# Learning AWS S3 with Basic Commands

A beginner's guide by Prikshit Marrhia

#### What is AWS S3?

Amazon S3 (Simple Storage Service) is a cloud storage service that lets you store and retrieve files easily. You can think of it as a giant online folder accessible from anywhere.

#### What I Learned

- How to configure AWS CLI with credentials.
- How to list buckets and files inside buckets.
- How to upload and download files using AWS CLI.
- How to create buckets and handle bucket naming errors.

#### **Step-by-Step Work Done**

#### 1. Configuring AWS CLI

Before using AWS CLI commands, you must configure it with your AWS account credentials.

bash

aws configure

You will be prompted to enter:

- AWS Access Key ID
- AWS Secret Access Key
- Default region (for example, ap-south-1)
- Default output format (e.g., JSON)

This setup allows the CLI to communicate with your AWS account securely.

#### 2. Checking AWS CLI Version

To verify the AWS CLI is installed correctly:

bash

- aws --version

It shows the version of AWS CLI and Python installed on your system.

#### 3. Listing S3 Buckets

To see all the buckets you have created:

- aws s3 ls

This lists all buckets with their creation date.

#### 4. Uploading Files to an S3 Bucket

To upload a file from your local machine to a bucket:

- aws s3 cp Workflow.png s3://prikshit-demo-bucket
- cp means copy.
- The first argument is the local file name.
- The second argument is the destination bucket URL.

If the file path is incorrect, you get an error saying the file does not exist.

#### 5. Downloading Files from an S3 Bucket

To download a file from S3 to your local system:

- aws s3 cp s3://prikshit-demo-bucket/Workflow.png C:\Users\Prikshit\Downloads\
- The first path is the file location in S3.
- The second path is the local folder where you want to save it.

#### 6. Creating a New S3 Bucket

To create a new bucket where you can store files:

- aws s3 mb s3://demo-bucket-prikshit-02
- mb means make bucket.
- Bucket names must be globally unique across AWS, so if the name is already taken, you get an error.

Try different bucket names until you find one available.

#### 7. Listing Files Inside a Bucket

To see what files or folders are inside a bucket:

- aws s3 ls s3://prikshit-demo-bucket
- Shows all files with their size and last modified date.
- Prefix PRE indicates folders.

### **Common Errors and Tips**

- \*\*BucketAlreadyExists\*\*: Bucket names must be unique globally.
- \*\*NoSuchBucket\*\*: Check spelling or if the bucket really exists.
- Always double-check file paths when uploading or downloading.
- Use proper permissions if access is denied.

## **Summary of Commands**

Purpose	Command
Check AWS CLI version	awsversion
Configure AWS CLI	aws configure
List all S3 buckets	aws s3 ls
Upload a file to the bucket	aws s3 cp local_file s3://bucket-name
Download a file from the bucket	aws s3 cp s3://bucket-name/file local_folder
Create a new S3 bucket	aws s3 mb s3://bucket-name
List files inside the bucket	aws s3 ls s3://bucket-name