dipan-hw1# sh run nv overlay

!Command: show running-config nv overlay

!Running configuration last done at: Mon Jul 29 00:09:07 2019

!Time: Mon Jul 29 04:56:05 2019

version 9.3(1) Bios:version 05.19 feature nv overlay

interface nve1 no shutdown source-interface loopback0 member vni 5000 ingress-replication protocol static peer-ip 2.2.2.2

dipan-hw1# sh run interface loopback 0

!Command: show running-config interface loopback0 !Running configuration last done at: Mon Jul 29 00:09:07 2019

!Time: Mon Jul 29 05:03:37 2019

version 9.3(1) Bios:version 05.19

interface loopback0 ip address 1.1.1.1/32

dipan-hw1# sh interface loopback 0
loopback0 is up
admin state is up,
Hardware: Loopback
Internet Address is 1.1.1.1/32
MTU 1500 bytes, BW 8000000 Kbit, DLY 5000 usec
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation LOOPBACK, medium is broadcast
Auto-mdix is turned off
0 packets input 0 bytes
0 multicast frames 0 compressed

0 multicast frames 0 compressed 0 input errors 0 frame 0 overrun 0 fifo 0 packets output 0 bytes 0 underruns 0 output errors 0 collisions 0 fifo

0 out_carrier_errors

dipan-hw1# sh ip route
IP Route Table for VRF "default"
'*' denotes best ucast next-hop
'**' denotes best mcast next-hop
'[x/y]' denotes [preference/metric]

'%<string>' in via output denotes VRF <string>

1.1.1.1/32, ubest/mbest: 2/0, attached
 *via 1.1.1.1, Lo0, [0/0], 2d09h, local
 *via 1.1.1.1, Lo0, [0/0], 2d09h, direct
2.2.2.2/32, ubest/mbest: 1/0
 *via 192.168.100.2, [1/0], 2d08h, static
192.168.100.0/30, ubest/mbest: 1/0, attached
 *via 192.168.100.1, Eth1/34, [0/0], 2d08h, direct
192.168.100.1/32, ubest/mbest: 1/0, attached

192.168.100.1/32, ubest/mbest: 1/0, attached *via 192.168.100.1, Eth1/34, [0/0], 2d08h, local

dipan-hw1#

dipan-hw1# sh lldp neighbors interface eth1/34 Capability codes:

(R) Router, (B) Bridge, (T) Telephone, (C) DOCSIS Cable Device (W) WLAN Access Point, (P) Repeater, (S) Station, (O) Other Device ID Local Intf Hold-time Capability Port ID dipan-hw2 Eth1/34 120 BR Ethernet1/34 Total entries displayed: 1

dipan-hw1#

dipan-hw1# sh run interface eth1/34

!Command: show running-config interface Ethernet1/34 !Running configuration last done at: Mon Jul 29 00:09:07 2019

!Time: Mon Jul 29 04:58:19 2019

version 9.3(1) Bios:version 05.19

interface Ethernet1/34 ip address 192.168.100.1/30 no shutdown

dipan-hw1#

dipan-hw1# sh interface eth1/34
Ethernet1/34 is up
admin state is up, Dedicated Interface
Hardware: 100/1000/10000/25000 Ethernet, address: 00de.fb9d.0ea7 (bia 00de.fb9d.0ec9)
Internet Address is 192.168.100.1/30
MTU 1500 bytes, BW 10000000 Kbit, DLY 10 usec reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, medium is broadcast full-duplex, 10 Gb/s, media type is 10G
Beacon is turned off
Auto-Negotiation is turned on FEC mode is Auto

Input flow-control is off, output flow-control is off Auto-mdix is turned off Rate mode is dedicated Switchport monitor is off EtherType is 0x8100 EEE (efficient-ethernet): n/a admin fec state is auto, oper fec state is off Last link flapped 2d09h Last clearing of "show interface" counters never 3 interface resets Load-Interval #1: 30 seconds 30 seconds input rate 1304 bits/sec. 0 packets/sec 30 seconds output rate 1304 bits/sec, 0 packets/sec input rate 1.30 Kbps, 0 pps; output rate 1.30 Kbps, 0 pps Load-Interval #2: 5 minute (300 seconds) 300 seconds input rate 1192 bits/sec, 1 packets/sec 300 seconds output rate 1192 bits/sec, 1 packets/sec input rate 1.19 Kbps, 1 pps; output rate 1.19 Kbps, 1 pps RX 132840 unicast packets 17416 multicast packets 8 broadcast packets 150264 input packets 23731944 bytes 0 jumbo packets 0 storm suppression bytes 0 runts 0 giants 0 CRC 0 no buffer 0 input error 0 short frame 0 overrun 0 underrun 0 ignored 0 watchdog 0 bad etype drop 0 bad proto drop 0 if down drop 0 input with dribble 0 input discard 0 Rx pause TX 132887 unicast packets 18103 multicast packets 10 broadcast packets 151000 output packets 23807179 bytes 0 jumbo packets 0 output error 0 collision 0 deferred 0 late collision 0 lost carrier 0 no carrier 0 babble 0 output discard 0 Tx pause dipan-hw1#

