

Migrate from a Cisco switch to a Cisco Nexus 92300YC switch

Cluster and storage switches

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Migrate from a Cisco switch to a Cisco Nexus 92300YC switch

Migrate from a Cisco switch to a Cisco Nexus 92300YC switch

You must be aware of certain configuration information, port connections and cabling requirements when you are replacing some older Cisco Nexus cluster switches with Cisco Nexus 92300YC cluster switches.

- The following cluster switches are supported:
 - Nexus 92300YC
 - Nexus 5596UP
 - Nexus 5020
 - Nexus 5010
- The cluster switches use the following ports for connections to nodes:
 - Ports e1/1-48 (10/25 GbE), e1/49-64 (40/100 GbE): Nexus 92300YC
 - Ports e1/1-40 (10 GbE): Nexus 5596UP
 - Ports e1/1-32 (10 GbE): Nexus 5020
 - ∘ Ports e1/1-12, e2/1-6 (10 GbE): Nexus 5010 with expansion module
- The cluster switches use the following Inter-Switch Link (ISL) ports:
 - Ports e1/65-66 (100 GbE): Nexus 92300YC
 - Ports e1/41-48 (10 GbE): Nexus 5596UP
 - Ports e1/33-40 (10 GbE): Nexus 5020
 - Ports e1/13-20 (10 GbE): Nexus 5010
- The *Hardware Universe* contains information about supported cabling for all cluster switches.
- You have configured some of the ports on Nexus 92300YC switches to run at 10 GbE or 40 GbE.
- You have planned, migrated, and documented 10 GbE and 40 GbE connectivity from nodes to Nexus 92300YC cluster switches.
- The ONTAP and NX-OS versions supported in this procedure are on the Cisco Ethernet Switches page.



After your migration completes, you might need to install the required configuration file to support the Cluster Switch Health Monitor (CSHM) for 92300YC cluster switches. See *Installing the Cluster Switch Health Monitor (CSHM) configuration file for 92300YC switches* in the Setting up guide.

How to migrate from a Cisco switch to a Cisco Nexus 92300YC switch

You can migrate nondisruptively older Cisco cluster switches for an ONTAP cluster to

Cisco Nexus 92300YC cluster network switches.

About this task

- The existing cluster must be properly set up and functioning.
- All cluster ports must be in the up state to ensure nondisruptive operations.
- The Nexus 92300YC cluster switches must be configured and operating under the proper version of NX-OS installed and reference configuration file (RCF) applied.
- The existing cluster network configuration must have the following:
 - A redundant and fully functional NetApp cluster using both older Cisco switches.
 - Management connectivity and console access to both the older Cisco switches and the new switches.
 - All cluster LIFs in the up state with the cluster LIFs are on their home ports.
 - ISL ports enabled and cabled between the older Cisco switches and between the new switches.

The examples in this procedure use the following switch and node nomenclature:

- The existing Cisco Nexus 5596UP cluster switches are c1 and c2.
- The new Nexus 92300YC cluster switches are cs1 and cs2.
- The nodes are node1 and node2.
- The cluster LIFs are node1_clus1 and node1_clus2 on node 1, and node2_clus1 and node2_clus2 on node 2 respectively.
- Switch c2 is replaced by switch cs2 first and then switch c1 is replaced by switch cs1.
 - A temporary ISL is built on cs1 connecting c1 to cs1.
 - Cabling between the nodes and c2 are then disconnected from c2 and reconnected to cs2.
 - Cabling between the nodes and c1 are then disconnected from c1 and reconnected to cs1.
 - The temporary ISL between c1 and cs1 is then removed.

Steps

1. Change the privilege level to advanced, entering **y** when prompted to continue:

```
set -privilege advanced
```

The advanced prompt (*>) appears.

If AutoSupport is enabled on this cluster, suppress automatic case creation by invoking an AutoSupport message:

```
system node autosupport invoke -node * -type all -message MAINT=xh
```

where x is the duration of the maintenance window in hours.



The AutoSupport message notifies technical support of this maintenance task so that automatic case creation is suppressed during the maintenance window.

