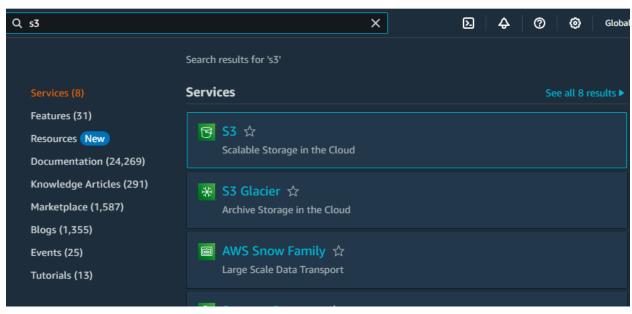
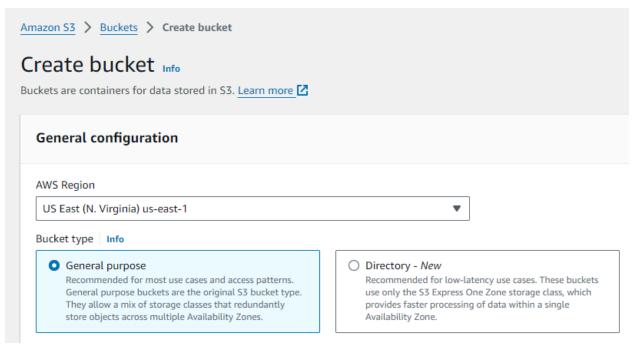
Search for S3 in AWS services.



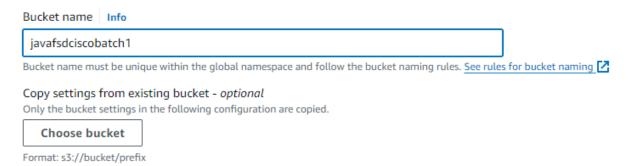
Click on S3



Click on create Bucket



Select us-east-1 region and General purpose bucket type Give Unique name to your s3 bucket



If you want to copy some existing bucket to this bucket then from that dropdown select the existing bucket.

Object Ownership Info

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

ACLs disabled (recommended)

All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies. ACLs enabled

Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership

Bucket owner enforced

Block Public Access settings for this bucket

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 this bucket and its 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 this bucket 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.

ACL - Access control list disabled and , block all public access. Enable Bucket versioning

Bucket Versioning

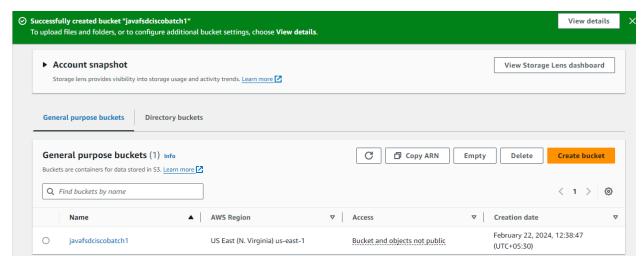
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more

Bucket Versioning

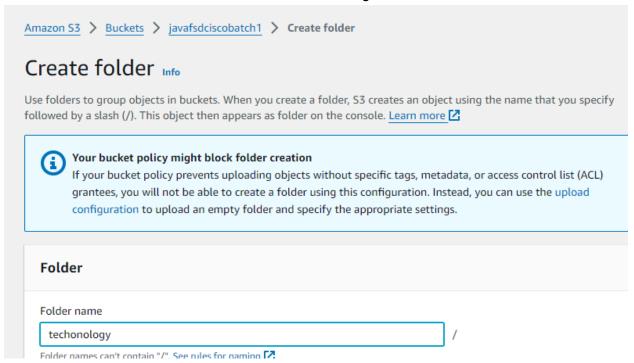
Disable

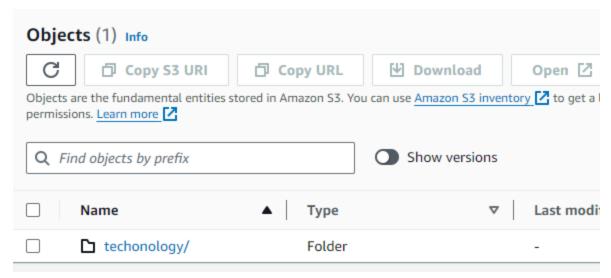
Enable

Tags are optional so you can leave it and also Continue with this default encryption. Click on create bucket button.



