

PROJECT TITLE:

CLOUD STORAGE SETUP

ON AWS

✓ Step 1: Created a bucket named “[my-cloud-project-bucket1](#)”

The screenshot shows the AWS S3 General purpose buckets page. At the top, there is a search bar labeled "Find buckets by name". Below it, a table lists one bucket: "my-cloud-project-bucket1" located in "Asia Pacific (Mumbai) ap-south-1". The table includes columns for Name, AWS Region, IAM Access Analyzer, and Creation date. The creation date is "April 20, 2025, 13:54:38 (UTC+05:30)". Action buttons at the top right include "Copy ARN", "Empty", "Delete", and "Create bucket".

✓ Step 2: Uploaded Files named “[netflix_titles.csv](#)”

The screenshot shows the AWS S3 my-cloud-project-bucket1 Objects page. It displays a single object named "netflix_titles.csv" which is a CSV file. The file was uploaded on April 20, 2025, at 13:56:21 (UTC+05:30). The file size is 3.2 MB and has a storage class of Standard. The page includes tabs for Objects, Properties, Permissions, Metrics, Management, and Access Points. Action buttons include "Copy S3 URI", "Copy URL", "Download", "Open", "Delete", "Actions", "Create folder", and "Upload". A message at the top says "Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)".

✓ Step 3: Configure Permissions

The screenshot shows the AWS S3 my-cloud-project-bucket1 Objects page. It displays the same "netflix_titles.csv" file. A context menu is open over the file, showing options like "Edit actions", "Rename object", "Edit storage class", "Edit server-side encryption", "Edit metadata", "Edit tags", and "Make public using ACL". A message in the background says "Successfully edited public access". The "Edit actions" menu is currently active.

The screenshot shows the AWS S3 my-cloud-project-bucket1 Objects page. A green banner at the top indicates "Successfully edited public access". Below it, a summary table shows the status of public access edits:

Summary	Source	Action
Make public: status	s3://my-cloud-project-bucket1	Successfully edited public access 1 object, 3.2 MB
		Failed to edit public access 0 objects

A note below the table says "After you navigate away from this page, the following information is no longer available."



Issue: Unable to Make S3 Object Public Using ACL

While working with Amazon S3, I encountered an issue where the "Make public using ACL" option was disabled for an object in my bucket (my-cloud-project-bucket1). This was because ACLs were disabled by default, as per AWS's recommended best practices.

The screenshot shows the 'Edit Object Ownership' dialog box. In the 'Object Ownership' section, the 'ACLs enabled' option is selected, indicated by a blue radio button. A tooltip explains: 'Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.' Below this, there are two warning boxes:

- A yellow warning box: 'We recommend disabling ACLs, unless you need to control access for each object individually or to have the object writer own the data they upload. Using a bucket policy instead of ACLs to share data with users outside of your account simplifies permissions management and auditing.'
- A blue warning box: 'Enabling ACLs turns off the bucket owner enforced setting for Object Ownership. Once the bucket owner enforced setting is turned off, access control lists (ACLs) and their associated permissions are restored. Access to objects that you do not own will be based on ACLs and not the bucket policy.' It includes a checkbox: 'I acknowledge that ACLs will be restored.'

In the 'Bucket Ownership' section, the 'Bucket owner preferred' option is selected, indicated by a blue radio button. A tooltip states: 'If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.' There is also an 'Object writer' option, which is not selected.

At the bottom right, there are 'Cancel' and 'Save changes' buttons.

What I Learned

- How to create and configure an S3 bucket.
- How to upload data and manage object-level permissions.
- AWS has **ACLs disabled by default** for better security — and encourages using **bucket policies or IAM for access control**.
- Always review S3 **Block Public Access settings** when debugging permission issues.