



Provision volumes for file services

Cloud Manager 3.7

NetApp
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Table of Contents

- Provision volumes for file services 1
 - Managing volumes for Azure NetApp Files 1
 - Managing Cloud Volumes Service for AWS 4

Provision volumes for file services

Managing volumes for Azure NetApp Files

View and create NFS volumes for [Azure NetApp Files](#) directly from Cloud Manager.

Setting up your configuration

Your configuration needs to meet a few requirements before you can manage volumes for Azure NetApp Files from Cloud Manager.

1. Azure NetApp Files must be set up by completing the following from the Azure portal:
 - [Register for Azure NetApp Files](#)
 - [Create a NetApp account](#)
 - [Set up a capacity pool](#)
 - [Delegate a subnet to Azure NetApp Files](#)
2. Cloud Manager must be set up as follows:
 - Cloud Manager must be running in Azure, in the account where Azure NetApp Files was set up.
 - The Cloud Manager virtual machine must receive permissions through a [managed identity](#).

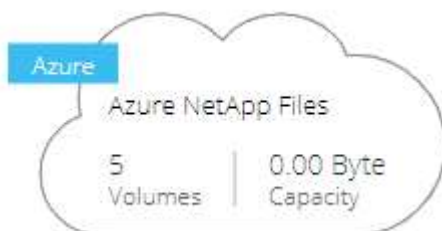
If you deployed Cloud Manager from Cloud Central, then you're all set. Cloud Central automatically enables a system-assigned managed identity on the Cloud Manager virtual machine.

If you deployed Cloud Manager from the Azure Marketplace, then you should have followed [instructions to enable a managed identity](#).

- The Azure role assigned to the Cloud Manager virtual machine must include the permissions listed in the latest [Cloud Manager policy for Azure](#):

```
"Microsoft.NetApp/netAppAccounts/read",  
"Microsoft.NetApp/netAppAccounts/capacityPools/read",  
"Microsoft.NetApp/netAppAccounts/capacityPools/volumes/write",  
"Microsoft.NetApp/netAppAccounts/capacityPools/volumes/read",  
"Microsoft.NetApp/netAppAccounts/capacityPools/volumes/delete"
```

When your configuration is set up, Cloud Manager automatically displays Azure NetApp Files on the Working Environments page:



Creating volumes

Cloud Manager enables you to create NFSv3 volumes for Azure NetApp Files.

Steps

1. Open the working environment.
2. Click **Add New Volume**.
3. Enter basic details about the volume in the **Account Information** page:
 - a. Select an Azure subscription and Azure NetApp Files account.
 - b. Enter a name for the volume.
 - c. Select a capacity pool and specify a quota, which is the amount of logical storage that's allocated to the volume.

Account Information

Azure Subscription

OCCM QA1

Volume Name

vol10

Azure NetApp Files Account

vadimAnf

Capacity pool

test2 (5.0 TiB)

Quota (GiB)

200

4. Fill out the **Location & Export Policy** page:
 - a. Select a VNet and subnet.
 - b. Configure an export policy to control access to the volume.

Location & Export Policy

Location

Vnet

TomerANFrg-vnet

Export Policy

Allowed Clients

172.70.2.0/32

Subnet

default | 172.20.1.0/28

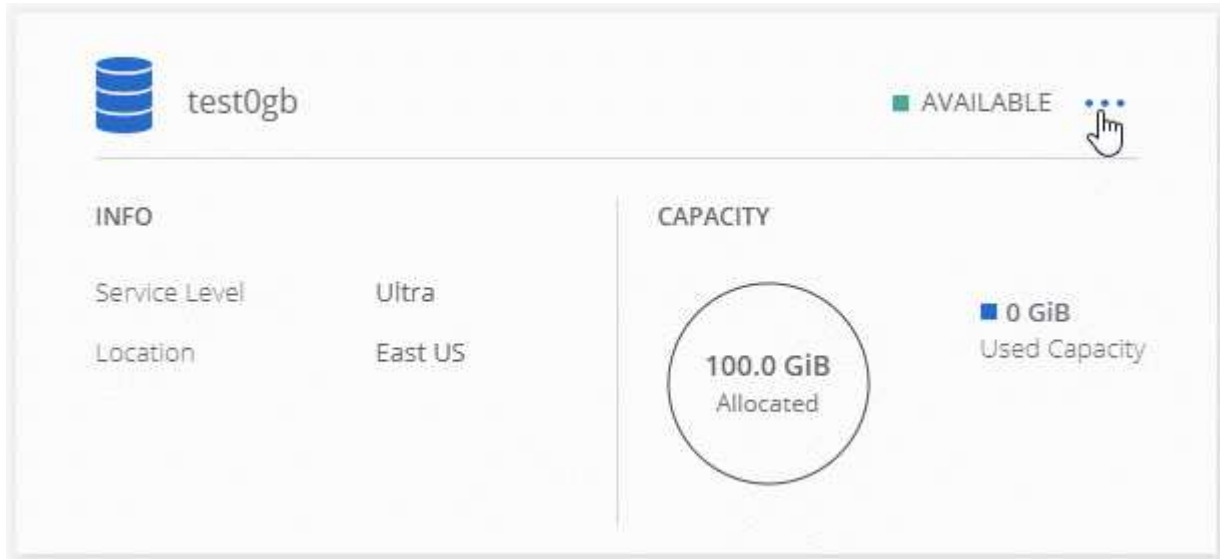
5. Click **Go**.

