

Replace a Cisco Nexus 3232C storage switch

Cluster and storage switches

NetApp November 09, 2022

This PDF was generated from https://docs.netapp.com/us-en/ontap-systems-switches/switch-cisco-3232c/task-steps-to-replace-a-cisco-nexus-3232c-storage-switch.html on November 09, 2022. Always check docs.netapp.com for the latest.

Table of Contents

Replace a Cisco Nexus 3232C storage switch	 . 1
Steps to replace a Cisco Nexus 3232C storage switch	 . 1

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 at 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.

Before you begin

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

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	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
	5 / 2		202490	Ü	21100200	3111110	0.0

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

_		k device-discovery show		
		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
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 remotedevice, 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::*> st	orage por	t show	-port-ty	pe ENE	Γ		
				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 remote-device, 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

Copyright information

Copyright © 2022 NetApp, Inc. All Rights Reserved. Printed in the U.S. No part of this document covered by copyright may be reproduced in any form or by any means—graphic, electronic, or mechanical, including photocopying, recording, taping, or storage in an electronic retrieval system—without prior written permission of the copyright owner.

Software derived from copyrighted NetApp material is subject to the following license and disclaimer:

THIS SOFTWARE IS PROVIDED BY NETAPP "AS IS" AND WITHOUT ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WHICH ARE HEREBY DISCLAIMED. IN NO EVENT SHALL NETAPP BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

NetApp reserves the right to change any products described herein at any time, and without notice. NetApp assumes no responsibility or liability arising from the use of products described herein, except as expressly agreed to in writing by NetApp. The use or purchase of this product does not convey a license under any patent rights, trademark rights, or any other intellectual property rights of NetApp.

The product described in this manual may be protected by one or more U.S. patents, foreign patents, or pending applications.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

Trademark information

NETAPP, the NETAPP logo, and the marks listed at http://www.netapp.com/TM are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.