Show Command Outputs

This appendix includes the following sections:

Show Command Outputs

The output of these **show** commands varies depending on whether you are in the base scope or the controller scope:

- **show controller** *controller-number* **accounting log**
- **show interface**
- **show interface brief**
- **show interface ethernet switchport**
- **show interface ethernet trunk**
- **show interface port-channel switchport**
- **show interface port-channel trunk**
- **show interface switchport**
- **show interface trunk**
- **show mac address table**
- **show port-channel summary**
- **show running-config**
- **show vlan**
- **show vlan brief**
- **show vpc**
- **show vpc consistency-parameters global**

This appendix provides sample outputs for these commands in both the base scope and the controller scope so that you can see the differences.

show controller accounting log

Base scope and controller scope:

```
switch# show controller 1 accounting log

2018-04-23 23:07:39,763 uWSGIWorker1Core1 - 10.23.237.22 setBdAssociations(
2018-04-23 23:07:39,770 uWSGIWorker1Core1 - 10.23.237.22 vlan-201,vxlan-10002
2018-04-23 23:07:39,770 uWSGIWorker1Core1 - 10.23.237.22 vlan-203,vxlan-10004
2018-04-23 23:07:39,770 uWSGIWorker1Core1 - 10.23.237.22 vlan-202,vxlan-10003
2018-04-23 23:07:39,771 uWSGIWorker1Core1 - 10.23.237.22 )
2018-04-23 23:07:39,945 uWSGIWorker1Core1 - 10.23.237.22
setBdProperties(vlan-201,replicationServer,0.0.0.0,0,0,None)
2018-04-23 23:07:39,946 uWSGIWorker1Core1 - setBdProperties data= { "aggregateBdEntry": {
"attributes": { "vlan": "vlan-201","replicationMode": "replicationServer","gipo":
"0.0.0.0","suppressArp": "0","isL3": "0","rn": "vlan-[vlan-201]","status": "" }   }   }
2018-04-23 23:07:40,057 uWSGIWorker1Core1 - 10.23.237.22
setBdProperties(vlan-203,replicationServer,0.0.0.0,0,0,None)
2018-04-23 23:07:40,057 uWSGIWorker1Core1 - setBdProperties data= { "aggregateBdEntry": {
"attributes": { "vlan": "vlan-203","replicationMode": "replicationServer","gipo":
"0.0.0.0","suppressArp": "0","isL3": "0","rn": "vlan-[vlan-203]","status": "" }   }   }
2018-04-23 23:07:40,183 MainThread - 10.23.237.22
setBdProperties(vlan-202,replicationServer,0.0.0.0,0,0,None)
2018-04-23 23:07:40,184 MainThread - setBdProperties data= { "aggregateBdEntry": {
"attributes": { "vlan": "vlan-202","replicationMode": "replicationServer","gipo": "0.0.0.
0","suppressArp": "0","isL3": "0","rn": "vlan-[vlan-202]","status": "" }   }   }
2018-04-23 23:07:40,302 uWSGIWorker1Core1 - 10.23.237.22 setIntfAssociations(
2018-04-23 23:07:40,303 uWSGIWorker1Core1 - 10.23.237.22 eth1/10/1,vlan-202
2018-04-23 23:07:40,303 uWSGIWorker1Core1 - 10.23.237.22 eth1/10/1,vlan-203
2018-04-23 23:07:40,304 uWSGIWorker1Core1 - 10.23.237.22 eth1/10/1,vlan-201
2018-04-23 23:07:40,304 uWSGIWorker1Core1 - 10.23.237.22 )
2018-04-23 23:07:40,872 uWSGIWorker1Core1 - 10.23.237.22 setTunnelIntfEntries(
2018-04-23 23:07:40,872 uWSGIWorker1Core1 - 10.23.237.22 vxlanipv4,1.1.11.4,default,multicast
2018-04-23 23:07:40,872 uWSGIWorker1Core1 - 10.23.237.22 vxlanipv4,1.1.11.3,default,multicast
2018-04-23 23:07:40,873 uWSGIWorker1Core1 - 10.23.237.22 )
2018-04-23 23:07:42,452 uWSGIWorker1Core1 -  setRemoteBfdEntry(1.1.11.3,1.1.11.3,
00:50:56:65:a7:b7, 100, 300)
2018-04-23 23:07:42,453 uWSGIWorker1Core1 -  dn=sys/tunnelIntfTable/intf-[1.1.11.3]/remoteBfd

2018-04-23 23:07:42,570 uWSGIWorker1Core1 -  setRemoteBfdEntry(1.1.11.4,1.1.11.4,
00:50:56:68:56:3b, 100, 300)
2018-04-23 23:07:42,570 uWSGIWorker1Core1 -  dn=sys/tunnelIntfTable/intf-[1.1.11.4]/remoteBfd

2018-04-23 23:07:43,108 MainThread - 10.23.237.22 setMacEntries(
2018-04-23 23:07:43,108 MainThread - 10.23.237.22 00:00:aa:02:00:02,vlan-202,1.1.101.5
2018-04-23 23:07:43,109 MainThread - 10.23.237.22 )
```

show interface

Note The output of this command in the base scope is very lengthy. Ellipses (...) are used to indicate information that appears in the output but is not displayed in this example.

Base scope:

```
switch# show interface
mgmt0 is up
admin state is up,
  Hardware: GigabitEthernet, address: f8c2.8823.2d88 (bia f8c2.8823.2d88)
  Internet Address is 172.31.205.11/21
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec
  reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, medium is broadcast
  full-duplex, 1000 Mb/s
  Auto-Negotiation is turned on
  Auto-mdix is turned off
  EtherType is 0x0000
  1 minute input rate 29688 bits/sec, 51 packets/sec
  1 minute output rate 376 bits/sec, 0 packets/sec
  Rx
    3605590 input packets 3061 unicast packets 1083467 multicast packets
    2519062 broadcast packets 299578144 bytes
  Tx
    82771 output packets 79418 unicast packets 1726 multicast packets
    1627 broadcast packets 6306308 bytes

Ethernet1/1 is down (Administratively down)
admin state is down, Dedicated Interface
  Hardware: 1000/10000 Ethernet, address: f8c2.8823.2d90 (bia f8c2.8823.2d90)
  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
  auto-duplex, auto-speed, media type is 10G
  Beacon is turned off
  Auto-Negotiation is turned on
  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
  Last link flapped never
  Last clearing of "show interface" counters never
  0 interface resets
  30 seconds input rate 0 bits/sec, 0 packets/sec
  30 seconds output rate 0 bits/sec, 0 packets/sec
  Load-Interval #2: 5 minute (300 seconds)
    input rate 0 bps, 0 pps; output rate 0 bps, 0 pps
  RX
    220 unicast packets  0 multicast packets  0 broadcast packets
    220 input packets  309760 bytes
    0 jumbo packets  0 storm suppression packets
    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
    220 unicast packets  0 multicast packets  0 broadcast packets
    220 output packets  309760 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
...
Ethernet1/23 is up
...
Ethernet1/54 is down (XCVR not inserted)
```

Show Command Outputs

```
...
port-channel107 is up
admin state is up,
  Hardware: Port-Channel, address: f8c2.8823.2da4 (bia f8c2.8823.2da4)
  MTU 1500 bytes, BW 20000000 Kbit, DLY 10 usec
  reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, medium is broadcast
  Port mode is trunk
  full-duplex, 10 Gb/s
  Input flow-control is off, output flow-control is off
  Auto-mdix is turned off
  Switchport monitor is off
  EtherType is 0x8100
  Members in this channel: Eth1/21, Eth1/22
  Last clearing of "show interface" counters never
  1 interface resets
  30 seconds input rate 15939960 bits/sec, 1996 packets/sec
  30 seconds output rate 20722240 bits/sec, 2580 packets/sec
  Load-Interval #2: 5 minute (300 seconds)
    input rate 15.94 Mbps, 1.99 Kpps; output rate 20.72 Mbps, 2.55 Kpps
  RX
    206843476 unicast packets  13820 multicast packets  0 broadcast packets
    206857296 input packets  206019253084 bytes
    0 jumbo packets  0 storm suppression packets
    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
    229324224 unicast packets  62096 multicast packets  41152079 broadcast packe
ts
    270538399 output packets  269402543354 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

loopback0 is up
admin state is up,
  Hardware: Loopback
  Internet Address is 99.1.1.2/32
  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
    35492 packets input 36343808 bytes
    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

loopback1 is up
admin state is up,
  Hardware: Loopback
  Internet Address is 100.1.1.3/32
  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 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

Vlan1 is down (Administratively down), line protocol is down, autostate enabled
  Hardware is EtherSVI, address is  f8c2.8823.2d8f
  MTU 1500 bytes, BW 1000000 Kbit, DLY 10 usec,
   reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive not supported
  ARP type: ARPA
  Last clearing of "show interface" counters never
  L3 in Switched:
    ucast: 0 pkts, 0 bytes

nve1 is up
admin state is up,  Hardware: NVE
  MTU 9216 bytes
  Encapsulation VXLAN
  Auto-mdix is turned off
  RX
    ucast: 565400905 pkts, 589147743010 bytes - mcast: 41162020 pkts, 42890824840 bytes
  TX
    ucast: 587275760 pkts, 611941198124 bytes - mcast: 0 pkts, 0 bytes
```

