

Enable Cloud Volumes on NetApp HCI after NKS is already enabled

HCI

Ann-Marie Grissino
January 24, 2020

This PDF was generated from https://docs.netapp.com/us-en/hci/docs/task_enabling_cloud_volumes.html on May 20, 2020. Always check docs.netapp.com for the latest.

Table of Contents

- Enable Cloud Volumes on NetApp HCI after NKS is already enabled 1
 - Sign in to NetApp Cloud Central 1
 - Select the Cloud Services you want to enable 2
 - Enter license information 2
 - Select networking options 3
 - After you finish 5

Enable Cloud Volumes on NetApp HCI after NKS is already enabled

After you enable NetApp Kubernetes Service (NKS) on NetApp HCI, you might want to later enable the Cloud Volumes on NetApp HCI.

Enabling cloud services is performed using the NetApp Hybrid Cloud Control.

About this task

This lets you use Cloud Volumes on NetApp HCI on your on-premises private cloud.

A NetApp Hybrid Cloud Control wizard takes you through the following tasks:

- Select the Cloud Volumes service you want to enable.
- Enable licenses using a link to the NetApp License Generator.
- Configure networking.

Sign in to NetApp Cloud Central

1. Access NetApp Hybrid Cloud Control (HCC) by opening a web browser and browsing to the IP address of the management node:

"https://<_ManagementNodeIP_>"

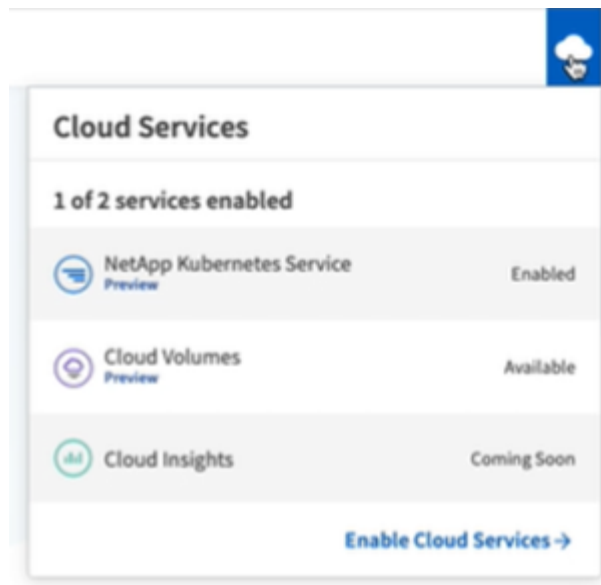


For details, see [Accessing NetApp Hybrid Cloud Control](#).

2. Click the **Cloud** icon.

An outline of a cloud indicates that no services have been enabled. A filled in cloud indicates that some services have been enabled. This image shows that NKS has already been enabled, but Cloud Volumes has not yet been enabled.

3. In the Cloud Services popup, review the services that are available.



4. Click **Enable cloud services**.

Select the Cloud Services you want to enable

SERVICES and INFORMATION ARE PROVIDED as a TECHNOLOGY PREVIEW. You might see a different set of services than those listed here.

1. On the Services page, select the services that you want to enable.
 - **NetApp Kubernetes Service:** This is enabled already. You must use NetApp Kubernetes Service, a SaaS platform that enables you to deploy a Kubernetes cluster in the cloud with the major cloud providers and also with a NetApp private cloud. This is required to enable cloud services on NetApp HCI. This service is installed as a VM on a NetApp HCI compute node.
 - **Cloud Volumes:** To install Cloud Volumes on NetApp HCI, select this service. This service offers an on-demand shared file systems feature on your premises. The Cloud Volumes option will enable Data Fabric replication to and from public clouds.
 - **Cloud Insights:** This option will enable you to monitor cloud services on NetApp HCI. *Coming soon.*
2. Click **Continue**.

Enter license information

If you enabled Cloud Volumes, a Licensing page appears.

The NetApp license files use the following format:

NLF<serialnumber>.txt

1. If you already have obtained license files, click **Browse** to locate them.
Select both licenses and click **Choose** so they can be uploaded.
2. If you have not obtained license files, complete the following to obtain or retrieve them:

- a. Serial number information is provided in an email after ordering software. Go to the [NetApp Support Site](#), click **Products > Software Licenses**, and enter product and serial number.
- b. Return to the Hybrid Cloud Control Licensing page, click the link to the NetApp License File Generator, supply your password, select “ONTAP Select-Premium” as the product line, and supply the product serial number that you obtained from the NetApp Support Site.



Enable Cloud Services



Step 2 - Licensing

Activating Cloud Volumes requires two license files. [Obtain your license files at the NetApp License Generator.](#)

Select your two license files.

[Browse](#)

[Back](#)

[Continue](#)

- c. Acknowledge the Global Data Privacy Policy and click **Submit**.
 - d. Download the license files either directly from the NetApp License File Generator or from the email.
 - e. Do this twice for the two licenses, one for each of the HA clusters.
 - f. You can now upload the license files. In the Licensing page, click **Browse** to locate both license files that you downloaded. Select both licenses and click **Choose** to upload them.
3. Click **Continue**.

Select networking options

1. If you enabled Cloud Volumes on the Services page, the following additional fields appear:
 - **Cloud Volumes Management Network:** Enter the IP addresses for managing the Cloud Volumes deployment VM and its deployed nodes. These IP addresses are used during the installation to configure Cloud Volumes enablement.
 - **Cloud Volumes Cluster Network:** Enter network information used by the cluster nodes used by Cloud Volumes deployment to communicate with each other.

- **Cloud Volumes Storage Network:** Enter network information to serve data from Cloud Volumes on NetApp HCI. This will become the network from which you access provisioned cloud volumes.

NetApp
Hybrid Cloud Control

Enable Cloud Services

Services Licensing **Networking** Review

Step 3 - Define Network Settings

Define the network settings you want your NetApp cloud services to use.

Cloud Volumes Management Network ? 4 Addresses Required

VLAN ID	Subnet ?	Default Gateway	Starting IP Address	Ending IP Address
Untagged Network	xxx.xxx.xxx.xxx/nn	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx	

Cloud Volumes Cluster Network ?

VLAN ID	
Untagged Network	This network will be created using Automatic Private IP Addressing.

Cloud Volumes Data Network ? 1 Address Required

VLAN ID	Subnet ?	Default Gateway	Starting IP Address	Ending IP Address
Untagged Network	xxx.xxx.xxx.xxx/nn	xxx.xxx.xxx.xxx	xxx.xxx.xxx.xxx	

[Back](#) [Continue](#)

2. Click **Continue**.

3. On the Review page, review your choices by expanding each option. and click **Continue**.

Result

Cloud Volumes on NetApp HCI are enabled and the NetApp Hybrid Cloud Control opening page reappears.

Click the cloud icon to see the number of services enabled.

The process can take up to 30 minutes for Cloud Volumes on NetApp HCI.

After you finish

To create cloud volumes, create custom data management workflows, and manage data across volumes, use NetApp Fabric Orchestrator. See [Managing data in NetApp Cloud Volumes](#).

Top Link

- [Deploying cloud services on NetApp HCI overview](#)

Find more information

- [NetApp Cloud Central](#)
- [NetApp Cloud Documentation](#)

Copyright Information

Copyright © 2020 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.