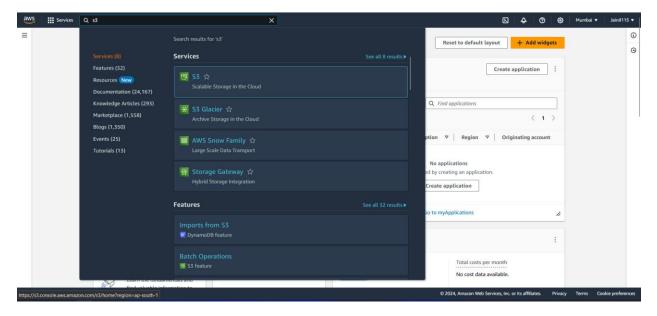
# TASK 1: Create an S3 Bucket:

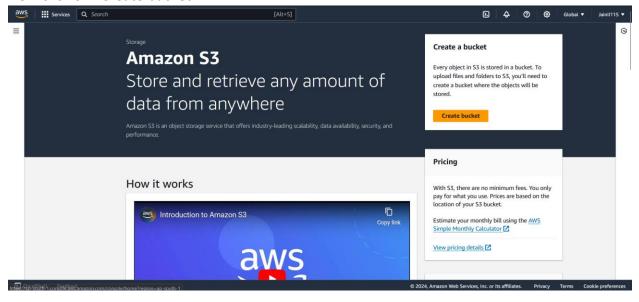
- 1. Create a new S3 bucket with a globally unique name.
- 2. Configure bucket policies and access control lists (ACLs) to control permissions.
- 3. Enable versioning for your S3 bucket.
- 4. Upload, modify, and delete objects to observe versioning in action.

#### Steps to create S3 Bucket:

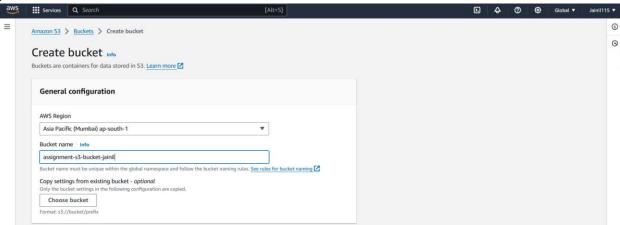
1. Search for S3 in AWS Console and select "S3 Scalable Storage in the Cloud".



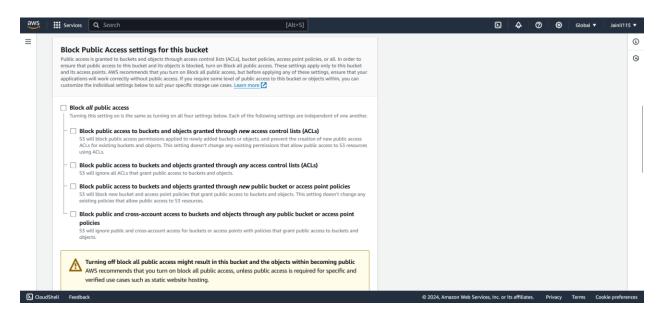
2. Now click on "Create bucket".



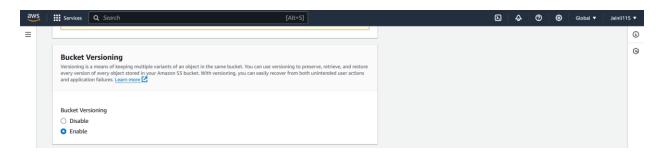
3. Now select region Mumbai and enter a globally unique name "assignment-s3-bucket-jainil".



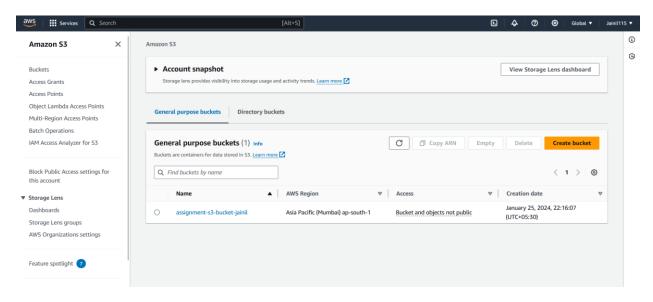
4. Untick Block all public access when creating the bucket to allow accessing files inside s3 bucket publicly, this can be done after the bucket has been created.



