**CP1-POD22-LEAF4A**

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**Management**

**Management Interfaces**

**Management Interfaces Summary**

**IPv4**

| **Management Interface** | **description** | **Type** | **VRF** | **IP Address** | **Gateway** |
| --- | --- | --- | --- | --- | --- |
| Management1 | oob\_management | oob | MGMT | 192.168.0.21/24 | 192.168.0.5 |

**IPv6**

| **Management Interface** | **description** | **Type** | **VRF** | **IPv6 Address** | **IPv6 Gateway** |
| --- | --- | --- | --- | --- | --- |
| Management1 | oob\_management | oob | MGMT | - | - |

**Management Interfaces Device Configuration**

!

interface Management1

description oob\_management

no shutdown

vrf MGMT

ip address 192.168.0.21/24

**Name Servers**

**Name Servers Summary**

| **Name Server** | **Source VRF** |
| --- | --- |
| 192.168.0.5 | MGMT |
| 8.8.8.8 | MGMT |

**Name Servers Device Configuration**

ip name-server vrf MGMT 8.8.8.8

ip name-server vrf MGMT 192.168.0.5

**Management API HTTP**

**Management API HTTP Summary**

| **HTTP** | **HTTPS** |
| --- | --- |
| False | True |

**Management API VRF Access**

| **VRF Name** | **IPv4 ACL** | **IPv6 ACL** |
| --- | --- | --- |
| MGMT | - | - |

**Management API HTTP Configuration**

!

management api http-commands

protocol https

no shutdown

!

vrf MGMT

no shutdown

**Authentication**

**Local Users**

**Local Users Summary**

| **User** | **Privilege** | **Role** |
| --- | --- | --- |
| admin | 15 | network-admin |
| ansible | 15 | network-admin |
| cvpadmin | 15 | network-admin |

**Local Users Device Configuration**

!

username admin privilege 15 role network-admin secret sha512 $6$Df86J4/SFMDE3/1K$Hef4KstdoxNDaami37cBquTWOTplC.miMPjXVgQxMe92.e5wxlnXOLlebgPj8Fz1KO0za/RCO7ZIs4Q6Eiq1g1

username ansible privilege 15 role network-admin secret sha512 $6$Dzu11L7yp9j3nCM9$FSptxMPyIL555OMO.ldnjDXgwZmrfMYwHSr0uznE5Qoqvd9a6UdjiFcJUhGLtvXVZR1r.A/iF5aAt50hf/EK4/

username cvpadmin privilege 15 role network-admin secret sha512 $6$qI16FDuEyTyahgyH$su2QQ4zgkOLu1269G7PM1pdM0xHV0AeBJ6nSUzCcGeTrIqCJYpEK8t/KKDtUy6Q8YyUGoYe2ZFPNYqprB482b0

**Monitoring**

**TerminAttr Daemon**

**TerminAttr Daemon Summary**

| **CV Compression** | **CloudVision Servers** | **VRF** | **Authentication** | **Smash Excludes** | **Ingest Exclude** | **Bypass AAA** |
| --- | --- | --- | --- | --- | --- | --- |
| gzip | 192.168.0.5:9910 | MGMT | key,1a38fe7df56879d685e51b6f0ff86327 | ale,flexCounter,hardware,kni,pulse,strata | /Sysdb/cell/1/agent,/Sysdb/cell/2/agent | False |

**TerminAttr Daemon Device Configuration**

!

daemon TerminAttr

exec /usr/bin/TerminAttr -cvaddr=192.168.0.5:9910 -cvauth=key,1a38fe7df56879d685e51b6f0ff86327 -cvvrf=MGMT -smashexcludes=ale,flexCounter,hardware,kni,pulse,strata -ingestexclude=/Sysdb/cell/1/agent,/Sysdb/cell/2/agent -taillogs

no shutdown

**MLAG**

**MLAG Summary**

| **Domain-id** | **Local-interface** | **Peer-address** | **Peer-link** |
| --- | --- | --- | --- |
| CP1-POD22\_LEAF4 | Vlan4094 | 10.255.252.17 | Port-Channel3 |

Dual primary detection is disabled.

**MLAG Device Configuration**

!

mlag configuration

domain-id CP1-POD22\_LEAF4

local-interface Vlan4094

peer-address 10.255.252.17

peer-link Port-Channel3

reload-delay mlag 300

reload-delay non-mlag 330

**Spanning Tree**

**Spanning Tree Summary**

STP mode: **mstp**

**MSTP Instance and Priority**

| **Instance(s)** | **Priority** |
| --- | --- |
| 0 | 16384 |

**Global Spanning-Tree Settings**

* Spanning Tree disabled for VLANs: **4093-4094**

**Spanning Tree Device Configuration**

!

spanning-tree mode mstp

no spanning-tree vlan-id 4093-4094

spanning-tree mst 0 priority 16384

**Internal VLAN Allocation Policy**

**Internal VLAN Allocation Policy Summary**

| **Policy Allocation** | **Range Beginning** | **Range Ending** |
| --- | --- | --- |
| ascending | 1006 | 1199 |

**Internal VLAN Allocation Policy Configuration**

!