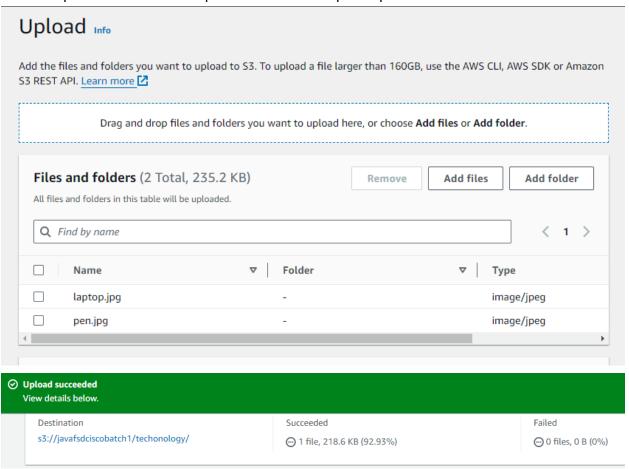
Click on the bucket and see the bucket security, details and objects etc.. Click on create folder and create folder named technologies.



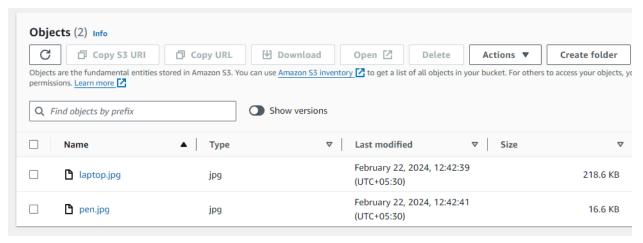


Click on technology and add some files to it.

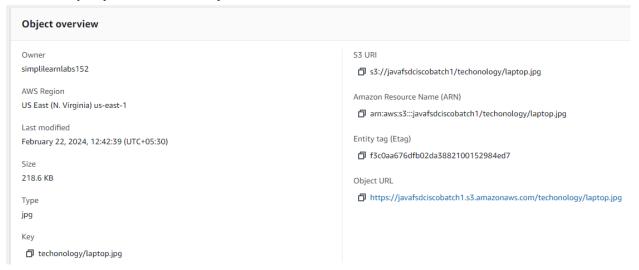
Click on upload and select multiple files or folder as per requirement.



See uploaded objects.



Click on any object and check object details.



You can see the link generated for Object in Object URL https://javafsdciscobatch1.s3.amazonaws.com/techonology/laptop.jpg

Here javafsdciscobatch1 is bucket name /tochnology/laptop.jpg is the folder name and filename

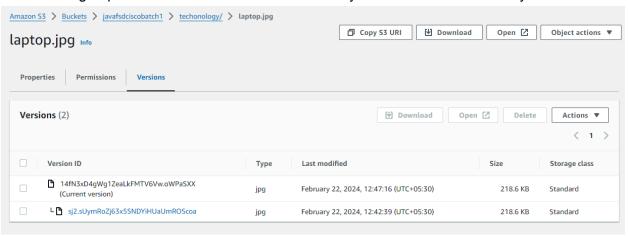
If you try to access that link the access denied error you can see in browser.



Let's understand Versioning.

In your technology folder upload the same laptop image again, its not going give you any error like the same file existing but it's just uploaded.

Click on image uploaded and click on version tab and you can see 2 versions of your file.



If you want use old version file or download old version file is possible here.

To See or change Storage Object Type use below options. Click on object in properties scroll down.

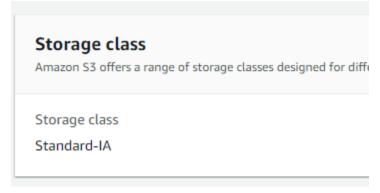
Storage class Amazon S3 offers a range of storage classes designed for different use cases. Learn more 7 or see Amazon S3 pricing 7	Edit
Storage class Standard	

Click on edit.

Check different storages.

_	e class 3 offers a range of sto	orage classes designed for different use cases. <u>Learn more</u>	☑ or see Amazon S3 p	oricing 🖸	
	Storage class	Designed for	Availability Zones	Min storage duration	l C
0	Standard	Frequently accessed data (more than once a month) with milliseconds access	≥ 3	-	-
0	Intelligent- Tiering	Data with changing or unknown access patterns	≥ 3	-	-
0	Standard-IA	Infrequently accessed data (once a month) with milliseconds access	≥ 3	30 days	1
0	One Zone-	Recreatable, infrequently accessed data (once a month) stored in a single Availability Zone with milliseconds access	1	30 days	1
0	Glacier Instant	Long-lived archive data accessed once a quarter with instant retrieval in	≥ 3	90 days	1

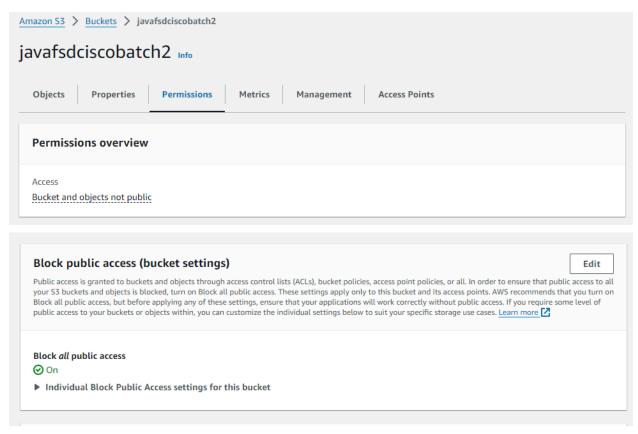
Select which you want to apply.