Controller scope:

```
switch%%ctrlr-1# show interface
Ethernet1/21 is up
admin state is up, Dedicated Interface
  Belongs to Po107
  Hardware: 1000/10000 Ethernet, address: f8c2.8823.2da4 (bia f8c2.8823.2da4)
  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 trunk
  full-duplex, 10 Gb/s, media type is 10G
  Beacon is turned off
  Auto-Negotiation is turned on
  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
  Last link flapped 1d04h
  Last clearing of "show interface" counters never
  1 interface resets
  30 seconds input rate 3983264 bits/sec, 497 packets/sec
  30 seconds output rate 10428352 bits/sec, 1298 packets/sec
  Load-Interval #2: 5 minute (300 seconds)
    input rate 3.98 Mbps, 493 pps; output rate 10.43 Mbps, 1.29 Kpps
  RX
    51840455 unicast packets  6928 multicast packets  0 broadcast packets
    51847383 input packets  51634672778 bytes
    0 jumbo packets  0 storm suppression packets
    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
    116047939 unicast packets  57054 multicast packets  20586016 broadcast packets
    136691009 output packets  136094691284 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
...
Ethernet1/22 is up
...
Ethernet1/23 is up
...
Ethernet1/24 is up
...
port-channel107 is up
admin state is up,
  Hardware: Port-Channel, address: f8c2.8823.2da4 (bia f8c2.8823.2da4)
  MTU 1500 bytes, BW 20000000 Kbit, DLY 10 usec
  reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, medium is broadcast
  Port mode is trunk
  full-duplex, 10 Gb/s
  Input flow-control is off, output flow-control is off
  Auto-mdix is turned off
  Switchport monitor is off
  EtherType is 0x8100
  Members in this channel: Eth1/21, Eth1/22
  Last clearing of "show interface" counters never
  1 interface resets
  30 seconds input rate 15932608 bits/sec, 1992 packets/sec
  30 seconds output rate 20713512 bits/sec, 2581 packets/sec
  Load-Interval #2: 5 minute (300 seconds)
    input rate 15.94 Mbps, 1.98 Kpps; output rate 20.72 Mbps, 2.55 Kpps
  RX
    207364096 unicast packets  13856 multicast packets  0 broadcast packets
    207377952 input packets  206537798812 bytes
    0 jumbo packets  0 storm suppression packets
    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
    229896908 unicast packets  62250 multicast packets  41256210 broadcast packets
    271215368 output packets  270076671212 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
```

show interface brief

Base scope:

```
switch# show interface brief
--------------------------------------------------------------------------------
Port   VRF          Status IP Address                              Speed    MTU
--------------------------------------------------------------------------------
mgmt0  --           up     172.31.205.11                           1000     1500

--------------------------------------------------------------------------------
Ethernet      VLAN    Type Mode   Status  Reason                   Speed     Port
Interface                                                                    Ch #
--------------------------------------------------------------------------------
Eth1/1        1       eth  access down    Administratively down      auto(D) --
```

Show Command Outputs

```
Eth1/2        1       eth  access down    XCVR not inserted          auto(D) --
Eth1/3        1       eth  access down    Administratively down      auto(D) --
Eth1/4        1       eth  access down    XCVR not inserted          auto(D) --
Eth1/5        1       eth  access down    Administratively down      auto(D) --
Eth1/6        1       eth  access down    XCVR not inserted          auto(D) --
Eth1/7        1       eth  access down    XCVR not inserted          auto(D) --
Eth1/8        1       eth  access down    XCVR not inserted          auto(D) --
Eth1/9        1       eth  access down    XCVR not inserted          auto(D) --
Eth1/10       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/11       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/12       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/13       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/14       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/15       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/16       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/17       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/18       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/19       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/20       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/21       1       eth  trunk  up      none                        10G(D) 107
Eth1/22       1       eth  trunk  up      none                        10G(D) 107
Eth1/23       1       eth  trunk  up      none                        10G(D) --
Eth1/24       1       eth  trunk  up      none                       1000(D) --
Eth1/25       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/26       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/27       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/28       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/29       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/30       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/31       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/32       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/33       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/34       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/35       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/36       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/37       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/38       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/39       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/40       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/41       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/42       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/43       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/44       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/45       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/46       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/47       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/48       1       eth  access down    XCVR not inserted          auto(D) --
Eth1/49       --      eth  routed up      none                        40G(D) 1
Eth1/50       --      eth  routed up      none                        40G(D) 1
Eth1/51       --      eth  routed up      none                        40G(D) 2
Eth1/52       --      eth  routed up      none                        40G(D) 2
Eth1/53       1       eth  access down    Link not connected         auto(D) --
Eth1/54       1       eth  access down    XCVR not inserted          auto(D) --

--------------------------------------------------------------------------------
Port-channel VLAN    Type Mode   Status  Reason                   Speed   Protocol
Interface
--------------------------------------------------------------------------------
Po1           --      eth  routed up      none                     a-40G(D)  lacp
Po2           --      eth  routed up      none                     a-40G(D)  lacp
Po107         1       eth  trunk  up      none                     a-10G(D)  lacp

--------------------------------------------------------------------------------
Interface     Status     Description
```

```
--------------------------------------------------------------------------------
Lo0           up         --
Lo1           up         --

--------------------------------------------------------------------------------
Interface Secondary VLAN(Type)                    Status Reason
--------------------------------------------------------------------------------
Vlan1     --                                      down   Administratively down

--------------------------------------------------------------------------------
Port           Status Reason          MTU
--------------------------------------------------------------------------------
nve1           up     none            9216
```

Controller scope:

```
switch%%ctrlr-1# show interface brief
--------------------------------------------------------------------------------
Ethernet      VLAN    Type Mode   Status  Reason                   Speed     Port
Interface                                                                    Ch #
--------------------------------------------------------------------------------
Eth1/21       1       eth  trunk  up      none                       10G(D) 107
Eth1/22       1       eth  trunk  up      none                       10G(D) 107
Eth1/23       1       eth  trunk  up      none                       10G(D) --
Eth1/24       1       eth  trunk  up      none                      1000(D) --

--------------------------------------------------------------------------------
Port-channel VLAN    Type Mode   Status  Reason                   Speed   Protocol
Interface
--------------------------------------------------------------------------------
Po107        1       eth  trunk  up      none                    a-10G(D)  lacp
```

show interface ethernet switchport

Base scope:

```
switch# show interface ethernet 1/24 switchport
Name: Ethernet1/24
  Switchport: Enabled
  Switchport Monitor: Not enabled
  Switchport Block Multicast: Not enabled
  Switchport Block Unicast: Not enabled
  Operational Mode: trunk
  Access Mode VLAN: 1 (default)
  Trunking Native Mode VLAN: 1 (default)
  Trunking VLANs Allowed: 1-4094
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
  Operational private-vlan: none
```

Controller scope:

```
switch%%ctrlr-1# show interface ethernet 1/24 switchport
Name: Ethernet1/24
  Switchport: Enabled
```

```
  Switchport Monitor: Not enabled
  Switchport Block Multicast: Not enabled
  Switchport Block Unicast: Not enabled
  Operational Mode: trunk
  Access Mode VLAN: - (Vlan not created)
  Trunking Native Mode VLAN: - (Vlan not created)
  Trunking VLANs Allowed: 1001-2000
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
  Operational private-vlan: none
```

show interface ethernet trunk

Base scope:

```
switch# show interface ethernet 1/24 trunk
--------------------------------------------------------------------------------
Port          Native  Status        Port
              Vlan                  Channel
--------------------------------------------------------------------------------
Eth1/24       1       trunking      --

--------------------------------------------------------------------------------
Port          Vlans Allowed on Trunk
--------------------------------------------------------------------------------
Eth1/24       1-4094

--------------------------------------------------------------------------------
Port          Vlans Err-disabled on Trunk
--------------------------------------------------------------------------------
Eth1/24       none

--------------------------------------------------------------------------------
Port          STP Forwarding
--------------------------------------------------------------------------------
Eth1/24       1,101-150,1001-2000

--------------------------------------------------------------------------------
Port          Vlans in spanning tree forwarding state and not pruned
--------------------------------------------------------------------------------
Feature VTP is not enabled
Eth1/24       1,101-150,1001-2000
```