vlan internal order ascending range 1006 1199

**VLANs**

**VLANs Summary**

| **VLAN ID** | **Name** | **Trunk Groups** |
| --- | --- | --- |
| 110 | Tenant\_A\_LAN\_GUEST | - |
| 111 | Tenant\_A\_LAN\_QUARANTINE | - |
| 112 | Tenant\_A\_LAN | - |
| 150 | Tenant\_A\_WAN | - |
| 210 | Tenant\_B\_LAN\_GUEST | - |
| 211 | Tenant\_B\_LAN\_QUARANTINE | - |
| 212 | Tenant\_B\_LAN | - |
| 250 | Tenant\_B\_WAN | - |
| 310 | Tenant\_C\_LAN\_GUEST | - |
| 311 | Tenant\_C\_LAN\_QUARANTINE | - |
| 312 | Tenant\_C\_LAN | - |
| 350 | Tenant\_C\_WAN | - |
| 3009 | MLAG\_iBGP\_Tenant\_A\_LAN\_Zone | LEAF\_PEER\_L3 |
| 3013 | MLAG\_iBGP\_Tenant\_A\_WAN\_Zone | LEAF\_PEER\_L3 |
| 3019 | MLAG\_iBGP\_Tenant\_B\_LAN\_Zone | LEAF\_PEER\_L3 |
| 3020 | MLAG\_iBGP\_Tenant\_B\_WAN\_Zone | LEAF\_PEER\_L3 |
| 3029 | MLAG\_iBGP\_Tenant\_C\_LAN\_Zone | LEAF\_PEER\_L3 |
| 3030 | MLAG\_iBGP\_Tenant\_C\_WAN\_Zone | LEAF\_PEER\_L3 |
| 4093 | LEAF\_PEER\_L3 | LEAF\_PEER\_L3 |
| 4094 | MLAG\_PEER | MLAG |

**VLANs Device Configuration**

!

vlan 110

name Tenant\_A\_LAN\_GUEST

!

vlan 111

name Tenant\_A\_LAN\_QUARANTINE

!

vlan 112

name Tenant\_A\_LAN

!

vlan 150

name Tenant\_A\_WAN

!

vlan 210

name Tenant\_B\_LAN\_GUEST

!

vlan 211

name Tenant\_B\_LAN\_QUARANTINE

!

vlan 212

name Tenant\_B\_LAN

!

vlan 250

name Tenant\_B\_WAN

!

vlan 310

name Tenant\_C\_LAN\_GUEST

!

vlan 311

name Tenant\_C\_LAN\_QUARANTINE

!

vlan 312

name Tenant\_C\_LAN

!

vlan 350

name Tenant\_C\_WAN

!

vlan 3009

name MLAG\_iBGP\_Tenant\_A\_LAN\_Zone

trunk group LEAF\_PEER\_L3

!

vlan 3013

name MLAG\_iBGP\_Tenant\_A\_WAN\_Zone

trunk group LEAF\_PEER\_L3

!

vlan 3019

name MLAG\_iBGP\_Tenant\_B\_LAN\_Zone

trunk group LEAF\_PEER\_L3

!

vlan 3020

name MLAG\_iBGP\_Tenant\_B\_WAN\_Zone

trunk group LEAF\_PEER\_L3

!

vlan 3029

name MLAG\_iBGP\_Tenant\_C\_LAN\_Zone

trunk group LEAF\_PEER\_L3

!

vlan 3030

name MLAG\_iBGP\_Tenant\_C\_WAN\_Zone

trunk group LEAF\_PEER\_L3

!

vlan 4093

name LEAF\_PEER\_L3

trunk group LEAF\_PEER\_L3

!

vlan 4094

name MLAG\_PEER

trunk group MLAG

**Interfaces**

**Ethernet Interfaces**

**Ethernet Interfaces Summary**

**L2**

| **Interface** | **Description** | **Mode** | **VLANs** | **Native VLAN** | **Trunk Group** | **Channel-Group** |
| --- | --- | --- | --- | --- | --- | --- |
| Ethernet3 | MLAG\_PEER\_CP1-POD22-LEAF4B\_Ethernet3 | \*trunk | \*2-4094 | \*- | \*['LEAF\_PEER\_L3', 'MLAG'] | 3 |
| Ethernet4 | MLAG\_PEER\_CP1-POD22-LEAF4B\_Ethernet4 | \*trunk | \*2-4094 | \*- | \*['LEAF\_PEER\_L3', 'MLAG'] | 3 |
| Ethernet5 | CP1-POD22-L2LEAF3A\_Ethernet1 | \*trunk | \*110-112 | \*- | \*- | 5 |

\*Inherited from Port-Channel Interface

**IPv4**

| **Interface** | **Description** | **Type** | **Channel Group** | **IP Address** | **VRF** | **MTU** | **Shutdown** | **ACL In** | **ACL Out** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ethernet1 | P2P\_LINK\_TO\_CP1-SPLINE1\_Ethernet9 | routed | - | 172.31.255.33/31 | default | 1500 | false | - | - |
| Ethernet2 | P2P\_LINK\_TO\_CP1-SPLINE2\_Ethernet9 | routed | - | 172.31.255.35/31 | default | 1500 | false | - | - |

**Ethernet Interfaces Device Configuration**

!

interface Ethernet1

description P2P\_LINK\_TO\_CP1-SPLINE1\_Ethernet9

no shutdown

mtu 1500

no switchport

ip address 172.31.255.33/31

!

