



# Placement Empowerment Program Cloud Computing and DevOps Centre

Create a storage bucket on your cloud platform and upload/download files. Configure access permissions for the bucket.

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#### **Introduction and Overview**

In this (PoC), we will explore AWS S3 (Simple Storage Service) to understand its functionality as a reliable cloud storage solution. The task involves creating an S3 bucket, uploading and downloading files, and configuring access permissions to manage who can access the stored data. This PoC demonstrates S3's versatility in securely storing and retrieving files, both publicly and privately. We will also set bucket policies to control access and test public URLs for hosted files. By completing this task, we gain hands-on experience with S3 and its key features, such as scalability, security, and cost-efficiency.

#### **Objective**

The goal of this project is to:

- 1. Understand AWS S3 Basics: Learn how to create, configure, and manage an S3 bucket for cloud storage.
- 2. File Operations: Gain hands-on experience in uploading, downloading, and managing files within the S3 bucket.
- 3. Access Control: Configure bucket policies and permissions to manage secure and public access to stored data.

#### **Importance of Storage Bucket(S3)**

**Foundation for Advanced Use Cases**: Learning how to handle S3 storage is a stepping stone for mastering cloud computing and deploying large-scale applications.

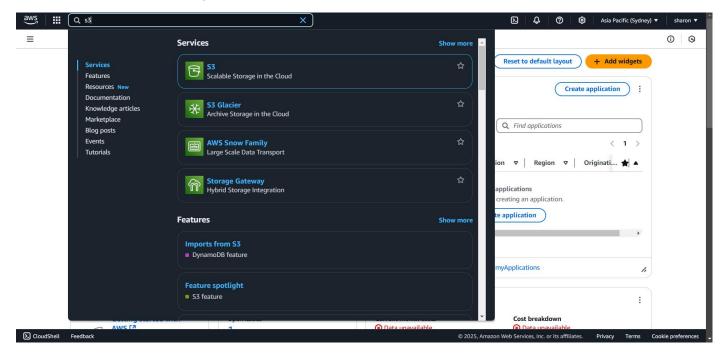
**Hands-On Learning of Cloud Storage**: AWS S3 provides a practical platform to learn cloud storage concepts, enabling users to create buckets, upload/download files, and manage data at scale.

**Data Security and Access Control**: By configuring bucket policies and permissions, users can secure their data and manage who can access it.

### **Step-by-Step Overview**

# Step1:

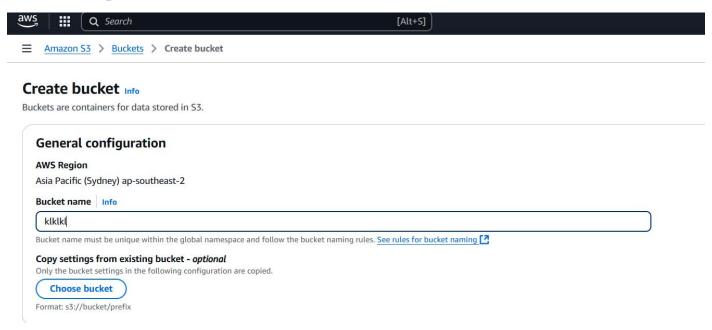
Go to the AWS Management Console, Search for and click on S3



# Step 2:

Click the "Create bucket" button.

Enter a unique bucket name



### Step 3:

Leave "Block all public access" enabled for now (you can modify it later).

Edit Block public access (bucket settings) Info

cket settings) I objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your \$3 buckets and objects is blocked, tu
rojects through access control istis (ACLS), bucket pointies, access point pointies, or act, to the foreign that point access to any one 35 bucket, and age apply only to this bucket and its access points. ANS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your it public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use
e as turning on all four settings below. Each of the following settings are independent of one another.
ckets and objects granted through <i>new</i> access control lists (ACLs)
w public access to S3 resources using ACLs.
ckets and objects granted through <i>any</i> access control lists (ACLs) ant public access to buckets and objects.
Annual Programme and the control of
ckets and objects granted through new public bucket or access point policies access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to 53 resources.
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### Step 4:

Click "Create bucket".

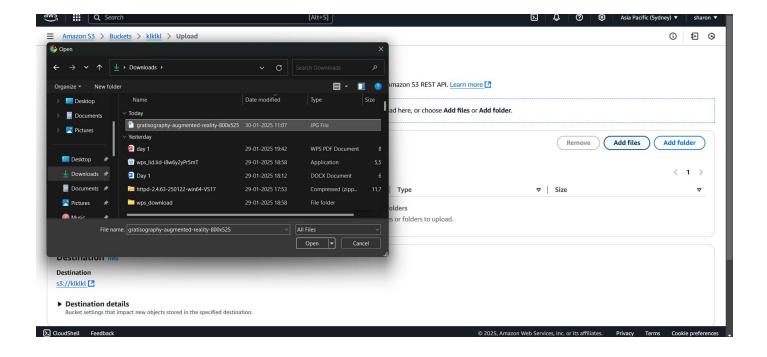
# Step 5:

Open your newly created bucket from the S3 console.

### Step 6:

Click "Upload" and then,

Drag and drop your file(s) or use the Add files button. Click Upload to complete.

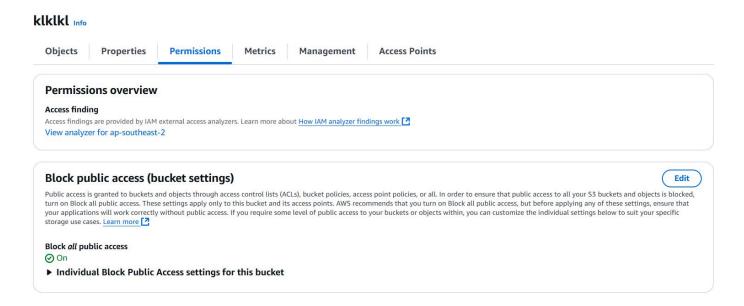




# Step 7:

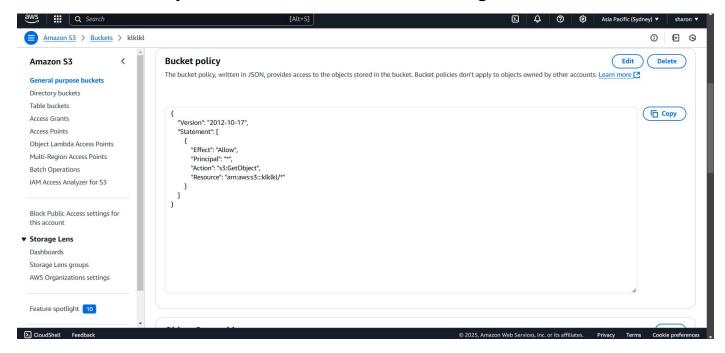
Open your bucket and navigate to the "Permissions" tab.

Under Block public access, click Edit and uncheck "Block all public access". Confirm by typing "confirm" and save.



# Step 8:

In the "Permissions" tab, scroll to Bucket Policy and click Edit.Replace your-bucket-name with your actual bucket name.Save changes.



# Step10:

Use the S3 bucket URL or public file URL to test access permissions.