Controller scope:

```
switch%%ctrlr-1# show interface ethernet 1/24 trunk
--------------------------------------------------------------------------------
Port          Native  Status        Port
              Vlan                  Channel
--------------------------------------------------------------------------------
Eth1/24       -      trunking      --

--------------------------------------------------------------------------------
Port          Vlans Allowed on Trunk
--------------------------------------------------------------------------------
```

```
Eth1/24       1001-2000

--------------------------------------------------------------------------------
Port          Vlans Err-disabled on Trunk
--------------------------------------------------------------------------------
Eth1/24       none

--------------------------------------------------------------------------------
Port          STP Forwarding
--------------------------------------------------------------------------------
Eth1/24       1001-2000

--------------------------------------------------------------------------------
Port          Vlans in spanning tree forwarding state and not pruned
--------------------------------------------------------------------------------
Eth1/24       1001-2000
```

show interface port-channel switchport

Base scope:

```
switch# show interface port-channel 107 switchport
Name: port-channel107
  Switchport: Enabled
  Switchport Monitor: Not enabled
  Switchport Block Multicast: Not enabled
  Switchport Block Unicast: Not enabled
  Operational Mode: trunk
  Access Mode VLAN: 1 (default)
  Trunking Native Mode VLAN: 1 (default)
  Trunking VLANs Allowed: 1-4094
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
  Operational private-vlan: none
```

Controller scope:

```
switch%%ctrlr-1# show interface port-channel 107 switchport
Name: port-channel107
  Switchport: Enabled
  Switchport Monitor: Not enabled
  Switchport Block Multicast: Not enabled
  Switchport Block Unicast: Not enabled
  Operational Mode: trunk
  Access Mode VLAN: - (Vlan not created)
  Trunking Native Mode VLAN: - (Vlan not created)
  Trunking VLANs Allowed: 1001-2000
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
```

```
  Operational private-vlan: none
```

show interface port-channel trunk

Base scope:

```
switch# show interface port-channel 107 trunk
--------------------------------------------------------------------------------
Port          Native  Status        Port
              Vlan                  Channel
--------------------------------------------------------------------------------
Po107         1       trunking      --

--------------------------------------------------------------------------------
Port          Vlans Allowed on Trunk
--------------------------------------------------------------------------------
Po107         1-4094

--------------------------------------------------------------------------------
Port          Vlans Err-disabled on Trunk
--------------------------------------------------------------------------------
Po107         none

--------------------------------------------------------------------------------
Port          STP Forwarding
--------------------------------------------------------------------------------
Po107         1,101-150,1001-2000

--------------------------------------------------------------------------------
Port          Vlans in spanning tree forwarding state and not pruned
--------------------------------------------------------------------------------
Feature VTP is not enabled
Po107         1,101-150,1001-2000
```

Controller scope:

```
switch%%ctrlr-1# show interface port-channel 107 trunk
--------------------------------------------------------------------------------
Port          Native  Status        Port
              Vlan                  Channel
--------------------------------------------------------------------------------
Po107         -      trunking      --

--------------------------------------------------------------------------------
Port          Vlans Allowed on Trunk
--------------------------------------------------------------------------------
Po107         1001-2000

--------------------------------------------------------------------------------
Port          Vlans Err-disabled on Trunk
--------------------------------------------------------------------------------
Po107         none

--------------------------------------------------------------------------------
Port          STP Forwarding
--------------------------------------------------------------------------------
Po107         1001-2000

--------------------------------------------------------------------------------
Port          Vlans in spanning tree forwarding state and not pruned
--------------------------------------------------------------------------------
```

```
Po107         1001-2000
```

show interface switchport

Note The output of this command in the base scope is very lengthy. Ellipses (...) are used to indicate information that appears in the output but is not displayed in this example.

Base scope:

```
switch# show interface switchport
Name: Ethernet1/1
  Switchport: Enabled
  Switchport Monitor: Not enabled
  Switchport Block Multicast: Not enabled
  Switchport Block Unicast: Not enabled
  Operational Mode: access
  Access Mode VLAN: 1 (default)
  Trunking Native Mode VLAN: 1 (default)
  Trunking VLANs Allowed: 1-4094
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
  Operational private-vlan: none
Name: Ethernet1/2
...
Name: Ethernet1/24
  Switchport: Enabled
  Switchport Monitor: Not enabled
  Switchport Block Multicast: Not enabled
  Switchport Block Unicast: Not enabled
  Operational Mode: trunk
  Access Mode VLAN: 1 (default)
  Trunking Native Mode VLAN: 1 (default)
  Trunking VLANs Allowed: 1-4094
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
  Operational private-vlan: none
...
Name: Ethernet1/54
  Switchport: Enabled
  Switchport Monitor: Not enabled
  Switchport Block Multicast: Not enabled
  Switchport Block Unicast: Not enabled
  Operational Mode: access
  Access Mode VLAN: 1 (default)
  Trunking Native Mode VLAN: 1 (default)
  Trunking VLANs Allowed: 1-4094
```

```
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
  Operational private-vlan: none
Name: port-channel107
  Switchport: Enabled
  Switchport Monitor: Not enabled
  Switchport Block Multicast: Not enabled
  Switchport Block Unicast: Not enabled
  Operational Mode: trunk
  Access Mode VLAN: 1 (default)
  Trunking Native Mode VLAN: 1 (default)
  Trunking VLANs Allowed: 1-4094
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
  Operational private-vlan: none
```

Controller scope:

```
switch%%ctrlr-1# show interface switchport
 Name: Ethernet1/21
  Switchport: Enabled
  Switchport Monitor: Not enabled
  Switchport Block Multicast: Not enabled
  Switchport Block Unicast: Not enabled
  Operational Mode: trunk
  Access Mode VLAN: - (Vlan not created)
  Trunking Native Mode VLAN: - (Vlan not created)
  Trunking VLANs Allowed: 1001-2000
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
  Operational private-vlan: none
Name: Ethernet1/22
...
Name: Ethernet1/24
  Switchport: Enabled
  Switchport Monitor: Not enabled
  Switchport Block Multicast: Not enabled
  Switchport Block Unicast: Not enabled
  Operational Mode: trunk
  Access Mode VLAN: - (Vlan not created)
  Trunking Native Mode VLAN: - (Vlan not created)
  Trunking VLANs Allowed: 1001-2000
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
```

```
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
  Operational private-vlan: none
Name: port-channel107
  Switchport: Enabled
  Switchport Monitor: Not enabled
  Switchport Block Multicast: Not enabled
  Switchport Block Unicast: Not enabled
  Operational Mode: trunk
  Access Mode VLAN: - (Vlan not created)
  Trunking Native Mode VLAN: - (Vlan not created)
  Trunking VLANs Allowed: 1001-2000
  Administrative private-vlan primary host-association: none
  Administrative private-vlan secondary host-association: none
  Administrative private-vlan primary mapping: none
  Administrative private-vlan secondary mapping: none
  Administrative private-vlan trunk native VLAN: none
  Administrative private-vlan trunk encapsulation: dot1q
  Administrative private-vlan trunk normal VLANs: none
  Administrative private-vlan trunk private VLANs: none
  Operational private-vlan: none
```

show interface trunk

Base scope:

```
switch# show interface trunk
--------------------------------------------------------------------------------
Port          Native  Status        Port
              Vlan                  Channel
--------------------------------------------------------------------------------
Eth1/21       1       trnk-bndl     Po107
Eth1/22       1       trnk-bndl     Po107
Eth1/23       1       trunking      --
Eth1/24       1       trunking      --
Po107         1       trunking      --

--------------------------------------------------------------------------------
Port          Vlans Allowed on Trunk
--------------------------------------------------------------------------------
Eth1/21       1-4094
Eth1/22       1-4094
Eth1/23       1-4094
Eth1/24       1-4094
Po107         1-4094

--------------------------------------------------------------------------------
Port          Vlans Err-disabled on Trunk
--------------------------------------------------------------------------------
Eth1/21       none
Eth1/22       none
Eth1/23       none
Eth1/24       none
Po107         none

--------------------------------------------------------------------------------
Port          STP Forwarding
--------------------------------------------------------------------------------
Eth1/21       none
Eth1/22       none
```

```
Eth1/23       1,101-150,1001-2000
Eth1/24       1,101-150,1001-2000
Po107         1,101-150,1001-2000

--------------------------------------------------------------------------------
Port          Vlans in spanning tree forwarding state and not pruned
--------------------------------------------------------------------------------
Feature VTP is not enabled
Eth1/21       none
Feature VTP is not enabled
Eth1/22       none
Feature VTP is not enabled
Eth1/23       1,101-150,1001-2000
Feature VTP is not enabled
Eth1/24       1,101-150,1001-2000
Feature VTP is not enabled
Po107         1,101-150,1001-2000
```