interface Ethernet2

description P2P\_LINK\_TO\_CP1-SPLINE2\_Ethernet9

no shutdown

mtu 1500

no switchport

ip address 172.31.255.35/31

!

interface Ethernet3

description MLAG\_PEER\_CP1-POD22-LEAF4B\_Ethernet3

no shutdown

channel-group 3 mode active

!

interface Ethernet4

description MLAG\_PEER\_CP1-POD22-LEAF4B\_Ethernet4

no shutdown

channel-group 3 mode active

!

interface Ethernet5

description CP1-POD22-L2LEAF3A\_Ethernet1

no shutdown

channel-group 5 mode active

**Port-Channel Interfaces**

**Port-Channel Interfaces Summary**

**L2**

| **Interface** | **Description** | **Type** | **Mode** | **VLANs** | **Native VLAN** | **Trunk Group** | **LACP Fallback Timeout** | **LACP Fallback Mode** | **MLAG ID** | **EVPN ESI** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Port-Channel3 | MLAG\_PEER\_CP1-POD22-LEAF4B\_Po3 | switched | trunk | 2-4094 | - | ['LEAF\_PEER\_L3', 'MLAG'] | - | - | - | - |
| Port-Channel5 | CP1-POD22-L2LEAF3A\_Po1 | switched | trunk | 110-112 | - | - | - | - | 5 | - |

**Port-Channel Interfaces Device Configuration**

!

interface Port-Channel3

description MLAG\_PEER\_CP1-POD22-LEAF4B\_Po3

no shutdown

switchport

switchport trunk allowed vlan 2-4094

switchport mode trunk

switchport trunk group LEAF\_PEER\_L3

switchport trunk group MLAG

!

interface Port-Channel5

description CP1-POD22-L2LEAF3A\_Po1

no shutdown

switchport

switchport trunk allowed vlan 110-112

switchport mode trunk

mlag 5

**Loopback Interfaces**

**Loopback Interfaces Summary**

**IPv4**

| **Interface** | **Description** | **VRF** | **IP Address** |
| --- | --- | --- | --- |
| Loopback0 | EVPN\_Overlay\_Peering | default | 192.168.255.11/32 |
| Loopback1 | VTEP\_VXLAN\_Tunnel\_Source | default | 192.168.254.11/32 |
| Loopback100 | Tenant\_A\_LAN\_Zone\_VTEP\_DIAGNOSTICS | Tenant\_A\_LAN\_Zone | 10.255.1.11/32 |

**IPv6**

| **Interface** | **Description** | **VRF** | **IPv6 Address** |
| --- | --- | --- | --- |
| Loopback0 | EVPN\_Overlay\_Peering | default | - |
| Loopback1 | VTEP\_VXLAN\_Tunnel\_Source | default | - |
| Loopback100 | Tenant\_A\_LAN\_Zone\_VTEP\_DIAGNOSTICS | Tenant\_A\_LAN\_Zone | - |

**Loopback Interfaces Device Configuration**

!

interface Loopback0

description EVPN\_Overlay\_Peering

no shutdown

ip address 192.168.255.11/32

!

interface Loopback1

description VTEP\_VXLAN\_Tunnel\_Source

no shutdown

ip address 192.168.254.11/32

!

interface Loopback100

description Tenant\_A\_LAN\_Zone\_VTEP\_DIAGNOSTICS

no shutdown

vrf Tenant\_A\_LAN\_Zone

ip address 10.255.1.11/32

**VLAN Interfaces**

**VLAN Interfaces Summary**

| **Interface** | **Description** | **VRF** | **MTU** | **Shutdown** |
| --- | --- | --- | --- | --- |
| Vlan110 | Tenant\_A\_LAN\_GUEST | Tenant\_A\_LAN\_Zone | - | false |
| Vlan111 | Tenant\_A\_LAN\_QUARANTINE | Tenant\_A\_LAN\_Zone | - | false |
| Vlan112 | Tenant\_A\_LAN | Tenant\_A\_LAN\_Zone | - | false |
| Vlan150 | Tenant\_A\_WAN | Tenant\_A\_WAN\_Zone | - | false |
| Vlan210 | Tenant\_B\_LAN\_GUEST | Tenant\_B\_LAN\_Zone | - | false |
| Vlan211 | Tenant\_B\_LAN\_QUARANTINE | Tenant\_B\_LAN\_Zone | - | false |
| Vlan212 | Tenant\_B\_LAN | Tenant\_B\_LAN\_Zone | - | false |
| Vlan250 | Tenant\_B\_WAN | Tenant\_B\_WAN\_Zone | - | false |
| Vlan310 | Tenant\_C\_LAN\_GUEST | Tenant\_C\_LAN\_Zone | - | false |
| Vlan311 | Tenant\_C\_LAN\_QUARANTINE | Tenant\_C\_LAN\_Zone | - | false |
| Vlan312 | Tenant\_C\_LAN | Tenant\_C\_LAN\_Zone | - | false |
| Vlan350 | Tenant\_C\_WAN | Tenant\_C\_WAN\_Zone | - | false |
| Vlan3009 | MLAG\_PEER\_L3\_iBGP: vrf Tenant\_A\_LAN\_Zone | Tenant\_A\_LAN\_Zone | 1500 | false |
| Vlan3013 | MLAG\_PEER\_L3\_iBGP: vrf Tenant\_A\_WAN\_Zone | Tenant\_A\_WAN\_Zone | 1500 | false |
| Vlan3019 | MLAG\_PEER\_L3\_iBGP: vrf Tenant\_B\_LAN\_Zone | Tenant\_B\_LAN\_Zone | 1500 | false |
| Vlan3020 | MLAG\_PEER\_L3\_iBGP: vrf Tenant\_B\_WAN\_Zone | Tenant\_B\_WAN\_Zone | 1500 | false |
| Vlan3029 | MLAG\_PEER\_L3\_iBGP: vrf Tenant\_C\_LAN\_Zone | Tenant\_C\_LAN\_Zone | 1500 | false |
| Vlan3030 | MLAG\_PEER\_L3\_iBGP: vrf Tenant\_C\_WAN\_Zone | Tenant\_C\_WAN\_Zone | 1500 | false |
| Vlan4093 | MLAG\_PEER\_L3\_PEERING | default | 1500 | false |
| Vlan4094 | MLAG\_PEER | default | 1500 | false |

