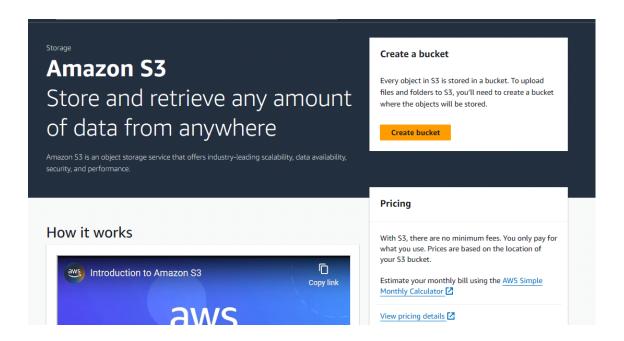
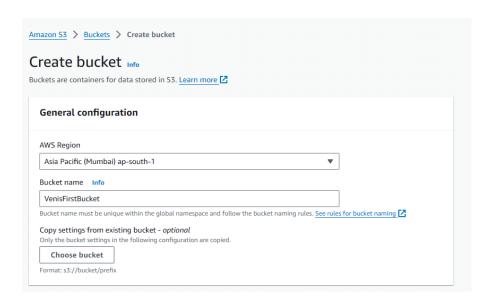
TASK 1: Create an S3 Bucket:

1.1Steps to create S3 Bucket:

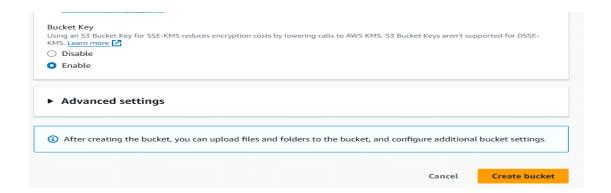
• In the Aws Cloud, search for S3 and select it.



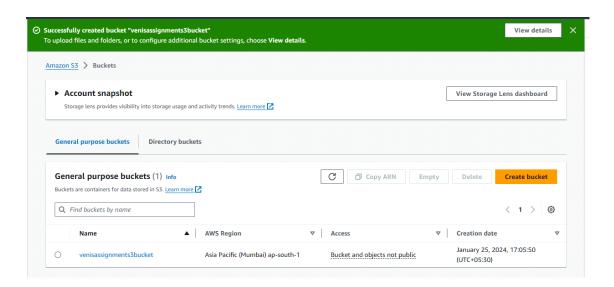
• Now click on "Create bucket". Select the Nearest region so we'll select Mumbai(Asia pacific), and give the bucket name as "VenisFirstBucket".



• Enable Bucket Versioning:

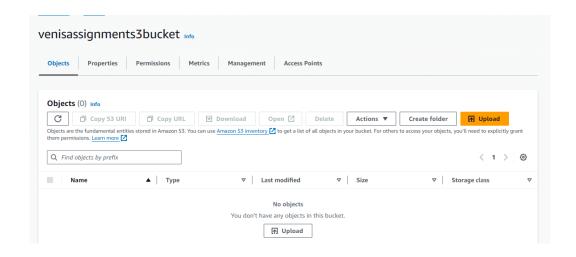


• Now we can see that our bucket has been created .

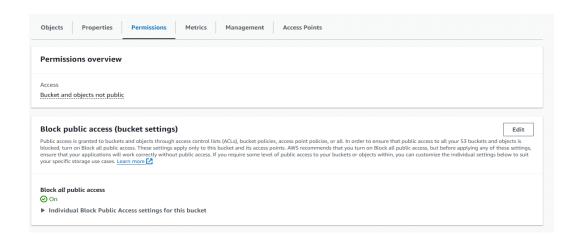


Steps to edit public access:

• Select the venisassignments3bucket .

