



Perform a cluster operating system rolling upgrade

SnapManager for Hyper-V

NetApp
June 18, 2025

Table of Contents

Perform a cluster operating system rolling upgrade.	1
Map LUNs in mixed operating system mode	1
Update the dataset and SnapInfo across all nodes	4

Perform a cluster operating system rolling upgrade

You can perform a cluster operating system (OS) rolling upgrade to upgrade the OS of the cluster nodes without stopping SnapManager for Hyper-V. This feature supports SLA compliance by reducing downtime.

Failover clusters running SnapManager for Hyper-V can be upgraded from Windows Server 2012 R2 to Windows Server 2016 and Windows Server 2019 with no downtime.

For information on cluster OS rolling upgrade benefits, installation process and limitations refer to the related information.

Related information

[Microsoft TechNet: Cluster operating system rolling upgrade](#)

Map LUNs in mixed operating system mode

When you perform a cluster OS rolling upgrade, you can use the following procedure to unmap the LUNs from the Windows 2012 R2 node and remap them to the Windows Server 2016 node after it is added to the cluster.

What you'll need

The Windows Server 2016 node must be added to the cluster.



Cluster Rolling upgrade is supported from Windows Server 2016 to Windows Server 2019

Steps

1. Log in to the ONTAP System Manager.
2. Select the LUN that was mapped to Windows 2012 R2.
3. Click **Edit** and select **Initiator Groups**.

LUN Properties for Lun1:

- Name: Lun1
- Container Path: /vol/mixnew_H
- Size: 15.01
- Status: Online
- Type: Hyper-

4. Uncheck the igroup of the removed node from the cluster.
5. Add a new Initiator Group for all the newly added Windows 2016 nodes.

LUN Properties for Lun1:

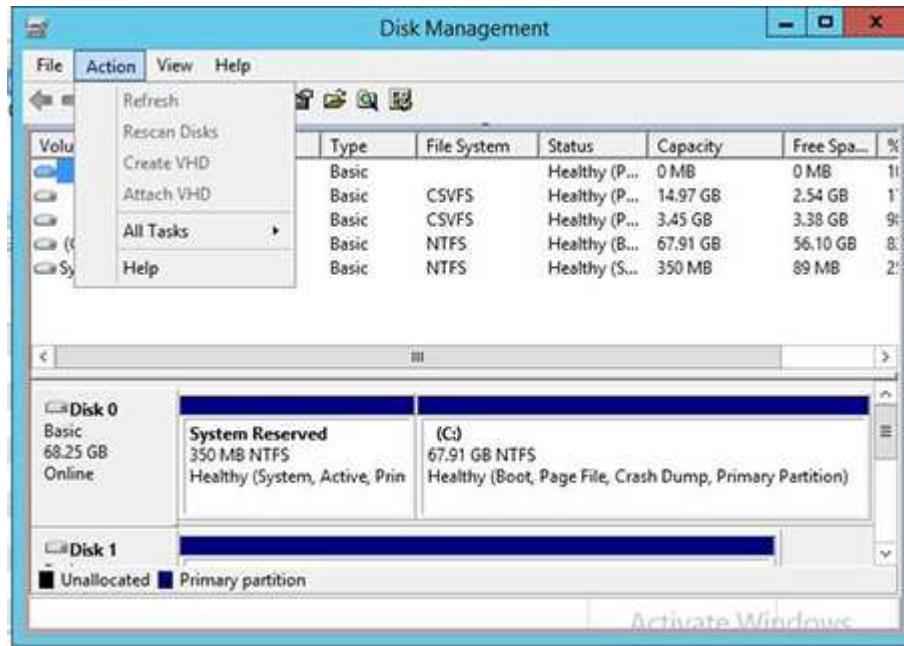
- Name: Lun1
- Container Path: /vol/mixnew_H
- Size: 15.01
- Status: Online
- Type: Hyper-

6. Select the checkbox beside the newly created initiator group to map the LUN to the Windows 2016 host that was added to the cluster.

