



Add Kubernetes clusters

Kubernetes clusters

NetApp
April 04, 2022

Table of Contents

- Add Kubernetes clusters 1
 - Add an Amazon Kubernetes cluster to Cloud Manager 1
 - Add an Azure Kubernetes cluster to Cloud Manager 3
 - Add a Google Cloud Kubernetes cluster to Cloud Manager 6

Add Kubernetes clusters

Add an Amazon Kubernetes cluster to Cloud Manager

You can discover or import Kubernetes clusters to Cloud Manager so you can back up persistent volumes to Amazon S3.

Discover a cluster

You can discover a fully-managed or self-managed Kubernetes cluster. Managed clusters must be discovered; they cannot be imported.

Steps

1. On the **Canvas**, click **Add Working Environment**.
2. Select **Amazon Web Services > Kubernetes Cluster** and click **Next**.

The screenshot shows the 'Add Working Environment' wizard in Cloud Manager. The first section, 'Choose a Location', has four options: Microsoft Azure (selected with a blue checkmark), Amazon Web Services, Google Cloud Platform, and On-Premises. The second section, 'Choose Type', has four options: Cloud Volumes ONTAP Single Node, Cloud Volumes ONTAP HA High Availability, Azure NetApp Files High Availability, and Kubernetes Cluster Any (selected with a blue checkmark). A blue 'Next' button is at the bottom.

3. Select **Discover Cluster** and click **Next**.
4. Choose an AWS region, select a Kubernetes cluster, and then click **Next**.



Result

Cloud Manager adds the Kubernetes cluster to the Canvas.



Import a Cluster

You can import a self-managed Kubernetes cluster using a Kubernetes configuration file.

Steps

1. On the **Canvas**, click **Add Working Environment**.
2. Select **Amazon Web Services > Kubernetes Cluster** and click **Next**.
3. Select **Import Cluster** and click **Next**.
4. Upload a Kubernetes configuration file in YAML format.

Add Existing Kubernetes Cluster

Import Kubernetes Cluster

Upload a Kubernetes configuration file that's in YAML format

Kubernetes configuration file

minicubeconfig.txt

Upload

1 Cluster

	Kubernetes Cluster Name	Kubernetes Type	Kubernetes Version
✓	test2	Self Managed	v1.24.0

5. Select the Kubernetes cluster and click **Next**.

Result

Cloud Manager adds the Kubernetes cluster to the Canvas.

Add an Azure Kubernetes cluster to Cloud Manager

You can discover or import Kubernetes clusters to Cloud Manager so that you can back up persistent volumes to Azure.

Discover a cluster

You can discover a fully-managed or self-managed Kubernetes cluster. Managed clusters must be discovered; they cannot be imported.

Steps

1. On the **Canvas**, click **Add Working Environment**.
2. Select **Microsoft Azure > Kubernetes Cluster** and click **Next**.

Add Working Environment

Choose a Location

Microsoft Azure

Amazon Web Services

Google Cloud Platform

On-Premises

Choose Type

Cloud Volumes ONTAP

Single Node

Cloud Volumes ONTAP HA

High Availability

Azure NetApp Files

High Availability

Kubernetes Cluster

Any

Next

3. Select **Discover Cluster** and click **Next**.
4. Select a Kubernetes cluster and click **Next**.

Add Existing Kubernetes Cluster

Discover a Kubernetes Cluster

AzureKeys

Credential Name

Subscription1

Azure Subscription

Switch Azure Subscription

Select a Kubernetes cluster.

3 Kubernetes Clusters

Kubernetes Cluster Name	Status	Kubernetes Version	Resource Group	Location
<input checked="" type="radio"/> Cluster_1	Active	10.2.23.36	Cell text	Cell text
<input type="radio"/> Cluster_2	Active	10.2.23.36	Cell text	Cell text
<input type="radio"/> Cluster_2	Active	10.2.23.36	Cell text	Cell text

Result

Cloud Manager adds the Kubernetes cluster to the Canvas.



