



OnCommand® Cloud Manager 3.0

Release Notes

June 2016 | 215-11107_AO_ur001
doccomments@netapp.com

Contents

Product overview	4
New in this release	5
Upgrade notes	6
Known limitations	8
Known issues	9
Where to get help and find more information	10
Copyright information	11
Trademark information	12
How to send comments about documentation and receive update notifications	13

Product overview

OnCommand Cloud Manager provides simplified management of cloud storage environments built on NetApp. You can use Cloud Manager to manage data across your hybrid cloud, which includes full control of ONTAP Cloud systems, or you can simply provision volumes and let Cloud Manager handle the rest.

When you set up Cloud Manager, you can choose between two management views: the Storage System View and the Volume View.

Storage System View

You can use Cloud Manager in this view to have full control of ONTAP Cloud systems:

- Configure and launch ONTAP Cloud instances in Amazon Web Services (AWS)
- Provision NFS and CIFS storage
- Replicate data across a hybrid cloud environment: between on-premises ONTAP clusters, ONTAP Cloud systems, and NetApp Private Storage for Cloud configurations
- Manage ONTAP Cloud systems as needed, which includes capacity allocation decisions, simplified upgrades, cost monitoring, and several other tasks

Volume View

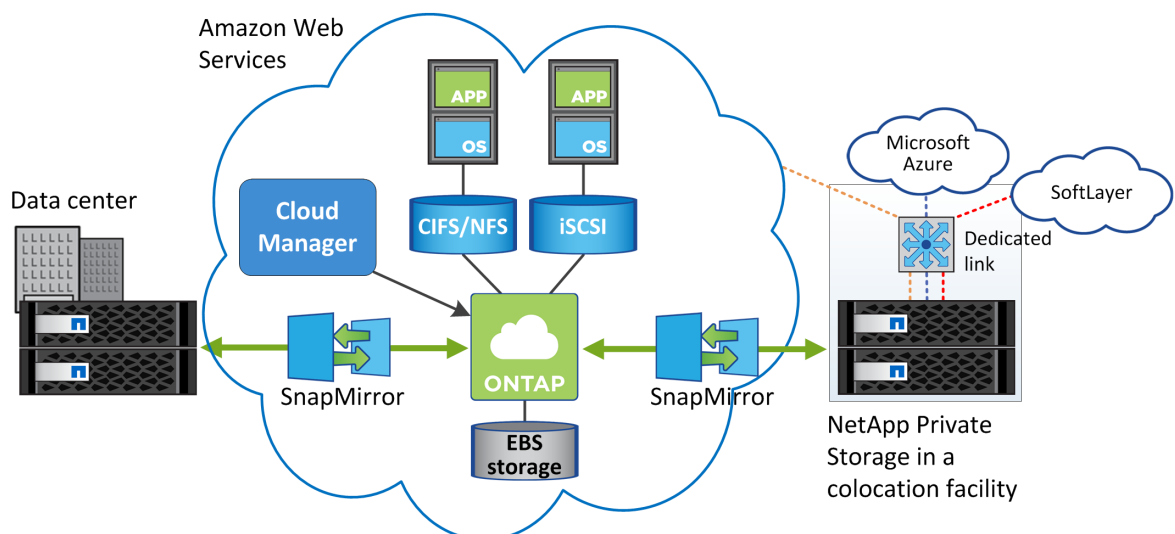
The Volume View enables you to simply specify the NFS volume that you need and then Cloud Manager handles the rest: it deploys ONTAP Cloud systems as needed and it automatically makes capacity allocation decisions as volumes grow. This view gives you the benefits of enterprise-class storage in the cloud with very little storage management.

Where to deploy Cloud Manager

Cloud Manager can run in AWS or in your network. Cloud Manager must run in the AWS GovCloud (US) region if you want to launch ONTAP Cloud instances in AWS GovCloud (US).

Note: The Volume View is not supported in the AWS GovCloud (US) region.

The following image shows Cloud Manager running in AWS and managing an ONTAP Cloud system and data replication to and from ONTAP clusters:



New in this release

OnCommand Cloud Manager 3.0 includes several new features and enhancements.

Support for ONTAP Cloud HA for AWS

Cloud Manager can launch ONTAP Cloud for AWS in an HA configuration to ensure high availability of your data in case of software, storage, networking, host, and Availability Zone failures. You can deploy HA configurations when using Cloud Manager in the Storage System View or the Volume View.

Note: You cannot upgrade an existing single-node system to an HA configuration. To switch from a single-node system to an HA configuration, you must launch a new configuration and then replicate the data.

[OnCommand Cloud Manager 3.0 Storage System Management Guide](#)

[OnCommand Cloud Manager 3.0 Installation and User Guide for Volume Management](#)

ONTAP Cloud for Microsoft Azure beta

ONTAP Cloud for Microsoft Azure is currently available for customer beta. To be added to the Azure beta program, click the chat icon in the lower right of Cloud Manager and request access.