The following command suppresses automatic case creation for two hours:

 $\verb|cluster1::*> \verb|system| | node | autosupport | invoke -node | * -type | all -message | MAINT=2h|$

3. Verify that auto-revert is enabled on all cluster LIFs:

network interface show -vserver Cluster -fields auto-revert

4. Determine the administrative or operational status for each cluster interface:

Each port should display up for Link and healthy for Health Status.

a. Display the network port attributes:

network port show -ipspace Cluster

| cluster1: | :*> network p | ort show -: | ipspace | Clus | ter | | |
|----------------|---------------|-------------|---------|------|------|--------------|---------|
| Node: nod | le1 | | | | | | |
| Ignore | | | | | | Speed(Mbps) | Health |
| Health | | | | | | speed (Mpps) | nearth |
| Port Status | IPspace | | | | | Admin/Oper | Status |
| | | | | | | | |
| e0a false | Cluster | Cluster | | up | 9000 | auto/10000 | healthy |
| e0b | Cluster | Cluster | | up | 9000 | auto/10000 | healthy |
| false | | | | | | | |
| Node: nod | le2 | | | | | | |
| Ignore | | | | | | Speed(Mbps) | Health |
| Status | IPspace | | | | | | Status |
| | | | | | | | |
| e0a false | Cluster | Cluster | | up | 9000 | auto/10000 | healthy |
| | Cluster | Cluster | | up | 9000 | auto/10000 | healthy |
| 4 entries | were display | red. | | | | | |

b. Display information about the logical interfaces and their designated home nodes:

network interface show -vserver Cluster

Each LIF should display up/up for Status Admin/Oper and true for Is Home.

| cluster1 | 1::*> | > network inte | erface show | -vserver Cluster | |
|----------|-------|----------------|-------------|-------------------|---------|
| | | Logical | Status | Network | Current |
| Current | Is | | | | |
| Vserver | | Interface | Admin/Oper | Address/Mask | Node |
| Port | Home | Э | | | |
| | | | | | |
| | | - | | | |
| Cluster | | | | | |
| | | node1_clus1 | up/up | 169.254.209.69/16 | node1 |
| e0a | true | Э | | | |
| | | node1_clus2 | up/up | 169.254.49.125/16 | node1 |
| e0b | true | Э | | | |
| | | node2_clus1 | up/up | 169.254.47.194/16 | node2 |
| e0a | true | Э | | | |
| | | node2_clus2 | up/up | 169.254.19.183/16 | node2 |
| e0b | true | Э | | | |
| 4 entrie | es we | ere displayed | | | |

5. The cluster ports on each node are connected to existing cluster switches in the following way (from the nodes' perspective) using the command:

network device-discovery show -protocol cdp

| Node/ | Local | Discovered | | |
|----------|-------|-------------------------|-------------|----------|
| Protocol | Port | Device (LLDP: ChassisID |) Interface | Platform |
| | | | | |
| node2 | /cdp | | | |
| | e0a | c1 | 0/2 | N5K- |
| C5596UP | | | | |
| | e0b | c2 | 0/2 | N5K- |
| C5596UP | | | | |
| node1 | /cdp | | | |
| | e0a | c1 | 0/1 | N5K- |
| C5596UP | | | | |
| | e0b | c2 | 0/1 | N5K- |
| C5596UP | | | | |

6. The cluster ports and switches are connected in the following way (from the switches' perspective) using the command:

c1# show cdp neighbors

Capability Codes: R - Router, T - Trans-Bridge, B - Source-Route-Bridge

S - Switch, H - Host, I - IGMP, r - Repeater,
V - VoIP-Phone, D - Remotely-Managed-Device,

