



Supported configurations for Cloud Volumes ONTAP 9.5

Cloud Volumes ONTAP

Ben Cammett
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Supported configurations for Cloud Volumes ONTAP 9.5

Cloud Volumes ONTAP is available in AWS and Azure 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.

Cloud Volumes ONTAP for AWS

In AWS, you can deploy Cloud Volumes ONTAP as a single node system or as an HA pair.

| | Explore | Standard | Premium | BYOL |
|---|--|---|--|--|
| EC2 instance types | <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• c5d.4xlarge*• c5d.9xlarge*• m4.4xlarge• m5.4xlarge• r4.2xlarge• r5.2xlarge• r5d.2xlarge* | <ul style="list-style-type: none">• c4.4xlarge• c4.8xlarge• c5d.4xlarge*• c5d.9xlarge*• m4.xlarge• m4.2xlarge• m4.4xlarge• m5.xlarge• m5.2xlarge• m5.4xlarge• r4.xlarge• r4.2xlarge• r5.xlarge• r5.2xlarge• r5d.2xlarge* |
| Underlying storage | General Purpose SSDs (gp2), Provisioned IOPS SSDs (io1), and Throughput Optimized HDDs (st1), up to 16 TB per disk | | | |
| Maximum system capacity (disks + object storage) | 2 TB | 10 TB | 368 TB | 368 TB per license |

Notes:

1. The instance types denoted with a * 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](#).

2. For some 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](#).
3. If you enable data tiering, a system's capacity limit stays the same. The capacity limit includes both disks and object storage.
4. Data tiering is supported with Cloud Volumes ONTAP Standard, Premium, and BYOL.
5. When you choose an EC2 instance type, you can specify whether it is a shared instance or a dedicated instance.
6. Cold HDDs are not supported with HA pairs.
7. Enhanced write performance is enabled when using EBS SSDs with Cloud Volumes ONTAP Standard, Premium, and BYOL.
8. For AWS region support, see [Cloud Volumes Global Regions](#).

Cloud Volumes ONTAP for Azure

In Azure, you can deploy Cloud Volumes ONTAP as a single node system or as an HA pair.

Single node systems

You can choose from the following configurations when deploying Cloud Volumes ONTAP as a single-node system in Azure:

| | Explore | Standard | Premium | BYOL |
|---|---|---|---|--|
| Virtual machine types | DS3_v2 | <ul style="list-style-type: none"> • DS4_v2 • DS13_v2 | <ul style="list-style-type: none"> • DS5_v2 • DS14_v2 | <ul style="list-style-type: none"> • DS3_v2 • DS4_v2 • DS5_v2 • DS13_v2 • DS14_v2 |
| Underlying storage | Standard HDD Managed Disks, Standard SSD Managed Disks, and Premium SSD Managed Disks, up to 32 TB per disk | | | |
| Maximum system capacity (disks + object storage) | 2 TB | 10 TB | 368 TB | 368 TB per license |

Notes:

1. If you enable data tiering, a system's capacity limit stays the same. The capacity limit includes both disks and object storage.
2. Data tiering is not supported with the DS3_v2 virtual machine type.
3. Enhanced write performance is enabled when using Azure Premium Storage disks, but not when using the DS3_v2 virtual machine type.
4. For Azure region support, see [Cloud Volumes Global Regions](#).

HA pairs

You can choose from the following configurations when deploying Cloud Volumes ONTAP as an HA pair in Azure:

| | Explore | Standard | Premium | BYOL |
|-------------------------|---------------|--|--|---|
| Virtual machine types | Not supported | <ul style="list-style-type: none">DS4_v2DS13_v2 | <ul style="list-style-type: none">DS5_v2DS14_v2 | <ul style="list-style-type: none">DS4_v2DS5_v2DS13_v2DS14_v2 |
| Underlying storage | Not supported | Premium page blobs, up to 8 TB per disk | | |
| Maximum system capacity | Not supported | 10 TB | 368 TB | 368 TB per license |

Notes:

1. Data tiering is not supported with HA pairs.
2. For Azure region support, see [Cloud Volumes Global Regions](#).

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