5. Enable Bucket Versioning:

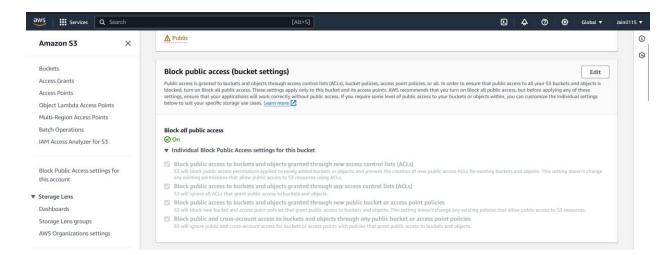


#### S3 Bucket Dashboard:

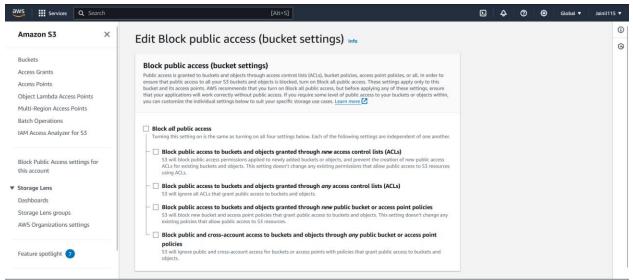


## Steps to edit public access:

1. Select the assignment-s3-bucket-jainil then click on permission, inside this tab click on edit on Block public access.

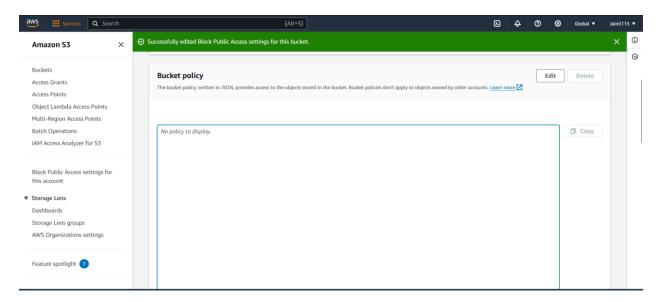


2. After clicking on edit, untick Block all public access and click on save changes, Then enter confirm.

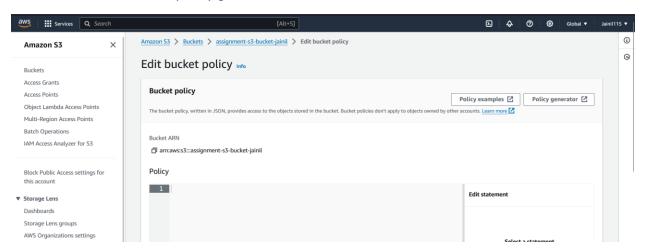


#### To configure bucket policies to control permissions:

1. Click on edit inside Bucket policy tab.



2. Inside edit mode click on policy generator.

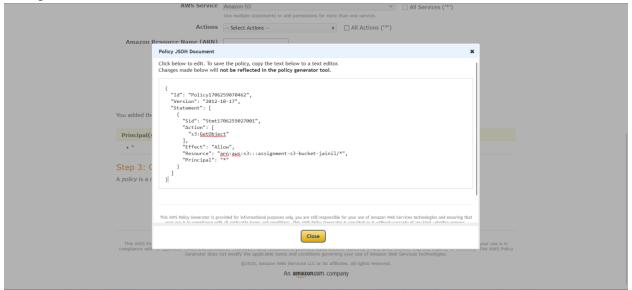


3. Policy generator provides gui for creating policies. Now select type of policy "S3 Bucket Policy".

choose effect: "allow", Principal: "\*", Actions: "GetObject", Amazon Resource Name (ARN): "arn:aws:s3:::assignment-s3-bucket-jainil/\*". Then click on Add Statement and click on generate policy.

Stop 1. Scient Folloy 17	PC			
A Policy is a container for permission VPC Endpoint Policy, and an SQS Q		licies you can create are an IAM Policy, an S3 Bucket	t Policy, an SNS Topic Policy, a	
Select Type of Pol	S3 Bucket Policy			
Step 2: Add Statement	(s)			
•	•	e a description of elements that you can use in state	ments.	
Effe	ect			
Princi	pal			
	Use a comma to separate mu	Itiple values.		
AWS Servi	ice Amazon S3	∨ □ All Se	rvices ('*')	
	Use multiple statements to a	dd permissions for more than one service.		
Actio	Select Actions	□ All Actions ('*¹)		
Amazon Resource Name (AR	N)	1		
,		J ng format: arn:aws:s3:::\${BucketName}/\${KeyName}.		
	Use a comma to separate mu	Itiple values.		
	Add Conditions (Optiona	1)		
	Add Statement			
You added the following statements	. Click the button below to G	enerate a policy.		
Principal(s) Effect	Action	Resource	Conditions	
• * Allow	• s3:GetObject	arn:aws:s3:::assignment-s3-bucket-jainil/*	None	