s - Supports-STP-Dispute

| Device-ID Port ID | Local Intrf | ce Hldtn | ne Capabil: | ity Platform |
|----------------------------|-------------|----------|-------------|--------------|
| node1 | Eth1/1 | 124 | Н | FAS2750 |
| node2 e0a | Eth1/2 | 124 | Н | FAS2750 |
| c2(FOX2025GEFC) Eth1/41 | Eth1/41 | 179 | SIS | N5K-C5596UP |
| c2(FOX2025GEFC) Eth1/42 | Eth1/42 | 175 | SIS | N5K-C5596UP |
| c2(FOX2025GEFC) Eth1/43 | Eth1/43 | 179 | SIS | N5K-C5596UP |
| c2(FOX2025GEFC) Eth1/44 | Eth1/44 | 175 | SIS | N5K-C5596UP |
| c2(FOX2025GEFC) Eth1/45 | Eth1/45 | 179 | SIS | N5K-C5596UP |
| c2(FOX2025GEFC) Eth1/46 | Eth1/46 | 179 | SIS | N5K-C5596UP |
| c2(FOX2025GEFC) Eth1/47 | Eth1/47 | 175 | SIs | N5K-C5596UP |
| c2(FOX2025GEFC) Eth1/48 | Eth1/48 | 179 | SIs | N5K-C5596UP |

Total entries displayed: 10

c2# show cdp neighbors

Capability Codes: R - Router, T - Trans-Bridge, B - Source-Route-Bridge

| | | | GMP, r - Repeater, | | | | | |
|---|--|------------------|--------------------|--|--|--|--|--|
| | V - VoIP-Phone, D - Remotely-Managed-Device, | | | | | | | |
| | s - Supports-STP-Dispute | | | | | | | |
| | | | | | | | | |
| Device-ID | Iogal Int | rfac Hld+ma Car | oability Platform | | | | | |
| Port ID | LOCAL IIIC. | rice midulle cap | pability Flation | | | | | |
| node1 | Eth1/1 | 124 н | FAS2750 | | | | | |
| e0b | ECHI, I | 124 11 | 1 ADZ 1 3 0 | | | | | |
| node2 | Eth1/2 | 124 н | FAS2750 | | | | | |
| e0b | _ 5111 / _ | | 11102700 | | | | | |
| c1 (FOX2025GEEX) | Eth1/41 | 175 S I | s N5K-C5596UP | | | | | |
| Eth1/41 | | | | | | | | |
| | | | | | | | | |
| c1(FOX2025GEEX) | Eth1/42 | 175 S I | s N5K-C5596UP | | | | | |
| Eth1/42 | | | | | | | | |
| | | | | | | | | |
| | Eth1/43 | 175 S I | s N5K-C5596UP | | | | | |
| Eth1/43 | | | | | | | | |
| 1 (5000005050000 | T. 1. 1. / 4.4 | 155 0 5 | NEW 05506 | | | | | |
| c1(FOX2025GEEX) Eth1/44 | Ethi/44 | 175 S I | s N5K-C5596UP | | | | | |
| EUII1/44 | | | | | | | | |
| c1(FOX2025GEEX) | Eth1/45 | 175 S I | s N5K-C5596UP | | | | | |
| Eth1/45 | 20111/ 10 | 170 01 | z won occurren | | | | | |
| | | | | | | | | |
| c1 (FOX2025GEEX) | Eth1/46 | 175 S I | s N5K-C5596UP | | | | | |
| Eth1/46 | | | | | | | | |
| | | | | | | | | |
| c1(FOX2025GEEX) | Eth1/47 | 176 S I | s N5K-C5596UP | | | | | |
| Eth1/47 | | | | | | | | |
| 1 / 50270 0 0 5 0 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 | 7.11/40 | 100 | NEW 05500 | | | | | |
| c1 (FOX2025GEEX) | Ethl/48 | 1/6 S I | s N5K-C5596UP | | | | | |

7. Ensure that the cluster network has full connectivity using the command:

cluster ping-cluster -node node-name

Eth1/48

```
cluster1::*> cluster ping-cluster -node node2
Host is node2
Getting addresses from network interface table...
Cluster nodel clus1 169.254.209.69 node1
Cluster node1 clus2 169.254.49.125 node1
                                               e0b
Cluster node2 clus1 169.254.47.194 node2
                                               e0a
Cluster node2_clus2 169.254.19.183 node2
                                               e0b
Local = 169.254.47.194 169.254.19.183
Remote = 169.254.209.69 169.254.49.125
Cluster Vserver Id = 4294967293
Ping status:
. . . .
Basic connectivity succeeds on 4 path(s)
Basic connectivity fails on 0 path(s)
. . . . . . . . . . . . . . . . . . .
Detected 9000 byte MTU on 4 path(s):
    Local 169.254.19.183 to Remote 169.254.209.69
    Local 169.254.19.183 to Remote 169.254.49.125
    Local 169.254.47.194 to Remote 169.254.209.69
    Local 169.254.47.194 to Remote 169.254.49.125
Larger than PMTU communication succeeds on 4 path(s)
RPC status:
2 paths up, 0 paths down (tcp check)
2 paths up, 0 paths down (udp check)
```