**IPv4**

| **Interface** | **VRF** | **IP Address** | **IP Address Virtual** | **IP Router Virtual Address** | **VRRP** | **ACL In** | **ACL Out** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Vlan110 | Tenant\_A\_LAN\_Zone | - | 10.1.10.1/24 | - | - | - | - |
| Vlan111 | Tenant\_A\_LAN\_Zone | - | 10.1.11.1/24 | - | - | - | - |
| Vlan112 | Tenant\_A\_LAN\_Zone | - | 10.1.12.1/24 | - | - | - | - |
| Vlan150 | Tenant\_A\_WAN\_Zone | - | 10.1.50.1/24 | - | - | - | - |
| Vlan210 | Tenant\_B\_LAN\_Zone | - | - | - | - | - | - |
| Vlan211 | Tenant\_B\_LAN\_Zone | - | 10.2.11.1/24 | - | - | - | - |
| Vlan212 | Tenant\_B\_LAN\_Zone | - | 10.2.12.1/24 | - | - | - | - |
| Vlan250 | Tenant\_B\_WAN\_Zone | - | 10.2.50.1/24 | - | - | - | - |
| Vlan310 | Tenant\_C\_LAN\_Zone | - | - | - | - | - | - |
| Vlan311 | Tenant\_C\_LAN\_Zone | - | - | - | - | - | - |
| Vlan312 | Tenant\_C\_LAN\_Zone | - | - | - | - | - | - |
| Vlan350 | Tenant\_C\_WAN\_Zone | - | - | - | - | - | - |
| Vlan3009 | Tenant\_A\_LAN\_Zone | 10.255.251.16/31 | - | - | - | - | - |
| Vlan3013 | Tenant\_A\_WAN\_Zone | 10.255.251.16/31 | - | - | - | - | - |
| Vlan3019 | Tenant\_B\_LAN\_Zone | 10.255.251.16/31 | - | - | - | - | - |
| Vlan3020 | Tenant\_B\_WAN\_Zone | 10.255.251.16/31 | - | - | - | - | - |
| Vlan3029 | Tenant\_C\_LAN\_Zone | 10.255.251.16/31 | - | - | - | - | - |
| Vlan3030 | Tenant\_C\_WAN\_Zone | 10.255.251.16/31 | - | - | - | - | - |
| Vlan4093 | default | 10.255.251.16/31 | - | - | - | - | - |
| Vlan4094 | default | 10.255.252.16/31 | - | - | - | - | - |

**VLAN Interfaces Device Configuration**

!

interface Vlan110

description Tenant\_A\_LAN\_GUEST

no shutdown

vrf Tenant\_A\_LAN\_Zone

ip address virtual 10.1.10.1/24

!

interface Vlan111

description Tenant\_A\_LAN\_QUARANTINE

no shutdown

vrf Tenant\_A\_LAN\_Zone

ip address virtual 10.1.11.1/24

!

interface Vlan112

description Tenant\_A\_LAN

no shutdown

vrf Tenant\_A\_LAN\_Zone

ip address virtual 10.1.12.1/24

!

interface Vlan150

description Tenant\_A\_WAN

no shutdown

vrf Tenant\_A\_WAN\_Zone

ip address virtual 10.1.50.1/24

!

interface Vlan210

description Tenant\_B\_LAN\_GUEST

no shutdown

vrf Tenant\_B\_LAN\_Zone

!

interface Vlan211

description Tenant\_B\_LAN\_QUARANTINE

no shutdown

vrf Tenant\_B\_LAN\_Zone

ip address virtual 10.2.11.1/24

!

interface Vlan212

description Tenant\_B\_LAN

no shutdown

vrf Tenant\_B\_LAN\_Zone

ip address virtual 10.2.12.1/24

!

interface Vlan250

description Tenant\_B\_WAN

no shutdown

vrf Tenant\_B\_WAN\_Zone

ip address virtual 10.2.50.1/24

!

interface Vlan310

description Tenant\_C\_LAN\_GUEST

no shutdown

vrf Tenant\_C\_LAN\_Zone

!

interface Vlan311

description Tenant\_C\_LAN\_QUARANTINE

no shutdown

vrf Tenant\_C\_LAN\_Zone

!

