

CLOUD STORAGE

OBJECTIVE:

In this POC, we will create a storage bucket on your cloud platform and upload/download files and configure access permissions for the bucket.

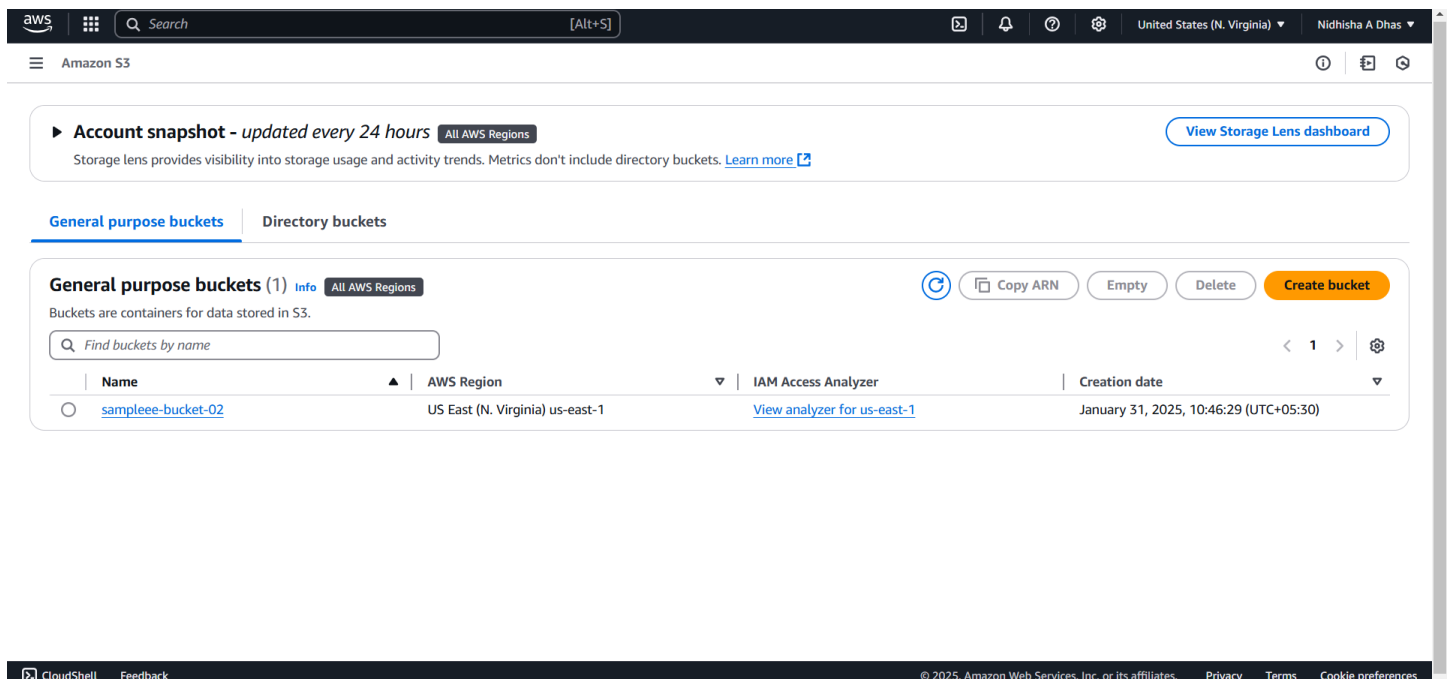
SIMPLE STORAGE SERVICE(S3):

Amazon Simple Storage Service (S3) is a scalable, object-based cloud storage solution provided by AWS. It enables users to store, retrieve, and manage data with high durability, security, and availability.

STEP BY STEP OVERVIEW:

Step 1: CREATING A S3 'BUCKET'

- Login into your AWS management console and navigate into S3 service.
- Click 'Create Bucket' and specify your bucket name.
- Allow the public access and create the bucket.



Step 2: UPLOADING FILES IN THE BUCKET

- You will see an upload option when you go into the bucket you have just created.
- Click on it and upload any file in it.

