



# **Supported configurations for Cloud Volumes ONTAP 9.7 in AWS**

## **Cloud Volumes ONTAP**

Ben Cammett  
July 07, 2021

This PDF was generated from [https://docs.netapp.com/us-en/cloud-volumes-ontap/reference\\_configs\\_aws\\_97.html](https://docs.netapp.com/us-en/cloud-volumes-ontap/reference_configs_aws_97.html) on July 30, 2021. Always check docs.netapp.com for the latest.

# Table of Contents

- Supported configurations for Cloud Volumes ONTAP 9.7 in AWS ..... 1
  - Supported configurations by license ..... 1
  - Supported disk sizes ..... 3

# Supported configurations for Cloud Volumes ONTAP 9.7 in AWS

Several Cloud Volumes ONTAP configurations are supported in AWS.

## Supported configurations by license

Cloud Volumes ONTAP is available in AWS as a single node system and as a high-availability (HA) pair of nodes for fault tolerance and nondisruptive operations.

Upgrading a single node system to an HA pair is not supported. If you want to switch between a single node system and an HA pair, then you need to deploy a new system and replicate data from the existing system to the new system.

	Freemium	PAYGO Explore	PAYGO Standard	PAYGO Premium	Node-based license	Capacity-based license
Maximum system capacity (disks + object storage)	500 GB	2 TB	10 TB	368 TB <sup>1</sup>	368 TB per license <sup>1</sup>	2 PB <sup>1</sup>

	Freemium	PAYGO Explore	PAYGO Standard	PAYGO Premium	Node-based license	Capacity-based license
<b>Supported EC2 instance types <sup>2</sup></b>	<ul style="list-style-type: none"> <li>• c4.4xlarge</li> <li>• c4.8xlarge</li> <li>• c5.9xlarge</li> <li>• c5.18xlarge</li> <li>• c5d.4xlarge <sup>3</sup></li> <li>• c5d.9xlarge <sup>3</sup></li> <li>• c5d.18xlarge <sup>3</sup></li> <li>• c5n.9xlarge <sup>4</sup></li> <li>• c5n.18xlarge <sup>4</sup></li> <li>• m4.xlarge</li> <li>• m4.2xlarge</li> <li>• m4.4xlarge</li> <li>• m5.xlarge</li> <li>• m5.2xlarge</li> <li>• m5.4xlarge</li> <li>• m5.16xlarge</li> <li>• m5d.8xlarge <sup>3</sup></li> <li>• m5d.12xlarge <sup>3</sup></li> <li>• r4.xlarge</li> </ul>	<ul style="list-style-type: none"> <li>• m4.xlarge</li> <li>• m5.xlarge</li> </ul>	<ul style="list-style-type: none"> <li>• m4.2xlarge</li> <li>• m5.2xlarge</li> <li>• r4.xlarge</li> <li>• r5.xlarge</li> </ul>	<ul style="list-style-type: none"> <li>• c4.4xlarge</li> <li>• c4.8xlarge</li> <li>• c5.9xlarge</li> <li>• c5.18xlarge</li> <li>• c5d.4xlarge <sup>3</sup></li> <li>• c5d.9xlarge <sup>3</sup></li> <li>• c5d.18xlarge <sup>3</sup></li> <li>• c5n.9xlarge <sup>4</sup></li> <li>• c5n.18xlarge <sup>4</sup></li> <li>• m4.4xlarge</li> <li>• m4.2xlarge</li> <li>• m5.4xlarge</li> <li>• m5.16xlarge</li> <li>• m5d.8xlarge <sup>3</sup></li> <li>• m5d.12xlarge <sup>3</sup></li> <li>• r4.2xlarge</li> <li>• r5.2xlarge</li> <li>• r5.8xlarge</li> <li>• r5.12xlarge <sup>5</sup></li> <li>• r5d.2xlarge <sup>3</sup></li> </ul>	<ul style="list-style-type: none"> <li>• c4.4xlarge</li> <li>• c4.8xlarge</li> <li>• c5.9xlarge</li> <li>• c5.18xlarge</li> <li>• c5d.4xlarge <sup>3</sup></li> <li>• c5d.9xlarge <sup>3</sup></li> <li>• c5d.18xlarge <sup>3</sup></li> <li>• c5n.9xlarge <sup>4</sup></li> <li>• c5n.18xlarge <sup>4</sup></li> <li>• m4.xlarge</li> <li>• m4.2xlarge</li> <li>• m4.4xlarge</li> <li>• m5.xlarge</li> <li>• m5.2xlarge</li> <li>• m5.4xlarge</li> <li>• m5.16xlarge</li> <li>• m5d.8xlarge <sup>3</sup></li> <li>• m5d.12xlarge <sup>3</sup></li> <li>• r4.xlarge</li> </ul>	<ul style="list-style-type: none"> <li>• c4.4xlarge</li> <li>• c4.8xlarge</li> <li>• c5.9xlarge</li> <li>• c5.18xlarge</li> <li>• c5d.4xlarge <sup>3</sup></li> <li>• c5d.9xlarge <sup>3</sup></li> <li>• c5d.18xlarge <sup>3</sup></li> <li>• c5n.9xlarge <sup>4</sup></li> <li>• c5n.18xlarge <sup>4</sup></li> <li>• m4.xlarge</li> <li>• m4.2xlarge</li> <li>• m4.4xlarge</li> <li>• m5.xlarge</li> <li>• m5.2xlarge</li> <li>• m5.4xlarge</li> <li>• m5.16xlarge</li> <li>• m5d.8xlarge <sup>3</sup></li> <li>• m5d.12xlarge <sup>3</sup></li> <li>• r4.xlarge</li> </ul>

