

Replace a Cisco Nexus 3232C storage switch

ONTAP Systems Switches

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Replace a Cisco Nexus 3232C storage switch

You must be aware of certain configuration information, port connections and cabling requirements when you replace Cisco Nexus 3232C storage switches.

You must verify the following conditions exist before installing the NX-OS software and RCFs on a Cisco Nexus storage switch:

- Your system can support Cisco Nexus 3232C storage switches.
- You must have consulted the switch compatibility table on the Cisco Ethernet Switch page for the supported ONTAP, NX-OS, and RCF versions.



You should be aware there can be dependencies between command syntax in the RCF and NX-OS versions.

- You must have referred to the appropriate software and upgrade guides available on the Cisco web site for complete documentation on the Cisco switch upgrade and downgrade procedures. Cisco Nexus 3000 Series Switches
- You must have downloaded the applicable RCFs.

Steps to replace a Cisco Nexus 3232C storage switch

You can nondisruptively replace a defective Cisco Nexus 3232C storage switch by performing a specific sequence of tasks.

What you'll need

The existing network configuration must have the following characteristics:

- The Cisco Ethernet Switches page has the latest RCF and NX-OS versions on your switches.
- · Management connectivity must exist on both switches. -

Make sure that all troubleshooting steps have been completed to confirm that your switch needs replacing.

The replacement Cisco Nexus 3232C switch must have the following characteristics:

- Management network connectivity must be functional.
- Console access to the replacement switch must be in place.
- The appropriate RCF and NX-OS operating system image must be loaded onto the switch.
- Initial customization of the switch must be complete.

Procedure summary:

- Confirm the switch to be replaced is S2 (Steps 1-5)
- Disconnect the cables from switch S2 (Step 6)

- Reconnect the cables to switch NS2 (Step 7)
- Verify all device configurations on switch NS2 (Steps 8-10)
- This procedure replaces the second Nexus 3232C storage switch S2 with the new 3232C switch NS2
- The two nodes are node1 and node2.

Steps

1. 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

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.

2. Check on the health status of the storage node ports to make sure that there is connection to storage switch S1: storage port show -port-type ENET

				Speed			VLAN
Node	Port	Туре	Mode	(Gb/s)	State	Status	ID
 node1							
	e3a	ENET	storage	100	enabled	online	30
	e3b	ENET	storage	0	enabled	offline	30
	e7a	ENET	storage	0	enabled	offline	30
	e7b	ENET	storage	0	enabled	offline	30
node2							
	e3a	ENET	storage	100	enabled	online	30
	e3b	ENET	storage	0	enabled	offline	30
	e7a	ENET	storage	0	enabled	offline	30
	e7b	ENET	storage	0	enabled	offline	30

3. Verify that storage switch S1 is available: network device-discovery show

storage::*>	networ	k device-discovery show		
Node/	Local	Discovered		
Protocol	Port	Device (LLDP: ChassisID)	Interface	Platform
				-
node1/cdp				
110001, 00p	e3a	S1	Ethernet1/1	NX3232C
	e4a	node2	e4a	AFF-A700
	e4e	node2	e4e	AFF-A700
node1/lldp				
	e3a	S1	Ethernet1/1	_
	e4a	node2	e4a	_
	e4e	node2	e4e	_
node2/cdp				
	e3a	S1	Ethernet1/2	NX3232C
	e4a	node1	e4a	AFF-A700
	e4e	node1	e4e	AFF-A700
node2/11dp				
	e3a	S1	Ethernet1/2	_
	e4a	node1	e4a	-
	e4e	node1	e4e	_

4. Run the show lldp neighbors command on the working switch to confirm that you can see both nodes and all shelves: show lldp neighbors

```
S1# show lldp neighbors
Capability codes:
  (R) Router, (B) Bridge, (T) Telephone, (C) DOCSIS Cable Device
  (W) WLAN Access Point, (P) Repeater, (S) Station, (O) Other
Device ID
                        Local Intf
                                        Hold-time Capability Port ID
node1
                        Eth1/1
                                        121
                                                    S
                                                                еЗа
node2
                        Eth1/2
                                        121
                                                    S
                                                                еЗа
                        Eth1/5
SHFGD2008000011
                                        121
                                                    S
                                                                e0a
SHFGD2008000011
                        Eth1/6
                                        120
                                                    S
                                                                e0a
SHFGD2008000022
                        Eth1/7
                                        120
                                                    S
                                                                e0a
SHFGD2008000022
                        Eth1/8
                                        120
                                                    S
                                                                e0a
```

5. Verify the shelf ports in the storage system: storage shelf port show -fields remote-device, remote-port

- 6. Remove all cables attached to storage switch S2.
- 7. Reconnect all cables to the replacement switch NS2.
- 8. Recheck the health status of the storage node ports: storage port show -port-type ENET

storage::*> storage port show -port-type ENET							
				Speed			VLAN
Node	Port	Type	Mode	(Gb/s)	State	Status	ID
node1							
	e3a	ENET	storage	100	enabled	online	30
	e3b	ENET	storage	0	enabled	offline	30
	e7a	ENET	storage	0	enabled	offline	30
	e7b	ENET	storage	100	enabled	online	30
node2							
	e3a	ENET	storage	100	enabled	online	30
	e3b	ENET	storage	0	enabled	offline	30
	e7a	ENET	storage	0	enabled	offline	30
	e7b	ENET	storage	100	enabled	online	30

9. Verify that both switches are available: network device-discovery show

storage::*>	networ	k device-discovery show		
Node/	Local	Discovered		
Protocol	Port	Device (LLDP: ChassisID)	Interface	Platform
node1/cdp				
	e3a	S1	Ethernet1/1	NX3232C
	e4a	node2	e4a	AFF-A700
	e4e	node2	e4e	AFF-A700
	e7b	NS2	Ethernet1/1	NX3232C
node1/lldp				
	e3a	S1	Ethernet1/1	-
	e4a	node2	e4a	_
	e4e	node2	e4e	-
	e7b	NS2	Ethernet1/1	-
node2/cdp				
	e3a	S1	Ethernet1/2	NX3232C
	e4a	node1	e4a	AFF-A700
	e4e	node1	e4e	AFF-A700
	e7b	NS2	Ethernet1/2	NX3232C
node2/11dp				
	e3a	S1	Ethernet1/2	-
	e4a	node1	e4a	_
	e4e	node1	e4e	_
	e7b	NS2	Ethernet1/2	_

10. Verify the shelf ports in the storage system: storage shelf port show -fields remotedevice, remote-port

11. If you suppressed automatic case creation, re-enable it by invoking an AutoSupport message: system node autosupport invoke -node * -type all -message MAINT=END

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