



# Manage Cloud services

## NetApp Keystone

NetApp  
September 23, 2021

# Table of Contents

- Manage Cloud services ..... 1
  - Managing Cloud services ..... 1
  - Managing Azure NetApp Files ..... 3
  - Managing Cloud Volumes Service for GCP ..... 7

# Manage Cloud services

## Managing Cloud services

### Overview

When registered with the NetApp Service Engine, you can manage your cloud volumes services (CVS) through the NetApp Service Engine web portal. This includes:

- Azure NetApp Files (ANF)
- (Future) Amazon Web Services (AWS)
- (Future) Google Cloud Platform (GCP)

You can only register existing CVS subscriptions with NetApp Service Engine; to create a new subscription, create the CVS subscription in the normal way and then register it with the NetApp Service Engine using your subscription credentials.

This section describes how to manage cloud services



Managing cloud services requires Customer Admin access.

You can:

- View a list of cloud services
- Add a cloud service
- Modify cloud service details
- Delete a cloud service

### View a list of cloud services

The Cloud Services list displays a list of all the cloud services in the selected tenancy.

To view the list, select **Cloud Services** > **Cloud Services** from the menu.

The list displays simple information about each cloud service.

The action icons next to each cloud service allow you to modify or delete the cloud service.

### Add a cloud service

This section describes how to add a cloud service.

NetApp Service Engine supports Azure NetApp Files.

#### Before you begin

You need the information about the cloud services, including credentials to connect to the service. The information varies with the cloud service type.

## Steps

1. Select **Cloud Services** from the menu.
2. Click **Create**.
3. On the Create Cloud Service page, select the cloud service type and then complete the relevant information for that service type:

### Azure:

- a. Select the Subtenant.
  - b. Enter a name for the OCCM Working Environment that will be created for the service.
  - c. Enter the Azure Directory (tenant) ID, the Azure Client ID, Azure Client Secret and the Name of the cloud service.
4. Specify tags for the service if required.
  5. Click **Create**.

## Modify the cloud service details

Use this method to modify the details of a cloud service. You can:

- Modify the details for each service, as listed in the table below.
- Add or remove tags for the service.

Cloud Platform	You Can Modify:
Azure	Azure Client ID, Azure Client Secret, and name
Azure US Government	TBA
GCP	TBA
AWS	TBA

## Steps

1. Select **Cloud Services > Cloud Services** from the menu.
2. Locate the cloud service in the list and click the Edit icon.
3. On the Update Cloud Service dialog box, make any changes as required.
4. Click **Update**.

## Delete a cloud service

Use this method to delete a CVS subscription from the NetApp Service Engine web portal.

## Steps

1. Select **Cloud Services > Cloud Services** from the menu.
2. Locate the cloud service in the list and click the Delete icon.
3. In the Confirm Delete dialog box, enter the name of the cloud service to be deleted.
4. Click **Confirm**.

# Managing Azure NetApp Files

## Managing Azure NetApp accounts

This section describes how to manage Azure NetApp accounts:



Managing Azure NetApp accounts requires Customer Admin access.

In this section:

- View a list of azure NetApp accounts
- Add an Azure NetApp account
- Modify Azure NetApp account details
- Delete an Azure NetApp account

### View a list of Azure NetApp accounts

The Azure NetApp Accounts list displays a list of all the Azure NetApp accounts in the tenancies that the logged-in user has access to. To view the list, select **ADMINISTRATION > Azure NetApp Accounts** from the menu.

The list displays simple information about each Azure NetApp account. The action icons next to each Azure NetApp account allow you to modify or delete the Azure NetApp account.

### Add an Azure NetApp account

This section describes how to add an Azure NetApp account.

#### Before you begin

You will need:

- The subtenant to which the Azure NetApp Account belongs
- The ANF Instance
- The Azure location (region)
- The Azure Resource Group
- A name for the account

#### Steps

1. Select **ADMINISTRATION > Azure NetApp Accounts** from the menu.
2. Click **Create**.
3. In the Create Azure NetApp Account dialog box, specify the subtenant, the Azure location (region), the Azure resource group, and a name for the Azure NetApp account.
4. If needed, add tags to the account.
5. Click **Create**. When created successfully, the account state will be Succeeded (can be viewed in the Azure NetApp Accounts list).

