Hands-on tutorials

Store and Retrieve a File with Amazon S3



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Store and Retrieve a File with Amazon S3: Hands-on tutorials

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Store and Retrieve a File with Amazon S3

Cost to complete	Free Tier
	AWS Free Tier includes 5GB storage, 20,000 Get Requests, and 2,000 Put Requests with Amazon S3.
	View AWS Free Tier Details »
Services used	Amazon S3
Requires	Storing Your Files with AWS Requires an Account
	Create a free account in minutes
Last updated	June 1, 2022

Overview

This step-by-step how-to guide will help you store your files in the cloud using Amazon Simple Storage Service (Amazon S3). Amazon S3 is a service that enables you to store your data (referred to as **objects**) at massive scale. In this guide, you will create an Amazon S3 bucket (a container for data stored in Amazon S3), upload a file, retrieve the file, and delete the file.

The resources you create in this guide are AWS Free Tier eligible.

Implementation

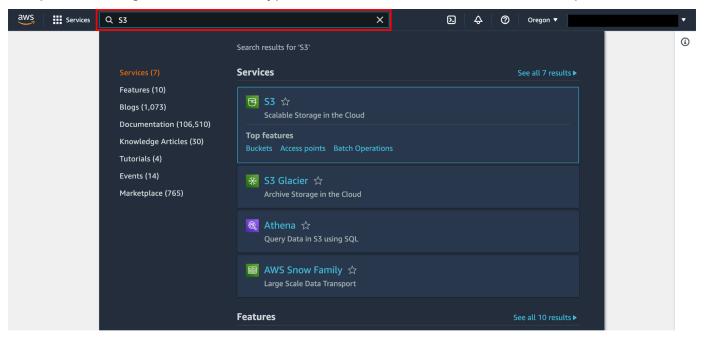
Step 1: Upload a file

In this step, you will upload a file to your new Amazon S3 bucket.

1. Open the Amazon S3 console

Overview 1

<u>Click on</u> the AWS Management Console home to open the console in a new browser window, so you can keep this step-by-step guide open. When the screen loads, enter your user name and password to get started. Then type **S3** in the search bar and select S3 to open the console.

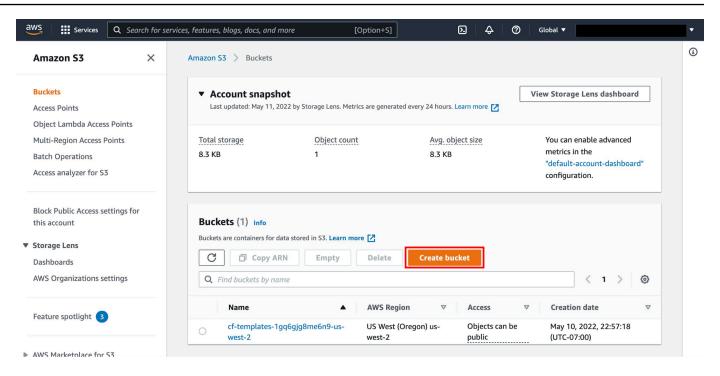


2. Create S3 bucket

In the S3 dashboard, click Create Bucket.

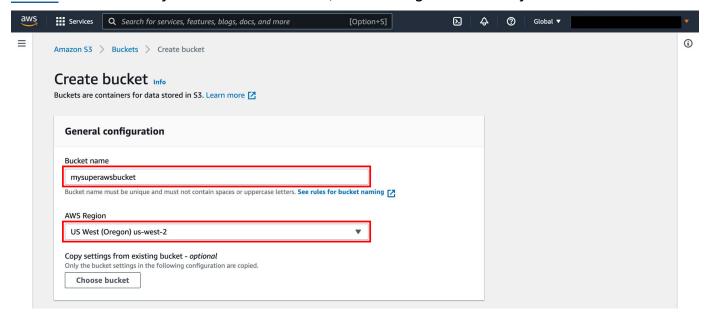
If this is the first time you have created a bucket, you will see a screen that looks like the image pictured here.

If you have already created S3 buckets, your S3 dashboard will list all the buckets you have created.