4. Then Copy the json text and paste it in the Edit bucket policy page, then click on Save Changes.

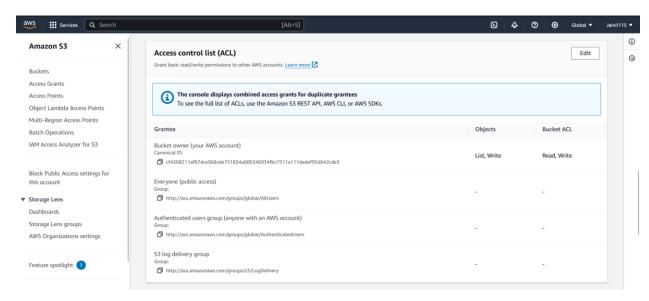


```
aws Services Q Search
                                                                                                                                                                       (i)
   Amazon S3
                                               Bucket ARN
                                                arn:aws:s3:::assignment-s3-bucket-jainil
  Buckets
   Access Grants
                                               Policy
   Access Points
  Object Lambda Access Points
                                                         "Id": "Policy1706259070462",
"Version": "2012-10-17",
                                                                                                                                                                 Edit statement
  Multi-Region Access Points
  Batch Operations
                                                    4 ▼ "Statement": [
                                                   5▼ {
6 "Sid": "Stmt1706259027001",
  IAM Access Analyzer for S3
                                                   6 "Sid": "Stmt17062

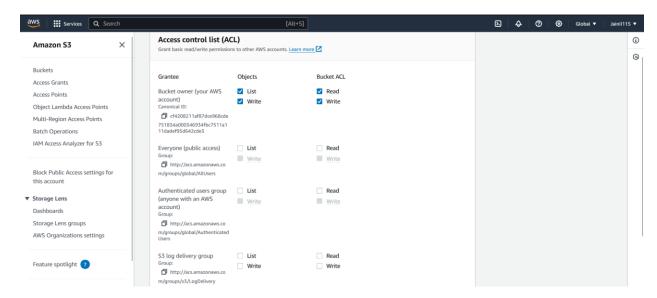
7▼ "Action": [
8 "s3:Get0bject"
9 ],
                                                          "$3:ue.co.,-
],
"Effect": "Allow",
"Resource": "arm:aws:s3:::assignment-s3-bucket-jainil/*",
"Principal": "*"
                                                                                                                                                                   Select an existing statement in the policy or
  Block Public Access settings for
                                                                                                                                                                             add a new statement.
  this account
                                                                                                                                                                         + Add new statement
▼ Storage Lens
                                                  13
  Dashboards
                                               15
  Storage Lens groups
```

## To configure access control lists (ACLs) to control permissions:

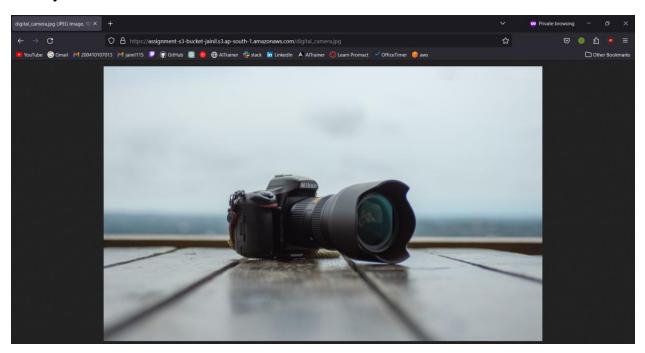
1. Scroll Down in Permission of s3 bucket find Access Control List and click on edit.



2. Now configure access control list to control list, read, write permission about objects and Bucket ACL. After configuring ACL click on "Save changes".



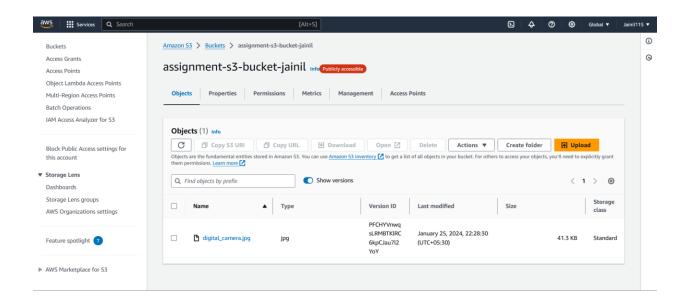
## Check if s3 object is accessible:



## Upload, modify, and delete objects to observe versioning in action:

## **Uploading Image:**

In assignment-s3-bucket-jainil click on upload and then click on add file and select digital\_camera.jpg to upload it to s3 bucket. This created a new version id which is visible in the image.



# **Modifying Image:**

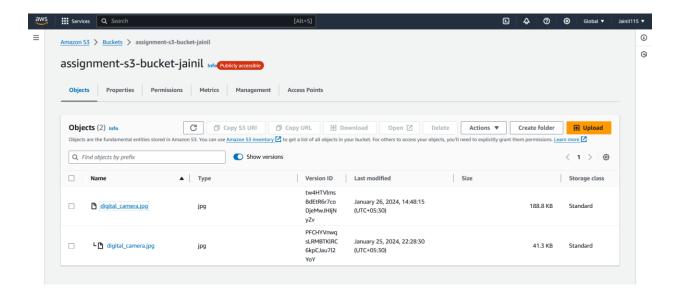
Click on upload in assignment-s3-bucket-jainil and click on add file then select another digital\_camera.jpg to replace existing image.

#### **Existing Image:**



## Modified Image:





#### Delete:

To delete a s3 object select that object and click on delete. Now confirm the deletion by writing delete and click on Delete object.