Controller scope:

```
switch%%ctrlr-1# show interface trunk
--------------------------------------------------------------------------------
Port          Native  Status        Port
              Vlan                  Channel
--------------------------------------------------------------------------------
Eth1/21       -      trnk-bndl     Po107
Eth1/22       -      trnk-bndl     Po107
Eth1/23       -      trunking      --
Eth1/24       -      trunking      --
Po107         -      trunking      --

--------------------------------------------------------------------------------
Port          Vlans Allowed on Trunk
--------------------------------------------------------------------------------
Eth1/21       1001-2000
Eth1/22       1001-2000
Eth1/23       1001-2000
Eth1/24       1001-2000
Po107         1001-2000

--------------------------------------------------------------------------------
Port          Vlans Err-disabled on Trunk
--------------------------------------------------------------------------------
Eth1/21       none
Eth1/22       none
Eth1/23       none
Eth1/24       none
Po107         none

--------------------------------------------------------------------------------
Port          STP Forwarding
--------------------------------------------------------------------------------
Eth1/21       1001-2000
Eth1/22       1001-2000
Eth1/23       1001-2000
Eth1/24       1001-2000
Po107         1001-2000

--------------------------------------------------------------------------------
Port          Vlans in spanning tree forwarding state and not pruned
--------------------------------------------------------------------------------
Eth1/21       1001-2000
Eth1/22       1001-2000
Eth1/23       1001-2000
```

```
Eth1/24       1001-2000
Po107         1001-2000
```

show mac address table

This command displays the MAC address table with remote MAC addresses pushed from the controller.

Base scope and controller scope:

```
switch# show 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
---------+-----------------+--------+---------+------+----+------------------
C 1001     0000.0c07.ac0a   dynamic  0         F      F    nve1(1.1.101.5)
+ 1001     0017.0100.0001   dynamic  0         F      F    Po110
C 1001     0050.5601.0001   dynamic  0         F      F    nve1(2.2.129.10)
C 1001     f40f.1b6f.e64f   dynamic  0         F      F    nve1(1.1.101.5)
C 1001     f80b.cb9f.04d1   dynamic  0         F      F    nve1(2.2.201.2)
+ 1002     0017.0100.0002   dynamic  0         F      F    Po110
C 1002     0050.5601.0002   dynamic  0         F      F    nve1(2.2.129.10)
C 1002     f40f.1b6f.e64f   dynamic  0         F      F    nve1(1.1.101.5)
C 1003     0013.0100.0003   dynamic  0         F      F    nve1(2.2.201.2)
+ 1003     0017.0100.0003   dynamic  0         F      F    Po110
C 1003     0050.5601.0003   dynamic  0         F      F    nve1(2.2.129.10)
C 1004     0013.0100.0004   dynamic  0         F      F    nve1(2.2.201.2)
+ 1004     0017.0100.0004   dynamic  0         F      F    Po110
```

show port-channel summary

In the controller scope, this command displays only the controller-exposed port-channel interfaces.

Base scope:

```
switch# 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
        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(RU)     Eth      LACP      Eth1/49(P)   Eth1/50(P)
2     Po2(RU)     Eth      LACP      Eth1/51(P)   Eth1/52(P)
107   Po107(SU)   Eth      LACP      Eth1/21(P)   Eth1/22(P)
```

Controller scope:

```
switch%%ctrlr-1# 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
        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
--------------------------------------------------------------------------------
107   Po107(SU)   Eth      LACP      Eth1/21(P)   Eth1/22(P)
```

show running-config

In the base scope, this command displays the configurations for all interfaces. In the controller scope, this command displays the configurations only for the VLANs and interfaces that are assigned for use by the external controller.

Note You can enter the **show running-config controller** command in the base scope as an alternative to entering the **show running-config** command in the controller scope.

Note The output of this command in the base scope is very lengthy. Ellipses (...) are used to indicate information that appears in the output but is not displayed in this example.

Base scope:

```
switch# show running-config
!Time: Mon Apr 18 11:32:24 2017
version 7.0(3)I6(1)
power redundancy-mode combined force

switchname priv04-tor1
vdc priv04-tor1 id 1
  limit-resource vlan minimum 16 maximum 4094
  limit-resource vrf minimum 2 maximum 4096
  limit-resource port-channel minimum 0 maximum 511
  limit-resource u4route-mem minimum 248 maximum 248
  limit-resource u6route-mem minimum 96 maximum 96
  limit-resource m4route-mem minimum 58 maximum 58
  limit-resource m6route-mem minimum 8 maximum 8

feature telnet
feature nxapi
feature nxdb
feature bash-shell
feature scp-server
cfs eth distribute
feature ospf
feature interface-vlan
feature vn-segment-vlan-based
feature lacp
feature vpc
feature bfd
clock protocol none vdc 1
feature nv overlay

no password strength-check
```

Show Command Outputs

```
username admin password 5 $5$6XbR9SSQ$dLZ4Kv46u0I2zqtzKXGRiQUDqDf5.yCR6cDq6Mn74M5  role
network-admin
nxapi http port 80
nxapi https port 443
nxapi use-vrf management
ip domain-lookup
system default switchport shutdown
ip access-list ovs-copp-acl-andro
  10 permit tcp any any eq 6632
  20 permit tcp any eq 6632 any
  30 permit tcp any any eq www
  40 permit tcp any eq www any
  50 permit tcp any any eq 443
  60 permit tcp any eq 443 any
ip access-list ovs-copp-acl-auto-rp
  10 permit ip any 224.0.1.39/32
  20 permit ip any 224.0.1.40/32
ip access-list ovs-copp-acl-bgp
  10 permit tcp any gt 1024 any eq bgp
  20 permit tcp any eq bgp any gt 1024
ipv6 access-list ovs-copp-acl-bgp6
  10 permit tcp any gt 1024 any eq bgp
  20 permit tcp any eq bgp any gt 1024
ip access-list ovs-copp-acl-dhcp
  10 permit udp any eq bootpc any
  20 permit udp any neq bootps any eq bootps
ip access-list ovs-copp-acl-dhcp-relay-response
  10 permit udp any eq bootps any
  20 permit udp any any eq bootpc
ipv6 access-list ovs-copp-acl-dhcp6
  10 permit udp any eq 546 any
  20 permit udp any any eq 547
ipv6 access-list ovs-copp-acl-dhcp6-relay-response
  10 permit udp any eq 547 any
  20 permit udp any any eq 546
ip access-list ovs-copp-acl-eigrp
  10 permit eigrp any any
ipv6 access-list ovs-copp-acl-eigrp6
  10 permit eigrp any any
ip access-list ovs-copp-acl-ftp
  10 permit tcp any any eq ftp-data
  20 permit tcp any any eq ftp
  30 permit tcp any eq ftp-data any
  40 permit tcp any eq ftp any
ip access-list ovs-copp-acl-hsrp
  10 permit udp any 224.0.0.0/24 eq 1985
ipv6 access-list ovs-copp-acl-hsrp6
  10 permit udp any ff02::66/128 eq 2029
ip access-list ovs-copp-acl-icmp
  10 permit icmp any any echo
  20 permit icmp any any echo-reply
ipv6 access-list ovs-copp-acl-icmp6
  10 permit icmp any any echo-request
  20 permit icmp any any echo-reply
ipv6 access-list ovs-copp-acl-icmp6-msgs
  10 permit icmp any any router-advertisement
  20 permit icmp any any router-solicitation
  30 permit icmp any any nd-na
  40 permit icmp any any nd-ns
  50 permit icmp any any mld-query
  60 permit icmp any any mld-report
  70 permit icmp any any mld-reduction
  80 permit icmp any any mldv2
ip access-list ovs-copp-acl-igmp
```

```
  10 permit igmp any 224.0.0.0/3
mac access-list ovs-copp-acl-mac-cdp-udld-vtp
  10 permit any 0100.0ccc.cccc 0000.0000.0000
mac access-list ovs-copp-acl-mac-cfsoe
  10 permit any 0180.c200.000e 0000.0000.0000 0x8843
  20 permit any 0180.c200.000e 0000.0000.0000
mac access-list ovs-copp-acl-mac-dot1x
  10 permit any 0180.c200.0003 0000.0000.0000 0x888e
mac access-list ovs-copp-acl-mac-l2-tunnel
  10 permit any any 0x8840
mac access-list ovs-copp-acl-mac-l3-isis
  10 permit any 0180.c200.0015 0000.0000.0000
  20 permit any 0180.c200.0014 0000.0000.0000
  30 permit any 0900.2b00.0005 0000.0000.0000
mac access-list ovs-copp-acl-mac-lacp
  10 permit any 0180.c200.0002 0000.0000.0000 0x8809
mac access-list ovs-copp-acl-mac-lldp
  10 permit any 0180.c200.000e 0000.0000.0000 0x88cc
mac access-list ovs-copp-acl-mac-sdp-srp
  10 permit any 0180.c200.000e 0000.0000.0000 0x3401
mac access-list ovs-copp-acl-mac-stp
  10 permit any 0100.0ccc.cccd 0000.0000.0000
  20 permit any 0180.c200.0000 0000.0000.0000
mac access-list ovs-copp-acl-mac-undesirable
  10 permit any any
ip access-list ovs-copp-acl-msdp
  10 permit tcp any gt 1024 any eq 639
  20 permit tcp any eq 639 any gt 1024
ip access-list ovs-copp-acl-ntp
  10 permit udp any any eq ntp
  20 permit udp any eq ntp any
ipv6 access-list ovs-copp-acl-ntp6
  10 permit udp any any eq ntp
  20 permit udp any eq ntp any
ip access-list ovs-copp-acl-ospf
  10 permit ospf any any
ipv6 access-list ovs-copp-acl-ospf6
  10 permit 89 any any
ip access-list ovs-copp-acl-pim
  10 permit pim any 224.0.0.0/24
  20 permit udp any any eq pim-auto-rp
  30 permit ip any 224.0.0.13/32
ip access-list ovs-copp-acl-pim-mdt-join
  10 permit udp any 224.0.0.13/32
ip access-list ovs-copp-acl-pim-reg
  10 permit pim any any
ipv6 access-list ovs-copp-acl-pim6
  10 permit pim any ff02::d/128
  20 permit udp any any eq pim-auto-rp
ipv6 access-list ovs-copp-acl-pim6-reg
  10 permit pim any any
ip access-list ovs-copp-acl-ptp
  10 permit udp any 224.0.1.129/32 eq 319
  20 permit udp any 224.0.1.129/32 eq 320
ip access-list ovs-copp-acl-radius
  10 permit udp any any eq 1812
  20 permit udp any any eq 1813
  30 permit udp any any eq 1645
  40 permit udp any any eq 1646
  50 permit udp any eq 1812 any
  60 permit udp any eq 1813 any
  70 permit udp any eq 1645 any
  80 permit udp any eq 1646 any
ipv6 access-list ovs-copp-acl-radius6
```

