



Known limitations

Cloud Volumes ONTAP release notes

NetApp
February 10, 2026

This PDF was generated from <https://docs.netapp.com/us-en/cloud-volumes-ontap-9161-relnotes/reference-limitations.html> on February 10, 2026. Always check docs.netapp.com for the latest.

Table of Contents

- Known limitations 1
 - Known limitations for Cloud Volumes ONTAP in all cloud providers 1
 - Unsupported ONTAP features 1
 - Maximum concurrent replication operations 1
 - Cloud provider snapshots must not be used for your backup and recovery plans 2
 - Cloud Volumes ONTAP supports only Reserved and On-demand VM instances 2
 - Automatic application resource management solutions shouldn't be used 2
 - Software updates must be completed by BlueXP 2
 - Cloud Volumes ONTAP deployment must not be modified from your cloud provider's console 2
 - Disks and aggregates must be managed from BlueXP 2
 - SnapManager licensing limitation 2
 - Limitations with third-party agents and extensions 2
 - Known limitations for Cloud Volumes ONTAP in AWS 3
 - AWS Outpost limitations 3
 - Flash Cache limitations 3
 - False alarms reported by Amazon CloudWatch 3
 - Cloud Volumes ONTAP HA pairs do not support immediate storage giveback 3
 - Known limitations for Cloud Volumes ONTAP in Azure 3
 - Limitations with using Azure VM extensions 4
 - Flash Cache limitations 4
 - Limitations with high-availability deployments 4
 - Limitations with HA deployments in single availability zones 4
 - Known limitations for Cloud Volumes ONTAP in Google Cloud 4
 - Limitation with packet mirroring 4
 - Google Private Service Connect limitations 4

Known limitations

Known limitations for Cloud Volumes ONTAP in all cloud providers

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.

The following limitations apply to Cloud Volumes ONTAP in all cloud providers: AWS, Azure, and Google Cloud.

Unsupported ONTAP features

The following features are not supported with Cloud Volumes ONTAP:

- Aggregate-level inline deduplication
- Aggregate-level background deduplication
- Disk maintenance center
- Disk sanitization
- FabricPool mirroring
- Fibre Channel (FC)
- Flash Pools
- Infinite Volumes
- Interface groups
- Intranode LIF failover
- MetroCluster
- Multi-admin verification

Enabling multi-admin verification on Cloud Volumes ONTAP will result in an unsupported configuration.

- RAID4, RAID-DP, RAID-TEC (RAID0 is supported)
- Service Processor
- SnapLock Compliance and Enterprise modes (only Cloud WORM is supported)
- SnapMirror Synchronous
- VLANs
- SMB Continuous Availability (CA)

[Continuously available SMB shares](#) for nondisruptive operations are not supported.

Maximum concurrent replication operations

The maximum number of concurrent SnapMirror or SnapVault transfers for Cloud Volumes ONTAP is 100 per node, regardless of the instance type or machine type.

Cloud provider snapshots must not be used for your backup and recovery plans

You shouldn't use your cloud provider's snapshots as part of your backup and recovery plan for Cloud Volumes ONTAP data. You should always use ONTAP Snapshot copies or third-party backup solutions to back up and restore data hosted on Cloud Volumes ONTAP.

[Learn how to use BlueXP backup and recovery to back up and restore ONTAP data.](#)



ONTAP consistency points in the WAFL file system determine data consistency. Only ONTAP can quiesce the WAFL file system to make a crash-consistent backup.

Cloud Volumes ONTAP supports only Reserved and On-demand VM instances

Cloud Volumes ONTAP can run on either a Reserved or On-demand VM instance from your cloud provider. Other types of VM instances aren't supported.

Automatic application resource management solutions shouldn't be used

Automatic application resource management solutions should not manage Cloud Volumes ONTAP systems. Doing so can result in a change to an unsupported configuration. For example, the solution might change Cloud Volumes ONTAP to an unsupported VM instance type.

Software updates must be completed by BlueXP

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

Cloud Volumes ONTAP deployment must not be modified from your cloud provider's console

Changes to a Cloud Volumes ONTAP configuration from your cloud provider's console results in an unsupported configuration. Any changes to the Cloud Volumes ONTAP resources that BlueXP creates and manages can impact system stability and BlueXP's ability to manage the system.



After initial deployment, modification of the Azure Subscription name used for Cloud Volumes ONTAP resources is supported.

Disks and aggregates must be managed from BlueXP

All disks and aggregates must be created and deleted directly from BlueXP. You should not perform these actions from another management tool. Doing so can impact system stability, hamper the ability to add disks in the future, and potentially generate redundant cloud provider fees.

SnapManager licensing limitation

SnapManager per-server licenses are supported with Cloud Volumes ONTAP. Per-storage system (SnapManager suite) licenses are not supported.

Limitations with third-party agents and extensions

Third-party agents and VM extensions are not supported on Cloud Volumes ONTAP virtual machine instances.

Known limitations for Cloud Volumes ONTAP in AWS

The following known limitations are specific to Cloud Volumes ONTAP in Amazon Web Services. Be sure to also review [Limitations for Cloud Volumes ONTAP in all cloud providers](#).