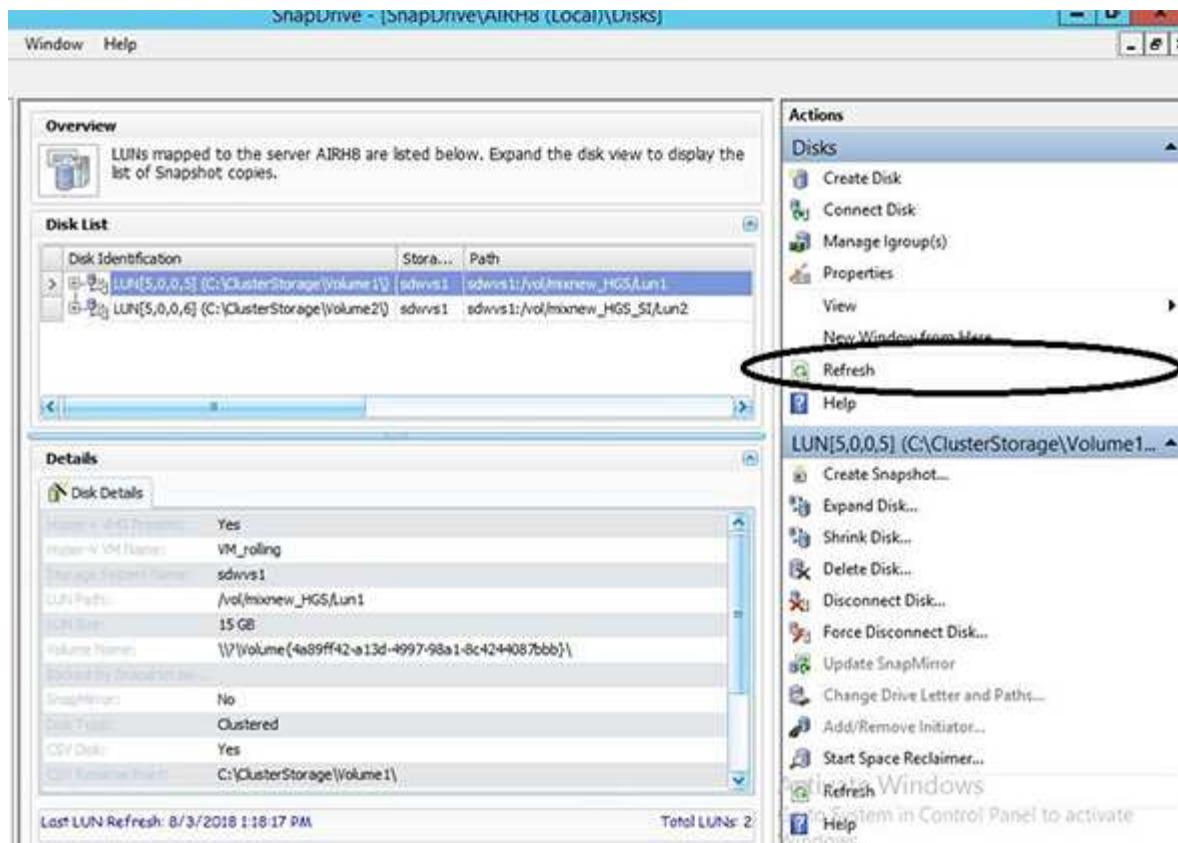
7. Repeat Steps 4 and 6 to map every LUN to Windows 2016 nodes.

All LUNs should be visible in the Windows 2016 node.

8. Rescan the disks from the disk management tool in the Windows 2016 nodes.



9. Add the storage management LIF in the new Windows 2016 SnapDrive transport protocol settings (TPS) and then refresh the disks.



Update the dataset and SnapInfo across all nodes

After you perform a cluster OS rolling upgrade, you must update the dataset and SnapInfo across all nodes.

What you'll need



Cluster Rolling upgrade is supported from Windows Server 2016 to Windows Server 2019; shared disk backup is not supported in mixed-mode operating systems.

Steps

1. Edit all the datasets on the Windows 2012 R2 node.
2. Verify that all available datasets are visible on the Windows 2016 node.
3. Set the SnapInfo path on the Windows 2012 R2 node.
4. Verify that the correct SnapInfo path is displayed on the Windows 2016 node.

Copyright information

Copyright © 2025 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.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

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.