Show Command Outputs

```
    10 permit udp any any eq 1812
    20 permit udp any any eq 1813
    30 permit udp any any eq 1645
    40 permit udp any any eq 1646
    50 permit udp any eq 1812 any
    60 permit udp any eq 1813 any
    70 permit udp any eq 1645 any
    80 permit udp any eq 1646 any
  ip access-list ovs-copp-acl-rip
    10 permit udp any 224.0.0.0/24 eq rip
  ipv6 access-list ovs-copp-acl-rip6
    10 permit udp any ff02::9/64 eq 521
  ip access-list ovs-copp-acl-sftp
    10 permit tcp any any eq 115
    20 permit tcp any eq 115 any
  ip access-list ovs-copp-acl-snmp
    10 permit udp any any eq snmp
    20 permit udp any any eq snmptrap
    30 permit tcp any any eq 161
    40 permit tcp any any eq 162
  ipv6 access-list ovs-copp-acl-snmp6
    10 permit udp any any eq snmp
    20 permit udp any any eq snmptrap
    30 permit tcp any any eq 161
    40 permit tcp any any eq 162
  ip access-list ovs-copp-acl-ssh
    10 permit tcp any any eq 22
    20 permit tcp any eq 22 any
  ipv6 access-list ovs-copp-acl-ssh6
    10 permit tcp any any eq 22
    20 permit tcp any eq 22 any
  ip access-list ovs-copp-acl-tacacs
    10 permit tcp any any eq tacacs
    20 permit tcp any eq tacacs any
  ipv6 access-list ovs-copp-acl-tacacs6
    10 permit tcp any any eq tacacs
    20 permit tcp any eq tacacs any
  ip access-list ovs-copp-acl-telnet
    10 permit tcp any any eq telnet
    20 permit tcp any any eq 107
    30 permit tcp any eq telnet any
    40 permit tcp any eq 107 any
  ipv6 access-list ovs-copp-acl-telnet6
    10 permit tcp any any eq telnet
    20 permit tcp any any eq 107
    30 permit tcp any eq telnet any
    40 permit tcp any eq 107 any
  ip access-list ovs-copp-acl-tftp
    10 permit udp any any eq tftp
    20 permit udp any any eq 1758
    30 permit udp any eq tftp any
    40 permit udp any eq 1758 any
  ipv6 access-list ovs-copp-acl-tftp6
    10 permit udp any any eq tftp
    20 permit udp any any eq 1758
    30 permit udp any eq tftp any
    40 permit udp any eq 1758 any
  ip access-list ovs-copp-acl-traceroute
    10 permit icmp any any ttl-exceeded
    20 permit icmp any any port-unreachable
    30 permit udp any any range 33434 33534
  ip access-list ovs-copp-acl-undesirable
    10 permit udp any any eq 1434
  ip access-list ovs-copp-acl-vpc
```

```
  10 permit udp any any eq 3200
ip access-list ovs-copp-acl-vrrp
  10 permit ip any 224.0.0.18/32
ipv6 access-list ovs-copp-acl-vrrp6
  10 permit ipv6 any ff02::12/128
class-map type control-plane match-any ovs-copp-class-critical
  match access-group name ovs-copp-acl-bgp
  match access-group name ovs-copp-acl-rip
  match access-group name ovs-copp-acl-vpc
  match access-group name ovs-copp-acl-bgp6
  match access-group name ovs-copp-acl-ospf
  match access-group name ovs-copp-acl-rip6
  match access-group name ovs-copp-acl-eigrp
  match access-group name ovs-copp-acl-ospf6
  match access-group name ovs-copp-acl-eigrp6
  match access-group name ovs-copp-acl-auto-rp
  match access-group name ovs-copp-acl-mac-l3-isis
class-map type control-plane match-any ovs-copp-class-exception
  match exception ip option
  match exception ip icmp unreachable
  match exception ipv6 option
  match exception ipv6 icmp unreachable
class-map type control-plane match-any ovs-copp-class-exception-diag
  match exception ttl-failure
  match exception mtu-failure
class-map type control-plane match-any ovs-copp-class-important
  match access-group name ovs-copp-acl-hsrp
  match access-group name ovs-copp-acl-vrrp
  match access-group name ovs-copp-acl-hsrp6
  match access-group name ovs-copp-acl-vrrp6
  match access-group name ovs-copp-acl-mac-lldp
  match access-group name ovs-copp-acl-icmp6-msgs
class-map type control-plane match-any ovs-copp-class-l2-default
  match access-group name ovs-copp-acl-mac-undesirable
class-map type control-plane match-any ovs-copp-class-l2-unpoliced
  match access-group name ovs-copp-acl-mac-stp
  match access-group name ovs-copp-acl-mac-lacp
  match access-group name ovs-copp-acl-mac-cfsoe
  match access-group name ovs-copp-acl-mac-sdp-srp
  match access-group name ovs-copp-acl-mac-l2-tunnel
  match access-group name ovs-copp-acl-mac-cdp-udld-vtp
class-map type control-plane match-any ovs-copp-class-l3mc-data
  match exception multicast rpf-failure
  match exception multicast dest-miss
class-map type control-plane match-any ovs-copp-class-l3uc-data
  match exception glean
class-map type control-plane match-any ovs-copp-class-management
  match access-group name ovs-copp-acl-ftp
  match access-group name ovs-copp-acl-ntp
  match access-group name ovs-copp-acl-ssh
  match access-group name ovs-copp-acl-ntp6
  match access-group name ovs-copp-acl-sftp
  match access-group name ovs-copp-acl-snmp
  match access-group name ovs-copp-acl-ssh6
  match access-group name ovs-copp-acl-tftp
  match access-group name ovs-copp-acl-andro
  match access-group name ovs-copp-acl-snmp6
  match access-group name ovs-copp-acl-tftp6
  match access-group name ovs-copp-acl-radius
  match access-group name ovs-copp-acl-tacacs
  match access-group name ovs-copp-acl-telnet
  match access-group name ovs-copp-acl-radius6
  match access-group name ovs-copp-acl-tacacs6
  match access-group name ovs-copp-acl-telnet6
```