interface Vlan312

description Tenant\_C\_LAN

no shutdown

vrf Tenant\_C\_LAN\_Zone

!

interface Vlan350

description Tenant\_C\_WAN

no shutdown

vrf Tenant\_C\_WAN\_Zone

!

interface Vlan3009

description MLAG\_PEER\_L3\_iBGP: vrf Tenant\_A\_LAN\_Zone

no shutdown

mtu 1500

vrf Tenant\_A\_LAN\_Zone

ip address 10.255.251.16/31

!

interface Vlan3013

description MLAG\_PEER\_L3\_iBGP: vrf Tenant\_A\_WAN\_Zone

no shutdown

mtu 1500

vrf Tenant\_A\_WAN\_Zone

ip address 10.255.251.16/31

!

interface Vlan3019

description MLAG\_PEER\_L3\_iBGP: vrf Tenant\_B\_LAN\_Zone

no shutdown

mtu 1500

vrf Tenant\_B\_LAN\_Zone

ip address 10.255.251.16/31

!

interface Vlan3020

description MLAG\_PEER\_L3\_iBGP: vrf Tenant\_B\_WAN\_Zone

no shutdown

mtu 1500

vrf Tenant\_B\_WAN\_Zone

ip address 10.255.251.16/31

!

interface Vlan3029

description MLAG\_PEER\_L3\_iBGP: vrf Tenant\_C\_LAN\_Zone

no shutdown

mtu 1500

vrf Tenant\_C\_LAN\_Zone

ip address 10.255.251.16/31

!

interface Vlan3030

description MLAG\_PEER\_L3\_iBGP: vrf Tenant\_C\_WAN\_Zone

no shutdown

mtu 1500

vrf Tenant\_C\_WAN\_Zone

ip address 10.255.251.16/31

!

interface Vlan4093

description MLAG\_PEER\_L3\_PEERING

no shutdown

mtu 1500

ip address 10.255.251.16/31

!

interface Vlan4094

description MLAG\_PEER

no shutdown

mtu 1500

no autostate

ip address 10.255.252.16/31

**VXLAN Interface**

**VXLAN Interface Summary**

| **Setting** | **Value** |
| --- | --- |
| Source Interface | Loopback1 |
| UDP port | 4789 |
| EVPN MLAG Shared Router MAC | mlag-system-id |

**VLAN to VNI, Flood List and Multicast Group Mappings**

| **VLAN** | **VNI** | **Flood List** | **Multicast Group** |
| --- | --- | --- | --- |
| 110 | 10110 | - | - |
| 111 | 10111 | - | - |
| 112 | 10112 | - | - |
| 150 | 10150 | - | - |
| 210 | 20210 | - | - |
| 211 | 20211 | - | - |
| 212 | 20212 | - | - |
| 250 | 20250 | - | - |
| 310 | 30310 | - | - |
| 311 | 30311 | - | - |
| 312 | 30312 | - | - |
| 350 | 30350 | - | - |

**VRF to VNI and Multicast Group Mappings**

| **VRF** | **VNI** | **Multicast Group** |
| --- | --- | --- |
| Tenant\_A\_LAN\_Zone | 10 | - |
| Tenant\_A\_WAN\_Zone | 14 | - |
| Tenant\_B\_LAN\_Zone | 20 | - |
| Tenant\_B\_WAN\_Zone | 21 | - |
| Tenant\_C\_LAN\_Zone | 30 | - |
| Tenant\_C\_WAN\_Zone | 31 | - |

**VXLAN Interface Device Configuration**

!

interface Vxlan1

description CP1-POD22-LEAF4A\_VTEP

vxlan source-interface Loopback1

vxlan virtual-router encapsulation mac-address mlag-system-id

vxlan udp-port 4789

vxlan vlan 110 vni 10110

vxlan vlan 111 vni 10111

vxlan vlan 112 vni 10112

vxlan vlan 150 vni 10150

vxlan vlan 210 vni 20210

vxlan vlan 211 vni 20211

vxlan vlan 212 vni 20212

vxlan vlan 250 vni 20250

vxlan vlan 310 vni 30310

vxlan vlan 311 vni 30311

vxlan vlan 312 vni 30312

vxlan vlan 350 vni 30350

vxlan vrf Tenant\_A\_LAN\_Zone vni 10

vxlan vrf Tenant\_A\_WAN\_Zone vni 14

vxlan vrf Tenant\_B\_LAN\_Zone vni 20

vxlan vrf Tenant\_B\_WAN\_Zone vni 21

vxlan vrf Tenant\_C\_LAN\_Zone vni 30

vxlan vrf Tenant\_C\_WAN\_Zone vni 31

**Routing**

**Service Routing Protocols Model**

Multi agent routing protocol model enabled

!

service routing protocols model multi-agent

**Virtual Router MAC Address**

**Virtual Router MAC Address Summary**

**Virtual Router MAC Address: 00:1c:73:00:dc:01**

**Virtual Router MAC Address Configuration**

!

ip virtual-router mac-address 00:1c:73:00:dc:01

**IP Routing**

**IP Routing Summary**

| **VRF** | **Routing Enabled** |
| --- | --- |
| default | true |
| MGMT | false |
| Tenant\_A\_LAN\_Zone | true |
| Tenant\_A\_WAN\_Zone | true |
| Tenant\_B\_LAN\_Zone | true |
| Tenant\_B\_WAN\_Zone | true |
| Tenant\_C\_LAN\_Zone | true |
| Tenant\_C\_WAN\_Zone | true |