## Modify Azure NetApp account tags

Use this method to modify tags associated with an Azure NetApp account.

### Steps

1. Select **ADMINISTRATION > Azure NetApp Accounts** from the menu.
2. Locate the Azure NetApp Account in the list and click the edit icon.
3. On the Manage Azure NetApp Account dialog box, add, remove, or edit tags as required.
4. Click **Update**.

## Delete an Azure NetApp account

Use this method to delete an Azure NetApp Account.

### Steps

1. Select **ADMINISTRATION > Azure NetApp Accounts** from the menu.
2. Locate the Azure NetApp account in the list and click the delete icon.
3. In the Confirm Delete dialog box, enter the name of the Azure NetApp account to be deleted.
4. Click **Confirm**.

## Managing Azure capacity pools

This section describes how to manage Azure capacity pools:



Managing Azure capacity pools requires Customer Admin access.

This section describes how to perform the following tasks:

- View a list of Azure capacity pools
- Add an Azure capacity pool
- Modify Azure capacity pool details
- Delete an Azure capacity pool

### View a List of Azure capacity pools

The Azure capacity pools list displays a list of capacity pools for a specified subtenant and location. To view the list, select **FILE SERVICES > Azure Capacity Pools** from the menu.

The list displays simple information about each Azure capacity pool. The action icons next to each Azure capacity pool allow you to modify or delete the Azure capacity pool.

### Add an Azure capacity pool

This section describes how to add an Azure capacity pool.

### Before you begin

You will need:

- The subtenant to which the capacity belongs

- The ANF account
- The service level
- A name for the capacity pool
- The size of the pool

### Steps

1. Select **FILE SERVICES > Azure Capacity Pools** from the menu.
2. Click **Create**.
3. In the Create Azure Capacity Pool dialog box, specify the subtenant, the ANF account, the service level, the name and the size.
4. Add tags to the capacity pool if required.
5. Click **Create**. When the capacity pool is created the state changes to *Succeeded* (can be viewed in the Azure Capacity Pools list).

### Modify Azure capacity pool details

Use this method to modify the details of an Azure capacity pool. You can modify the service level the size of the pool, and you can add or remove tags.

### Steps

1. Select **FILE SERVICES > Azure Capacity Pools** from the menu.
2. From the list, locate the Azure capacity pool and click the edit icon.
3. In the Manage Azure Capacity Pool dialog box, make any changes as required.
4. Click **Update**.

### Delete an Azure capacity pool

Use this method to delete an Azure capacity pool.

### Steps

1. Select **FILE SERVICES > Azure Capacity Pools** from the menu.
2. From the list, locate the Azure capacity pool and click the delete icon.
3. In the Confirm Delete dialog box, enter the name of the Azure capacity pool to be deleted.
4. Click **Confirm**.

## Managing Azure volumes

This section describes how to manage Azure volumes.



Managing Azure Volumes requires Customer Admin access.

This section describes how to perform the following tasks:

- View a list of Azure volumes.
- Add an Azure volume.
- Modify Azure volume details.

- Delete an Azure volume.

### View a list of Azure volumes

The Azure Volumes list displays a list of Azure volumes pools for a specified subtenant and location. To view the list, select **FILE SERVICES > Azure Volumes** from the menu.

The list displays simple information about each Azure volume. The action icons next to each Azure volume allow you to modify or delete the Azure volume.

### Add an Azure volume

This section describes how to add an Azure volume.

#### Before you begin

You will need:

- The subtenant to which the Azure volume belongs
- The ANF Account
- Azure Virtual Network (VNet) and Subnet
- The capacity pool to house the volume
- A name for the volume
- The file path
- The quota (size) of the volume

#### Steps

1. Select **FILE SERVICES > Azure Volumes** from the menu.
2. Click **Create**.
3. In the Create Azure Volume dialog box, specify the subtenant, the ANF account, the VNet, the subnet, the capacity pool, the name of the volume, the file path and the quota. Ensure that you enter a unique file path for a successful volume creation.
4. If required, add tags to the volume.
5. Click **Create**. When an Azure volume is created, the state of the volume changes to `Succeeded` (can be viewed in the Azure Volumes list).

