



# Work with object storage

## NetApp Keystone

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# Table of Contents

- Work with object storage ..... 1
  - Overview ..... 1
  - View buckets ..... 1
  - Initialize object storage ..... 1
  - Create buckets ..... 2
  - View the object storage group and users ..... 3
  - Create an object storage group ..... 3
  - Modify an object storage group ..... 4
  - Delete an object storage group ..... 4
  - Create Object Storage User ..... 4
  - Modify an object storage user ..... 5
  - Create an S3 key for a user ..... 5
  - Delete an S3 key for a user ..... 6

# Work with object storage

## Overview

Object storage requires an object storage service subscription. When an object storage service is available as part of the subscription, the storage must be initialized before it can be used.

With object storage, objects are stored in S3 buckets. Access to the S3 buckets is managed through permissions set on object storage groups. Object storage users are granted membership to one or more object storage groups, inheriting permissions from the group membership.

Each object storage user has associated S3 keys that allow access to the object storage.



Access to the object storage is through an S3 compatible browser.

This section describes how to manage your object storage, including how to:

- Initialize object storage.
- Create S3 buckets.

It is not possible to delete S3 buckets through the NetApp Service Engine web portal; delete these buckets using an S3 compatible browser.

- Create and manage object storage groups.
- Create and manage object storage users, including creating S3 keys.

## View buckets

The Buckets list displays the existing buckets for a selected Subtenant.

1. To view the list, select Object Storage > Buckets from the menu.
2. Use the Subtenant drop-down menu to select another subtenant if required.

Simple information for each bucket is displayed, such as:

- Name
- Date created
- Usage

For more information about how to use the features of a list, see [List view](#).

## Initialize object storage

Object storage must be initialized before it can be used.


If you attempt to create a storage bucket on object storage that has not yet been initialized, you will see the prompt to initialize the storage. The following section describes the process.

## Steps

1. View the [Buckets list](#) and select the Subtenant under which to create the bucket.
2. If the object storage has not been initialized for this subtenant, the following message is displayed:

# Buckets

Subtenant  
MySubtenant


 Object Storage for MySubtenant is not currently enabled. Please initialise the service using the button below.

**Initialise Object Storage**


3. Click **Initialize Object Storage**.
4. In the Initialize Object Storage dialog box, select the quota for the object storage and click **Create**.

### Initialise Object Storage

**Quota Usage**

 2/5 TiB

**Quota**

   GiB  TiB

5. Check the jobs list to make sure the object storage is successfully initialized.

## Create buckets

Buckets are created under a subtenant.

## Steps

1. View the [Buckets list](#) and select the subtenant under which to create the bucket.
2. Click **Create Bucket**.

3. In the Create Bucket dialog box, enter the name of the new bucket and click **Create**. This creates a job to create the bucket.

### After you finish

Create bucket is run as an asynchronous job. You can:

- Check the status of the job in the jobs list.
- After the job is finished, check the status of the server in the Buckets list.

## View the object storage group and users

The User Management list displays the object storage users and groups for a specified subtenant.

### Steps

1. From the menu, select Object Storage > Users.
2. Use the Subtenant drop-down menu to select another subtenant if required.
3. Use the Users and Groups links to toggle the display between users and groups.
  - The Users list displays the object storage users defined for the selected subtenant. For each user, it displays their name and the object storage groups to which they belong.
  - The Groups list displays the object storage groups defined for the selected subtenant. For each group, it displays the group name and S3 policy.

For more information about how to use the features of a list, see [List view](#).

## Create an object storage group

Use this method to create a new object storage group.

### Steps

1. View the [Users List](#).
2. Make sure the correct subtenant is selected and the display is showing groups (not users).
3. Click **Create Group**.
4. In the Create Group dialog box, enter the group name.
5. Select the S3 policy from the list.
6. Click **Create**. This creates a job to create the group with the specified settings.

### After you finish

Create object storage group is run as an asynchronous job. You can check the status of the job in the jobs list. For information about tracking jobs, see [here](#).

# Modify an object storage group

Use this method to modify details of an object storage group such as the group name and S3 policy.

## Steps

1. View the [Groups List](#).
2. Make sure the correct subtenant is selected and the display is showing groups (not users).
3. Locate the group in the list and click the Edit icon for that group.

For details about working with items in lists, see [List view actions](#).

4. In the Edit Group dialog box, enter the user name.
5. Select the S3 policy that applies to the modified group.
6. Click **Create**. This creates a job to modify the group with the specified settings.

# Delete an object storage group

Use this method to delete an Object Storage group.

## Steps

1. View [the Groups List](#).
2. Make sure the correct subtenant is selected and the display is showing groups (not users).
3. Locate the group in the list and click the Delete icon for that group.
4. To confirm the delete action, click **Confirm**. The object storage group is removed from the list.

# Create Object Storage User

## Before you begin

Because an object storage user belongs to an object storage group, the object storage group must exist before you can create the user.

## Steps

1. View the [Users List](#).
2. Make sure the correct subtenant is selected and the display is showing users (not groups).
3. Click **Create User**.
4. In the Create User dialog box:
  - a. Enter the user name.
  - b. Select the group to which the member belongs.
5. Click **Create**. This creates a job to create the user with the specified settings.

## After you finish

Create user is run as an asynchronous job. You can:

- Check the status of the job in the jobs list.
- After the job is finished, check the status of the share in the Users list.

## Modify an object storage user

Use this method to modify details of an object storage user such as the user name and the group to which they are assigned.

### Steps

1. View the [Users List](#).
2. Make sure the correct subtenant is selected and the display is showing Users (not Groups).
3. Locate the user in the list and click the Edit icon for that group.

For details about working with items in lists, see [List view actions](#).

4. In the Edit User dialog box:
  - a. Enter the user name.
  - b. Select the object storage group to which the user belongs.
5. Click **Update**. This creates a job to create the user with the specified settings.

## Create an S3 key for a user

Use this method to create an S3 key for a user.

Make sure that you capture the key immediately after it is created. There is no way to retrieve key details after it has been created.

### Steps

1. View the [Users List](#).
2. Make sure the correct subtenant is selected and the display is showing users (not groups).
3. Locate the user in the list and click the Key icon for that group.

For details about working with items in lists, see [List view actions](#).
4. The Manage S3 Keys dialog box displays showing the list of keys for the user.
5. If there are no existing keys for the user, click **Create S3 Key** to view the fields to create a key.
6. If you want the key to expire, specify the expiry date and expiry time in UTC. Otherwise, leave the default values for these fields.
7. To create the key, click the checkmark. The S3 Key Details dialog box is displayed showing the access key and secret key.
8. Copy both the access and secret key in preparation of advising the user of the details.

Make sure that you capture the key details before closing the S3 Key Details dialog box. After closed, the key details will be obscured and you will not be able to retrieve them.

9. Click **Close**.
10. Click **Close** again to close the Manage S3 Keys dialog.

## Delete an S3 key for a user

Use this method to delete an S3 key for a user.

### Steps

1. View the [Users List](#).
2. Make sure the correct subtenant is selected and the display is showing Users (not Groups).
3. Locate the user in the list and click the Key icon for that group.

For details about working with items in lists, see [List view actions](#).

4. The Manage S3 Keys dialog displays showing the list of keys for the user.
5. In the list of keys, locate the key to delete and click the Delete icon.
6. Click **Confirm** to confirm the delete action. The key is removed from the list of user keys.
7. Click **Close** to close the Manage S3 Keys dialog box.



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