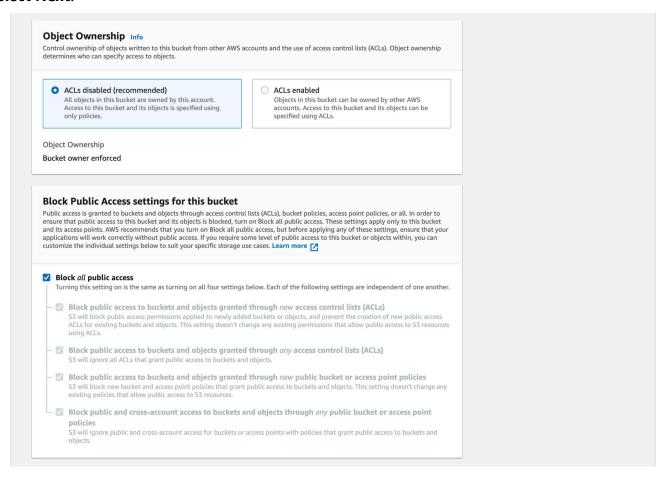
3. Enter bucket name

Enter a bucket name. Bucket names must be unique across all existing bucket names in Amazon S3. For this guide, we have used **mysuperawsbucket**, but you should choose a name that is relevant and unique to you. There are a number of other <u>restrictions on S3 bucket</u> names as well. Once you've selected a name, select a Region to create your bucket in.



4. Configure permissions

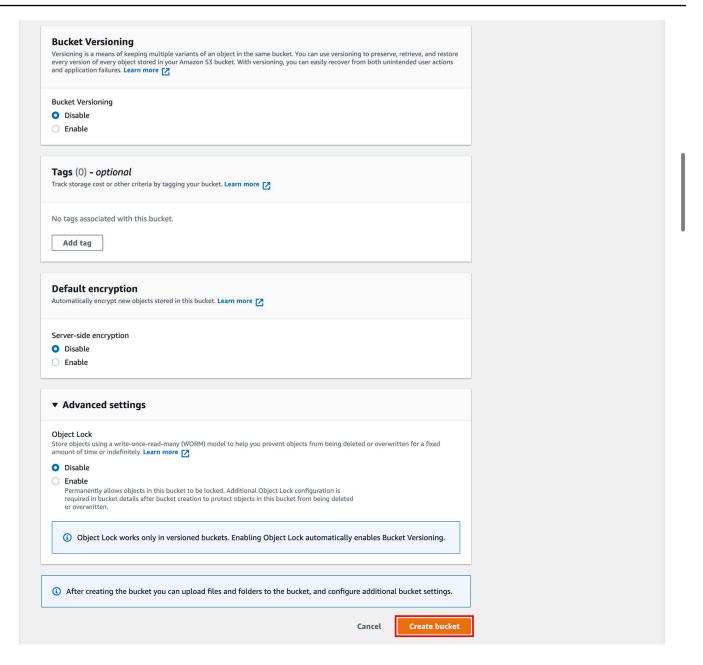
You have the ability to set permission settings for your S3 bucket. Leave the default values and select **Next**.



5. Review and create

You have many useful options for your S3 bucket including <u>Versioning</u>, <u>Tags</u>, <u>Default Encryption</u>, and <u>Object Lock</u>. We won't enable them for this tutorial.

Select Create bucket.

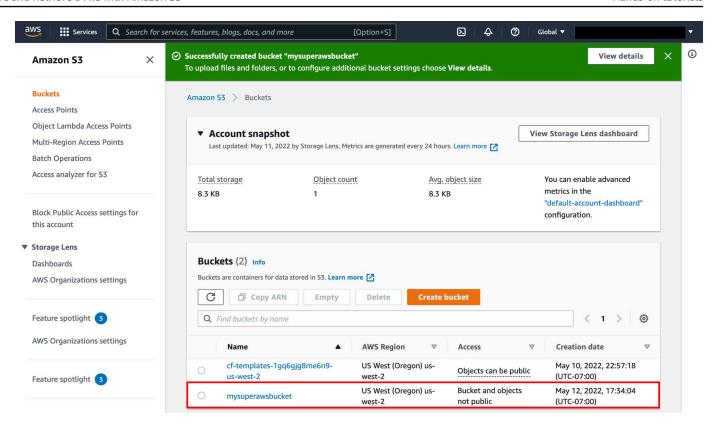


Step 2: Create an S3 bucket

In this step, you will create an Amazon S3 bucket. A bucket is the container you store your files in.

