



# **SnapMirror Business Continuity overview**

## **ONTAP System Manager**

NetApp  
December 18, 2020

# Table of Contents

- SnapMirror Business Continuity . . . . . 1
  - SnapMirror Business Continuity overview . . . . . 1
  - Configure Mediator. . . . . 2
  - Configure protection for business continuity . . . . . 3
  - Reestablish the original protection relationship after an unplanned failover . . . . . 3

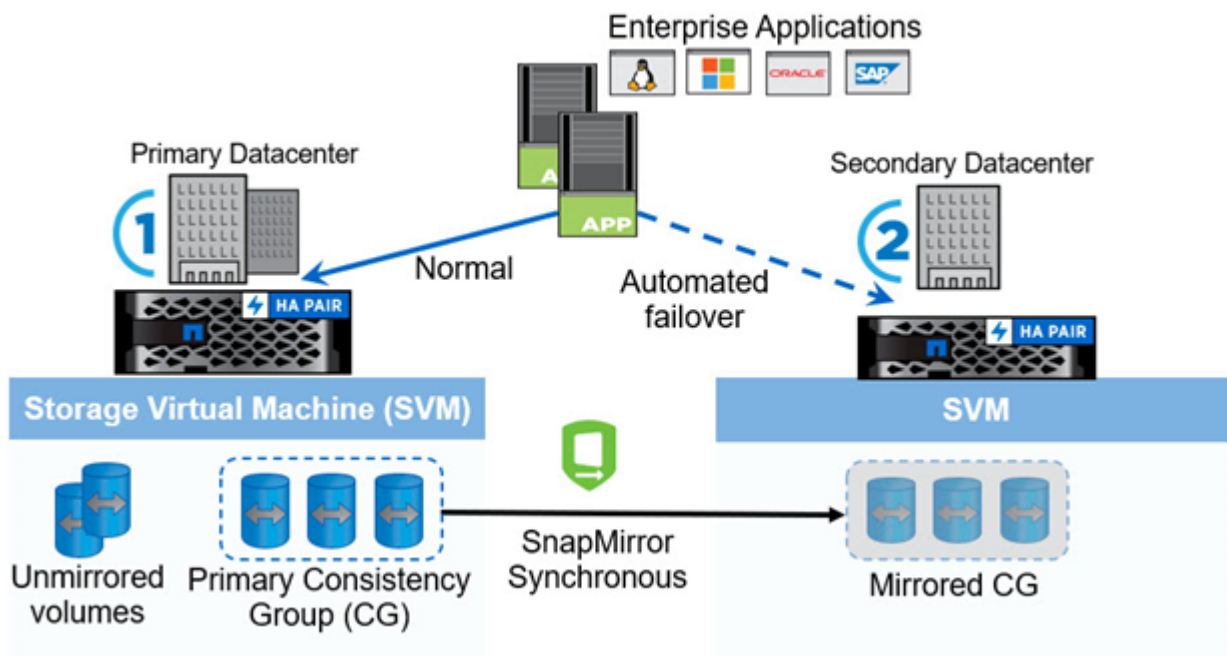
# SnapMirror Business Continuity

## SnapMirror Business Continuity overview

Starting in ONTAP 9.8, you can use System Manager to protect LUNs for transparent application failover, enabling applications to fail over automatically for business continuity when using two AFF clusters or two All SAN Array (ASA) clusters. Your clusters cannot be mixed; they must consist of two AFF clusters or two ASA clusters. Protection for business continuity supports iSCSI and FCP protocols.

The SnapMirror Business Continuity provides the following benefits:

- Automated failover of business-critical applications
- Simplified application management, using consistency groups for dependent write-order consistency
- The ability to test failover for each application
- Instantaneous creation of mirror clones without impacting application availability



