

# Manage Kubernetes clusters

Kubernetes clusters

NetApp July 19, 2022

This PDF was generated from https://docs.netapp.com/us-en/cloud-manager-kubernetes/task/task-k8s-manage-trident.html on July 19, 2022. Always check docs.netapp.com for the latest.

# **Table of Contents**

lanage Kubernetes clusters
Features
Install or upgrade Astra Trident
Manage storage classes
View persistent volumes.
Remove Kubernetes clusters from the workspace.
Use NetApp cloud data services with Kubernetes clusters

# Manage Kubernetes clusters

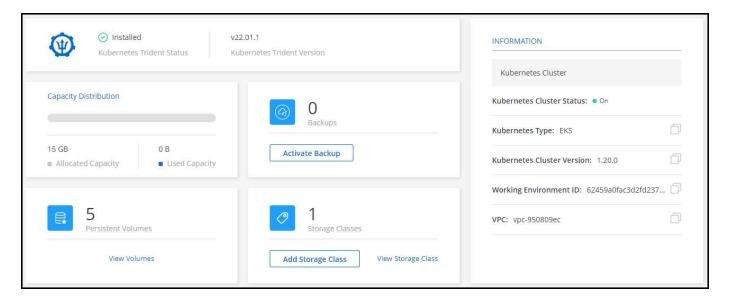
You can use Cloud Manager to install or upgrade Astra Trident, configure storage classes, remove clusters, and enable data services.



Astra Trident deployed using tridentctl is not supported. If you deployed Astra Trident using tridentctl, you cannot use Cloud Manager to manage your Kubernetes clusters. You must uninstall using tridentctl and reinstall using the Trident operator or using Cloud Manager.

### **Features**

After adding Kubernetes clusters to Cloud Manager, you can manage the clusters from the resource page. To open the resource page, double-click the Kubernetes working environment on the Canvas.

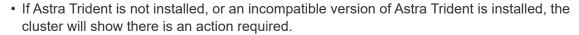


From the resource page you can:

- · View the Kubernetes cluster status.
- Confirm a compatible version of Astra Trident is installed, or upgrade to the latest version of Astra Trident.
  See Install Astra Trident.
- Add and remove storage classes. See Manage storage classes.
- · View persistent volumes. See View persistent volumes.
- Remove Kubernetes clusters from the workspace. See Remove clusters.
- Activate or view Cloud Backup. See Use NetApp cloud data services.

## **Install or upgrade Astra Trident**

After you add a managed Kubernetes cluster to the Canvas, you can use Cloud Manager to confirm a compatible Astra Trident installation or install or upgrade Astra Trident to the latest version.



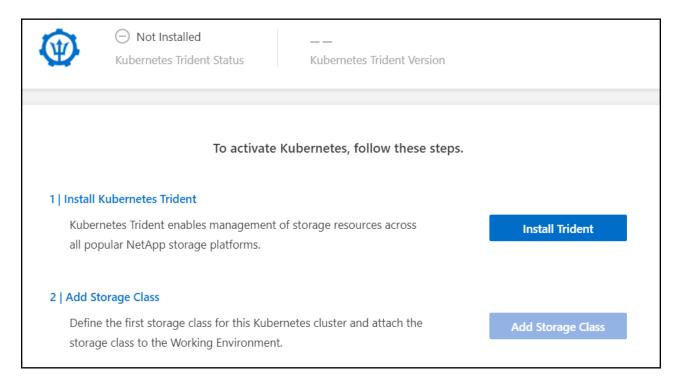


- One of the four most recent versions of Astra Trident deployed using the Trident operator—either manually or using Helm chart—is required.
- Astra Trident deployed using tridentctl is not supported. If you deployed Astra Trident using tridentctl, you cannot use Cloud Manager to manage your Kubernetes clusters. You must uninstall using tridentctl and reinstall using the Trident operator or using the steps below.

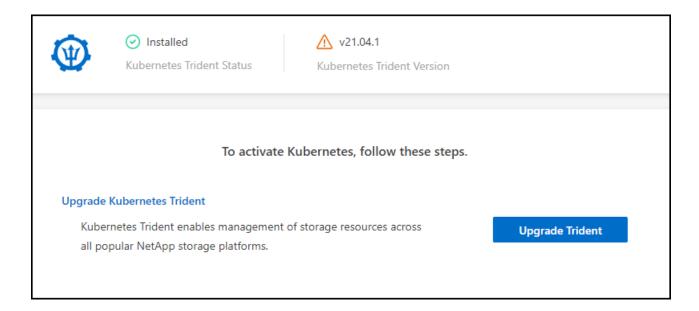
To learn more about Astra Trident, see Astra Trident documentation.

#### **Steps**

- 1. Double-click the Kubernetes working environment on the Canvas or click **Enter Working Environment**.
  - a. If Astra Trident is not installed, click Install Trident.



b. If an unsupported version of Astra Trident is installed, click **Upgrade Trident**.



The latest version of Astra Trident is installed. You can now add storage classes.

## Manage storage classes

After you add a managed Kubernetes cluster to the Canvas, you can use Cloud Manager to manage storage classes.