**IP Routing Device Configuration**

!

ip routing

no ip routing vrf MGMT

ip routing vrf Tenant\_A\_LAN\_Zone

ip routing vrf Tenant\_A\_WAN\_Zone

ip routing vrf Tenant\_B\_LAN\_Zone

ip routing vrf Tenant\_B\_WAN\_Zone

ip routing vrf Tenant\_C\_LAN\_Zone

ip routing vrf Tenant\_C\_WAN\_Zone

**IPv6 Routing**

**IPv6 Routing Summary**

| **VRF** | **Routing Enabled** |
| --- | --- |
| default | false |
| MGMT | false |
| Tenant\_A\_LAN\_Zone | false |
| Tenant\_A\_WAN\_Zone | false |
| Tenant\_B\_LAN\_Zone | false |
| Tenant\_B\_WAN\_Zone | false |
| Tenant\_C\_LAN\_Zone | false |
| Tenant\_C\_WAN\_Zone | false |

**Static Routes**

**Static Routes Summary**

| **VRF** | **Destination Prefix** | **Next Hop IP** | **Exit interface** | **Administrative Distance** | **Tag** | **Route Name** | **Metric** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| MGMT | 0.0.0.0/0 | 192.168.0.5 | - | 1 | - | - | - |

**Static Routes Device Configuration**

!

ip route vrf MGMT 0.0.0.0/0 192.168.0.5

**Router BGP**

**Router BGP Summary**

| **BGP AS** | **Router ID** |
| --- | --- |
| 65105 | 192.168.255.11 |

| **BGP Tuning** |
| --- |
| no bgp default ipv4-unicast |
| distance bgp 20 200 200 |
| graceful-restart restart-time 300 |
| graceful-restart |
| maximum-paths 4 ecmp 4 |

**Router BGP Peer Groups**

**EVPN-OVERLAY-PEERS**

| **Settings** | **Value** |
| --- | --- |
| Address Family | evpn |
| Source | Loopback0 |
| BFD | True |
| Ebgp multihop | 3 |
| Send community | all |
| Maximum routes | 0 (no limit) |

**IPv4-UNDERLAY-PEERS**

| **Settings** | **Value** |
| --- | --- |
| Address Family | ipv4 |
| Send community | all |
| Maximum routes | 12000 |

**MLAG-IPv4-UNDERLAY-PEER**

| **Settings** | **Value** |
| --- | --- |
| Address Family | ipv4 |
| Remote AS | 65105 |
| Next-hop self | True |
| Send community | all |
| Maximum routes | 12000 |

**BGP Neighbors**

| **Neighbor** | **Remote AS** | **VRF** | **Shutdown** | **Send-community** | **Maximum-routes** | **Allowas-in** | **BFD** | **RIB Pre-Policy Retain** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 10.255.251.17 | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | default | - | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | - | - | - |
| 172.31.255.32 | 65001 | default | - | Inherited from peer group IPv4-UNDERLAY-PEERS | Inherited from peer group IPv4-UNDERLAY-PEERS | - | - | - |
| 172.31.255.34 | 65001 | default | - | Inherited from peer group IPv4-UNDERLAY-PEERS | Inherited from peer group IPv4-UNDERLAY-PEERS | - | - | - |
| 192.168.255.1 | 65001 | default | - | Inherited from peer group EVPN-OVERLAY-PEERS | Inherited from peer group EVPN-OVERLAY-PEERS | - | Inherited from peer group EVPN-OVERLAY-PEERS | - |
| 192.168.255.2 | 65001 | default | - | Inherited from peer group EVPN-OVERLAY-PEERS | Inherited from peer group EVPN-OVERLAY-PEERS | - | Inherited from peer group EVPN-OVERLAY-PEERS | - |
| 10.255.251.17 | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Tenant\_A\_LAN\_Zone | - | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | - | - | - |
| 10.255.251.17 | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Tenant\_A\_WAN\_Zone | - | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | - | - | - |
| 10.255.251.17 | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Tenant\_B\_LAN\_Zone | - | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | - | - | - |
| 10.255.251.17 | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Tenant\_B\_WAN\_Zone | - | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | - | - | - |
| 10.255.251.17 | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Tenant\_C\_LAN\_Zone | - | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | - | - | - |
| 10.255.251.17 | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Tenant\_C\_WAN\_Zone | - | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | Inherited from peer group MLAG-IPv4-UNDERLAY-PEER | - | - | - |

**Router BGP EVPN Address Family**

**EVPN Peer Groups**

| **Peer Group** | **Activate** |
| --- | --- |
| EVPN-OVERLAY-PEERS | True |

**Router BGP VLAN Aware Bundles**

| **VLAN Aware Bundle** | **Route-Distinguisher** | **Both Route-Target** | **Import Route Target** | **Export Route-Target** | **Redistribute** | **VLANs** |
| --- | --- | --- | --- | --- | --- | --- |
| Tenant\_A\_LAN\_Zone | 192.168.255.11:10 | 10:10 | - | - | learned | 110-112 |
| Tenant\_A\_WAN\_Zone | 192.168.255.11:14 | 14:14 | - | - | learned | 150 |
| Tenant\_B\_LAN\_Zone | 192.168.255.11:20 | 20:20 | - | - | learned | 210-212 |
| Tenant\_B\_WAN\_Zone | 192.168.255.11:21 | 21:21 | - | - | learned | 250 |
| Tenant\_C\_LAN\_Zone | 192.168.255.11:30 | 30:30 | - | - | learned | 310-312 |
| Tenant\_C\_WAN\_Zone | 192.168.255.11:31 | 31:31 | - | - | learned | 350 |