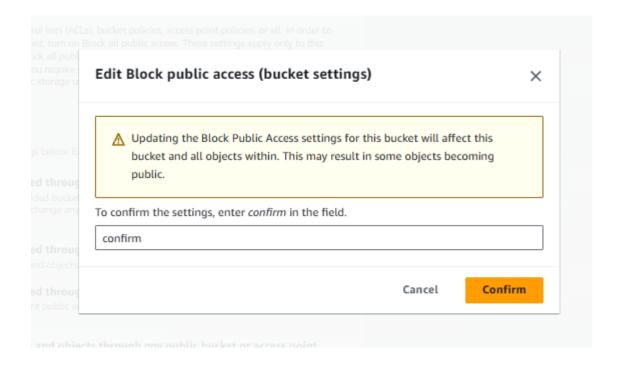


• Now we can see the Permissions section . So Now click on Edit .



Now untick all the checkboxes and write confirm to confirm the changes.

Edit Block public access (bucket settings) Info Block public access (bucket settings) Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more 🔀 Block all public access Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another. ☐ Block public access to buckets and objects granted through new access control lists (ACLs) S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resources using ACLs. · Block public access to buckets and objects granted through any access control lists (ACLs) S3 will ignore all ACLs that grant public access to buckets and objects. Block public access to buckets and objects granted through new public bucket or access point policies 53 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to S3 resources. ☐ Block public and cross-account access to buckets and objects through any public bucket or access point 53 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects. Save changes

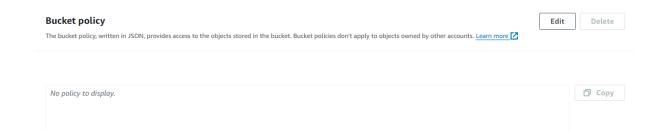


Now we can see the confirmation of the saved changes.

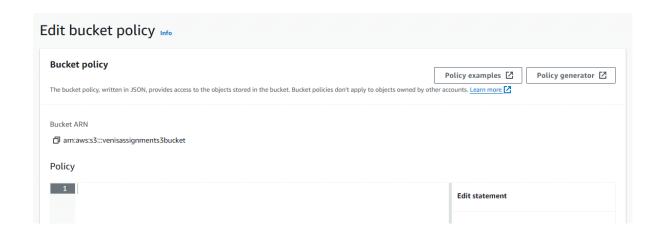


2.1To configure bucket policies to control permissions:

• Click on edit inside Bucket policy tab.



• Inside edit mode click on policy generator.



• 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:::venisassignments3bucket/*". Then click on Add Statement and click on generate policy.

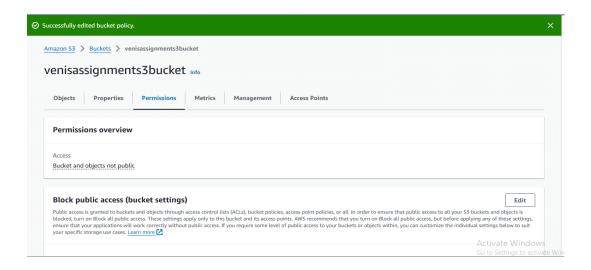
	AWS Policy Generator		
	The AWS Policy Generator is a tool that enables you to create policies that control access to Amazon Web Services (AWS) products and resources. For more information about creating policies, see key concepts in Using AWS Identity and Access Management. Here are sample policies.		
	Step 1: Select Policy Type		
	A Policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, an SNS Topic Policy, a /PC Endpoint Policy, and an SQS Queue Policy.		
	Select Type of Policy	S3 Bucket Policy 🔻	
	Step 2: Add Statement(s)		
A statement is the formal description of a single permission. See a description of elements that you can use in statements.			
	Effect (Allow Openy	
	Principal		
		Use a comma to separate multiple values.	
		Amazon S3 ✓ All Services (¹*¹)	
		Use multiple statements to add permissions for more than one service. Select Actions All Actions (***)	
		Select Actions e All Actions (***)	
	Amazon Resource Name (ARN)		
		ARN should follow the following format: arn:aws:s3:::\${BucketName}/\${KeyName}. Use a comma to separate multiple values.	Activate Windov
	А	add Conditions (Optional)	Go to Settings to activ
		Add Statement	