Import a Cluster

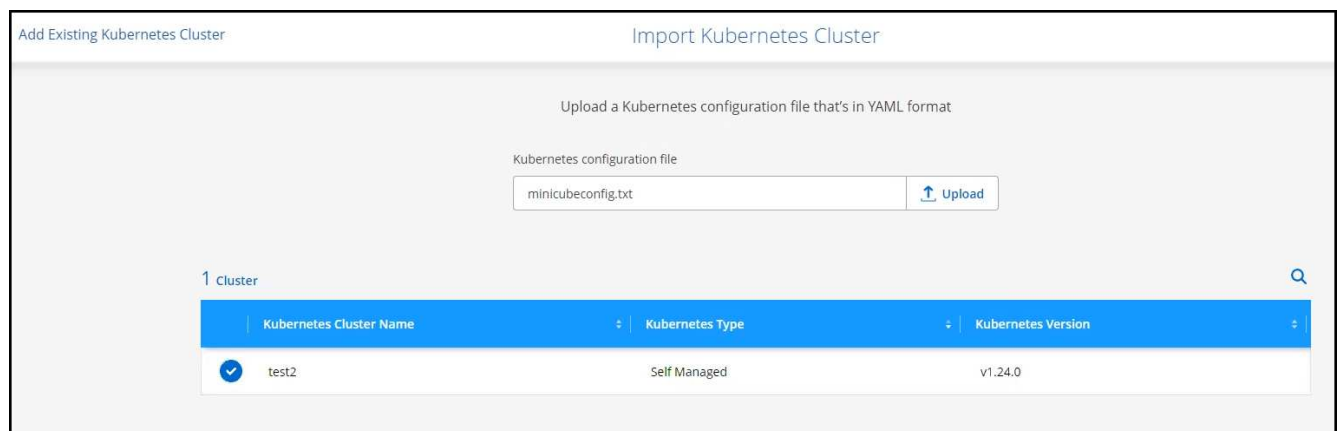
You can import a self-managed Kubernetes cluster using a Kubernetes configuration file.

Before you get started

You will need Certificate Authority, Client Key, and Client Certificate certificates for the user specified in the cluster role YAML file to import Kubernetes clusters. The Kubernetes cluster administrator receives these certifications when creating users on the Kubernetes cluster.

Steps

1. On the **Canvas**, click **Add Working Environment**.
2. Select **Microsoft Azure > Kubernetes Cluster** and click **Next**.
3. Select **Import Cluster** and click **Next**.
4. Upload a Kubernetes configuration file in YAML format.



5. Upload the cluster certificates provided by your Kubernetes cluster administrator.

Result

Cloud Manager adds the Kubernetes cluster to the Canvas.

Add a Google Cloud Kubernetes cluster to Cloud Manager

You can discover or import Kubernetes clusters to Cloud Manager so that you can back up persistent volumes to Google Cloud.

Discover a cluster

You can discover a fully-managed or self-managed Kubernetes cluster. Managed clusters must be discovered; they cannot be imported.

Steps

1. On the **Canvas**, click **Add Working Environment**.
2. Select **Google Cloud Platform > Kubernetes Cluster** and click **Next**.

The screenshot shows a two-step selection process. The first step, 'Choose Location & Type', has four options: Microsoft Azure, Amazon Web Services, Google Cloud Platform (selected with a blue checkmark), and OnPrem. The second step, 'Choose Type', has four options: Cloud Volumes ONTAP (Single Node), Cloud Volumes ONTAP HA (High Availability), Cloud Volumes Service (High Availability), and Kubernetes Cluster (Any) (selected with a blue checkmark).

3. Select **Discover Cluster** and click **Next**.
4. To select a Kubernetes cluster in a different Google Cloud Project, click **Edit project** and choose an available project.



5. Select a Kubernetes cluster and click **Next**.



Result

Cloud Manager adds the Kubernetes cluster to the Canvas.



Import a Cluster

You can import a self-managed Kubernetes cluster using a Kubernetes configuration file.

Before you get started

You will need Certificate Authority, Client Key, and Client Certificate certificates for the user specified in the cluster role YAML file to import Kubernetes clusters. The Kubernetes cluster administrator receives these certifications when creating users on the Kubernetes cluster.

Steps

1. On the **Canvas**, click **Add Working Environment**.
2. Select **Google Cloud Platform > Kubernetes Cluster** and click **Next**.
3. Select **Import Cluster** and click **Next**.
4. Upload a Kubernetes configuration file in YAML format.

Add Existing Kubernetes Cluster

Import Kubernetes Cluster

Upload a Kubernetes configuration file that's in YAML format and has the extension ".txt", ".kubeconfig", or ".config"

Kubernetes configuration file

KubConfig.txt

Upload

3 Kubernetes Clusters

	Kubernetes Cluster Name	Kubernetes Type	Kubernetes Version
<input checked="" type="radio"/>	Cluster_1	???	10.2.23.36
<input type="radio"/>	Cluster_2	???	10.2.23.36
<input type="radio"/>	Cluster_2	???	10.2.23.36

Result

Cloud Manager adds the Kubernetes cluster to the Canvas.

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 <http://www.netapp.com/TM> are trademarks of NetApp, Inc. Other company and product names may be trademarks of their respective owners.