8. Configure a temporary ISL on cs1on ports e1/41-48, between c1 and cs1.

The following example shows how the new ISL is configured on c1 and cs1:

```
cs1# configure
Enter configuration commands, one per line. End with CNTL/Z.
cs1(config) # interface e1/41-48
cs1(config-if-range) # description temporary ISL between Nexus 5596UP and
Nexus 92300YC
cs1(config-if-range)# no lldp transmit
cs1(config-if-range)# no lldp receive
cs1(config-if-range)# switchport mode trunk
cs1(config-if-range) # no spanning-tree bpduguard enable
cs1(config-if-range)# channel-group 101 mode active
cs1(config-if-range)# exit
cs1(config) # interface port-channel 101
cs1(config-if) # switchport mode trunk
cs1(config-if)# spanning-tree port type network
cs1(config-if)# exit
cs1(config)# exit
```

- 9. Remove ISL cables from ports e1/41-48 from c2 and connect the cables to ports e1/41-48 on cs1.
- 10. Verify that the ISL ports and port-channel are operational connecting c1 and cs1:

```
show port-channel summary
```

The following example shows the Cisco show port-channel summary command being used to verify the ISL ports are operational on c1 and cs1:

```
c1# show port-channel summary
Flags: D - Down P - Up in port-channel (members)
       I - Individual H - Hot-standby (LACP only)
       s - Suspended r - Module-removed
       b - BFD Session Wait
       S - Switched R - Routed
       U - Up (port-channel)
       p - Up in delay-lacp mode (member)
       M - Not in use. Min-links not met
Group Port- Type Protocol Member Ports
     Channel
1 Po1(SU) Eth LACP Eth1/41(P) Eth1/42(P)
Eth1/43(P)
                                  Eth1/44(P) Eth1/45(P)
Eth1/46(P)
                                   Eth1/47(P) Eth1/48(P)
cs1# show port-channel summary
Flags: D - Down P - Up in port-channel (members)
       I - Individual H - Hot-standby (LACP only)
       s - Suspended r - Module-removed
       b - BFD Session Wait
       S - Switched R - Routed
       U - Up (port-channel)
       p - Up in delay-lacp mode (member)
       M - Not in use. Min-links not met
Group Port- Type Protocol Member Ports
     Channel
1 Po1(SU) Eth LACP Eth1/65(P) Eth1/66(P)
101 Po101(SU) Eth LACP Eth1/41(P) Eth1/42(P)
Eth1/43(P)
                                  Eth1/44(P) Eth1/45(P)
Eth1/46(P)
                                   Eth1/47(P) Eth1/48(P)
```

11. For node1, disconnect the cable from e1/1 on c2, and then connect the cable to e1/1 on cs2, using

- appropriate cabling supported by Nexus 92300YC.
- 12. For node2, disconnect the cable from e1/2 on c2, and then connect the cable to e1/2 on cs2, using appropriate cabling supported by Nexus 92300YC.
- 13. The cluster ports on each node are now connected to cluster switches in the following way, from the nodes' perspective:

network device-discovery show -protocol cdp

| cluster1:: | *> netwo | rk device-discovery show - | protocol cdp | |
|------------|----------|----------------------------|--------------|----------|
| Node/ | Local | Discovered | | |
| Protocol | Port | Device (LLDP: ChassisID) | Interface | Platform |
| | | | | |
| | | | | |
| node2 | /cdp | | | |
| | e0a | c1 | 0/2 | N5K- |
| C5596UP | | | | |
| | e0b | cs2 | 0/2 | N9K- |
| C92300YC | | | | |
| node1 | /cdp | | | |
| | e0a | c1 | 0/1 | N5K- |
| C5596UP | | | | |
| | e0b | cs2 | 0/1 | N9K- |
| C92300YC | | | | |
| | | | | |
| 4 entries | were dis | played. | | |