Getting a volume's mount path

Copy the mount path for a volume so you can mount the volume to a Linux machine.

Steps

1. Open the working environment.
2. Hover over the volume and click the menu.



3. Click **Mount Command**.



4. Copy the mount path and use the copied text to mount the volume to a Linux machine.

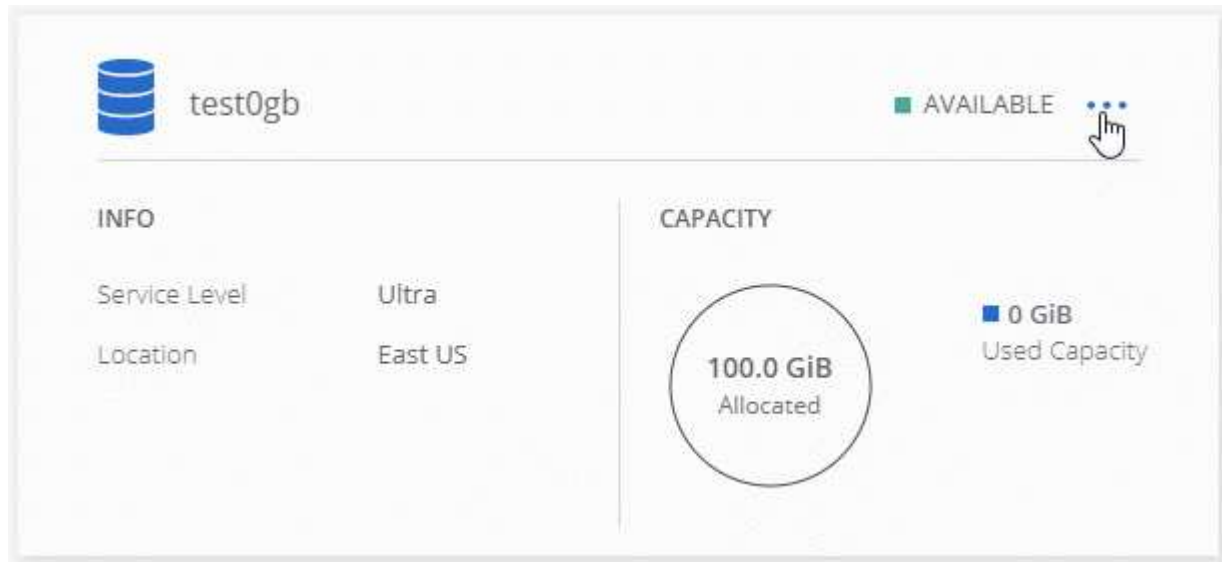
Deleting volumes

Delete the volumes that you no longer need.

Steps

1. Open the working environment.

2. Hover over the volume and click the menu.



3. Click **Delete**.

4. Confirm that you want to delete the volume.

Getting help

Use the Cloud Manager chat for general service questions.

For technical support issues associated with Azure NetApp Files, use the Azure portal to log a support request to Microsoft. Select your associated Microsoft subscription and select the **Azure NetApp Files** service name under **Storage**. Provide the remaining information required to create your Microsoft support request.

Cloud Manager provides a local AutoSupport download under the **Support Dashboard** menu option. This 7z file contains an Azure debug file to show inbound and outbound communication to your Azure NetApp Files account.

Limitations

- Cloud Manager doesn't support SMB volumes.
- Cloud Manager doesn't enable you to manage capacity pools or volume snapshots.
- You can create volumes with an initial size and single export policy. Editing a volume must be done from the Azure NetApp Files interface in the Azure portal.
- Cloud Manager doesn't support data replication to or from Azure NetApp Files.

Related links

- [NetApp Cloud Central: Azure NetApp Files](#)
- [Azure NetApp Files documentation](#)

Managing Cloud Volumes Service for AWS

Cloud Manager enables you to discover the NFS cloud volumes in your [Cloud Volumes](#)

[Service for AWS](#) subscription. After discovery, you can add additional NFS cloud volumes directly from Cloud Manager.