dipan-hw1# sh run interface eth1/33

!Command: show running-config interface Ethernet1/33 !Running configuration last done at: Mon Jul 29 00:09:07 2019

!Time: Mon Jul 29 04:59:04 2019

version 9.3(1) Bios:version 05.19

interface Ethernet1/33 switchport switchport access vlan 1000 no shutdown

dipan-hw1# sh interface eth1/33 Ethernet1/33 is up admin state is up, Dedicated Interface Hardware: 100/1000/10000/25000 Ethernet, address: 00de.fb9d.0ec8 (bia 00de.fb9d.0ec8) MTU 1500 bytes, BW 10000000 Kbit, DLY 10 usec reliability 255/255, txload 1/255, rxload 1/255 Encapsulation ARPA, medium is broadcast Port mode is access full-duplex, 10 Gb/s, media type is 10G Beacon is turned off Auto-Negotiation is turned on FEC mode is Auto Input flow-control is off, output flow-control is off Auto-mdix is turned off Rate mode is dedicated Switchport monitor is off EtherType is 0x8100 EEE (efficient-ethernet): n/a admin fec state is auto, oper fec state is off Last link flapped 2d17h Last clearing of "show interface" counters never 1 interface resets Load-Interval #1: 30 seconds 30 seconds input rate 808 bits/sec, 0 packets/sec 30 seconds output rate 1152 bits/sec, 1 packets/sec input rate 808 bps, 0 pps; output rate 1.15 Kbps, 1 pps Load-Interval #2: 5 minute (300 seconds) 300 seconds input rate 792 bits/sec, 1 packets/sec 300 seconds output rate 1048 bits/sec, 1 packets/sec input rate 792 bps, 1 pps; output rate 1.05 Kbps, 1 pps RX 131965 unicast packets 7936 multicast packets 668 broadcast packets 140569 input packets 14249714 bytes 0 jumbo packets 0 storm suppression bytes 0 runts 0 giants 0 CRC 0 no buffer 0 input error 0 short frame 0 overrun 0 underrun 0 ignored 0 watchdog 0 bad etype drop 0 bad proto drop 0 if down drop 0 input with dribble 0 input discard 0 Rx pause TX 131906 unicast packets 129960 multicast packets 138 broadcast packets 262000 output packets 24125810 bytes 0 jumbo packets 0 output error 0 collision 0 deferred 0 late collision 0 lost carrier 0 no carrier 0 babble 0 output discard

dipan-hw1#

0 Tx pause

dipan-hw1# sh interface nve 1

```
admin state is up, Hardware: NVE
 MTU 9216 bytes
 Encapsulation VXLAN
 Auto-mdix is turned off
 RX
  ucast: 128661 pkts, 19419634 bytes - mcast: 176 pkts, 20942 bytes
 TX
  ucast: 128659 pkts, 19419406 bytes - mcast: 269 pkts, 34265 bytes
dipan-hw1#
dipan-hw1# sh nve peers
Interface Peer-IP
                               State LearnType Uptime Router-Mac
                             Up DP
nve1
       2.2.2.2
                                        2d08h n/a
dipan-hw1# sh nve vni
Codes: CP - Control Plane
                          DP - Data Plane
   UC - Unconfigured
                        SA - Suppress ARP
   SU - Suppress Unknown Unicast
   Xconn - Crossconnect
   MS-IR - Multisite Ingress Replication
Interface VNI
              Multicast-group State Mode Type [BD/VRF]
                                                       Flags
-------
       5000 UnicastStatic Up DP L2 [1000]
nve1
dipan-hw1# sh mac address-table
Legend:
    * - primary entry, G - Gateway MAC, (R) - Routed MAC, O - Overlay MAC
    age - seconds since last seen,+ - primary entry using vPC Peer-Link,
    (T) - True, (F) - False, C - ControlPlane MAC, ~ - vsan
 VLAN MAC Address Type age Secure NTFY Ports
------
* 1000 000c.2942.b0f2 dynamic 0 F F nve1(2.2.2.2)
* 1000 000c.298b.746d dynamic 0 F F Eth1/33
      00de.fb9d.0ea7 static - F F sup-eth1(R)
dipan-hw1#
SW2:
====
```

