Placement Empowerment Program

Cloud Computing and DevOps Centre

Use Cloud Storage

TASK:- 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.

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.

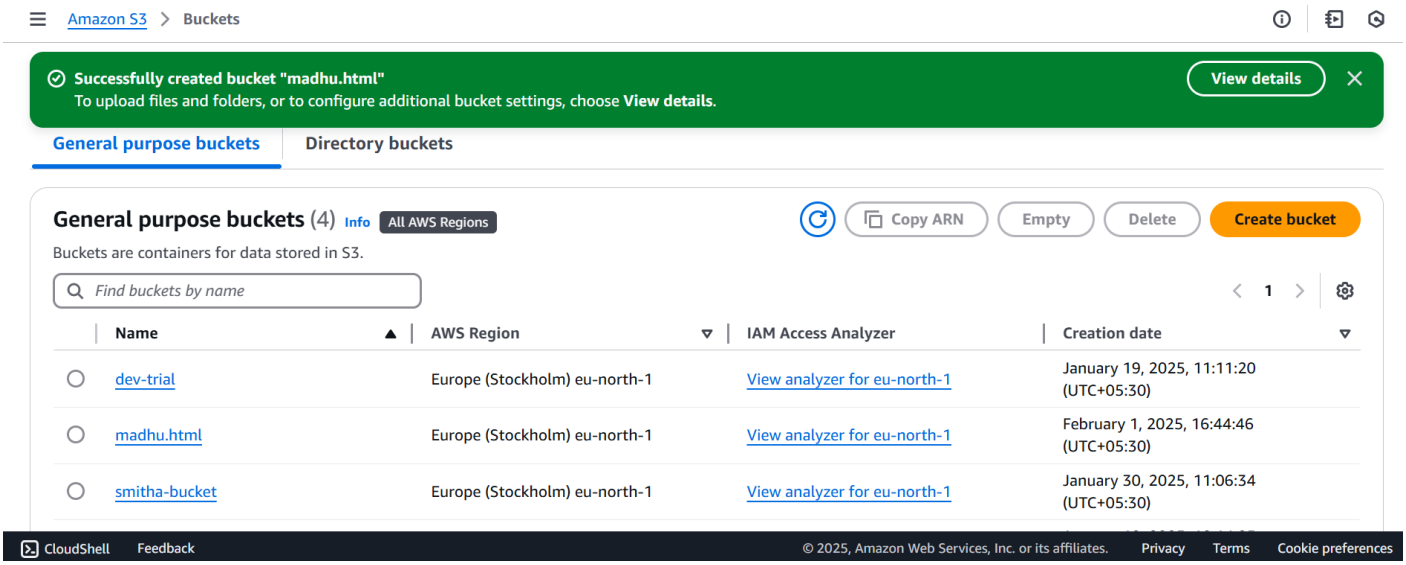
Data Security and Access Control: By configuring bucket policies and permissions, users can secure their data and manage who can access it.

Step-by-Step Overview

Step1:

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

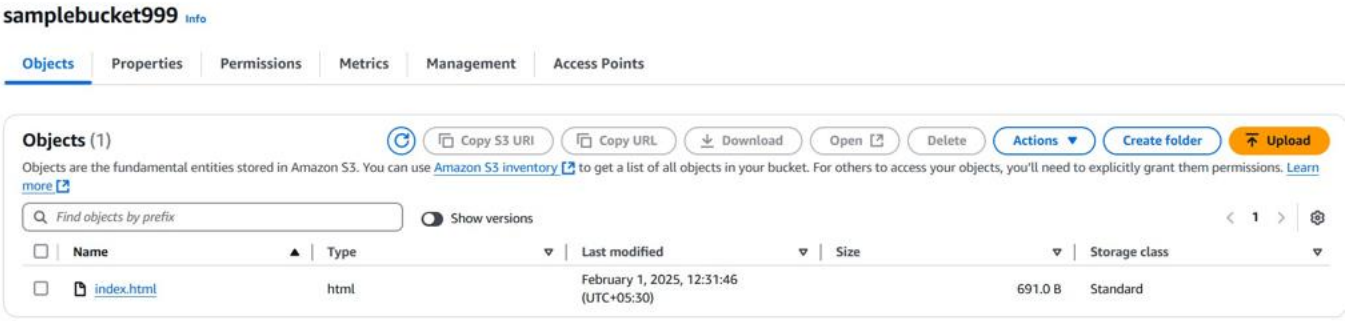
Click the "Create bucket" button.



Step 2 :

Open your newly created bucket from the S3 console.

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



Step 3 :

Go to the uploaded file in your bucket. Click the file name to open its details. Select Download to save the file locally.

Upload: status

Close

After you navigate away from this page, the following information is no longer available.