**Router BGP VRFs**

| **VRF** | **Route-Distinguisher** | **Redistribute** |
| --- | --- | --- |
| Tenant\_A\_LAN\_Zone | 192.168.255.11:10 | connected |
| Tenant\_A\_WAN\_Zone | 192.168.255.11:14 | connected |
| Tenant\_B\_LAN\_Zone | 192.168.255.11:20 | connected |
| Tenant\_B\_WAN\_Zone | 192.168.255.11:21 | connected |
| Tenant\_C\_LAN\_Zone | 192.168.255.11:30 | connected |
| Tenant\_C\_WAN\_Zone | 192.168.255.11:31 | connected |

**Router BGP Device Configuration**

!

router bgp 65105

router-id 192.168.255.11

no bgp default ipv4-unicast

distance bgp 20 200 200

graceful-restart restart-time 300

graceful-restart

maximum-paths 4 ecmp 4

neighbor EVPN-OVERLAY-PEERS peer group

neighbor EVPN-OVERLAY-PEERS update-source Loopback0

neighbor EVPN-OVERLAY-PEERS bfd

neighbor EVPN-OVERLAY-PEERS ebgp-multihop 3

neighbor EVPN-OVERLAY-PEERS password 7 q+VNViP5i4rVjW1cxFv2wA==

neighbor EVPN-OVERLAY-PEERS send-community

neighbor EVPN-OVERLAY-PEERS maximum-routes 0

neighbor IPv4-UNDERLAY-PEERS peer group

neighbor IPv4-UNDERLAY-PEERS password 7 AQQvKeimxJu+uGQ/yYvv9w==

neighbor IPv4-UNDERLAY-PEERS send-community

neighbor IPv4-UNDERLAY-PEERS maximum-routes 12000

neighbor MLAG-IPv4-UNDERLAY-PEER peer group

neighbor MLAG-IPv4-UNDERLAY-PEER remote-as 65105

neighbor MLAG-IPv4-UNDERLAY-PEER next-hop-self

neighbor MLAG-IPv4-UNDERLAY-PEER description CP1-POD22-LEAF4B

neighbor MLAG-IPv4-UNDERLAY-PEER password 7 vnEaG8gMeQf3d3cN6PktXQ==

neighbor MLAG-IPv4-UNDERLAY-PEER send-community

neighbor MLAG-IPv4-UNDERLAY-PEER maximum-routes 12000

neighbor MLAG-IPv4-UNDERLAY-PEER route-map RM-MLAG-PEER-IN in

neighbor 10.255.251.17 peer group MLAG-IPv4-UNDERLAY-PEER

neighbor 10.255.251.17 description CP1-POD22-LEAF4B

neighbor 172.31.255.32 peer group IPv4-UNDERLAY-PEERS

neighbor 172.31.255.32 remote-as 65001

neighbor 172.31.255.32 description CP1-SPLINE1\_Ethernet9

neighbor 172.31.255.34 peer group IPv4-UNDERLAY-PEERS

neighbor 172.31.255.34 remote-as 65001

neighbor 172.31.255.34 description CP1-SPLINE2\_Ethernet9

neighbor 192.168.255.1 peer group EVPN-OVERLAY-PEERS

neighbor 192.168.255.1 remote-as 65001

neighbor 192.168.255.1 description CP1-SPLINE1

neighbor 192.168.255.2 peer group EVPN-OVERLAY-PEERS

neighbor 192.168.255.2 remote-as 65001

neighbor 192.168.255.2 description CP1-SPLINE2

redistribute connected route-map RM-CONN-2-BGP

!

vlan-aware-bundle Tenant\_A\_LAN\_Zone

rd 192.168.255.11:10

route-target both 10:10

redistribute learned

vlan 110-112

!

vlan-aware-bundle Tenant\_A\_WAN\_Zone

rd 192.168.255.11:14

route-target both 14:14

redistribute learned

vlan 150

!

vlan-aware-bundle Tenant\_B\_LAN\_Zone

rd 192.168.255.11:20

route-target both 20:20

redistribute learned

vlan 210-212

!

vlan-aware-bundle Tenant\_B\_WAN\_Zone

rd 192.168.255.11:21

route-target both 21:21

redistribute learned

vlan 250

!

vlan-aware-bundle Tenant\_C\_LAN\_Zone

rd 192.168.255.11:30

route-target both 30:30

redistribute learned

vlan 310-312

!

vlan-aware-bundle Tenant\_C\_WAN\_Zone

rd 192.168.255.11:31

route-target both 31:31

redistribute learned

vlan 350

!

address-family evpn

neighbor EVPN-OVERLAY-PEERS activate

!

