

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

ONTAP Systems 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.

Cisco Ethernet Switches



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.

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

```
\verb|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:

```
cluster1::*> **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

<pre>cluster1::*> **network port show -ipspace Cluster**</pre>								
Node: node1								
Ignore						Chard (Mbna)	IIool+b	
Health						Speed (Mbps)	пеатип	
Port	IPspace	Broadcast Do	omain	Link	MTU	Admin/Oper	Status	
Status								
e0a	Cluster	Cluster		up	9000	auto/10000	healthy	
false					0000	/10000	1 7.1	
eub false	Cluster	Cluster		up	9000	auto/10000	nealtny	
Node: nod	e2							
Ignore								
3						Speed (Mbps)	Health	
Health				- ' 1		7.1.1.70	~	
Port Status	IPspace	Broadcast Do	omaın	Link	M'I'U	Admin/Oper	Status	
					0000	. /1.0000		
e0a false	Cluster	Cluster		up	9000	auto/10000	nealthy	
	Cluster	Cluster		up	9000	auto/10000	healthy	
false								
4 entries	were display	ed						
4 entries were displayed.								

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.

<pre>cluster1::*> **network interface show -vserver Cluster**</pre>								
		Logical	Status	Network	Current			
Current	Is							
Vserver		Interface	Admin/Oper	Address/Mask	Node			
Port	Hom	е						
		_						
Cluster								
		node1_clus1	up/up	169.254.209.69/16	node1			
e0a	tru	е						
		node1_clus2	up/up	169.254.49.125/16	node1			
e0b	tru	е						
		node2_clus1	up/up	169.254.47.194/16	node2			
e0a	tru	е						
		node2_clus2	up/up	169.254.19.183/16	node2			
e0b	tru	е						
4 entrie	es w	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	Discover	ed			
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
                 Local Intrfce Hldtme Capability Platform
Port ID
               Eth1/1 124 H
node1
                                          FAS2750
e0a
node2
               Eth1/2
                           124 H
                                           FAS2750
e0a
c2(FOX2025GEFC) Eth1/41
                           179 S I s N5K-C5596UP
Eth1/41
c2(FOX2025GEFC) Eth1/42
                           175 S I s N5K-C5596UP
Eth1/42
c2(FOX2025GEFC) Eth1/43 179 S I s N5K-C5596UP
Eth1/43
c2(FOX2025GEFC) Eth1/44
                             175 S I s N5K-C5596UP
Eth1/44
c2 (FOX2025GEFC) Eth1/45
                            179 S I s N5K-C5596UP
Eth1/45
c2(FOX2025GEFC) Eth1/46 179 S I s N5K-C5596UP
Eth1/46
c2(FOX2025GEFC) Eth1/47 175 S I s N5K-C5596UP
Eth1/47
c2(FOX2025GEFC) Eth1/48 179 S I s N5K-C5596UP
Eth1/48
Total entries displayed: 10
c2# **show cdp neighbors**
Capability Codes: R - Router, T - Trans-Bridge, B - Source-Route-Bridge
```

			GMP, r - Repeater,	
			y-Managed-Device,	
	s - Supports-S	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

Node/	Local	Discovered		
		Device (LLDP: ChassisID)	Interface	Platform
				riderorm
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				

- 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
         Port Device (LLDP: ChassisID) Interface
                                                        Platform
Protocol
node2 /cdp
                                        0/2
         e0a cs1
                                                        N9K-
C92300YC
                                        0/2
         e0b cs2
                                                        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.

```
csl(config)# **no interface port-channel 10**1
csl(config)# **interface e1/41-48**
csl(config-if-range)# **lldp transmit**
csl(config-if-range)# **lldp receive**
csl(config-if-range)# **no switchport mode trunk**
csl(config-if-range)# **no channel-group**
csl(config-if-range)# **description 10GbE Node Port**
csl(config-if-range)# **spanning-tree bpduguard enable**
csl(config-if-range)# **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.

```
Cluster1::*> **network port show -ipspace Cluster**

Node: node1

Ignore

Speed(Mbps) Health
Health
Port IPspace Broadcast Domain Link MTU Admin/Oper Status
```