Show Command Outputs

```
class-map type control-plane match-any ovs-copp-class-monitoring
  match access-group name ovs-copp-acl-icmp
  match access-group name ovs-copp-acl-icmp6
  match access-group name ovs-copp-acl-traceroute
class-map type control-plane match-any ovs-copp-class-multicast-router
  match access-group name ovs-copp-acl-pim
  match access-group name ovs-copp-acl-msdp
  match access-group name ovs-copp-acl-pim6
  match access-group name ovs-copp-acl-pim-reg
  match access-group name ovs-copp-acl-pim6-reg
  match access-group name ovs-copp-acl-pim-mdt-join
class-map type control-plane match-any ovs-copp-class-nat-flow
  match exception multicast rpf-failure
class-map type control-plane match-any ovs-copp-class-normal
  match access-group name ovs-copp-acl-mac-dot1x
  match protocol arp
class-map type control-plane match-any ovs-copp-class-normal-dhcp
  match access-group name ovs-copp-acl-dhcp
  match access-group name ovs-copp-acl-dhcp6
class-map type control-plane match-any ovs-copp-class-normal-dhcp-relay-response
  match access-group name ovs-copp-acl-dhcp-relay-response
  match access-group name ovs-copp-acl-dhcp6-relay-response
class-map type control-plane match-any ovs-copp-class-normal-igmp
  match access-group name ovs-copp-acl-igmp
class-map type control-plane match-any ovs-copp-class-redirect
  match access-group name ovs-copp-acl-ptp
class-map type control-plane match-any ovs-copp-class-undesirable
  match access-group name ovs-copp-acl-undesirable
  match exception multicast sg-rpf-failure
policy-map type control-plane ovs-copp-policy-strict
  class ovs-copp-class-l3uc-data
    set cos 1
    police cir 250 pps bc 32 packets conform transmit violate drop
  class ovs-copp-class-critical
    set cos 7
    police cir 19000 pps bc 128 packets conform transmit violate drop
  class ovs-copp-class-important
    set cos 6
    police cir 3000 pps bc 128 packets conform transmit violate drop
  class ovs-copp-class-multicast-router
    set cos 6
    police cir 3000 pps bc 128 packets conform transmit violate drop
  class ovs-copp-class-management
    set cos 2
    police cir 3000 pps bc 32 packets conform transmit violate drop
  class ovs-copp-class-l3mc-data
    set cos 1
    police cir 3000 pps bc 32 packets conform transmit violate drop
  class ovs-copp-class-normal
    set cos 1
    police cir 1500 pps bc 32 packets conform transmit violate drop
  class ovs-copp-class-normal-dhcp
    set cos 1
    police cir 300 pps bc 32 packets conform transmit violate drop
  class ovs-copp-class-normal-dhcp-relay-response
    set cos 1
    police cir 400 pps bc 64 packets conform transmit violate drop
  class ovs-copp-class-normal-igmp
    set cos 3
    police cir 6000 pps bc 64 packets conform transmit violate drop
  class ovs-copp-class-redirect
    set cos 1
    police cir 1500 pps bc 32 packets conform transmit violate drop
  class ovs-copp-class-exception
```

```
    set cos 1
    police cir 50 pps bc 32 packets conform transmit violate drop
  class ovs-copp-class-exception-diag
    set cos 1
    police cir 50 pps bc 32 packets conform transmit violate drop
  class ovs-copp-class-monitoring
    set cos 1
    police cir 75 pps bc 128 packets conform transmit violate drop
  class ovs-copp-class-l2-unpoliced
    set cos 7
    police cir 20000 pps bc 8192 packets conform transmit violate drop
  class ovs-copp-class-undesirable
    set cos 0
    police cir 15 pps bc 32 packets conform transmit violate drop
  class ovs-copp-class-nat-flow
    set cos 7
    police cir 100 pps bc 64 packets conform transmit violate drop
  class ovs-copp-class-l2-default
    set cos 0
    police cir 50 pps bc 32 packets conform transmit violate drop
  class class-default
    set cos 0
    police cir 50 pps bc 32 packets conform transmit violate drop
copp profile strict
snmp-server user admin network-admin auth md5 0xb346ad8d706187f507e01fba4e7c7acb priv
0xb346ad8d706187f507e01fba4e7c7acb localizedkey
rmon event 1 log trap public description FATAL(1) owner PMON@FATAL
rmon event 2 log trap public description CRITICAL(2) owner PMON@CRITICAL
rmon event 3 log trap public description ERROR(3) owner PMON@ERROR
rmon event 4 log trap public description WARNING(4) owner PMON@WARNING
rmon event 5 log trap public description INFORMATION(5) owner PMON@INFO

vlan 1,100,3000
vlan 3000
  vn-segment 0

vrf context management
  ip route 0.0.0.0/0 172.31.144.1
hardware access-list tcam region ifacl 0
hardware access-list tcam region vacl 0
hardware access-list tcam region copp 512
hardware access-list tcam region redirect-tunnel 256
hardware qos ns-buffer-profile mesh
vpc domain 200
  peer-switch
  role priority 100
  peer-keepalive destination 172.31.145.144
  peer-gateway
  ipv6 nd synchronize
  ip arp synchronize


interface Vlan1

interface Vlan100
  no shutdown
  mtu 9216
  ip address 1.1.14.1/24
  ip router ospf p1 area 0.0.0.0

interface Vlan3000
  no shutdown
  ip forward
```

Show Command Outputs

```
interface port-channel1
  description uplink
  no switchport
  mtu 9216
  ip address 1.1.13.1/24
  ip ospf network point-to-point
  ip router ospf p1 area 0.0.0.0

interface port-channel2
  description uplink
  no switchport
  mtu 9216
  ip address 1.1.15.1/24
  ip ospf network point-to-point
  ip router ospf p1 area 0.0.0.0

interface port-channel10
  switchport mode trunk
  !controller type l2-vxlan identifier 1
  speed 1000
  vpc 10

interface port-channel100
  switchport mode trunk
  !controller type l2-vxlan identifier 1
  spanning-tree port type network
  vpc peer-link

interface nve1
  no shutdown
  source-interface loopback0
  auto-remap-replication-servers
  host-reachability protocol controller 1
  source-interface hold-down-time 30
  config-source controller

interface Ethernet1/1

interface Ethernet1/2

interface Ethernet1/3

interface Ethernet1/4

interface Ethernet1/5

interface Ethernet1/6

interface Ethernet1/7

interface Ethernet1/8
  description edge
  switchport mode trunk
  switchport trunk allowed vlan 1-200,204-4094
  spanning-tree port type edge trunk
  spanning-tree bpdufilter enable
  no shutdown

interface Ethernet1/9

interface Ethernet1/10

interface Ethernet1/11
```

```
interface Ethernet1/12

interface Ethernet1/13

interface Ethernet1/14

interface Ethernet1/15

interface Ethernet1/16

interface Ethernet1/17

interface Ethernet1/18

interface Ethernet1/19

interface Ethernet1/20

interface Ethernet1/21
  switchport mode trunk
  speed 1000
  channel-group 10 mode active
  no shutdown

interface Ethernet1/22

interface Ethernet1/23
  description edge
  switchport mode trunk
  switchport trunk allowed vlan 1-200,204-4094
  spanning-tree port type edge trunk
  spanning-tree bpdufilter enable
  no shutdown

interface Ethernet1/24
  description edge
  switchport mode trunk
  !controller type l2-vxlan identifier 1
  spanning-tree port type edge trunk
  spanning-tree bpdufilter enable
  no shutdown

interface Ethernet1/25

interface Ethernet1/26

interface Ethernet1/27

interface Ethernet1/28

interface Ethernet1/29

interface Ethernet1/30

interface Ethernet1/31

interface Ethernet1/32

interface Ethernet1/33
  switchport mode trunk
  !controller type l2-vxlan identifier 1
  spanning-tree port type edge trunk
  no shutdown
```

Show Command Outputs

```
interface Ethernet1/34
interface Ethernet1/35
interface Ethernet1/36
interface Ethernet1/37
interface Ethernet1/38
interface Ethernet1/39
interface Ethernet1/40
interface Ethernet1/41
interface Ethernet1/42
interface Ethernet1/43
interface Ethernet1/44
interface Ethernet1/45
interface Ethernet1/46
interface Ethernet1/47
interface Ethernet1/48
interface Ethernet1/49
interface Ethernet1/50
interface Ethernet1/51
interface Ethernet1/52
interface Ethernet1/53
interface Ethernet1/54
interface Ethernet1/55
interface Ethernet1/56
interface Ethernet1/57
interface Ethernet1/58
interface Ethernet1/59
interface Ethernet1/60
interface Ethernet1/61
interface Ethernet1/62
interface Ethernet1/63
interface Ethernet1/64
interface Ethernet1/65
```

```
interface Ethernet1/66

interface Ethernet1/67

interface Ethernet1/68

interface Ethernet1/69

interface Ethernet1/70

interface Ethernet1/71

interface Ethernet1/72

interface Ethernet1/73

interface Ethernet1/74

interface Ethernet1/75

interface Ethernet1/76

interface Ethernet1/77

interface Ethernet1/78

interface Ethernet1/79

interface Ethernet1/80

interface Ethernet1/81

interface Ethernet1/82

interface Ethernet1/83

interface Ethernet1/84

interface Ethernet1/85

interface Ethernet1/86

interface Ethernet1/87

interface Ethernet1/88

interface Ethernet1/89

interface Ethernet1/90

interface Ethernet1/91

interface Ethernet1/92

interface Ethernet1/93

interface Ethernet1/94

interface Ethernet1/95

interface Ethernet1/96

interface Ethernet2/1
  description uplink
```

```
  no switchport
  mtu 9216
  channel-group 1 mode active
  no shutdown

interface Ethernet2/2
  description uplink
  no switchport
  mtu 9216
  channel-group 1 mode active
  no shutdown

interface Ethernet2/3
  switchport mode trunk
  channel-group 100 mode active
  no shutdown

interface Ethernet2/4
  switchport mode trunk
  channel-group 100 mode active
  no shutdown

interface Ethernet2/5
  no switchport
  mtu 9216
  channel-group 2 mode active
  no shutdown

interface Ethernet2/6
  no switchport
  mtu 9216
  channel-group 2 mode active
  no shutdown

interface mgmt0
  vrf member management
  ip address 172.31.145.141/21

interface loopback0
  description vtep_loopback_interface
  ip address 1.1.101.1/32
  ip address 1.1.101.5/32 secondary
  ip router ospf p1 area 0.0.0.0

interface loopback1
  description andromeda_connecting_interface
  ip address 1.1.24.1/32
  ip router ospf p1 area 0.0.0.0
terminal log-all
line console
  exec-timeout 0
  speed 115200
line vty
  exec-timeout 0
boot nxos bootflash:/sanity.image
router ospf p1
  router-id 100.100.100.1
  log-adjacency-changes detail
ip arp timeout 28800
no logging console

controller type l2-vxlan identifier 1
  controller description NODE01
  assign vlan 201-203 dedicated
```

```
  assign interface port-channel10, port-channel100 shared
  assign interface Ethernet1/24, Ethernet1/33 shared
```