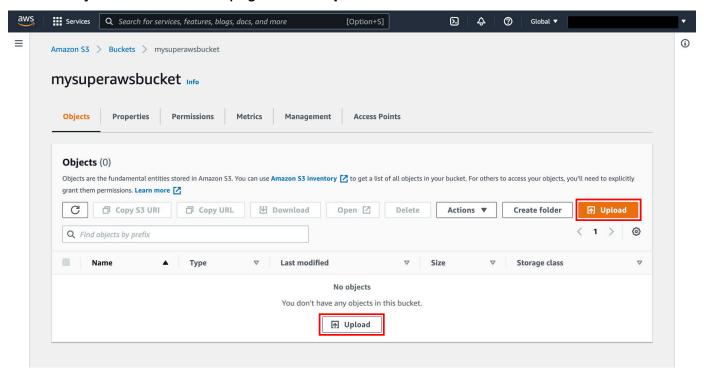
1. Open your bucket

You will see your new bucket in the S3 console. Click on your bucket's name to navigate to the bucket.



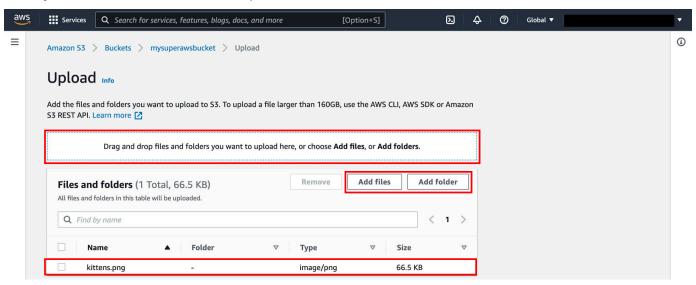
2. Choose Upload

You are in your bucket's home page. Select Upload.



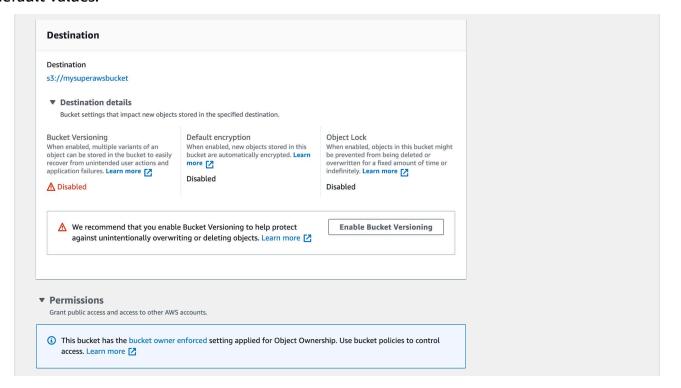
3. Add files

To select a file to upload, either click **Add files** or **Add folder** and select sample file(s) that you would like to store or **Drag and Drop** a file on the upload box. Your file(s) will be displayed after you have selected file(s) to upload.