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

Policy

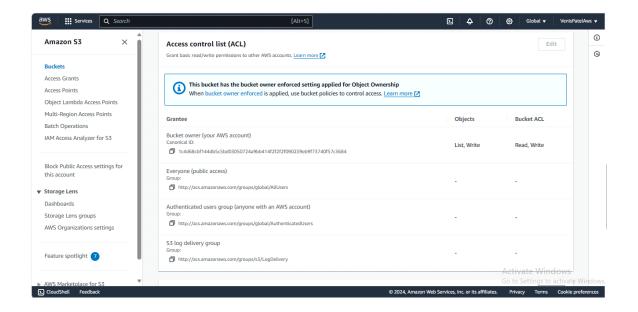
```
1 ▼ {
  2 "Id": "Policy1706183752668",
  3 "Version": "2012-10-17",
  4 ▼ "Statement": [
          "Sid": "Stmt1706183719037",
  7 ▼
         "Action": [
   8
           "s3:GetObject"
  9
  10
         "Effect": "Allow",
          "Resource": "arn:aws:s3:::venisassignments3bucket/*",
  11
  12
          "Principal": "*"
 13
        }
  14
       ]
15 }
```

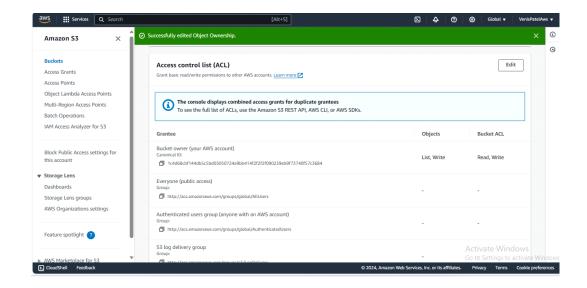
Now we can see the changes here



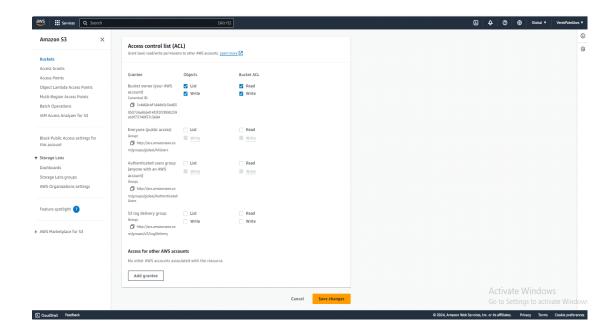
2.2To configure access control lists (ACLs) to control permissions:

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



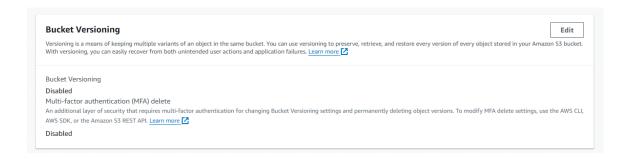


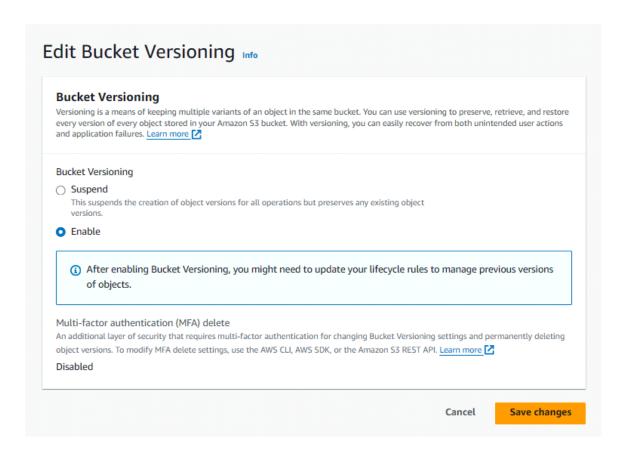
• Now configure access control list to control list, read, write permission about objects and Bucket ACL. After configuring ACL click on "Save changes".

