



Deciding which procedure to use

ONTAP MetroCluster

netapp-martyh, ntap-bmegan, zachary wambold
April 26, 2021

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

Table of Contents

Deciding which procedure to use 1

Deciding which procedure to use

You must understand the differences between a MetroCluster upgrade, expansion, or transition and choose the procedure that matches your goal.

- **Upgrade**

In an upgrade procedure, you are replacing the controller modules with a new model of controller module.

- The old controller modules are retired.
- The storage is not upgraded.
- The storage switch infrastructure technology is not changed.

It remains as a MetroCluster IP, fabric-attached MetroCluster or stretch MetroCluster configuration.

[Choosing an upgrade or refresh method](#)

- **Refresh**

In a refresh procedure, you are replacing the controller modules with a new model of controller module and also replacing the storage shelves.

- The old controller modules and storage shelves are retired.
- The storage switch infrastructure technology is not changed, unless new switches are required to accommodate the new platform models.

The configuration remains as its original type:

- MetroCluster IP
- Fabric-attached MetroCluster
- Stretch MetroCluster configuration + [Choosing an upgrade or refresh method](#)

- **Transition**

In a transition procedure, the backend switch infrastructure is changed from FC switches or connections to IP switches, and the platform models are replaced.

- New controller modules are added to the configuration.
- The original controller modules are retired after the procedure.
- If the original configuration used cluster interconnect switches, they can be reused, depending on the switch and platform models.
- The storage can be reused or replaced, depending on the platform models.

If the storage shelves are not reused, data is moved from the old shelves to the new shelves.

[xref:../transition/index.html](#)

- **Expansion**

In an expansion procedure, additional nodes and storage are added to the MetroCluster FC configuration.

- [Expanding a two-node MetroCluster FC configuration to a four-node configuration](#)
- [Expanding a four-node MetroCluster FC configuration to an eight-node configuration](#)

REMOVED LINK FOR MIGRATION

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.