e0a C	Cluster	Cluster		up	9000	auto/10000	healthy
false							
e0b C	Cluster	Cluster		up	9000	auto/10000	healthy
false							
Node: node2	2						
Ignore							
						Speed (Mbps)	Health
Health	- Dana a a a	December	Damaia	T - 1 1-	MITT	7	C+ - +
	rspace	Broadcast	Domain	ТТПК	MTO	Admin/Oper	Status
Status 							
e0a C	Cluster	Cluster		up	9000	auto/10000	healthy
false							_
e0b C	Cluster	Cluster		up	9000	auto/10000	healthy
false 4 entries w	vere displaye	ed.	show -		ar Clu	18+0r**	
false 4 entries w	were displayers> **network	ed. interface			er Clı	ıster** Current	
false 4 entries w	vere displaye	ed. interface			er Clı		
false 4 entries w cluster1::* Current Is Vserver	were displayers> **network	ed. interface Status	Netwo:	rk			Por
false 4 entries w cluster1::* Current Is Vserver	were displayers *> **network Logical	ed. interface Status	Netwo:	rk		Current	Por
false 4 entries w cluster1::* Current Is Vserver Home	were displayers **network Logical Interface	interface Status Admin/Oper	Networ	rk ss/Mas	sk 	Current Node	
false 4 entries w cluster1::* Current Is Vserver Home Cluster	were displayers *> **network Logical	interface Status Admin/Oper	Networ	rk ss/Mas	sk 	Current Node	Port
false 4 entries w cluster1::* Current Is Vserver Home Cluster	were displayers **network Logical Interface node1_clus	interface Status Admin/Oper	Network Addres	rk ss/Mas	sk 9.69/1	Current Node	 e0a
false 4 entries w cluster1::* Current Is Vserver Home Cluster true	were displayers **network Logical Interface	interface Status Admin/Oper	Network Addres	rk ss/Mas	sk 9.69/1	Current Node	
false 4 entries w cluster1::* Current Is Vserver Home Cluster true	vere displayers **network Logical Interface node1_clus2	interface Status Admin/Oper	Netwo: Addres 169.23	rk ss/Mas 54.209	sk 9.69/1	Current Node Node node1 node1	e0a e0b
false 4 entries w cluster1::* Current Is Vserver Home Cluster true true	were displayers **network Logical Interface node1_clus	interface Status Admin/Oper	Netwo: Addres 169.23	rk ss/Mas 54.209	sk 9.69/1	Current Node Node node1 node1	 e0a
false 4 entries w cluster1::* Current Is Vserver Home Cluster true true	were displayers **network Logical Interface node1_clus: node1_clus: node2_clus:	interface Status Admin/Oper up/up up/up up/up up/up	Netwo: Addres 169.25 169.25	rk ss/Mas 54.209 54.49	sk 9.69/1 .125/1	Current Node 16 node1 16 node1 16 node2	e0a e0b e0a
false 4 entries w cluster1::* Current Is Vserver Home Cluster true true	vere displayers **network Logical Interface node1_clus2	interface Status Admin/Oper up/up up/up up/up up/up	Netwo: Addres 169.25 169.25	rk ss/Mas 54.209 54.49	sk 9.69/1 .125/1	Current Node 16 node1 16 node1 16 node2	e0a e0b
false 4 entries w cluster1::* Current Is Vserver Home Cluster true	were displayers **network Logical Interface node1_clus: node1_clus: node2_clus:	interface Status Admin/Oper up/up up/up up/up up/up	Netwo: Addres 169.25 169.25	rk ss/Mas 54.209 54.49	sk 9.69/1 .125/1	Current Node 16 node1 16 node1 16 node2	e0a e0b e0a

```
cluster1::*> **network device-discovery show -protocol cdp**
Node/
        Local Discovered
Protocol
        Port Device (LLDP: ChassisID) Interface
                                                   Platform
-----
-----
node2 /cdp
         e0a cs1
                                     0/2
                                                    N9K-
C92300YC
                                     0/2
                                                   N9K-
         e0b cs2
C92300YC
node1
      /cdp
         e0a cs1
                                     0/1
                                                   N9K-
C92300YC
         e0b cs2
                                     0/1
                                                   N9K-
C92300YC
4 entries were displayed.
cs1# **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 Local Intrfce Hldtme Capability Platform Port
ΙD
node1
              Eth1/1 124 H FAS2750
e0a
node2
              Eth1/2 124 H FAS2750
e0a
cs2(FDO220329V5) Eth1/65 179 R S I s N9K-C92300YC
Eth1/65
cs2(FDO220329V5) Eth1/66 179 R S I s N9K-C92300YC
Eth1/66
cs2# **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 Local Intrfce Hldtme Capability Platform
                                                       Port
```

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:

system cluster-switch log setup-password ystem 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:
NBS-NIC-NXYC-01
NBS-NIC-NXYC-02
cluster1::*> **system cluster-switch log setup-password**
Enter the switch name: **NBS-NIC-NXYC-01
**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: **NBS-NIC-NXYC-02**
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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