	Freemium	PAYGO Explore	PAYGO Standard	PAYGO Premium	Node-based license	Capacity-based license
<b>Supported disk types</b> <sup>6</sup>	General Purpose SSDs (gp3 and gp2), Provisioned IOPS SSDs (io1), and Throughput Optimized HDDs (st1) <sup>7</sup>					

Notes:

- r5.2xlarge
- r5.8xlarge
- 1. For some configurations, disk limits prevent you from reaching the capacity limit by using disks alone. In those cases, you can reach the capacity limit by [tiering inactive data to object storage](#). For information about disk limits, refer to [Storage limits](#).
- 2. When you choose an EC2 instance type, you can specify whether it is a shared instance or a dedicated instance.
- 3. These instance types include local NVMe storage, which Cloud Volumes ONTAP uses as *Flash Cache*. Flash Cache speeds access to data through real-time intelligent caching of recently read user data and NetApp metadata. It is effective for random read-intensive workloads, including databases, email, and file services. Compression must be disabled on all volumes to take advantage of the Flash Cache performance improvements. [Learn more](#).
- 4. c5n.9xlarge and c5n.18xlarge are supported starting with 9.7 P5.
- 5. The r5.12xlarge instance type has a known limitation with supportability. If a node unexpectedly reboots due to a panic, the system might not collect core files used to troubleshoot and root cause the problem. The customer accepts the risks and limited support terms and bears all support responsibility if this condition occurs.
- 6. Enhanced write performance is enabled when using SSDs with Cloud Volumes ONTAP Standard, Premium, and BYOL.
- 7. Tiering data to object storage is not recommended when using Throughput Optimized HDDs (st1).
- 8. For AWS region support, see [Cloud Volumes Global Regions](#).
- 9. Cloud Volumes ONTAP can run on either a Reserved or On-demand VM instance from your cloud provider. Solutions that use other VM instance types aren't supported.

## Supported disk sizes

In AWS, an aggregate can contain up to 6 disks that are all the same type and size.

General Purpose SSD (gp3 and gp2)	Provisioned IOPS SSD (io1)	Throughput Optimized HDD (st1)
<ul style="list-style-type: none"> <li>• 100 GB</li> <li>• 500 GB</li> <li>• 1 TB</li> <li>• 2 TB</li> <li>• 4 TB</li> <li>• 6 TB</li> <li>• 8 TB</li> <li>• 16 TB</li> </ul>	<ul style="list-style-type: none"> <li>• 100 GB</li> <li>• 500 GB</li> <li>• 1 TB</li> <li>• 2 TB</li> <li>• 4 TB</li> <li>• 6 TB</li> <li>• 8 TB</li> <li>• 16 TB</li> </ul>	<ul style="list-style-type: none"> <li>• 500 GB</li> <li>• 1 TB</li> <li>• 2 TB</li> <li>• 4 TB</li> <li>• 6 TB</li> <li>• 8 TB</li> <li>• 16 TB</li> </ul>

## Copyright Information

Copyright © 2021 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.