Cloud Manager does not support SMB or dual-protocol volumes with Cloud Volumes Service for AWS.

Before you get started

- Cloud Manager enables discovery of *existing* Cloud Volumes Service for AWS subscriptions. See the [NetApp Cloud Volumes Service for AWS Account Setup Guide](#) if you haven't set up your subscription yet.

You must follow this setup process for each region and provision your first volume from Cloud Volumes Service before you can discover the region in Cloud Manager.

- You need to obtain the Cloud Volumes API key and secret key so you can provide them to Cloud Manager. [For instructions, refer to Cloud Volumes Service for AWS documentation.](#)

Discovering your Cloud Volumes Service for AWS subscription

To get started, you need to discover the cloud volumes in an AWS region. You can discover additional regions later.

Steps

1. On the Working Environments page, click **Discover**.
2. Select **Cloud Volumes Service for AWS**.
3. Provide information about your Cloud Volumes Service subscription:
 - a. Select the AWS region where your cloud volumes reside.
 - b. Enter the Cloud Volumes API key and secret key. [For instructions, refer to Cloud Volumes Service for AWS documentation.](#)
 - c. Click **Go**.

Result

Cloud Manager should now display your Cloud Volumes Service for AWS configuration on the Working Environments page.



Discovering additional regions

If you have cloud volumes in additional regions, you need to discover each individual region.

Steps

1. On the Working Environments page, select the working environment (but don't open it by double-clicking).
2. In the right pane, click **Discover Cloud Volumes Service in another region**.

Cloud Volumes Service for AWS

1.85 TiB
Allocated Capacity


15.05 GiB
Used Capacity

1
Regions

15
Volumes



 Add New Volume

 Discover Cloud Volumes Service in another region

[View Volumes](#)

3. Provide information about your Cloud Volumes Service subscription:
 - a. Select the AWS region where your cloud volumes reside.
 - b. Enter the Cloud Volumes API key and secret key. [For instructions, refer to Cloud Volumes Service for AWS documentation.](#)
 - c. Click **Go**.

Result

Cloud Manager discovers information about the cloud volumes in the selected region.

Creating cloud volumes

Cloud Manager enables you to create NFSv3 cloud volumes. You can only create cloud volumes with an initial size and single export policy. Editing the volume must be done from the Cloud Volume Service user interface.

1. Open the working environment.
2. Click **Add New Volume**.
3. Enter details about the volume:
 - a. Enter a name for the volume.
 - b. Specify a size within the range of 100 GiB to 90,000 GiB (equivalent to 88 TiBs).



Cloud Manager displays volumes in GiB, while the Cloud Volumes Service displays volumes in GB.

- c. Specify a service level: Standard, Premium, or Extreme.

[Learn more about these service levels.](#)

- d. Choose a region. You can create the volume in a region that Cloud Manager has discovered.
- e. Restrict client access by specifying an IP address or Classless Inter-Domain Routing (CIDR).

Details

Volume Name	Size (GiB)
<input type="text" value="vol1"/>	<input type="text" value="800"/>
Service Level	
<input type="text" value="Premium"/>	
AWS Region	
<input type="text" value="us-west-2 US West (Oregon)"/>	

Export Policy

Allowed Clients
<input type="text" value="10.10.5.0/32"/>

4. Click **Go**.

Deleting cloud volumes

Delete the cloud volumes that you no longer need.

Steps

1. Open the working environment.
2. Hover over the volume and click the menu. Click **Delete**.
3. Confirm that you want to delete the volume.

Getting help

Use the Cloud Manager chat for general service questions.

For technical support issues associated with your cloud volumes, use your 20 digit “930” serial number located in the "Support" tab of the Cloud Volumes Service user interface. Use this support ID when opening a web ticket or calling for support. Be sure to activate your Cloud Volumes Service serial number for support from the Cloud Volumes Service user interface. [Those steps are explained here.](#)

Limitations

- Cloud Manager does not support SMB or dual-protocol volumes.
- You can only create cloud volumes with an initial size and single export policy. Editing the volume must be done from the Cloud Volume Service user interface.
- Cloud Manager doesn't support data replication to or from a Cloud Volumes Service for AWS subscription.
- Removing your Cloud Volumes Service for AWS subscription from Cloud Manager isn't supported. There are no charges to discover a region from Cloud Manager.

Related links

- [NetApp Cloud Central: Cloud Volumes Service for AWS](#)
- [NetApp Cloud Volumes Service for AWS documentation](#)

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