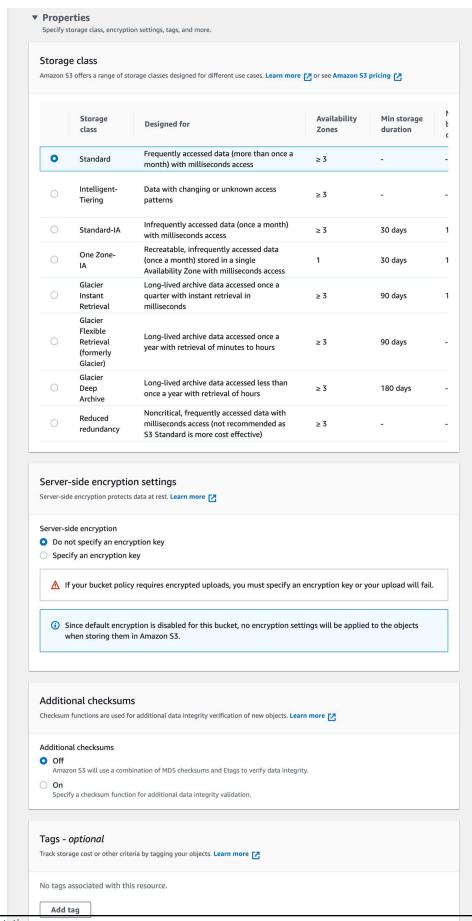
4. Set permissions

You have the ability to review destination details and permissions. For this tutorial, leave the default values.



5. Configure properties

You have the ability to set property settings like storage class, server-side encryption, additional checksums, tags, and metadata with your object. Leave the default values and select **Upload**.

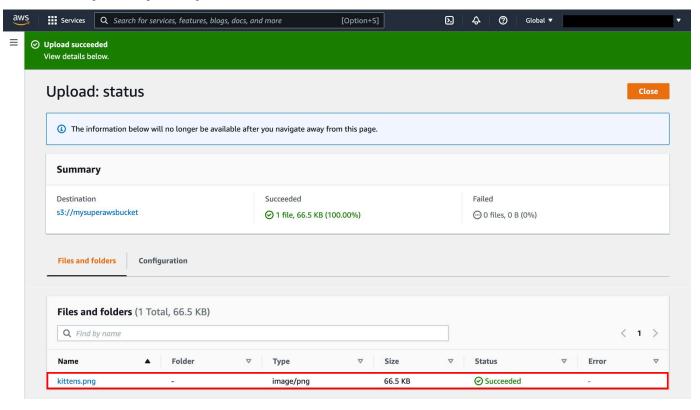


Implementation

Metadata is optional information provided as a name-value (key-value) pair. Learn more

6. Confirm upload

You will see your object in your bucket's home screen.

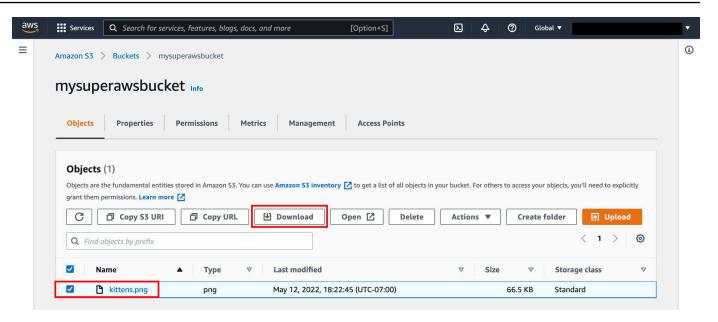


Step 3: Retrieve the object

In this step, you will download the file from your Amazon S3 bucket.

Download the object

Select the checkbox next to the file you would like to download, then select **Download**.

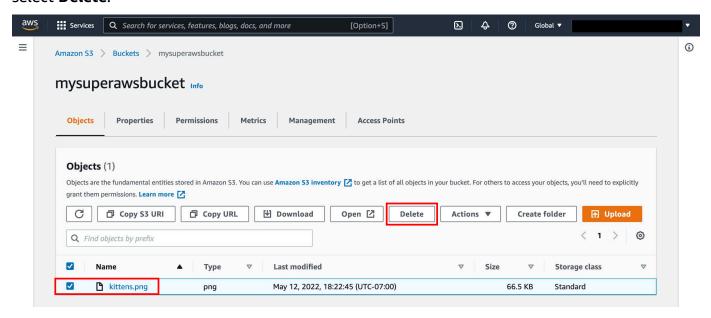


(Optional) Clean up resources

You can easily delete your object and bucket from the Amazon S3 console. In fact, it is a best practice to delete resources you are no longer using so you don't keep getting charged for them.

