



Supported configurations for Cloud Volumes ONTAP 9.6 in AWS

Cloud Volumes ONTAP

Ben Cammett
March 10, 2021

This PDF was generated from https://docs.netapp.com/us-en/cloud-volumes-ontap/reference_configs_aws_96.html on March 18, 2021. Always check docs.netapp.com for the latest.

Table of Contents

- Supported configurations for Cloud Volumes ONTAP 9.6 in AWS 1
 - Supported configurations by license 1
 - Supported disk sizes 2

Supported configurations for Cloud Volumes ONTAP 9.6 in AWS

Cloud Volumes ONTAP is available in AWS in two pricing options: pay-as-you-go and Bring Your Own License (BYOL). For pay-as-you-go, you can choose from three configurations: Explore, Standard, or Premium.

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.

	Explore	Standard	Premium	BYOL
Supported EC2 instance types ¹	<ul style="list-style-type: none">• m4.xlarge• m5.xlarge	<ul style="list-style-type: none">• m4.2xlarge• m5.2xlarge• r4.xlarge• r5.xlarge	<ul style="list-style-type: none">• c4.4xlarge• c4.8xlarge• c5.9xlarge• c5.18xlarge• c5d.4xlarge ²• c5d.9xlarge ²• c5d.18xlarge ^{2,3}• m4.4xlarge• m5.4xlarge• m5d.8xlarge ^{2,3}• r4.2xlarge• r5.2xlarge• r5d.2xlarge ²	<ul style="list-style-type: none">• c4.4xlarge• c4.8xlarge• c5.9xlarge• c5.18xlarge• c5d.4xlarge ²• c5d.9xlarge ²• c5d.18xlarge ^{2,3}• m4.xlarge• m4.2xlarge• m4.4xlarge• m5.xlarge• m5.2xlarge• m5.4xlarge• m5d.8xlarge ^{2,3}• r4.xlarge• r4.2xlarge• r5.xlarge• r5.2xlarge• r5d.2xlarge ²
Supported disk types ⁴	General Purpose SSD (gp2) ⁵ , Provisioned IOPS SSD (io1), Throughput Optimized HDD (st1), and Cold HDD (sc1 - single node only)			
Cold data tiering to S3	Not supported	Supported, but not with Cold HDD disks		

	Explore	Standard	Premium	BYOL
Maximum system capacity (disks + object storage)	2 TB	10 TB	368 TB ⁵	368 TB per license ⁵

Notes:

1. When you choose an EC2 instance type, you can specify whether it is a shared instance or a dedicated instance.
2. 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](#).
3. c5d.18xlarge and m5d.8xlarge are supported starting with Cloud Volumes ONTAP 9.6 P3.
4. Enhanced write performance is enabled when using SSDs with Cloud Volumes ONTAP Standard, Premium, and BYOL.
5. gp3 SSDs are not supported.
6. For some HA configurations, disk limits prevent you from reaching the 368 TB capacity limit by using disks alone. In those cases, you can reach the 368 TB capacity limit by [tiering inactive data to object storage](#). For information about disk limits, refer to [storage limits](#).
7. For AWS region support, see [Cloud Volumes Global Regions](#).

Supported disk sizes

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

General Purpose SSD (gp2)	Provisioned IOPS SSD (io1)	Throughput Optimized HDD (st1)	Cold HDD (sc1 - single node only)
<ul style="list-style-type: none"> • 100 GB • 500 GB • 1 TB • 2 TB • 4 TB • 6 TB • 8 TB • 16 TB 	<ul style="list-style-type: none"> • 100 GB • 500 GB • 1 TB • 2 TB • 4 TB • 6 TB • 8 TB • 16 TB 	<ul style="list-style-type: none"> • 500 GB • 1 TB • 2 TB • 4 TB • 6 TB • 8 TB • 16 TB 	<ul style="list-style-type: none"> • 2 TB • 4 TB • 6 TB • 8 TB • 16 TB

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.