-range)# channel-group 1 mode active NX-2(config-if-range)# no shutdown
Configure Peer Link Port-Channel
NX-2(config)# interface port-channel 1 NX-2(config-if)# no shutdown NX-2(config-if)# switchport NX-2(config-if)# switchport mode trunk NX-2(config-if)# spanning-tree port type network NX-2(config-if)# vpc peer-link
Configure Member Ports
NX-2(config)# interface ethernet 1/3-4 NX-2(config-if)# channel-group 10 mode active NX-2(config-if)# no shutdown NX-2(config-if)# exit
Configure Member Port-Channel
NX-2(config)# interface port-channel 10 NX-2(config-if)# no shutdown NX-2(config-if)# switchport NX-2(config-if)# switchport mode trunk NX-2(config-if)# vpc 10 NX-2(config-if)# exit

NX-3 Switch Configuration
Change hostname
switch(config)# hostname NX-3
Enable Features for vPC
NX-3(config)# feature vpc NX-3(config)# feature lacp
Configure Keep Alive Link
NX-3(config)# interface mgmt 0 NX-3(config-if)# ip address 10.2.2.1/30 NX-3(config-if)# no shutdown NX-3(config-if)# exit
Configure vPC Domain & Set Priorities
NX-3(config)# vpc domain 2 NX-3(config-vpc-domain)# role priority 20 NX-3(config-vpc-domain)# peer-keepalive destination 10.2.2.2 source 10.2.2.1 vrf management NX-3(config-vpc-domain)# exit
Configure Peer Link
NX-3(config)# interface ethernet 1/1-2 NX-3(config-if-range)# switchport mode trunk NX-3(config-if-range)# spanning-tree port type network NX-3(config-if-range)# channel-group 1 mode active NX-3(config-if-range)# no shutdown
Configure Peer Link Port-Channel
NX-3(config)# interface port-channel 1 NX-3(config-if)# no shutdown NX-3(config-if)# switchport NX-3(config-if)# switchport mode trunk NX-3(config-if)# spanning-tree port type network NX-3(config-if)# vpc peer-link NX-3(config-if)# exit
Configure Member Ports
NX-3(config)# interface ethernet 1/3-4 NX-3(config-if-range)# channel-group 20 mode active NX-3(config-if-range)# no shutdown
Configure Member Port-Channel
NX-3(config)# interface port-channel 20 NX-3(config-if)# no shutdown NX-3(config-if)# switchport NX-3(config-if)# switchport mode trunk NX-3(config-if)# vpc 20 NX-3(config-if)# exit

NX-4 Switch Configuration
Change hostname
switch(config)# hostname NX-4
Enable Features for vPC
NX-4(config)# feature vpc NX-4(config)# feature lacp
Configure Keep Alive Link
NX-4(config)# interface mgmt 0 NX-4(config-if)# ip address 10.2.2.2/30 NX-4(config-if)# no shutdown NX-4(config-if)# exit
Configure vPC Domain & Set Priorities
NX-4(config)# vpc domain 2 NX-4(config-vpc-domain)# role priority 30 NX-4(config-vpc-domain)# peer-keepalive destination 10.2.2.1 source 10.2.2.2 vrf management NX-4(config-vpc-domain)# exit
Configure Peer Link
NX-4(config)# interface ethernet 1/1-2 NX-4(config-if-range)# switchport mode trunk NX-4(config-if-range)# spanning-tree port type network NX-4(config-if-range)# channel-group 1 mode active NX-4(config-if-range)# no shutdown
Configure Peer Link Port-Channel
NX-4(config)# interface port-channel 1 NX-4(config-if)# no shutdown NX-4(config-if)# switchport NX-4(config-if)# switchport mode trunk NX-4(config-if)# spanning-tree port type network NX-4(config-if)# vpc peer-link NX-4(config-if)# exit
Configure Member Ports
NX-4(config)# interface ethernet 1/3-4 NX-4(config-if-range)# channel-group 20 mode active NX-4(config-if-range)# no shutdown
Configure Member Port-Channel
NX-4(config)# interface port-channel 20 NX-4(config-if)# no shutdown NX-4(config-if)# switchport NX-4(config-if)# switchport mode trunk NX-4(config-if)# vpc 20 NX-4(config-if)# exit

Cisco vPC Command	Purpose
show feature	Displays whether the vPC is enabled or not
show vpc brief	Displays brief information about the vPCs
show vpc consistency-parameters	Displays the current status of parameters
show running-config vpc	Displays running configuration information for vPCs
show port-channel capacity	Displays how many port channels are configured
show vpc statistics	Displays statistics about the vPCs
show vpc peer-keepalive	Displays info about the peer-keepalive messages
show vpc role	Displays the vPC peer's state
show vpc orphan-ports	Displays orphan port details

```
NX-1(config)# show port-channel summary
Flags:  D - Down          P - Up in port-channel (members)
        I - Individual    H - Hot-standby (LACP only)
        s - Suspended     r - Module-removed
        b - BFD Session wait
        S - Switched      R - Routed
        U - Up (port-channel)
        p - Up in delay-lacp mode (member)
        M - Not in use. Min-links not met
```

```
-----
Group Port-          Type      Protocol  Member Ports
      Channel
-----
1      Po1(SU)         Eth       LACP      Eth1/1(P)  Eth1/2(P)
10     Po10(SU)        Eth       LACP      Eth1/3(P)  Eth1/4(P)
NX-1(config)#
```

```
NX-2# show port-channel summary
Flags:  D - Down          P - Up in port-channel (members)
        I - Individual    H - Hot-standby (LACP only)
        s - Suspended     r - Module-removed
        b - BFD Session wait
        S - Switched      R - Routed
        U - Up (port-channel)
        p - Up in delay-lacp mode (member)
        M - Not in use. Min-links not met
```

```
-----
Group Port-          Type      Protocol  Member Ports
      Channel
-----
1      Po1(SU)         Eth       LACP      Eth1/1(P)  Eth1/2(P)
10     Po10(SU)        Eth       LACP      Eth1/3(P)  Eth1/4(P)
NX-2#
```

```

NX-3(config)# show port-channel summary
Flags:  D - Down          P - Up in port-channel (members)
        I - Individual   H - Hot-standby (LACP only)
        s - Suspended    r - Module-removed
        b - BFD Session Wait
        S - Switched     R - Routed
        U - Up (port-channel)
        p - Up in delay-lacp mode (member)
        M - Not in use. Min-links not met

```

```

-----
Group Port-      Type      Protocol  Member Ports
  channel
-----
1      Po1(SU)    Eth       LACP      Eth1/1(P)  Eth1/2(P)
20     Po20(SU)   Eth       LACP      Eth1/3(P)  Eth1/4(P)
NX-3(config)#

```

```

NX-4# show port-channel summary
Flags:  D - Down          P - Up in port-channel (members)
        I - Individual   H - Hot-standby (LACP only)
        s - Suspended    r - Module-removed
        b - BFD Session Wait
        S - Switched     R - Routed
        U - Up (port-channel)
        p - Up in delay-lacp mode (member)
        M - Not in use. Min-links not met

```

```

-----
Group Port-      Type      Protocol  Member Ports
  channel
-----
1      Po1(SU)    Eth       LACP      Eth1/1(P)  Eth1/2(P)
20     Po20(SU)   Eth       LACP      Eth1/3(P)  Eth1/4(P)
NX-4#

```