dipan-hw2# sh run nv overlay

nve1 is up

!Command: show running-config nv overlay

!Running configuration last done at: Mon Jul 29 00:02:23 2019

!Time: Mon Jul 29 05:02:09 2019

version 9.3(1) Bios:version 05.31 feature nv overlay

interface nve1 no shutdown source-interface loopback0 member vni 5000 ingress-replication protocol static peer-ip 1.1.1.1

dipan-hw2#

dipan-hw2# sh run interface loopback 0

!Command: show running-config interface loopback0 !Running configuration last done at: Mon Jul 29 00:02:23 2019

!Time: Mon Jul 29 05:02:42 2019

version 9.3(1) Bios:version 05.31

interface loopback0 ip address 2.2.2.2/32

dipan-hw2# sh interface loopback 0
loopback0 is up
admin state is up,
Hardware: Loopback
Internet Address is 2.2.2.2/32
MTU 1500 bytes, BW 8000000 Kbit, DLY 5000 usec
reliability 255/255, txload 1/255, rxload 1/255
Encapsulation LOOPBACK, medium is broadcast
Auto-mdix is turned off
15 packets input 1260 bytes
0 multicast frames 0 compressed

0 input errors 0 frame 0 overrun 0 fifo 10 packets output 840 bytes 0 underruns 0 output errors 0 collisions 0 fifo

0 out_carrier_errors

dipan-hw2# sh ip route
IP Route Table for VRF "default"

'*' denotes best ucast next-hop

'**' denotes best mcast next-hop

'[x/y]' denotes [preference/metric]

'%<string>' in via output denotes VRF <string>

1.1.1.1/32, ubest/mbest: 1/0

*via 192.168.100.1, [1/0], 2d08h, static

2.2.2.2/32, ubest/mbest: 2/0, attached

*via 2.2.2.2, Lo0, [0/0], 2d09h, local

*via 2.2.2.2, Lo0, [0/0], 2d09h, direct

192.168.100.0/30, ubest/mbest: 1/0, attached

*via 192.168.100.2, Eth1/34, [0/0], 2d09h, direct

192.168.100.2/32, ubest/mbest: 1/0, attached

*via 192.168.100.2, Eth1/34, [0/0], 2d09h, local

dipan-hw2# sh lldp neighbors interface eth1/34 Capability codes:

(R) Router, (B) Bridge, (T) Telephone, (C) DOCSIS Cable Device

(W) WLAN Access Point, (P) Repeater, (S) Station, (O) Other

Device ID Local Intf Hold-time Capability Port ID

dipan-hw1 Eth1/34 120 BR Ethernet1/34

Total entries displayed: 1

dipan-hw2#

dipan-hw2# sh run interface eth1/34

!Command: show running-config interface Ethernet1/34

!Running configuration last done at: Mon Jul 29 00:02:23 2019

!Time: Mon Jul 29 05:06:42 2019

version 9.3(1) Bios:version 05.31

interface Ethernet1/34 ip address 192.168.100.2/30

no shutdown

dipan-hw2# sh interface eth1/34

Ethernet1/34 is up

admin state is up, Dedicated Interface

Hardware: 100/1000/10000/25000 Ethernet, address: 00de.fb9d.7987 (bia

00de.fb9d.79a9)

Internet Address is 192.168.100.2/30

MTU 1500 bytes, BW 10000000 Kbit, DLY 10 usec

reliability 255/255, txload 1/255, rxload 1/255

Encapsulation ARPA, medium is broadcast

full-duplex, 10 Gb/s, media type is 10G

Beacon is turned off

Auto-Negotiation is turned on FEC mode is Auto

Input flow-control is off, output flow-control is off

Auto-mdix is turned off

Rate mode is dedicated

Switchport monitor is off

EtherType is 0x8100

EEE (efficient-ethernet): n/a

admin fec state is auto, oper fec state is off

Last link flapped 2d09h

Last clearing of "show interface" counters never

3 interface resets

Load-Interval #1: 30 seconds

30 seconds input rate 1272 bits/sec, 0 packets/sec

30 seconds output rate 1272 bits/sec, 0 packets/sec

input rate 1.27 Kbps, 0 pps; output rate 1.27 Kbps, 0 pps

Load-Interval #2: 5 minute (300 seconds)

