



# **Support for Asymmetric LUN Mapping in Windows clusters**

## **SnapCenter Software**

Archana  
June 09, 2021

This PDF was generated from [https://docs.netapp.com/us-en/snapcenter/protect-scsql/concept\\_support\\_for\\_asymmetric\\_lun\\_mapping\\_alm\\_in\\_windows\\_clusters.html](https://docs.netapp.com/us-en/snapcenter/protect-scsql/concept_support_for_asymmetric_lun_mapping_alm_in_windows_clusters.html) on June 18, 2021. Always check docs.netapp.com for the latest.

# Table of Contents

Support for Asymmetric LUN Mapping in Windows clusters ..... 1

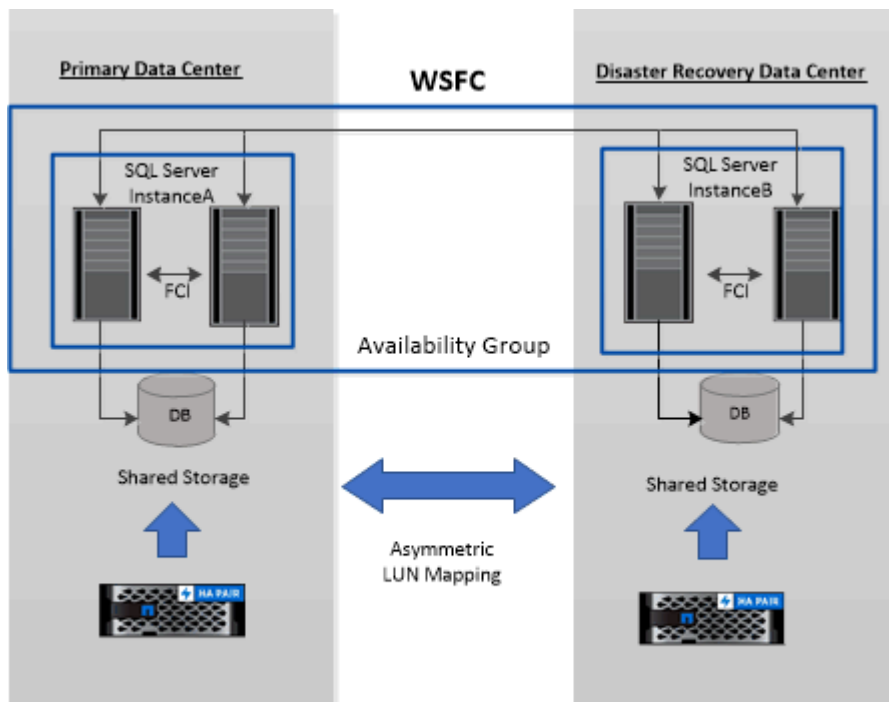
# Support for Asymmetric LUN Mapping in Windows clusters

SnapCenter Plug-in for Microsoft SQL Server supports discovery in SQL Server 2012 and later, Asymmetric LUN Mapping (ALM) configurations for high availability, and availability groups for disaster recovery. When discovering resources, SnapCenter discovers databases on local hosts and on remote hosts in ALM configurations.

An ALM configuration is a single Windows server failover cluster that contains one or more nodes in a primary data center and one or more nodes in a disaster recovery center.

Following is an example of an ALM configuration:

- Two failover cluster instances (FCI) in a multi-site datacenter
- FCI for local high availability (HA) and Availability Group (AG) for disaster recovery with a stand-alone instance at the disaster recovery site



**WSFC**----**Windows Server Failover Cluster**

The storage in the primary datacenter is shared between the FCI nodes present in the primary datacenter. The storage in the disaster recovery datacenter is shared between the FCI nodes present in the disaster recovery datacenter.

The storage on the primary datacenter is not visible to the nodes on the disaster recovery datacenter, and vice versa.

ALM architecture combines two shared storage solution used by FCI, with non-shared or dedicated storage solution used by SQL AG. The AG solution uses identical drive letters for shared disk resources across data centers. This arrangement of storage, where a cluster disk is shared between a subset of nodes within a WSFC, is referred to as ALM.

## 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.