The screenshot shows the AWS console interface. At the top, there's a navigation bar with the AWS logo, a search bar, and user information. Below the navigation bar, a green banner indicates "Upload succeeded" with a message: "For more information, see the Files and folders table." Below this, the "Upload: status" section shows a summary of the upload. The destination is "s3://sampleee-bucket-02". The status is "Succeeded" with a green checkmark, indicating "1 file, 549.7 KB (100.00%)". The "Failed" status shows "0 files, 0 B (0%)". Below the summary, there are tabs for "Files and folders" and "Configuration". The "Files and folders" tab is active, showing a table with one file: "AUTOMATE FILE COPYING WITH..." in the "Folder" column, "application/pdf" in the "Type" column, "549.7 KB" in the "Size" column, and "Succeeded" in the "Status" column. The bottom of the console shows a footer with "CloudShell", "Feedback", and copyright information.

The screenshot shows the AWS console interface for the "sampleee-bucket-02" bucket. The left sidebar shows the "Amazon S3" navigation menu with options like "General purpose buckets", "Directory buckets", "Table buckets", "Access Grants", "Access Points", "Object Lambda Access Points", "Multi-Region Access Points", "Batch Operations", "IAM Access Analyzer for S3", "Block Public Access settings for this account", "Storage Lens", "Dashboards", "Storage Lens groups", "AWS Organizations settings", and "Feature spotlight". The main content area shows the details for the "aws.png" object. The "Properties" tab is active, displaying the "Object overview" section. The "Owner" is "nidhishadhas". The "AWS Region" is "US East (N. Virginia) us-east-1". The "Last modified" date is "January 31, 2025, 10:54:22 (UTC+05:30)". The "Size" is "23.0 KB". The "Type" is "png". The "Key" is "aws.png". The "S3 URI" is "s3://sampleee-bucket-02/aws.png". The "Amazon Resource Name (ARN)" is "arn:aws:s3:::sampleee-bucket-02/aws.png". The "Entity tag (Etag)" is "8fe73b52e63fd6a8b87b776b09e35676". The "Object URL" is "https://sampleee-bucket-02.s3.us-east-1.amazonaws.com/aws.png". The "Object management overview" section is also visible at the bottom.

Step 3: CREATE BUCKET POLICY

To allow permissions to your S3 bucket, you must edit your bucket policy. For this,

- In the 'permission' tab, give your bucket policy and save the changes.

aws [Search] [Alt+S] United States (N. Virginia) Nidhisha A Dhas

Amazon S3 > Buckets > sampleee-bucket-02 > Edit bucket policy

arn:aws:s3::sampleee-bucket-02

Policy

```
1 {
2   "Version": "2012-10-17",
3   "Statement": [
4     {
5       "Effect": "Allow",
6       "Principal": "*",
7       "Action": "s3:GetObject",
8       "Resource": "arn:aws:s3::sampleee-bucket-02/*"
9     }
10  ]
11 }
```

Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

+ Add new statement

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Step 4: TEST THE PERMISSIONS

Use the S3 bucket 'URL' to test the access permissions.

aws [Search] [Alt+S] United States (N. Virginia) Nidhisha%20A%20Dhas

Amazon S3 > Buckets > sampleee-bucket-02 > aws.png

aws.png info

Copy S3 URI Download Open Object actions

Properties Permissions Versions

Object overview

Owner
nidhishadhas

AWS Region
US East (N. Virginia) us-east-1

Last modified
January 31, 2025, 10:54:22 (UTC+05:30)

Size
23.0 KB

Type
png

Key
aws.png

S3 URI
s3://sampleee-bucket-02/aws.png

Amazon Resource Name (ARN)
arn:aws:s3::sampleee-bucket-02/aws.png

Entity tag (Etag)
3fd6a8b87b776b09e35676

Object URL Copied
https://sampleee-bucket-02.s3.us-east-1.amazonaws.com/aws.png

Object management overview

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CONCLUSION:

Thus, in this POC, we have learnt:

- To create a S3 bucket and upload files in it.
- To allow permissions for public access.
- To edit the permissions and create a Bucket Policy.