Summary

Destination	Succeeded	Failed
s3://madhu.html	1 file, 776.0 B (100.00%)	0 files, 0 B (0%)

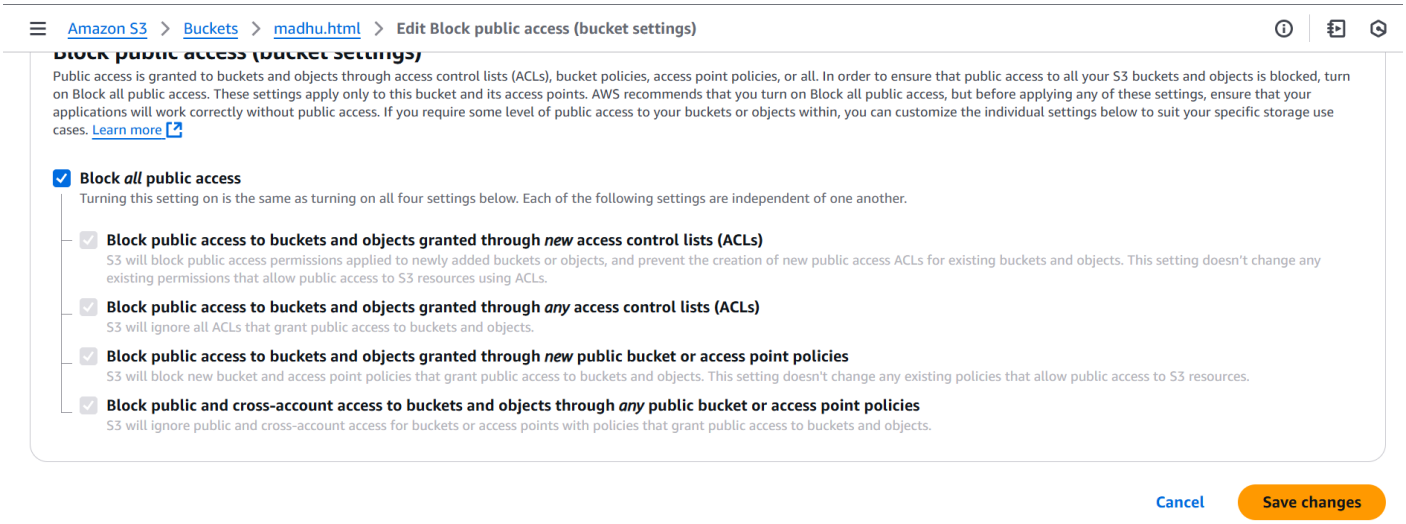
Files and folders | Configuration

Files and folders (1 total, 776.0 B)

Find by name

1

Step 4 :

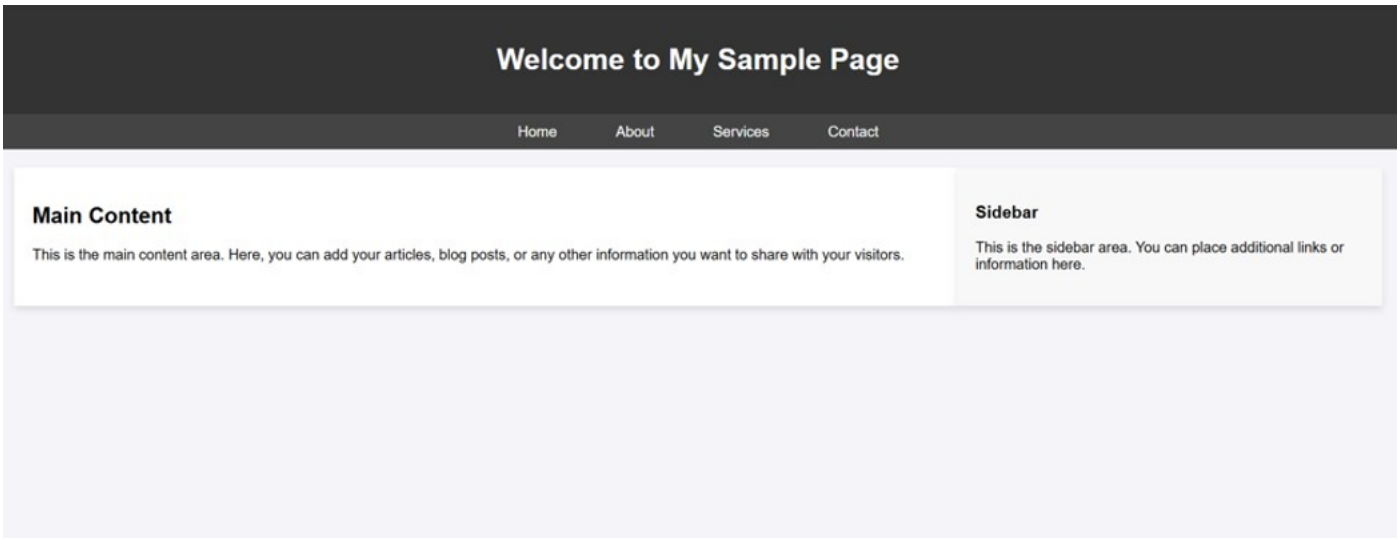


Under Block public access, click Edit and uncheck "Block all public access". Confirm by typing "confirm" and save.

Step 5 :

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

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::your-bucket-name/*"
    }
  ]
}
```



Step6:

Outcome:-

By completing this POC, you will:

1. Successfully create an AWS S3 bucket and perform file upload/download operations.
2. Configure and validate access permissions, ensuring secure or public access as needed.
3. Gain a solid understanding of S3's functionality, enabling its use in real-world cloud-based applications.