300 seconds input rate 1208 bits/sec, 0 packets/sec

300 seconds output rate 1208 bits/sec, 0 packets/sec

input rate 1.21 Kbps, 0 pps; output rate 1.21 Kbps, 0 pps

RX

133420 unicast packets 18138 multicast packets 11 broadcast packets

151569 input packets 23897111 bytes

0 jumbo packets 0 storm suppression bytes

0 runts 0 giants 0 CRC 0 no buffer

0 input error 0 short frame 0 overrun 0 underrun 0 ignored

0 watchdog 0 bad etype drop 0 bad proto drop 0 if down drop

0 input with dribble 0 input discard

0 Rx pause

TX

133373 unicast packets 17452 multicast packets 9 broadcast packets

150834 output packets 23821944 bytes

0 jumbo packets

0 output error 0 collision 0 deferred 0 late collision

0 lost carrier 0 no carrier 0 babble 0 output discard

0 Tx pause

dipan-hw2#

dipan-hw2# sh run interface eth1/33

!Command: show running-config interface Ethernet1/33

!Running configuration last done at: Mon Jul 29 00:02:23 2019

!Time: Mon Jul 29 05:06:55 2019

version 9.3(1) Bios:version 05.31

interface Ethernet1/33

switchport

switchport access vlan 1000

no shutdown

dipan-hw2# sh interface eth1/33

Ethernet1/33 is up

admin state is up, Dedicated Interface

Hardware: 100/1000/10000/25000 Ethernet, address: 00de.fb9d.79a8 (bia

00de.fb9d.79a8)

MTU 1500 bytes, BW 10000000 Kbit, DLY 10 usec

reliability 255/255, txload 1/255, rxload 1/255

Encapsulation ARPA, medium is broadcast

Port mode is access full-duplex, 10 Gb/s, media type is 10G Beacon is turned off Auto-Negotiation is turned on FEC mode is Auto Input flow-control is off, output flow-control is off Auto-mdix is turned off Rate mode is dedicated Switchport monitor is off EtherType is 0x8100 EEE (efficient-ethernet) : n/a admin fec state is auto, oper fec state is off Last link flapped 2d17h Last clearing of "show interface" counters never 1 interface resets Load-Interval #1: 30 seconds 30 seconds input rate 856 bits/sec, 0 packets/sec 30 seconds output rate 1280 bits/sec, 1 packets/sec input rate 856 bps, 0 pps; output rate 1.28 Kbps, 1 pps Load-Interval #2: 5 minute (300 seconds) 300 seconds input rate 840 bits/sec. 0 packets/sec 300 seconds output rate 1064 bits/sec, 1 packets/sec input rate 840 bps, 0 pps; output rate 1.06 Kbps, 1 pps RX 132498 unicast packets 7845 multicast packets 1641 broadcast packets 141983 input packets 14849082 bytes 0 jumbo packets 0 storm suppression bytes 0 runts 0 giants 0 CRC 0 no buffer 0 input error 0 short frame 0 overrun 0 underrun 0 ignored 0 watchdog 0 bad etype drop 0 bad proto drop 0 if down drop 0 input with dribble 0 input discard 0 Rx pause TX 132434 unicast packets 130229 multicast packets 618 broadcast packets 263277 output packets 24235441 bytes 0 jumbo packets 0 output error 0 collision 0 deferred 0 late collision 0 lost carrier 0 no carrier 0 babble 0 output discard 0 Tx pause dipan-hw2# dipan-hw2# sh nve peers Interface Peer-IP State LearnType Uptime Router-Mac Up DP 2d08h n/a nve1 1.1.1.1 dipan-hw2# sh nve v vni vrf vxlan-params dipan-hw2# sh nve vni

Codes: CP - Control Plane DP - Data Plane

UC - Unconfigured SA - Suppress ARP SU - Suppress Unknown Unicast Xconn - Crossconnect MS-IR - Multisite Ingress Replication

Interface VNI		Multicast-group	State Mode Type [BD/VRF]		Flags	
nve1	5000	 UnicastStatic	 Up	DP	L2 [1000]	