- 14. For node1, disconnect the cable from e1/1 on c1, and then connect the cable to e1/1 on cs1, using appropriate cabling supported by Nexus 92300YC.
- 15. For node2, disconnect the cable from e1/2 on c1, and then connect the cable to e1/2 on cs1, using appropriate cabling supported by Nexus 92300YC.
- 16. The cluster ports on each node are now connected to cluster switches in the following way, from the nodes' perspective:

network device-discovery show -protocol cdp

```
cluster1::*> network device-discovery show -protocol cdp
Node/ Local Discovered
Protocol
         Port Device (LLDP: ChassisID) Interface
                                                        Platform
node2 /cdp
                                        0/2
         e0a cs1
                                                       N9K-
C92300YC
         e0b cs2
                                        0/2
                                                       N9K-
C92300YC
node1
     /cdp
         e0a
                                        0/1
               cs1
                                                        N9K-
C92300YC
         e0b cs2
                                        0/1
                                                        N9K-
C92300YC
4 entries were displayed.
```

17. Delete the temporary ISL between cs1 and c1.

```
cs1(config)# no interface port-channel 10
cs1(config)# interface e1/41-48
cs1(config-if-range)# lldp transmit
cs1(config-if-range)# lldp receive
cs1(config-if-range)# no switchport mode trunk
cs1(config-if-range)# no channel-group
cs1(config-if-range)# description 10GbE Node Port
cs1(config-if-range)# spanning-tree bpduguard enable
cs1(config-if-range)# exit
cs1(config)# exit
```

18. Verify the final configuration of the cluster:

```
network port show -ipspace Cluster
```

Each port should display up for Link and healthy for Health Status.