Controller scope:

```
switch# show running-config
!Time: Mon Apr 18 13:24:38 2017

version 7.0(3)I6(1)
feature vn-segment-vlan-based
feature nv overlay

vlan 201-203
vlan 201
  vn-segment 10002
vlan 202
  vn-segment 10003
vlan 203
  vn-segment 10004


interface port-channel10
  switchport mode trunk
  switchport trunk allowed vlan 201-203
  !controller type l2-vxlan identifier 1
  speed 1000

interface port-channel100
  switchport mode trunk
  switchport trunk allowed vlan 201-203
  !controller type l2-vxlan identifier 1

interface nve1
  source-interface loopback0
  auto-remap-replication-servers
  host-reachability protocol controller 1
  source-interface hold-down-time 30
  config-source controller
  member vni 10002
    ingress-replication protocol static
      peer-ip 1.1.11.3
  member vni 10003
    ingress-replication protocol static
      peer-ip 1.1.11.4
  member vni 10004
    ingress-replication protocol static
      peer-ip 1.1.11.3
  bfd-neighbor 1.1.11.3 1.1.11.3 0023.2000.0002
  bfd-neighbor 1.1.11.4 1.1.11.4 0023.2000.0001

interface Ethernet1/21
  switchport mode trunk
  switchport trunk allowed vlan 201-203
  speed 1000

interface Ethernet1/34
  switchport mode trunk
  switchport trunk allowed vlan 201-203
  !controller type l2-vxlan identifier 1

interface Ethernet1/35
  switchport mode trunk
  switchport trunk allowed vlan 201-203
  !controller type l2-vxlan identifier 1
```

```
interface Ethernet2/5
  switchport mode trunk
  switchport trunk allowed vlan 201-203

interface Ethernet2/6
  switchport mode trunk
  switchport trunk allowed vlan 201-203

controller type l2-vxlan identifier 1
  controller description NODE04
  assign vlan 201-203 dedicated
  assign interface port-channel10, port-channel100 shared
  assign interface Ethernet1/34-35 shared
```

show vlan

Base scope:

```
switch# show vlan
VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Po107, Eth1/1, Eth1/2, Eth1/3
                                                Eth1/4, Eth1/5, Eth1/6, Eth1/7
                                                Eth1/8, Eth1/9, Eth1/10, Eth1/11
                                                Eth1/12, Eth1/13, Eth1/14
                                                Eth1/15, Eth1/16, Eth1/17
                                                Eth1/18, Eth1/19, Eth1/20
                                                Eth1/21, Eth1/22, Eth1/23
                                                Eth1/24, Eth1/25, Eth1/26
                                                Eth1/27, Eth1/28, Eth1/29
                                                Eth1/30, Eth1/31, Eth1/32
                                                Eth1/33, Eth1/34, Eth1/35
                                                Eth1/36, Eth1/37, Eth1/38
                                                Eth1/39, Eth1/40, Eth1/41
                                                Eth1/42, Eth1/43, Eth1/44
                                                Eth1/45, Eth1/46, Eth1/47
                                                Eth1/48, Eth1/53, Eth1/54
101  VLAN0101                         active    Po107, Eth1/21, Eth1/22
                                                Eth1/23, Eth1/24
102  VLAN0102                         active    Po107, Eth1/21, Eth1/22
                                                Eth1/23, Eth1/24
...
150  VLAN0150                         active    Po107, Eth1/21, Eth1/22
                                                Eth1/23, Eth1/24

VLAN Type         Vlan-mode
---- -----        ----------
1    enet         CE
101  enet         CE
102  enet         CE
...
150  enet         CE

Remote SPAN VLANs
------------------------------------------------------------------------------

Primary  Secondary  Type             Ports
-------  ---------  ---------------  ------------------------------------------
```

Controller scope:

```
switch%%ctrlr-1# show vlan
VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1001 VLAN1001                         active    Po107, Eth1/23, Eth1/24
1002 VLAN1002                         active    Po107, Eth1/23, Eth1/24
1003 VLAN1003                         active    Po107, Eth1/23, Eth1/24
...
1999 VLAN1999                         active    Po107, Eth1/23, Eth1/24
2000 VLAN2000                         active    Po107, Eth1/23, Eth1/24

VLAN Type         Vlan-mode
---- -----        ----------
1001 enet         CE
1002 enet         CE
...
1999 enet         CE
2000 enet         CE

Remote SPAN VLANs
------------------------------------------------------------------------------

Primary  Secondary  Type             Ports
-------  ---------  ---------------  ------------------------------------------
```

show vlan brief

Base scope:

```
switch# show vlan brief
VLAN Name                             Status    Ports
---- -------------------------------- --------- -------------------------------
1    default                          active    Po107, Eth1/1, Eth1/2, Eth1/3
                                                Eth1/4, Eth1/5, Eth1/6, Eth1/7
                                                Eth1/8, Eth1/9, Eth1/10, Eth1/11
                                                Eth1/12, Eth1/13, Eth1/14
                                                Eth1/15, Eth1/16, Eth1/17
                                                Eth1/18, Eth1/19, Eth1/20
                                                Eth1/21, Eth1/22, Eth1/23
                                                Eth1/24, Eth1/25, Eth1/26
                                                Eth1/27, Eth1/28, Eth1/29
                                                Eth1/30, Eth1/31, Eth1/32
                                                Eth1/33, Eth1/34, Eth1/35
                                                Eth1/36, Eth1/37, Eth1/38
                                                Eth1/39, Eth1/40, Eth1/41
                                                Eth1/42, Eth1/43, Eth1/44
                                                Eth1/45, Eth1/46, Eth1/47
                                                Eth1/48, Eth1/53, Eth1/54
101  VLAN0101                         active    Po107, Eth1/21, Eth1/22
                                                Eth1/23, Eth1/24
102  VLAN0102                         active    Po107, Eth1/21, Eth1/22
                                                Eth1/23, Eth1/24
...
149  VLAN0149                         active    Po107, Eth1/21, Eth1/22
                                                Eth1/23, Eth1/24
150  VLAN0150                         active    Po107, Eth1/21, Eth1/22
                                                Eth1/23, Eth1/24
```

Controller scope:

```
switch%%ctrlr-1# show vlan brief
VLAN Name                             Status    Ports
```

```
---- -------------------------------- --------- -------------------------------
1001 VLAN1001                         active    Po107, Eth1/23, Eth1/24
1002 VLAN1002                         active    Po107, Eth1/23, Eth1/24
1003 VLAN1003                         active    Po107, Eth1/23, Eth1/24
...
1999 VLAN1999                         active    Po107, Eth1/23, Eth1/24
2000 VLAN2000                         active    Po107, Eth1/23, Eth1/24
```

show vpc

In the base scope, the output of this command shows the non-assigned VLANs on the vPC ports. In the controller scope, the output of this command shows the assigned VLANs on the vPC ports.

