



Transitioning primary and secondary systems in a SnapMirror relationship in parallel

ONTAP 7-Mode Transition

Barb Einarsen, Ivana Devine
June 11, 2021

Table of Contents

Transitioning primary and secondary systems in a SnapMirror relationship in parallel 1

Transitioning primary and secondary systems in a SnapMirror relationship in parallel

You can transition the primary and secondary HA pairs that contain the volumes of a 7-Mode SnapMirror relationship in parallel. You must then manually set up the volume SnapMirror relationship in clustered Data ONTAP after transition. The SnapMirror relationship is retained after transition without requiring a rebaseline.

You must have prepared the source and destination clusters for transitioning the SnapMirror relationships.

Preparing the cluster for transitioning volume SnapMirror relationships

You must transition both the secondary and primary HA pairs in the same cutover window.

Steps

1. From the 7-Mode Transition Tool, perform a copy-free transition of the two HA pairs that contain the primary and secondary volumes of the 7-Mode volume SnapMirror relationship.

Before transitioning the 7-Mode HA pair that contains the secondary volumes, no manual intervention is required for the 7-Mode SnapMirror relationships. This ensures that the 7-Mode secondary volumes are transitioned as read-only volumes to ONTAP.

Transitioning 7-Mode aggregates using copy-free transition

2. Create an intercluster SVM peer relationship between the SVMs that contain the transitioned primary and secondary volumes.

System administration

3. Create a volume SnapMirror relationship between the transitioned primary and secondary volumes.

Volume disaster recovery express preparation

4. On the destination volume, resynchronize the source volume and destination volume of the SnapMirror relationship:

```
snapmirror resync
```



At least one common Snapshot copy must exist between the source and destination volumes.

Troubleshooting: SnapMirror resynchronization fails if the common Snapshot copy was created in a Data ONTAP release earlier than 8.1. You can use the `-fs-version` parameter with the `volume snapshot show` command in the advanced privilege level to view the release in which the Snapshot copy was created. If you encounter this issue, break the SnapMirror relationship and then perform the resynchronization.

5. Monitor the status of the SnapMirror data transfers:

```
snapmirror show
```



You must not perform any operation, such as volume move or SnapMirror break, on the source and destination volumes until the resynchronization is completed successfully. Ensure that the resynchronization does not get aborted and completes successfully; otherwise, the volumes can go to an inconsistent state.

6. Commit the transition of the secondary project, followed by the primary project.

[Committing the copy-free transition project](#)

Related information

[ONTAP 9 commands](#)

[System Manager](#)

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.