



Recable and zone a switch fabric for the new nodes

ONTAP MetroCluster

NetApp
December 22, 2022

This PDF was generated from https://docs.netapp.com/us-en/ontap-metrocluster/upgrade/task_disconnect_the_exist_dr_group_mcc_expansion.html on December 22, 2022. Always check docs.netapp.com for the latest.

Table of Contents

- Recable and zone a switch fabric for the new nodes 1
 - Disconnecting the existing DR group from the fabric 1
 - Recable and reconfigure the switches 1

Recable and zone a switch fabric for the new nodes

Disconnecting the existing DR group from the fabric

You must disconnect the existing controller modules from the FC switches in the fabric.

About this task

This task must be performed at each MetroCluster site.

Steps

1. Disable the HBA ports that connect the existing controller modules to the switch fabric undergoing maintenance:

```
storage port disable -node node-name -port port-number
```

2. On the local FC switches, remove the cables from the ports for the existing controller module's HBA, FC-VI, and ATTO bridges.

You should label the cables for easy identification when you re-cable them. Only the ISL ports should remain cabled.

Recable and reconfigure the switches

You must apply the RCF files to reconfigure your zoning to accommodate the new nodes.

If you cannot use the RCF files to configure the switches, you must configure the switches manually. See:

- [Configure the Brocade FC switches manually](#)
- [Configure the Cisco FC switches manually](#)

Steps

1. Locate the RCF files for your configuration.

You must use the RCF files for an eight-node configuration and that match your switch model.

2. Apply the RCF files, following the directions on the download page, adjusting the ISL settings as needed.
3. Ensure that the switch configuration is saved.
4. Reboot the FC switches.
5. Cable both the pre-existing and the new FC-to-SAS bridges to the FC switches, using the cabling layout you created previously.

The FC switch port usage must match the MetroCluster eight-node usage described in [Fabric-attached MetroCluster installation and configuration](#) so that the Reference Configuration Files (RCFs) can be used.

6. Verify that the ports are online by using the correct command for your switch.

Switch vendor	Command
---------------	---------

Brocade	switchshow
Cisco	show interface brief

7. Use the procedure in [Fabric-attached MetroCluster installation and configuration](#) to cable the FC-VI ports from the existing and new controllers, using the cabling layout you created previously.

The FC switch port usage must match the MetroCluster eight-node usage described in [Fabric-attached MetroCluster installation and configuration](#) so that the Reference Configuration Files (RCFs) can be used.

8. From the existing nodes, verify that the FC-VI ports are online:

```
metrocluster interconnect adapter show
```

```
metrocluster interconnect mirror show
```

9. Cable the HBA ports from the current and the new controllers.
10. On the existing controller modules, e-enable the ports connected to the switch fabric undergoing maintenance:

```
storage port enable -node node-name -port port-ID
```

11. Start the new controllers and boot them into Maintenance mode:

```
boot_ontap maint
```

12. Verify that only storage that will be used by the new DR group is visible to the new controller modules.

None of the storage that is used by the other DR group should be visible.

13. Return to the beginning of this process to re-cable the second switch fabric.

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.