Base scope:

```
switch# show vpc
Legend:
                (*) - local vPC is down, forwarding via vPC peer-link

vPC domain id                     : 1
Peer status                       : peer adjacency formed ok
vPC keep-alive status             : peer is alive
Configuration consistency status  : success
Per-vlan consistency status       : success
Type-2 consistency status         : success
vPC role                          : primary
Number of vPCs configured         : 1
Peer Gateway                      : Enabled
Dual-active excluded VLANs        : -
Graceful Consistency Check        : Enabled
Auto-recovery status              : Disabled
Delay-restore status              : Timer is off.(timeout = 180s)
Delay-restore SVI status          : Timer is off.(timeout = 10s)
Peer-link delay status            : Timer is off.(timeout = 300s)

vPC Peer-link status
---------------------------------------------------------------------
id   Port   Status Active vlans
--   ----   ------ --------------------------------------------------
1    Po10   up     1,100,3000

vPC status
----------------------------------------------------------------------------
id   Port   Status Consistency Reason                     Active vlans
--   ----   ------ ----------- ------                     ------------
20   Po20   up     success     success                    1,100,3000
```

In the above output, VLANs 1, 100, and 3000 are existing VLANs on vPC port po20 that are not assigned VLANs.

Controller scope:

```
switch# show vpc
Legend:
                (*) - local vPC is down, forwarding via vPC peer-link

vPC domain id                     : 1
Peer status                       : peer adjacency formed ok
vPC keep-alive status             : peer is alive
Configuration consistency status  : success
Per-vlan consistency status       : success
```

```
Type-2 consistency status         : success
vPC role                          : primary
Number of vPCs configured         : 1
Peer Gateway                      : Enabled
Dual-active excluded VLANs        : -
Graceful Consistency Check        : Enabled
Auto-recovery status              : Disabled
Delay-restore status              : Timer is off.(timeout = 180s)
Delay-restore SVI status          : Timer is off.(timeout = 10s)
Peer-link delay status            : Timer is off.(timeout = 300s)

vPC Peer-link status
---------------------------------------------------------------------
id   Port   Status Active vlans
--   ----   ------ -----------------------------------------------------
1    Po10   up     1001-1160

vPC status
----------------------------------------------------------------------------
id   Port   Status Consistency Reason                     Active vlans
--   ----   ------ ----------- ------                     ------------
20   Po20   up     success     success                    1001-1160
```

In the above output, the active VLANs 1001-1160 are the assigned VLANs.

show vpc consistency-parameters global

This command displays the assigned vPC interfaces and assigned VLANs for the primary and secondary switches. The assigned vPC interfaces and assigned VLANs should match on both vPC peers.

Base scope and controller scope:

```
switch# show vpc consistency-parameters global

Legend:
        Type 1 : vPC will be suspended in case of mismatch

Name                        Type  Local Value            Peer Value
-------------               ----  ---------------------- -----------------------
STP MST Simulate PVST       1     Enabled                Enabled
STP Port Type, Edge         1     Normal, Disabled,      Normal, Disabled,
BPDUFilter, Edge BPDUGuard        Disabled               Disabled
STP MST Region Name         1     ""                     ""
STP Disabled                1     None                   None
STP Mode                    1     Rapid-PVST             Rapid-PVST
STP Bridge Assurance        1     Enabled                Enabled
STP Loopguard               1     Disabled               Disabled
STP MST Region Instance to  1
 VLAN Mapping
STP MST Region Revision     1     0                      0
Interface-vlan admin up     2     100,3000               100,3000
Interface-vlan routing      2     1,100,3000             1,100,3000
capability
Nve1 Admin State, Src       1     Up, Up, 1.1.101.5, CP, Up, Up, 1.1.101.5, CP,
Admin State, Secondary IP,         FALSE                  FALSE
 Host Reach Mode, VMAC
Advertisement
Assigned VRF's              1     #0                     #0
Assigned VPC Interfaces     1     10                     10
Assigned Vlans              1     201-203                201-203
QoS (Cos)                   2     ([0-7], [], [], [],    ([0-7], [], [], [],
                                  [], [])                [], [])
```

```
Network QoS (MTU)           2     (1500, 1500, 1500,     (1500, 1500, 1500,
                                  1500, 0, 0)            1500, 0, 0)
Network Qos (Pause:         2     (F, F, F, F, F, F)     (F, F, F, F, F, F)
T->Enabled, F->Disabled)
Input Queuing (Bandwidth)   2     (0, 0, 0, 0, 0, 0)     (0, 0, 0, 0, 0, 0)
Input Queuing (Absolute     2     (F, F, F, F, F, F)     (F, F, F, F, F, F)
Priority: T->Enabled,
F->Disabled)
Output Queuing (Bandwidth   2     (100, 0, 0, 0, 0, 0)   (100, 0, 0, 0, 0, 0)
Remaining)
Output Queuing (Absolute    2     (F, F, F, T, F, F)     (F, F, F, T, F, F)
Priority: T->Enabled,
F->Disabled)
Allowed VLANs               -     1,100,3000             1,100,3000
Local suspended VLANs       -     -                      -
```

Show BFD Command Outputs

This section provides sample outputs for the **show** BFD commands.

show bfd neighbors

On a non-vPC device:

```
switch# show bfd neighbors
OurAddr          NeighAddr       LD/RD                 RH/RS           Holdown(mult)
State       Int                    Vrf
1.1.102.1        1.1.11.3        1090519041/94501819   Up              800(3)            Up
           nve1
1.1.102.1        1.1.11.4        1090519042/895389263  Up              705(3)            Up
           nve1
```

Note If this command is entered on a vPC secondary device, it should be displayed as Down because the session is hosted only on the vPC primary device.

show nve bfd neighbors

On a non-vPC device:

```
switch# show nve bfd neighbors
Interface Neighbor VTEP IP Inner-IP       Inner-MAC      vPC CC state
--------- ---------------- -------------- ---------      ------------
nve1      1.1.11.3         1.1.11.3       0023.2000.0001      N/A
          1.1.11.4         1.1.11.4       0023.2000.0002      N/A
```

On a vPC node:

```
switch# show nve bfd neighbors
Interface Neighbor VTEP IP Inner-IP       Inner-MAC      vPC CC state
--------- ---------------- -------------- ---------      ------------
nve1      1.1.11.3         1.1.11.3       0023.2000.0001      Pass
```

```
1.1.11.4        1.1.11.4       0023.2000.0002      Pass
```

Note In vPC modes, the vPC consistency checker (CC) is run to make sure that the controller-pushed BFD configuration is consistent on both the vPC primary and secondary devices.

show running controller

```
switch# show running controller
interface nve1
  source-interface loopback0
  auto-remap-replication-servers
  host-reachability protocol controller 1
  config-source controller
  member vni 10002
    ingress-replication protocol static
      peer-ip 1.1.11.3
  member vni 10003
    ingress-replication protocol static
      peer-ip 1.1.11.4
  member vni 10004
    ingress-replication protocol static
      peer-ip 1.1.11.3
  bfd-neighbor 1.1.11.3 1.1.11.3 0023.2000.0001
  bfd-neighbor 1.1.11.4 1.1.11.4 0023.2000.0002
```

The BFD configuration that is pushed from the controller is highlighted in the output above.

show vpc consistency-parameters global

BFD-related parameters are part of the vPC consistency checker.

```
switch# show vpc consistency-parameters global
Legend:
        Type 1 : vPC will be suspended in case of mismatch

Name                        Type  Local Value            Peer Value
-------------               ----  ---------------------- -----------------------
Vlan to Vn-segment Map      1     4 Relevant Map(s)      4 Relevant Map(s)
STP Mode                    1     Rapid-PVST             Rapid-PVST
STP Disabled                1     None                   None
STP MST Region Name         1     ""                     ""
STP MST Region Revision     1     0                      0
STP MST Region Instance to  1
 VLAN Mapping
STP Loopguard               1     Disabled               Disabled
STP Bridge Assurance        1     Enabled                Enabled
STP Port Type, Edge         1     Normal, Disabled,      Normal, Disabled,
BPDUFilter, Edge BPDUGuard        Disabled               Disabled
STP MST Simulate PVST       1     Enabled                Enabled
Nve Admin State, Src Admin  1     Up, Up, 1.1.101.5, CP  Up, Up, 1.1.101.5, CP
 State, Secondary IP, Host
 Reach Mode
BFD Neighbor:               1     Outer/Inner IP/MAC     Outer/Inner IP/MAC
                                  1.1.11.3/1.1.11.3/0023 1.1.11.3/1.1.11.3/0023
                                  .2000.0001             .2000.0001
```

Show Command Outputs

BFD Neighbor:	**1**	**Outer/Inner IP/MAC 1.1.11.4/1.1.11.4/0023.2000.0002**	**Outer/Inner IP/MAC 1.1.11.4/1.1.11.4/0023.2000.0002**
Nve Vni Configuration	1	10002-10004,16777215	10002-10004,16777215
Nve encap Configuration	1	vxlan	vxlan
Assigned Vlans	1	201-203	201-203
Assigned VPC Interfaces	1	10	10
Interface-vlan admin up	2	100,3000	100,3000
Interface-vlan routing capability	2	1,100,3000	1,100,3000
Allowed VLANs	-	1,100,201-203,3000	1,100,201-203,3000
Local suspended VLANs	-	-	-