



What's new

Cloud Volumes ONTAP 9.11.1 release notes

NetApp
October 11, 2022

Table of Contents

- What's new in Cloud Volumes ONTAP 9.11.1 1
 - 9.11.1 GA (1 Aug 2022) 1
 - 9.11.1 RC1 (7 June 2022) 1
 - New unsupported ONTAP feature 2
 - Upgrade notes 2

What's new in Cloud Volumes ONTAP 9.11.1

Cloud Volumes ONTAP 9.11.1 includes new enhancements.

Additional features and enhancements are also introduced in the latest versions of Cloud Manager. See the [Cloud Manager Release Notes](#) for details.

9.11.1 GA (1 Aug 2022)

The General Availability (GA) release of Cloud Volumes ONTAP 9.11.1 is now available. The GA release includes bug fixes.

9.11.1 RC1 (7 June 2022)

Cloud Volumes ONTAP 9.11.1 Release Candidate 1 is now available in AWS, Azure, and Google Cloud. This release includes the following new features and enhancements.

Performance enhancement

We have enhanced the read performance of new aggregates created in 9.11.1 or later.

Increased storage efficiency

Starting with the 9.11.1 release, all new volumes enabled for storage efficiency will include a new compression feature called temperature-sensitive storage efficiency. The previous generation compression feature is no longer used.

Temperature-sensitive storage efficiency compresses data based on data temperature, or how often the data is used. Cold data, or data that is not used often, is recompressed with a higher compression ratio for increased storage efficiency.

VPC sharing in AWS

Cloud Volumes ONTAP HA pairs are now supported in AWS with VPC sharing. VPC sharing enables your organization to share subnets with other AWS accounts. Networking (the VPC, subnets, and route tables) reside in the VPC owner account, while the EC2 instances for the HA configuration reside in a participant account using shared subnets.

[Learn how to deploy an HA pair in a shared subnet](#)

New AWS region support

Cloud Volumes ONTAP is now supported in the AWS Jakarta region (ap-southeast-3).

[View the full list of supported regions for Cloud Volumes ONTAP](#)

New Azure region support

Cloud Volumes ONTAP is now supported in the Azure Brazil Southeast region.

[View the full list of supported regions for Cloud Volumes ONTAP](#)

Support for 24 storage VMs in Google Cloud

24 storage VMs are now supported with Cloud Volumes ONTAP in Google Cloud for most configurations.

- [Learn more about storage VM limits in Google Cloud](#)
- [Learn how to create data-serving storage VMs for Cloud Volumes ONTAP in Google Cloud](#)

New Google Cloud region support

Cloud Volumes ONTAP HA pairs are now supported in the Milan (europe-west8) region.

[View the full list of supported regions for Cloud Volumes ONTAP](#)

Modifying LIF services for new storage VMs

Starting with this release, if you create a new storage VM on a Cloud Volumes ONTAP HA pair in AWS or Azure, then you need to modify the network service policies for the storage VM. Modifying the services is required because it ensures that Cloud Volumes ONTAP can use the iSCSI LIF for outbound management connections.

Note that modifying LIF services is not required for Cloud Volumes ONTAP in Google Cloud because the Cloud Manager API sets the LIF services for you during creation.

The commands that you need to run are specified on the following pages:

- [Learn how to create additional storage VMs in AWS](#)
- [Learn how to create additional storage VMs in Azure](#)

New unsupported ONTAP feature

The new multi-admin verification feature introduced in ONTAP 9.11.1 is not supported with Cloud Volumes ONTAP. Enabling multi-admin verification on Cloud Volumes ONTAP will result in an unsupported configuration.

Upgrade notes

Read through these notes to learn more about upgrading to this release.

How to upgrade

Upgrades of Cloud Volumes ONTAP must be completed from Cloud Manager. You should not upgrade Cloud Volumes ONTAP by using System Manager or the CLI. Doing so can impact system stability.

[Learn how to upgrade when Cloud Manager notifies you.](#)

Supported upgrade path

You can upgrade to Cloud Volumes ONTAP 9.11.1 from the 9.11.0 release and from the 9.10.1 release. Cloud Manager will prompt you to upgrade eligible Cloud Volumes ONTAP systems to this release.

Required version of the Connector

The Cloud Manager Connector must be running version 3.9.19 or later to deploy new Cloud Volumes ONTAP 9.11.1 systems and to upgrade existing systems to 9.11.1.



Automatic upgrades of the Connector are enabled by default so you should be running the latest version.

Downtime

- The upgrade of a single node system takes the system offline for up to 25 minutes, during which I/O is interrupted.
- Upgrading an HA pair is nondisruptive and I/O is uninterrupted. During this nondisruptive upgrade process, each node is upgraded in tandem to continue serving I/O to clients.

c4, m4, and r4 instance types

Starting with the 9.8 release, c4, m4, and r4 instance types aren't supported with new Cloud Volumes ONTAP systems. If you have an existing Cloud Volumes ONTAP system that's running on a c4, m4, or r4 instance type, you can still upgrade to this release.

We recommend changing to an instance type in the c5, m5, or r5 instance family.

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.