[NetApp KB Article 1015922: How to participate in the ONTAP Cloud beta for Microsoft Azure](#)

Support for basic authentication with proxy servers

In previous releases, you could configure Cloud Manager to use a proxy server for all HTTP communication to the Internet. Starting with the 3.0 release, you can now specify a user name and password for your proxy server, if basic authentication is required.

[OnCommand Cloud Manager 3.0 Administration Guide](#)

Support for IAM roles

When you launch the Cloud Manager instance, you can now associate it with an IAM role to provide the AWS permissions defined in the Cloud Manager IAM policy. This is an alternative to specifying AWS keys for each Cloud Manager user account.

[OnCommand Cloud Manager 3.0 Installation and Setup Guide for Storage System Management](#)

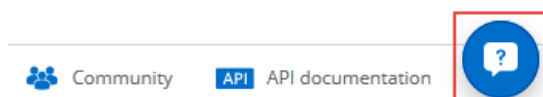
[OnCommand Cloud Manager 3.0 Installation and User Guide for Volume Management](#)

[NetApp OnCommand Cloud Manager: AWS IAM Policy](#)

Chat services

Cloud Manager now includes a chat icon that links you to a direct chat service for product feedback or feature-related questions. Upon acceptance of the service terms, the service sends you periodic updates on new releases, feature updates, and upcoming training and demos.

The chat icon is available in the lower right of the console:



Automatic software updates

Cloud Manager can now automatically update itself to the latest minor version. You can enable this option when you set up Cloud Manager for the first time, or by going to the Settings page in the Storage System View.

Additional features and enhancements for the Storage System View

- You can now refresh a working environment to retrieve the latest data.
- Cloud Manager supports cascade relationships when you replicate data between volumes.
In a cascade configuration, replication occurs from volume A to volume B and from volume B to volume C. You can set up a cascade relationship by setting up multiple data replications between systems.
- You can run the reverse resync operation on a data replication relationship.
This operation resynchronizes data between the destination volume and the source volume and reverses the roles of the source and destination volumes. This is helpful when you want to reactivate a source volume that went offline.
- Cloud Manager now enables you to send AutoSupport messages to NetApp Support for all ONTAP Cloud systems.
This option is available from the Support Dashboard page.
- Cloud Manager supports new licensing for ONTAP Cloud 9.0 BYOL systems.
Support for the new licensing requires you to enter NetApp Support Site credentials for the tenants in which you want to launch BYOL systems. When you launch BYOL systems, Cloud Manager automatically obtains license files from NetApp and installs them on ONTAP Cloud systems.

Additional features and enhancements for the Volume View

- A new AWS Resources page shows the AWS instances and EBS storage that Cloud Manager allocates when it creates volumes.
You can view details about these resources, change instance types, and turn instances off and on.
- You can now specify the AWS tags that you want Cloud Manager to apply to AWS resources.
- You can modify the password that Cloud Manager sets for each ONTAP Cloud system.
- You can also modify your user account, including the AWS keys associated with the account.

Related information

[Find the Release Notes for your version of ONTAP Cloud](#)

Upgrade notes

Upgrade notes describe new requirements and changes in support between the last release of the product and this one, including any deprecated features. Review this information carefully before upgrading to the new release. See the NetApp Interoperability Matrix (IMT) for supported configurations and the product user documentation for complete system requirements.

IAM policy changes required

The Cloud Manager Identity and Access Management (IAM) policy was updated for the 3.0 release.

The following actions were added to launch ONTAP Cloud HA configurations:

- “ec2:DescribeRouteTables”
- “ec2:DescribeImages”
- “iam:PassRole”
- “iam:CreateRole”
- “iam>DeleteRole”
- “iam:PutRolePolicy”
- “iam:CreateInstanceProfile”
- “iam>DeleteRolePolicy”
- “iam:AddRoleToInstanceProfile”
- “iam:RemoveRoleFromInstanceProfile”
- “iam>DeleteInstanceProfile”

You should update your IAM policy before you update to this Cloud Manager release.

[NetApp OnCommand Cloud Manager: AWS IAM Policy](#)

Changes to web browser requirements

- The minimum required version of Google Chrome is now 48.
- The minimum required version of Mozilla Firefox is now 43.

For the full list of supported web browser versions, see the [NetApp Interoperability Matrix Tool](#).

Updating Cloud Manager to this release

You can update Cloud Manager from 2.1 and later to 3.0 directly from Cloud Manager by clicking the **New version available** notification or by going to the Software Update page.

For Cloud Manager 2.0 or earlier, you cannot directly upgrade because Cloud Manager is now supported on Linux only.

[OnCommand Cloud Manager 3.0 Installation and Setup Guide for Storage System Management](#)

[OnCommand Cloud Manager 3.0 Installation and User Guide for Volume Management](#)

Known limitations

Known limitations identify platforms, devices, or functions that are not supported by this release of the product, or that do not interoperate correctly with it. Review these limitations carefully.

