



Supported configurations for Cloud Volumes ONTAP 9.7 in AWS

Cloud Volumes ONTAP

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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 ¹	368 TB per license ¹	2 PB ¹

	Freemium	PAYGO Explore	PAYGO Standard	PAYGO Premium	Node-based license	Capacity-based license
Supported EC2 instance types ²	<ul style="list-style-type: none"> • c4.4xlarge • c4.8xlarge • c5.9xlarge • c5.18xlarge • c5d.4xlarge³ • c5d.9xlarge³ • c5d.18xlarge³ • c5n.9xlarge⁴ • c5n.18xlarge⁴ • m4.xlarge • m4.2xlarge • m4.4xlarge • m5.xlarge • m5.2xlarge • m5.4xlarge • m5.16xlarge • m5d.8xlarge³ • m5d.12xlarge³ • r4.xlarge 	<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.4xlarge³ • c5d.9xlarge³ • c5d.18xlarge³ • c5n.9xlarge⁴ • c5n.18xlarge⁴ • m4.4xlarge • m4.2xlarge • m5.4xlarge • m5.16xlarge • m5d.8xlarge³ • m5d.12xlarge³ • r4.2xlarge • r5.2xlarge • r5.8xlarge • r5.12xlarge⁵ • r5d.2xlarge³ 	<ul style="list-style-type: none"> • c4.4xlarge • c4.8xlarge • c5.9xlarge • c5.18xlarge • c5d.4xlarge³ • c5d.9xlarge³ • c5d.18xlarge³ • c5n.9xlarge⁴ • c5n.18xlarge⁴ • m4.xlarge • m4.2xlarge • m4.4xlarge • m5.xlarge • m5.2xlarge • m5.4xlarge • m5.16xlarge • m5d.8xlarge³ • m5d.12xlarge³ • r4.xlarge 	<ul style="list-style-type: none"> • c4.4xlarge • c4.8xlarge • c5.9xlarge • c5.18xlarge • c5d.4xlarge³ • c5d.9xlarge³ • c5d.18xlarge³ • c5n.9xlarge⁴ • c5n.18xlarge⁴ • m4.xlarge • m4.2xlarge • m4.4xlarge • m5.xlarge • m5.2xlarge • m5.4xlarge • m5.16xlarge • m5d.8xlarge³ • m5d.12xlarge³ • r4.xlarge

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

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"> • 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

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