AWS Outpost limitations

If you have an AWS Outpost, you can deploy Cloud Volumes ONTAP in that Outpost by selecting the Outpost VPC in the Working Environment wizard. The experience is the same as any other VPC that resides in AWS. Note that you will need to first deploy a Connector in your AWS Outpost.

There are a few limitations to point out:

- Only single node Cloud Volumes ONTAP systems are supported at this time
- The EC2 instances that you can use with Cloud Volumes ONTAP are limited to what's available in your Outpost
- Only General Purpose SSDs (gp2) are supported at this time

Flash Cache limitations

C5D and R5D instance types include local NVMe storage, which Cloud Volumes ONTAP uses as *Flash Cache*. Note the following limitations:

- Compression must be disabled on all volumes to take advantage of the Flash Cache performance improvements up to Cloud Volumes ONTAP 9.12.0. When you deploy or upgrade to Cloud Volumes ONTAP 9.12.1, you don't need to disable compression.

You can choose no storage efficiency when creating a volume from BlueXP, or you can create a volume and then [disable data compression by using the CLI](#).

- Cache rewarming after a reboot is not supported with Cloud Volumes ONTAP.

False alarms reported by Amazon CloudWatch

Cloud Volumes ONTAP does not release CPUs when idle, so [Amazon CloudWatch](#) can report a high CPU warning for the EC2 instance because it sees 100% usage. You can ignore this alarm. The ONTAP statistics command displays the true usage of the CPUs.

Cloud Volumes ONTAP HA pairs do not support immediate storage giveback

After a node reboots, the partner must sync data before it can return the storage. The time that it takes to resync data depends on the amount of data written by clients while the node was down and the data write speed during the time of giveback.

[Learn how storage works in a Cloud Volumes ONTAP HA pair running in AWS.](#)

Known limitations for Cloud Volumes ONTAP in Azure

The following known limitations are specific to Cloud Volumes ONTAP in Microsoft Azure. Be sure to also review [Limitations for Cloud Volumes ONTAP in all cloud providers](#).

Limitations with using Azure VM extensions

Cloud Volumes ONTAP does not support Azure virtual machine (VM) extensions because they affect BlueXP management operations. During deployment, BlueXP prevents the installation of any extensions on your VMs. If extensions are already installed on your existing Cloud Volumes ONTAP VMs, contact Microsoft Azure Support to remove them. For guidance, refer to the knowledge base (KB) article [Can Azure VM Management Extensions be installed into Cloud Volume ONTAP?](#)

Starting July 14, 2025, NetApp will send emails and notify you in BlueXP if VM extensions are detected on your Cloud Volumes ONTAP VMs.

Flash Cache limitations

Cloud Volumes ONTAP uses the local NVMe storage in some VM types as *Flash Cache*. Note this limitation:

- Cache rewarming after a reboot is not supported.

Limitations with high-availability deployments

High-availability (HA) pairs aren't supported in some regions.

[View the list of supported Azure regions.](#)

Limitations with HA deployments in single availability zones

Beginning with Cloud Volumes ONTAP 9.15.1, you can deploy virtual machine (VM) instances in HA mode in single availability zones (AZs) in Azure. For information about the criteria supporting this feature, refer to [Deploy HA pairs in single availability zones in Azure](#).

If the Cloud Volumes ONTAP version is earlier than 9.15.1 or if any of these conditions are not met, the previous deployment model utilizing availability sets becomes effective. This applies to only HA configurations.

Known limitations for Cloud Volumes ONTAP in Google Cloud

The following known limitations are specific to Cloud Volumes ONTAP in Google Cloud Platform. Be sure to also review [Limitations for Cloud Volumes ONTAP in all cloud providers](#).

Limitation with packet mirroring

[Packet mirroring](#) must be disabled in the Google Cloud VPC in which you deploy Cloud Volumes ONTAP.

Cloud Volumes ONTAP can't operate properly if packet mirroring is enabled.

Google Private Service Connect limitations

If you leverage [Google Private Service Connect](#) within the VPC that you are deploying Cloud Volumes ONTAP into, you will need to implement DNS records that forward traffic to the required [BlueXP API Endpoints](#).

Tiering data from Cloud Volumes ONTAP into a Google Cloud Storage bucket is not currently supported with Private Service Connect.

Copyright information

Copyright © 2026 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.

LIMITED RIGHTS LEGEND: Use, duplication, or disclosure by the government is subject to restrictions as set forth in subparagraph (b)(3) of the Rights in Technical Data -Noncommercial Items at DFARS 252.227-7013 (FEB 2014) and FAR 52.227-19 (DEC 2007).

Data contained herein pertains to a commercial product and/or commercial service (as defined in FAR 2.101) and is proprietary to NetApp, Inc. All NetApp technical data and computer software provided under this Agreement is commercial in nature and developed solely at private expense. The U.S. Government has a non-exclusive, non-transferrable, nonsublicensable, worldwide, limited irrevocable license to use the Data only in connection with and in support of the U.S. Government contract under which the Data was delivered. Except as provided herein, the Data may not be used, disclosed, reproduced, modified, performed, or displayed without the prior written approval of NetApp, Inc. United States Government license rights for the Department of Defense are limited to those rights identified in DFARS clause 252.227-7015(b) (FEB 2014).

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.