



Choosing an upgrade or refresh method

ONTAP MetroCluster

aherbin, Megan Bock, netapp-ivanad, netapp-martyh, ntap-bmegan
April 19, 2021

This PDF was generated from https://docs.netapp.com/us-en/ontap-metrocluster/upgrade/concept_choosing_an_upgrade_method_mcc.html on April 28, 2021. Always check docs.netapp.com for the latest.

Table of Contents

- Choosing an upgrade or refresh method 1
 - Choosing a procedure that does not use aggregate relocation 1
 - Choosing a procedure using aggregate relocation 2

Choosing an upgrade or refresh method

The upgrade or refresh procedure you use depends on the platform model, scope of the upgrade, and type of MetroCluster configuration.

There are different types of upgrade and refresh procedures.

- Upgrade procedures apply only to the controller modules. The controllers are replaced with a new controller model.

The storage shelf models are not upgraded.

- In switchover and switchback procedures, the MetroCluster switchover operation is used to provide nondisruptive service to clients while the controller modules on the partner cluster are upgraded.
- In an ARL-based controller upgrade procedure, the aggregate relocation operations are used to nondisruptively move data from the old configuration to the new, upgraded configuration.
- Refresh procedures apply to the controllers and the storage shelves.

In the refresh procedures, new controllers and shelves are added to the MetroCluster configuration, creating a second DR group, and then data is nondisruptively migrated to the new nodes.

The original controllers are then retired.

Choosing a procedure that does not use aggregate relocation

Type of upgrade or refresh	MetroCluster type	First ONTAP version support	Procedure
<ul style="list-style-type: none">• Scope: Platform (controller modules) only• Method: Switchover/switchback	FC	9.8	Upgrading controllers in a MetroCluster FC configuration using switchover and switchback
<ul style="list-style-type: none">• Scope: Platform (controller modules) only• Method: Switchover/switchback	IP	9.8	Upgrading controllers in a MetroCluster IP configuration using switchover and switchback (ONTAP 9.8 and later)

Type of upgrade or refresh	MetroCluster type	First ONTAP version support	Procedure
<ul style="list-style-type: none"> • Scope: Platform (controller modules) and storage shelves • Method: Expand the MetroCluster configuration and then remove the old nodes 	FC	9.6 and later	Refreshing a four-node MetroCluster FC configuration
<ul style="list-style-type: none"> • Scope: Platform (controller modules) and storage shelves • Method: Expand the MetroCluster configuration and then remove the old nodes 	IP	9.8	Refreshing a four-node MetroCluster IP configuration (ONTAP 9.8 and later)

Choosing a procedure using aggregate relocation

Aggregate relocation procedure	MetroCluster type	First ONTAP version support	Procedure
Using system controller replace commands	FC	9.8 and later	Using “system controller replace” Commands to Upgrade Controller Hardware Running ONTAP 9.8
Using system controller replace commands	FC	9.5 through 9.7	Using “system controller replace” Commands to Upgrade Controller Hardware Running ONTAP 9.5 to ONTAP 9.7
Using manual ARL commands	FC	9.8	Using Aggregate Relocation to Manually Upgrade Controller Hardware Running ONTAP 9.8 and Later
Using manual ARL commands	FC	9.7 and earlier	Upgrading Controllers with Aggregate Relocation to Manually Upgrade Controller Hardware Running ONTAP 9.7 and Earlier

Copyright Information

Copyright © 2021 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.

RESTRICTED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (c)(1)(ii) of the Rights in Technical Data and Computer Software clause at DFARS 252.277-7103 (October 1988) and FAR 52-227-19 (June 1987).

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.