#### Modify Azure volume details

Use this method to modify an Azure Volume's details. You can modify the file path and quota, and add or remove tags.

#### Steps

1. Select **FILE SERVICES > Azure Volumes** from the menu.
2. From the list, locate the Azure volume and click the edit icon.
3. In the Manage Azure Volume dialog box, make the required changes. If you are modifying the file path or quota, ensure that the file path is unique and that the quota does not exceed the available quota in the pool.
4. Click **Update**.



## Delete an Azure volume

Use this method to delete an Azure volume.

### Steps

1. Select **FILE SERVICES > Azure Volumes** from the menu.
2. Locate the Azure volume in the list and click the delete icon.
3. In the Confirm Delete dialog box, enter the name of the Azure volume to be deleted.
4. Click **Confirm**.

## Managing Cloud Volumes Service for GCP

Subscriptions to Cloud Volumes Service for Google Cloud Platform (GCP) are associated with specific subtenants under a tenant. A subtenant is subscribed to a single Google Cloud service. You can create and manage cloud services (Google Cloud instances) for your tenants and subtenants and provision storage on Google Cloud based on the tenancies. The Cloud Volumes Service accounts of the tenants and subtenants should be set up before you can manage Google Cloud instances through NetApp Service Engine. For information about Cloud Volumes Service on GCP, see [Learn about Cloud Volumes Service for Google Cloud](#).



The Cloud Volumes Service accounts for the tenants and subtenants should already be configured for GCP. Contact support for the service account details. You need customer administrator access to manage Google Cloud Volumes.

## Managing your cloud services on GCP

You can manage your cloud services on Google Cloud, from the **CLOUD SERVICES** menu on the left navigation pane. The Cloud Services page displays all the cloud services for all subtenants of a selected tenant. You can view, modify, and delete the cloud services from this page. You can also add a new service by following these steps.

### Before you begin

You need to ensure that:

- The subtenant is subscribed to the Google Cloud service.
- You have the JSON file for the subscriber's service account and you are aware of the GCP project number that is associated with the Google Cloud instance.
- To ensure that Cloud Volumes Service for GCP is already configured on Cloud Manager by your support team. For more information, see [Set up Cloud Volumes Service for Google Cloud](#).

### Steps

1. Select **CLOUD SERVICES** from the menu.
2. Click **Create**, and then click **Google Cloud**.
3. On the Create Cloud Service page for Google Cloud, select the subtenant for which you want to create the service, and add a name and the GCP project number.
4. In the Google Cloud Credentials section, upload the JSON file with the credentials for the service account.

5. If required, add tags to the service.
6. Click **Create**. When created, the service state changes to `Succeeded` on the Cloud Services page.

## Managing volumes on GCP

Before managing cloud volumes on GCP, the Cloud Volumes Service account for the tenant should be created and the account should be subscribed to cloud volumes. Contact support for ensuring that these steps have been complete.

You can manage the volumes for a subtenant on GCP from **FILE SERVICES > GCP Volumes** on the left navigation pane. The GCP Volumes page lists the existing cloud volumes created on GCP for the selected subtenant and corresponding region. You can view, modify, and delete the existing volumes from this page. You can also provision a new cloud volume by following these steps.

### Steps

1. Select **FILE SERVICES > GCP Volumes** from the menu.
2. Click **Create**. The Create GCP Volume page is displayed.
3. Select the subtenant for which you want to create the volume.
4. Select the region and network. The list is filtered based on the Cloud Volumes Service account for the subtenant on GCP.
5. Add a name for the volume.
6. Select the appropriate Service Level.
7. Enter the file path of the volume as the creation token.
8. Assign the volume quota in bytes.
9. If required, add tags for the volume.
10. Click **Create**. When created, the volume state changes to `Succeeded` on the GCP Volumes page.

Watch the following video to learn how to create a volume on GCP through Cloud Volumes Service and NetApp Service Engine:

# Creating a Volume on the GCP Through CVS and NetApp Keystone User Interface

NetApp Keystone



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