Limitation with the reverse resync operation

Cloud Manager does not support the reverse resync operation between an ONTAP 9.0 system and an 8.3.2 system when a mirror and backup (mirror-vault) policy is assigned to the data replication relationship. If you need to complete the reverse resync operation for this configuration, you must use the ONTAP CLI. A known issue ([1016348](#)) prevented the operation from completing with System Manager at the time these release notes were published.

Limitations with the AWS GovCloud (US) region

- Cloud Manager must be deployed in the AWS GovCloud (US) region if you want to launch ONTAP Cloud instances in the AWS GovCloud (US) region.
- The ONTAP Cloud pay-as-you-go AMI is not supported in the AWS GovCloud (US) region.
- M4 instances are not supported in the AWS GovCloud (US) region at this time. See the AWS documentation for the latest information about supported EC2 instance types.
- When deployed in the AWS GovCloud (US) region, Cloud Manager cannot discover ONTAP clusters in a NetApp Private Storage for Microsoft Azure configuration or a NetApp Private Storage for SoftLayer configuration.

Volume View limitations

- The Volume View enables you to create NFS volumes only.
- Cloud Manager does not launch ONTAP Cloud BYOL instances in the Volume View.
- The Volume View is not supported in the AWS GovCloud (US) region.
- ONTAP Cloud encryption is not available in the Volume View.

Note: All instances use Amazon EBS encryption.

Cloud Manager does not verify IP addresses of key managers

When you add a key manager to Cloud Manager, it does not verify the IP address that you entered because Cloud Manager does not communicate with key managers. If the IP address is incorrect, you are notified later when you try to create an ONTAP Cloud working environment. Be sure to verify key manager IP addresses after you enter them.

Cloud Manager does not set up iSCSI volumes

When you create a volume in Cloud Manager using the Storage System View, you can choose the NFS or CIFS protocol. You must use OnCommand System Manager to create a volume for iSCSI.

EC2 instance name changes do not change ONTAP Cloud working environment names or cluster names

If you change the name of an ONTAP Cloud instance from the AWS EC2 console, the ONTAP Cloud working environment name and the ONTAP Cloud cluster name do not change.

Known issues

There are no known issues in this release.

Where to get help and find more information

You can get help and find more information by going to the NetApp Support Site and the NetApp Community forums.

- [*NetApp Support*](#)
Access troubleshooting tools, product documentation, and technical support assistance.
- [*NetApp ONTAP Cloud Support*](#)
Access support resources to get help and troubleshoot issues with ONTAP Cloud.
- [*NetApp Community: Hybrid Cloud*](#)
Connect with peers, ask questions, exchange ideas, find resources, and share best practices.
- [*NetApp ONTAP Cloud Resources*](#)
Access additional documentation and videos for Cloud Manager and ONTAP Cloud.

Copyright information

Copyright © 1994–2016 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, Go Further, Faster, AltaVault, ASUP, AutoSupport, Campaign Express, Cloud ONTAP, Clustered Data ONTAP, Customer Fitness, Data ONTAP, DataMotion, Fitness, Flash Accel, Flash Cache, Flash Pool, FlashRay, FlexArray, FlexCache, FlexClone, FlexPod, FlexScale, FlexShare, FlexVol, FPolicy, GetSuccessful, LockVault, Manage ONTAP, Mars, MetroCluster, MultiStore, NetApp Insight, OnCommand, ONTAP, ONTAPI, RAID DP, RAID-TEC, SANtricity, SecureShare, Simplicity, Simulate ONTAP, Snap Creator, SnapCenter, SnapCopy, SnapDrive, SnapIntegrator, SnapLock, SnapManager, SnapMirror, SnapMover, SnapProtect, SnapRestore, Snapshot, SnapValidator, SnapVault, StorageGRID, Tech OnTap, Unbound Cloud, and WAFL and other names are trademarks or registered trademarks of NetApp, Inc., in the United States, and/or other countries. All other brands or products are trademarks or registered trademarks of their respective holders and should be treated as such. A current list of NetApp trademarks is available on the web.

<http://www.netapp.com/us/legal/netapptmlist.aspx>

How to send comments about documentation and receive update notifications

You can help us to improve the quality of our documentation by sending us your feedback. You can receive automatic notification when production-level (GA/FCS) documentation is initially released or important changes are made to existing production-level documents.

If you have suggestions for improving this document, send us your comments by email.

doccomments@netapp.com

To help us direct your comments to the correct division, include in the subject line the product name, version, and operating system.

If you want to be notified automatically when production-level documentation is released or important changes are made to existing production-level documents, follow Twitter account @NetAppDoc.

You can also contact us in the following ways:

- NetApp, Inc., 495 East Java Drive, Sunnyvale, CA 94089 U.S.
- Telephone: +1 (408) 822-6000
- Fax: +1 (408) 822-4501
- Support telephone: +1 (888) 463-8277