| C+ - + | | | | | | | |
|--|--|--|-------------------------------|---------------------------------|----------------------------|---------------------------------|-------------------|
| Status | | | | | | | |
| | | | | | | | |
| ===== e0a C | luster | Cluster | | 1110 | 0000 | 211+0/10000 | hool+h;; |
| false | ruster | Cluster | | up | 9000 | auto/10000 | пеатспу |
| | luster | Cluster | | 1110 | 9000 | auto/10000 | health; |
| false | ruster | Clustel | | uр | 9000 | aut0/10000 | neartny |
| laise | | | | | | | |
| Node: node2 | | | | | | | |
| Ignore | | | | | | | |
| 5 | | | | | | Speed (Mbps) | Health |
| Health | | | | | | | |
| Port I | Pspace | Broadcast | Domain | Link | MTU | Admin/Oper | Status |
| Status | _ | | | | | _ | |
| | | | | | | | |
| | | | | | | | |
| e0a C | luster | Cluster | | up | 9000 | auto/10000 | healthy |
| false | | | | | | | |
| e0b C | luster | Cluster | | up | 9000 | auto/10000 | healthy |
| false | | | | | | | |
| 4 entries w | ere displaye | ed. | | | | | |
| | ere displaye | | .ow -vse | erver | Clust | cer | |
| | | nterface sh | | | Clust | cer Current | |
| cluster1::* | > network ir | nterface sh | | | Clust | | |
| cluster1::* Current Is | > network ir | nterface sh Status | Netwo | rk | | | Por |
| cluster1::* Current Is Vserver | > network ir Logical | nterface sh Status | Netwo | rk | | Current | Por |
| cluster1::* Current Is Vserver Home | > network in Logical Interface | nterface sh Status | Netwo | rk | | Current | Por |
| Cluster1::* Current Is Vserver Home | > network in Logical Interface | nterface sh Status | Netwo | rk | | Current | Por |
| Cluster1::* Current Is Vserver Home | > network in Logical Interface | Status Admin/Oper | Networ | rk ss/Mas | sk | Current Node | |
| Cluster1::* Current Is Vserver Home Cluster | > network in Logical Interface | Status Admin/Oper | Networ | rk ss/Mas | sk | Current Node | Pori e0a |
| Cluster1::* Current Is Vserver Home Cluster | > network in Logical Interface node1_clus1 | Status Admin/Oper | Network Addres | rk ss/Mas | sk 9.69/1 | Current Node | e0a |
| Cluster1::* Current Is Vserver Home Cluster true | > network in Logical Interface | Status Admin/Oper | Network Addres | rk ss/Mas | sk 9.69/1 | Current Node | |
| Cluster1::* Current Is Vserver Home Cluster true | > network in Logical Interface node1_clus1 | Status Admin/Oper up/up up/up | Address 169.25 | rk ss/Mas 54.209 | sk 9.69/1 | Current Node node node1 node1 | e0a e0b |
| Cluster1::* Current Is Vserver Home Cluster true true | > network in Logical Interface node1_clus1 | Status Admin/Oper up/up up/up | Address 169.25 | rk ss/Mas 54.209 | sk 9.69/1 | Current Node node node1 node1 | e0a |
| cluster1::* Current Is Vserver Home | > network in Logical Interface node1_clus1 node1_clus2 node2_clus1 | Status Admin/Oper up/up up/up up/up up/up | Network Address 169.25 169.25 | rk ss/Mas 54.209 54.49 | sk 9.69/1 .125/1 | Current Node node1 node1 node2 | e0a e0b e0a |
| Cluster1::* Current Is Vserver Home Cluster true true | > network in Logical Interface node1_clus1 | Status Admin/Oper up/up up/up up/up up/up | Network Address 169.25 169.25 | rk ss/Mas 54.209 54.49 | sk 9.69/1 .125/1 | Current Node node1 node1 node2 | e0a e0b |
| Cluster1::* Current Is Vserver Home Cluster true true | > network in Logical Interface node1_clus1 node1_clus2 node2_clus1 | Status Admin/Oper up/up up/up up/up up/up | Network Address 169.25 169.25 | rk ss/Mas 54.209 54.49 | sk 9.69/1 .125/1 | Current Node node1 node1 node2 | e0a e0b e0a |
| Cluster1::* Current Is Vserver Home Cluster true true true | > network in Logical Interface node1_clus1 node1_clus2 node2_clus1 node2_clus2 | Status Admin/Oper up/up up/up up/up up/up up/up up/up | Network Address 169.25 169.25 | rk ss/Mas 54.209 54.49 | sk 9.69/1 .125/1 | Current Node node1 node1 node2 | e0a e0b e0a |
| Current Is //server Home Cluster true true true | > network in Logical Interface node1_clus1 node1_clus2 node2_clus1 | Status Admin/Oper up/up up/up up/up up/up up/up up/up | Network Address 169.25 169.25 | rk ss/Mas 54.209 54.49 | sk 9.69/1 .125/1 | Current Node node1 node1 node2 | e0a e0b e0a |

| Device (LLDP: cs1 cs2 | ChassisID) | 0/2 0/2 | ace | Platform |
|------------------------------------|--|--|--|---|
| cs2 | | | | N9K- |
| | | 0/2 | | |
| | | 0/2 | | |
| | | | | N9K- |
| 4 | | | | |
| | | 0 /1 | | |
| cs1 | | 0/1 | | N9K- |
| 002 | | 0 / 1 | | NOV |
| CSZ | | U/I | | N9K- |
| | | | | |
| ртауса. | | | | |
| hbors | | | | |
| | | | | |
| S - Switch, H - V - VoIP-Phone, | Host, I - D - Remote | IGMP, r | - Repeater, | _ |
| 5 Suppores Si | 1 Dispute | | | |
| Local Intrfce | Hldtme Cap | ability | Platform | Port |
| Eth1/1 | 124 Н | | FAS2750 | |
| Eth1/2 | 124 н | | FAS2750 | |
| | | | | |
| | 170 D | STG | N9K-C92300Y | 7.0 |
| Eth1/65 | 179 R | 5 1 5 | 1,311 0,2000 | |
| | S - Switch, H - V - VoIP-Phone, s - Supports-ST Local Intrfce Eth1/1 | played. hbors R - Router, T - Trans-Brid S - Switch, H - Host, I - V - VoIP-Phone, D - Remote s - Supports-STP-Dispute Local Intrfce Hldtme Cap Eth1/1 124 H | played. hbors R - Router, T - Trans-Bridge, B - S - Switch, H - Host, I - IGMP, r V - VoIP-Phone, D - Remotely-Manages - Supports-STP-Dispute Local Intrfce Hldtme Capability Eth1/1 124 H | played. hbors R - Router, T - Trans-Bridge, B - Source-Rout S - Switch, H - Host, I - IGMP, r - Repeater, V - VoIP-Phone, D - Remotely-Managed-Device, s - Supports-STP-Dispute Local Intrfce Hldtme Capability Platform Eth1/1 124 H FAS2750 |