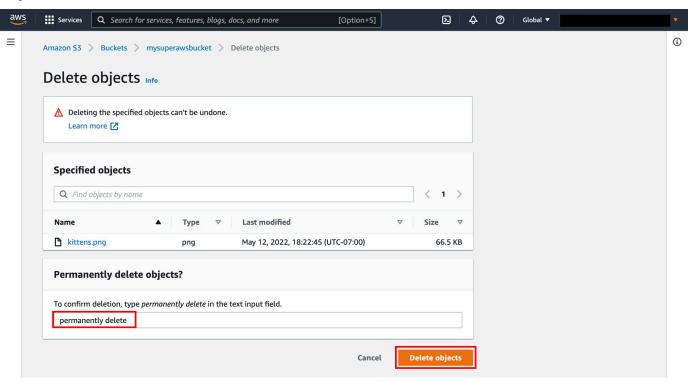
1. Delete the object

You will first delete your object. Select the checkbox next to the file you want to delete and select **Delete**.



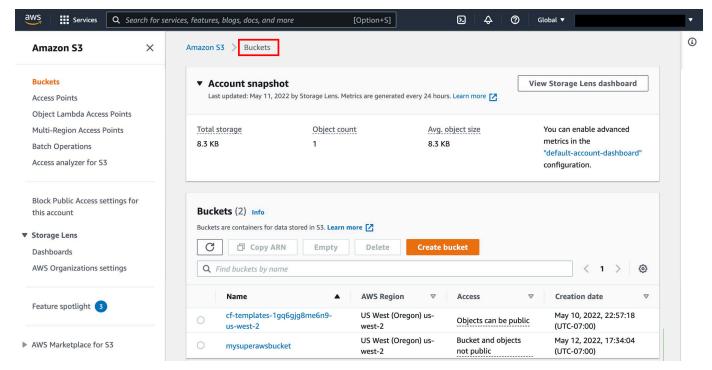
2. Confirm deletion

Review and enter **permanently delete** in the text input field to confirm deletion. Click **Delete objects**.



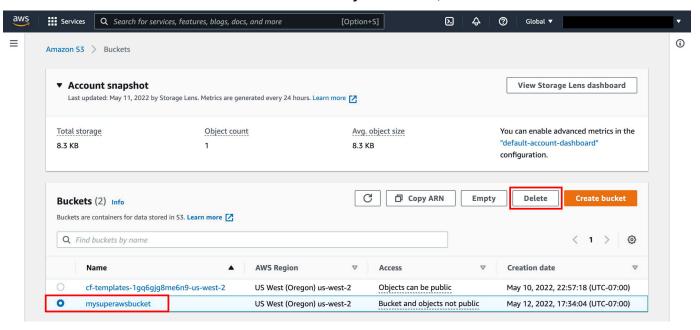
3. Navigate to your bucket

Click on Amazon S3 > Buckets to view all your buckets in the region.



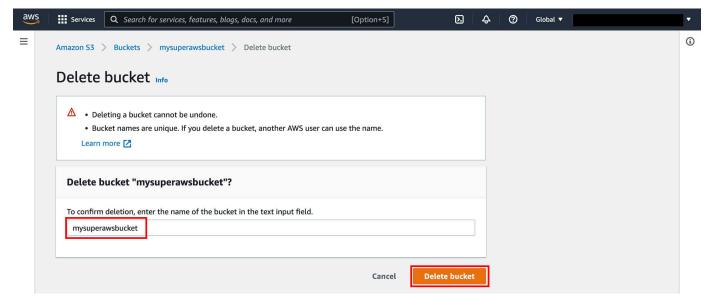
4. Delete the bucket

Select the radio button to the left of the bucket you created, then choose Delete.



5. Confirm deletion

To confirm deletion, enter the name of the bucket in the text input field and choose **Delete** bucket.



Congratulations!

You have backed up your first file to the cloud by creating an Amazon S3 bucket and uploading your file as an S3 object. Amazon S3 is designed for 99.999999999% durability to help ensure that your data is always available when you want it. You've also learned how to retrieve your backed up file and how to delete the file and bucket.

Congratulations! 14