



Supported configurations for Cloud Volumes ONTAP 9.9.0 in Azure

Cloud Volumes ONTAP

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Supported configurations for Cloud Volumes ONTAP 9.9.0 in Azure

Several Cloud Volumes ONTAP configurations are supported in Azure.

Supported configurations by license

Cloud Volumes ONTAP is available in Azure 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.

Single node systems

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

	Freemium	PAYGO Explore	PAYGO Standard	PAYGO Premium	Node-based license	Capacity-based license
Maximum system capacity (disks + object storage)	500 GB	2 TB ¹	10 TB	368 TB	368 TB per license	2 PB
Supported virtual machine types	<ul style="list-style-type: none">• DS3_v2• DS4_v2• DS5_v2• DS13_v2• DS14_v2• DS15_v2• E4s_v3• E8s_v3• E32s_v3 ²• E48s_v3 ²• E64is_v3 ²• E80ids_v4 ³• L8s_v2 ⁴	<ul style="list-style-type: none">• DS3_v2• E4s_v3	<ul style="list-style-type: none">• DS4_v2• DS13_v2• E8s_v3	<ul style="list-style-type: none">• DS5_v2• DS14_v2• DS15_v2• E32s_v3 ²• E48s_v3 ²• E64is_v3 ²• E80ids_v4 ³	<ul style="list-style-type: none">• DS3_v2• DS4_v2• DS5_v2• DS13_v2• DS14_v2• DS15_v2• E4s_v3• E8s_v3• E32s_v3 ²• E48s_v3 ²• E64is_v3 ²• E80ids_v4 ³• L8s_v2 ⁴	<ul style="list-style-type: none">• DS3_v2• DS4_v2• DS5_v2• DS13_v2• DS14_v2• DS15_v2• E4s_v3• E8s_v3• E32s_v3 ²• E48s_v3 ²• E64is_v3 ²• E80ids_v4 ³• L8s_v2 ⁴

	Freemium	PAYGO Explore	PAYGO Standard	PAYGO Premium	Node-based license	Capacity-based license
Supported disk types ⁵	Standard HDD Managed Disks, Standard SSD Managed Disks, and Premium SSD Managed Disks					

Notes:

1. Data tiering to Azure Blob storage isn't supported with PAYGO Explore.
2. This VM type uses an [Ultra SSD](#) for VNVRAM, which provides better write performance.
3. This VM is recommended only when Azure maintenance control is needed. It's not recommended for any other use case due to the higher pricing.
4. This VM type includes 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](#).
5. Enhanced write performance is enabled when using SSDs, but not when using the DS3_v2 virtual machine type.
6. For Azure region support, see [Cloud Volumes Global Regions](#).
7. 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.

HA pairs

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

	Freemium	PAYGO Standard	PAYGO Premium	Node-based license	Capacity-based license
Maximum system capacity (disks + object storage)	500 GB	10 TB	368 TB	368 TB per license	2 PB
Supported virtual machine types	<ul style="list-style-type: none"> • DS4_v2 • DS5_v2 ¹ • DS13_v2 • DS14_v2 ¹ • DS15_v2 ¹ • E8s_v3 • E48s_v3 ¹ • E80ids_v4 ² 	<ul style="list-style-type: none"> • DS4_v2 • DS13_v2 	<ul style="list-style-type: none"> • DS5_v2 ¹ • DS14_v2 ¹ • DS15_v2 ¹ • E8s_v3 • E48s_v3 ¹ • E80ids_v4 ² 	<ul style="list-style-type: none"> • DS4_v2 • DS5_v2 ¹ • DS13_v2 • DS14_v2 ¹ • DS15_v2 ¹ • E8s_v3 • E48s_v3 ¹ • E80ids_v4 ² 	<ul style="list-style-type: none"> • DS4_v2 • DS5_v2 ¹ • DS13_v2 • DS14_v2 ¹ • DS15_v2 ¹ • E8s_v3 • E48s_v3 ¹ • E80ids_v4 ²

	Freemium	PAYGO Standard	PAYGO Premium	Node-based license	Capacity-based license
Supported disk types	Premium page blobs				

Notes:

1. Cloud Volumes ONTAP supports high write speed with these VM types when using an HA pair. High write speed is supported with all instance types when using a single node system. [Learn more about choosing a write speed.](#)
2. This VM is recommended only when Azure maintenance control is needed. It's not recommended for any other use case due to the higher pricing.
3. PAYGO Explore isn't supported with HA pairs in Azure.
4. For Azure region support, see [Cloud Volumes Global Regions](#).
5. 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 Azure, an aggregate can contain up to 12 disks that are all the same type and size.

Single node systems

Single node systems use Azure Managed Disks. The following disk sizes are supported:

Premium SSD	Standard SSD	Standard HDD
<ul style="list-style-type: none"> • 500 GB • 1 TB • 2 TB • 4 TB • 8 TB • 16 TB • 32 TB 	<ul style="list-style-type: none"> • 100 GB • 500 GB • 1 TB • 2 TB • 4 TB • 8 TB • 16 TB • 32 TB 	<ul style="list-style-type: none"> • 100 GB • 500 GB • 1 TB • 2 TB • 4 TB • 8 TB • 16 TB • 32 TB

HA pairs

HA pairs use Premium page blobs. The following disk sizes are supported:

- 500 GB
- 1 TB
- 2 TB
- 4 TB

- 8 TB

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