| ID | | | | |
|------------------|---------|-----|---------|--------------|
| node1 | Eth1/1 | 124 | Н | FAS2750 |
| e0b | / - | | | |
| node2 | Eth1/2 | 124 | Н | FAS2750 |
| e0b | | | | |
| cs1(FD0220329KU) | | | | |
| | Eth1/65 | 179 | R S I s | N9K-C92300YC |
| Eth1/65 | | | | |
| cs1(FD0220329KU) | | | | |
| | Eth1/66 | 179 | RSIs | N9K-C92300YC |
| Eth1/66 | | | | |

Total entries displayed: 4

19. Ensure that the cluster network has full connectivity:

cluster ping-cluster -node node-name

```
cluster1::*> set -priv advanced
Warning: These advanced commands are potentially dangerous; use them
only when
         directed to do so by NetApp personnel.
Do you want to continue? \{y|n\}: y
cluster1::*> cluster ping-cluster -node node2
Host is node2
Getting addresses from network interface table...
Cluster node1 clus1 169.254.209.69 node1
Cluster node1 clus2 169.254.49.125 node1
                                              e0b
Cluster node2 clus1 169.254.47.194 node2
                                              e0a
Cluster node2 clus2 169.254.19.183 node2
                                              e0b
Local = 169.254.47.194 169.254.19.183
Remote = 169.254.209.69 169.254.49.125
Cluster Vserver Id = 4294967293
Ping status:
. . . .
Basic connectivity succeeds on 4 path(s)
Basic connectivity fails on 0 path(s)
. . . . . . . . . . . . . . . . . . .
Detected 9000 byte MTU on 4 path(s):
    Local 169.254.19.183 to Remote 169.254.209.69
    Local 169.254.19.183 to Remote 169.254.49.125
    Local 169.254.47.194 to Remote 169.254.209.69
    Local 169.254.47.194 to Remote 169.254.49.125
Larger than PMTU communication succeeds on 4 path(s)
RPC status:
2 paths up, 0 paths down (tcp check)
2 paths up, 0 paths down (udp check)
cluster1::*> set -privilege admin
cluster1::*>
```

20. For ONTAP 9.4 and later, enable the cluster switch health monitor log collection feature for collecting switch-related log files, using the commands:

system cluster-switch log setup-password and system cluster-switch log enable-collection

```
cluster1::*> system cluster-switch log setup-password
Enter the switch name: <return>
The switch name entered is not recognized.
Choose from the following list:
cs1
cs2
cluster1::*> system cluster-switch log setup-password
Enter the switch name: cs1
RSA key fingerprint is e5:8b:c6:dc:e2:18:18:09:36:63:d9:63:dd:03:d9:cc
Do you want to continue? {y|n}::[n] y
Enter the password: <enter switch password>
Enter the password again: <enter switch password>
cluster1::*> system cluster-switch log setup-password
Enter the switch name: cs2
RSA key fingerprint is 57:49:86:a1:b9:80:6a:61:9a:86:8e:3c:e3:b7:1f:b1
Do you want to continue? \{y|n\}:: [n] y
Enter the password: <enter switch password>
Enter the password again: <enter switch password>
cluster1::*> system cluster-switch log enable-collection
Do you want to enable cluster log collection for all nodes in the
cluster?
{y|n}: [n] y
Enabling cluster switch log collection.
cluster1::*>
```



If any of these commands return an error, contact NetApp support.

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