## Requirements

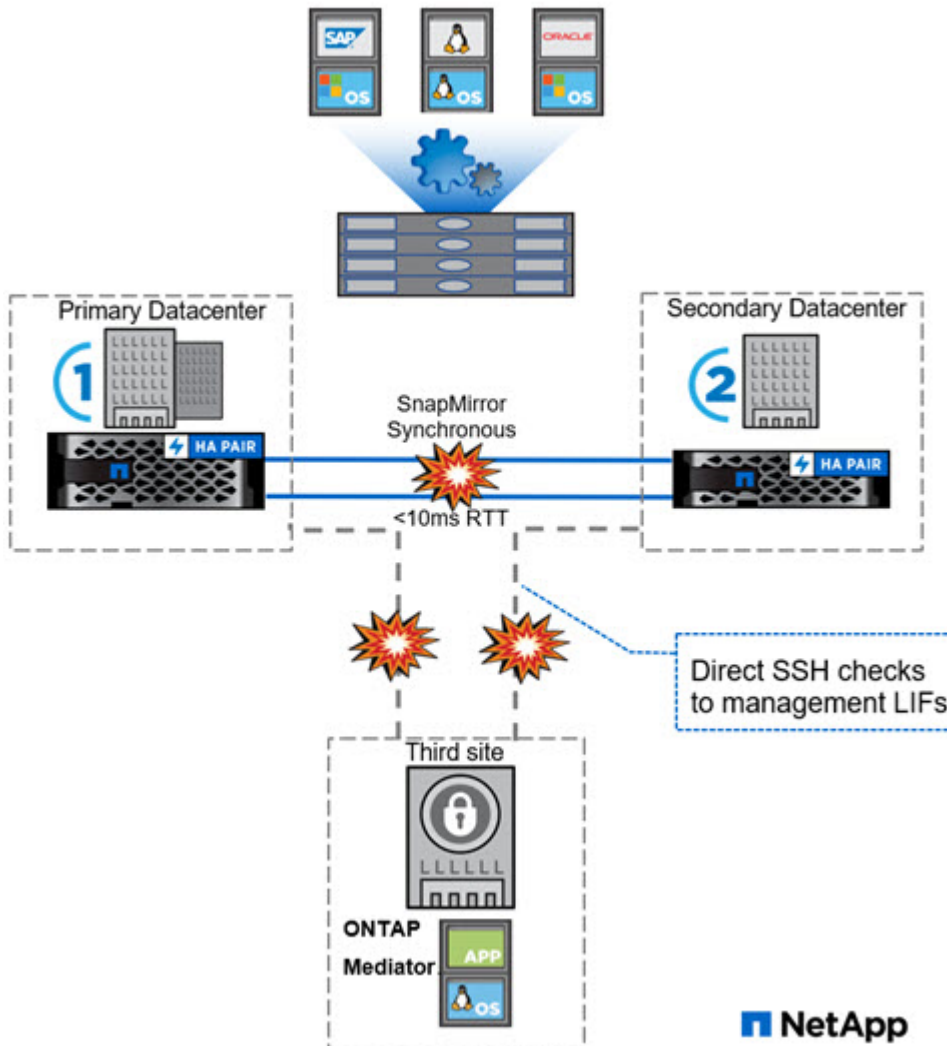
SnapMirror Business Continuity has the following requirements:

- 2-node HA cluster, only – both either AFF or ASA. No intermixing.
- A server or VM running RHEL 7.6 or 7.8 or CentOS 8.0 or 8.1 for installing ONTAP Mediator
- Data Protection or Premium bundle license

## Support

SnapMirror Business Continuity provides support for the following:

- Synchronous replication
- SAN protocol – FCP or iSCSI
- Up to 5 consistency groups, each with up to 12 volumes
- A total of 80 concurrent synchronous relationships per HA pair, including consistency groups



## Configure Mediator

Use System Manager to configure the Mediator server to be used for automated failover. You can also replace the self-signed SSL and CA with the third party validated SSL Certificate and CA if you have not already done so.

### Steps

1. Navigate to **Protection > Overview > Mediator > Configure**.
2. Click **Add**, and enter the following Mediator server information:

- IPv4 address
- Username
- Password
- Certificate

## Configure protection for business continuity

Configuring protection for business continuity involves selecting LUNs on the ONTAP source cluster and adding them to a consistency group. Open System Manager from a browser on the source cluster to begin configuring protection for business continuity.

### About this task

- LUNs must reside on the same storage VM.
- LUNs can reside on different volumes.
- The source and destination cluster cannot be the same.


### Steps

1. Choose the LUNs you want to protect and add them to a protection group: **Protection > Overview > Protect for Business Continuity > Protect LUNs**.
2. Select one or more LUNs to protect on the source cluster.
3. Select the destination cluster and SVM.
4. **Initialize relationship** is selected by default. Click **Save** to begin protection.
5. Go to **Dashboard > Performance** to verify IOPS activity for the LUNs.
6. On the destination cluster, use System Manager to verify that the protection for business continuity relationship is in sync: **Protection > Relationships**.

## Reestablish the original protection relationship after an unplanned failover

ONTAP uses the ONTAP Mediator to detect when a failure occurs on the primary storage system and executes automatic unplanned failover to the secondary storage system. You can use ONTAP System Manager to reverse the relationship and reestablish the original protection relationship when original source cluster is back online.

### Steps

1. Navigate to **Protection > Relationships** and wait for the relationship state to show "InSync."
2. To resume operations on the original source cluster, click  and select **Failover**.

## Copyright Information

Copyright © 2020 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.