If no storage class is defined, the cluster will show there is an action required. Double-clicking the cluster on the Canvas opens the action page to add a storage class.

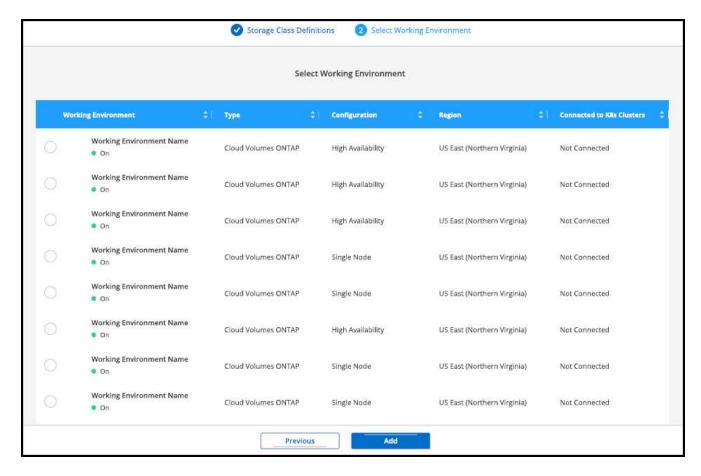
### Add storage class

#### **Steps**

- 1. From the Canvas, drag and drop the Kubernetes working environment on to the Cloud Volumes ONTAP or Amazon FSx for ONTAP working environment to open the storage class wizard.
- 2. Provide a name for the storage class, select definition options, and click Next.



3. Select a working environment to connect to the cluster. Click Add.



You can click to view the storage class from the resource page for the Kubernetes cluster.



### View working environment details

#### **Steps**

- 1. Double-click the Kubernetes working environment on the Canvas or click Enter Working Environment.
- 2. Click the Storage Classes tab.
- 3. Click the information icon to view details for the working environment.

#### Results

The working environment details panel opens.



### Set default storage class

#### **Steps**

- 1. Double-click the Kubernetes working environment on the Canvas or click Enter Working Environment.
- 2. Click the Storage Classes tab.
- 3. Click the action menu for the storage class and click Set as Default.



The selected storage class is set as the default.



### Remove storage class

#### **Steps**

- 1. Double-click the Kubernetes working environment on the Canvas or click **Enter Working Environment**.
- 2. Click the Storage Classes tab.
- 3. Click the action menu for the storage class and click **Set as Default**.



4. Click **Remove** to confirm removal of the storage class.



#### Results

The selected storage class is removed.

## View persistent volumes

After you add a managed Kubernetes cluster to the Canvas, you can use Cloud Manager to view persistent volumes.

#### **Steps**

- 1. Double-click the Kubernetes working environment on the Canvas or click **Enter Working Environment**.
- 2. Click **View Volumes** from the **Overview** tab or click the **Persistent Volumes** tab. If no persistent volumes are configured, see Provisioning for details on provisioning volumes in Astra Trident.

#### Results

A table of the configured persistent volumes displays.



# Remove Kubernetes clusters from the workspace

After you add a managed Kubernetes cluster to the Canvas, you can use Cloud Manager to remove clusters from the workspace.

#### **Steps**

- 1. Double-click the Kubernetes working environment on the Canvas or click **Enter Working Environment**.
- 2. At the top right of the page, select the actions menu and click Remove from Workspace.



3. Click **Remove** to confirm removal of the cluster from the workspace. You can rediscover this cluster at any time.



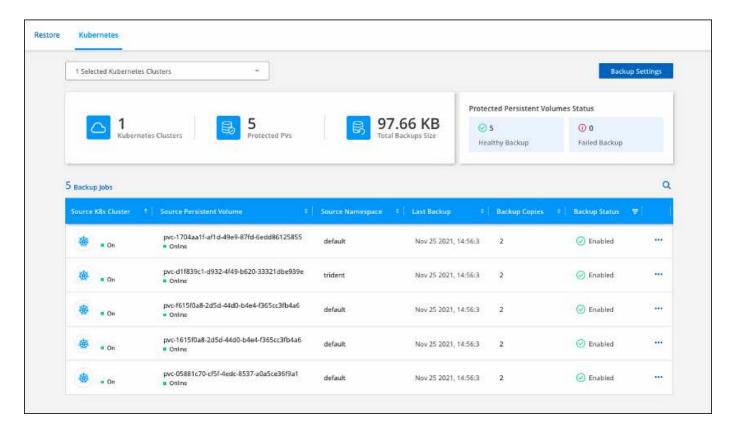
The Kubernetes cluster is removed from the workspace and is no longer visible on the Canvas.

# Use NetApp cloud data services with Kubernetes clusters

After you add a managed Kubernetes cluster to the Canvas, you can use NetApp cloud data services for advanced data management.

You can use Cloud Backup to back up persistent volumes to object storage.

Learn how to protect your Kubernetes cluster data using Cloud Backup.



#### **Copyright Information**

Copyright © 2022 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 <a href="http://www.netapp.com/TM">http://www.netapp.com/TM</a> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.