



## **Manage host cluster protection**

ONTAP tools for VMware vSphere 10.3

NetApp

February 18, 2025

# Table of Contents

- Manage host cluster protection ..... 1
- Modify protected host cluster ..... 1
- Remove host cluster protection ..... 3

# Manage host cluster protection

## Modify protected host cluster

You can perform the following tasks as part of modify protection. You can perform all the changes in the same workflow.

- Add new datastores or hosts to the protected cluster.
- Add new SnapMirror relationships to the protection settings.
- Delete existing SnapMirror relationships from the protection settings.
- Modify an existing SnapMirror relationship.

## Monitor host cluster protection

Use this procedure to monitor the status of the host cluster protection. You can monitor every protected host cluster along with its protection state, SnapMirror relationships, datastores, and the corresponding SnapMirror status.

### Steps

1. Log in to the vSphere client using `https://<vcenterip>/<ui>`
2. Navigate to **NetApp ONTAP tools > Protection > Host cluster relationships**.

The icon under the protection column shows the status of the protection

3. Hover over the icon to see more details.

## Add new datastores or hosts

Use this procedure to protect the newly added datastores or hosts. You can add new hosts to the protected cluster or create new datastores on host cluster using the vCenter native user interface.

### Steps

1. Log in to the vSphere client using `https://<vcenterip>/<ui>`
2. To edit the properties of a protected cluster, you can either
  - a. Navigate to **NetApp ONTAP tools > Protection > Host cluster relationships**, select the ellipsis menu against the cluster and select **Edit** or
  - b. Right-click a host cluster and select **NetApp ONTAP tools > Protect Cluster**.
3. If you have created a datastore in vCenter native user interface, then that datastore is shown as unprotected. The user interface shows all datastores in the cluster and their protection status in a dialog box. Select **Protect** button to enable complete protection.
4. If you have added a new ESXi host, the protection status shows as partially protected. Select the ellipsis menu under the SnapMirror settings and select **Edit** to set the proximity of the newly added ESXi host.



In case of Asynchronous type relationship, edit action is not supported as you cannot add the target SVM for tertiary site to the same ONTAP tools instance. However, you can use the system manager or CLI of the target SVM to change the relationship configuration.

5. Select **Save** after making the necessary changes.
6. You can see the changes in the **Protect Cluster** window.

A vCenter task is created and you can track the progress in the **Recent task** panel.

## Add a new SnapMirror relationship

### Steps

1. Log in to the vSphere client using `https://<vcenterip>/<ui>`
2. To edit the properties of a protected cluster, you can either
  - a. Navigate to **NetApp ONTAP tools > Protection > Host cluster relationships**, select the ellipsis menu against the cluster and select **Edit** or
  - b. Right-click a host cluster and select **NetApp ONTAP tools > Protect Cluster**.
3. Select **Add relationship**.
4. Add new relationship as either **Asynchronous** or **AutomatedFailOverDuplex** policy type.
5. Select **Protect**.

You can see the changes in the **Protect Cluster** window.

A vCenter task is created and you can track the progress in the **Recent task** panel.

## Delete an existing SnapMirror relationship

To delete an asynchronous SnapMirror relationship, secondary site SVM or cluster should be added as storage backend on ONTAP tools for VMware vSphere. You cannot delete all the SnapMirror relationships. When you delete a relationship, respective relationship on ONTAP cluster is also removed. When you delete an AutomatedFailOverDuplex SnapMirror relationship, the datastores on the destination are unmapped and consistency group, LUNs, volumes, and igroups are removed from the destination ONTAP cluster.

Deleting the relationship triggers a rescan on secondary site to remove the unmapped LUN as active path from the hosts.

### Steps

1. Log in to the vSphere client using `https://<vcenterip>/<ui>`
2. To edit the properties of a protected cluster, you can either
  - a. Navigate to **NetApp ONTAP tools > Protection > Host cluster relationships**, select the ellipsis menu against the cluster and select **Edit** or
  - b. Right-click a host cluster and select **NetApp ONTAP tools > Protect Cluster**.
3. Select the ellipsis menu under the SnapMirror settings and select **Delete**.

A vCenter task is created and you can track the progress in the **Recent task** panel.

## Modify an existing SnapMirror relationship

To modify an asynchronous SnapMirror relationship, secondary site SVM or cluster should be added as storage backend on ONTAP tools for VMware vSphere. If it is an AutomatedFailOverDuplex SnapMirror relationship, you can modify the host proximity in case of uniform configuration and the host access in case of non-uniform configuration. You cannot interchange Asynchronous and AutomatedFailOverDuplex policy types.

You can set the proximity or access for the newly discovered hosts on the cluster.



You cannot edit an existing asynchronous SnapMirror relationship.

### Steps

1. Log in to the vSphere client using `https://<vcenterip>/<ui>`
2. To edit the properties of a protected cluster, you can either
  - a. Navigate to **NetApp ONTAP tools > Protection > Host cluster relationships**, select the ellipsis menu against the cluster and select **Edit** or
  - b. Right-click a host cluster and select **NetApp ONTAP tools > Protect Cluster**.
3. If AutomatedFailOverDuplex policy type is selected, add host proximity or host access details.
4. Select **Protect** button.

A vCenter task is created and you can track the progress in the **Recent task** panel.

## Remove host cluster protection

When you remove the host cluster protection, the datastores become unprotected.

### Steps

1. To view the protected host clusters, navigate to **NetApp ONTAP tools > Protection > Host cluster relationships**.

In this page, you can monitor the protected host clusters along with its protection state, SnapMirror relationship, and its corresponding SnapMirror status.

2. In the **Host cluster protection** window, select the ellipsis menu against the cluster, and then select **Remove protection**.

## 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.