address-family ipv4

no neighbor EVPN-OVERLAY-PEERS activate

neighbor IPv4-UNDERLAY-PEERS activate

neighbor MLAG-IPv4-UNDERLAY-PEER activate

!

vrf Tenant\_A\_LAN\_Zone

rd 192.168.255.11:10

route-target import evpn 10:10

route-target export evpn 10:10

router-id 192.168.255.11

neighbor 10.255.251.17 peer group MLAG-IPv4-UNDERLAY-PEER

redistribute connected

!

vrf Tenant\_A\_WAN\_Zone

rd 192.168.255.11:14

route-target import evpn 14:14

route-target export evpn 14:14

router-id 192.168.255.11

neighbor 10.255.251.17 peer group MLAG-IPv4-UNDERLAY-PEER

redistribute connected

!

vrf Tenant\_B\_LAN\_Zone

rd 192.168.255.11:20

route-target import evpn 20:20

route-target export evpn 20:20

router-id 192.168.255.11

neighbor 10.255.251.17 peer group MLAG-IPv4-UNDERLAY-PEER

redistribute connected

!

vrf Tenant\_B\_WAN\_Zone

rd 192.168.255.11:21

route-target import evpn 21:21

route-target export evpn 21:21

router-id 192.168.255.11

neighbor 10.255.251.17 peer group MLAG-IPv4-UNDERLAY-PEER

redistribute connected

!

vrf Tenant\_C\_LAN\_Zone

rd 192.168.255.11:30

route-target import evpn 30:30

route-target export evpn 30:30

router-id 192.168.255.11

neighbor 10.255.251.17 peer group MLAG-IPv4-UNDERLAY-PEER

redistribute connected

!

vrf Tenant\_C\_WAN\_Zone

rd 192.168.255.11:31

route-target import evpn 31:31

route-target export evpn 31:31

router-id 192.168.255.11

neighbor 10.255.251.17 peer group MLAG-IPv4-UNDERLAY-PEER

redistribute connected

**BFD**

**Router BFD**

**Router BFD Multihop Summary**

| **Interval** | **Minimum RX** | **Multiplier** |
| --- | --- | --- |
| 1200 | 1200 | 3 |

**Router BFD Device Configuration**

!

router bfd

multihop interval 1200 min-rx 1200 multiplier 3

**Multicast**

**IP IGMP Snooping**

**IP IGMP Snooping Summary**

| **IGMP Snooping** | **Fast Leave** | **Interface Restart Query** | **Proxy** | **Restart Query Interval** | **Robustness Variable** |
| --- | --- | --- | --- | --- | --- |
| Enabled | - | - | - | - | - |

**IP IGMP Snooping Device Configuration**

**Filters**

**Prefix-lists**

**Prefix-lists Summary**

**PL-LOOPBACKS-EVPN-OVERLAY**

| **Sequence** | **Action** |
| --- | --- |
| 10 | permit 192.168.255.0/24 eq 32 |
| 20 | permit 192.168.254.0/24 eq 32 |

**Prefix-lists Device Configuration**

!

ip prefix-list PL-LOOPBACKS-EVPN-OVERLAY

seq 10 permit 192.168.255.0/24 eq 32

seq 20 permit 192.168.254.0/24 eq 32

**Route-maps**

**Route-maps Summary**

**RM-CONN-2-BGP**

| **Sequence** | **Type** | **Match and/or Set** |
| --- | --- | --- |
| 10 | permit | match ip address prefix-list PL-LOOPBACKS-EVPN-OVERLAY |

**RM-MLAG-PEER-IN**

| **Sequence** | **Type** | **Match and/or Set** |
| --- | --- | --- |
| 10 | permit | set origin incomplete |

**Route-maps Device Configuration**

!

route-map RM-CONN-2-BGP permit 10

match ip address prefix-list PL-LOOPBACKS-EVPN-OVERLAY

!

route-map RM-MLAG-PEER-IN permit 10

description Make routes learned over MLAG Peer-link less preferred on spines to ensure optimal routing

set origin incomplete

**ACL**

**VRF Instances**

**VRF Instances Summary**

| **VRF Name** | **IP Routing** |
| --- | --- |
| MGMT | disabled |
| Tenant\_A\_LAN\_Zone | enabled |
| Tenant\_A\_WAN\_Zone | enabled |
| Tenant\_B\_LAN\_Zone | enabled |
| Tenant\_B\_WAN\_Zone | enabled |
| Tenant\_C\_LAN\_Zone | enabled |
| Tenant\_C\_WAN\_Zone | enabled |

**VRF Instances Device Configuration**

!

vrf instance MGMT

!

vrf instance Tenant\_A\_LAN\_Zone

!

vrf instance Tenant\_A\_WAN\_Zone

!

vrf instance Tenant\_B\_LAN\_Zone

!

vrf instance Tenant\_B\_WAN\_Zone

!

vrf instance Tenant\_C\_LAN\_Zone

!

vrf instance Tenant\_C\_WAN\_Zone

**Virtual Source NAT**

**Virtual Source NAT Summary**

| **Source NAT VRF** | **Source NAT IP Address** |
| --- | --- |
| Tenant\_A\_LAN\_Zone | 10.255.1.11 |

**Virtual Source NAT Configuration**

!

ip address virtual source-nat vrf Tenant\_A\_LAN\_Zone address 10.255.1.11

**Quality Of Service**