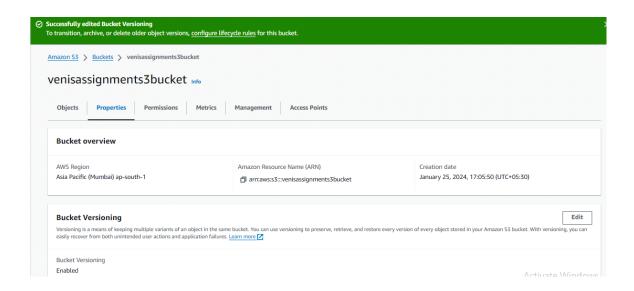


3. Enable the versioning of your S3 bucket .

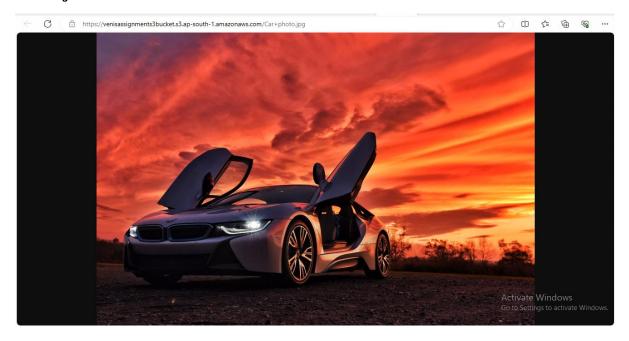
 Go to bucket versioning and then Enable bucket versioning and then save that changes and we can see those changes.





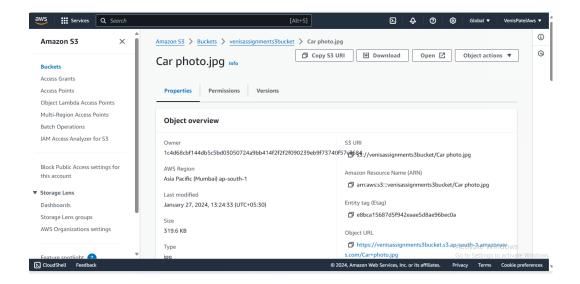


Check if s3 object is accessible:



4. Upload, modify, and delete objects to observe versioning in action: **Uploading Image:**

In venisassignments3bucket click on upload and then click on add file and select Car photo.jpg to upload it to s3 bucket. This created a new version id which is visible in the image.



Modifying Image:

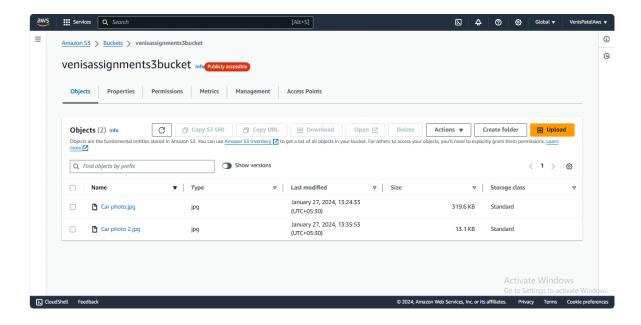
Click on upload in assignment-s3-bucket-jainil and click on add file then select another digital_camera.jpg to replace existing image.

Existing Image:



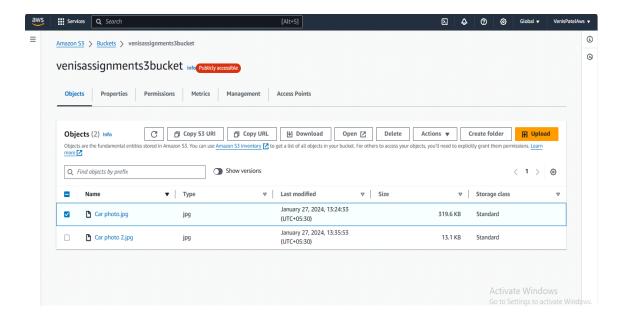
Modified Image:





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.



Here we can see that after deleting the image, we still have the older version.