Storage class is updated.

To Access the objects Let's Write the Policy: Bucket Policy

Step 1:



Click on edit

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 ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to thi bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ens that your applications will work correctly without public access. If you require some level of public access to your buckets or objects w you can customize the individual settings below to suit your specific storage use cases. Learn more

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one an

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 acc

ACLs for existing buckets and objects. This setting doesn't change any existing permissions that allow public access to S3 resc

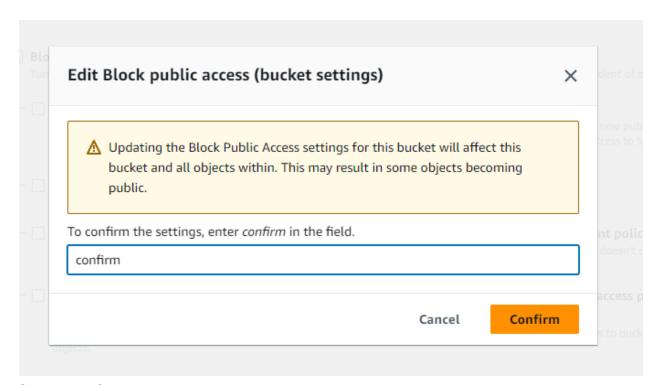
using ACLs.

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.

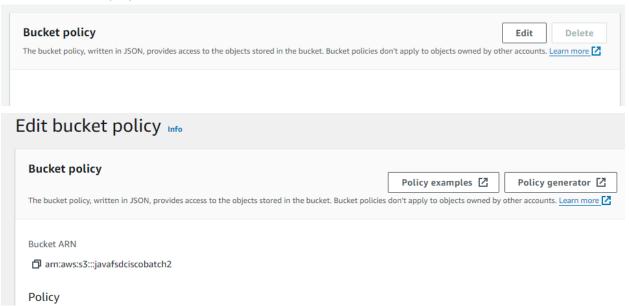
Uncheck block public access.

Click on save changes and type confirm in the box as shown below.



Click on confirm.

Let's create policy by click on edit.



Click on policy generator.

On Policy Generator page select policy type to s3 bucket.

AWS Policy Generator

The AWS Policy Generator is a tool that enables you to create policies that control access to Am For more information about creating policies, see key concepts in Using AWS Identity and Acce

Step 1: Select Policy Type

A Policy is a container for permissions. The different types of policies you can create are an IAN VPC Endpoint Policy, and an SQS Queue Policy.



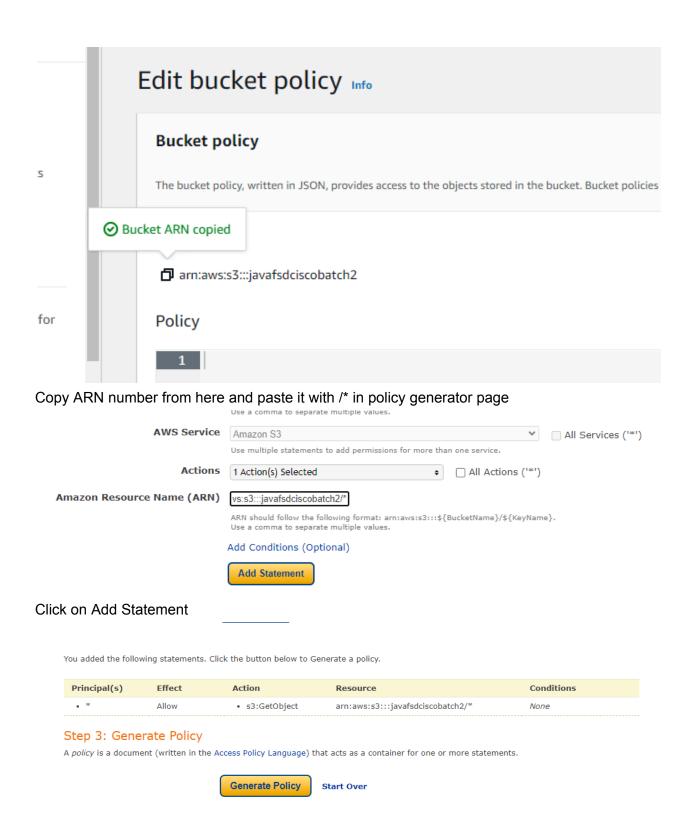
Step 2: Add Statement(s)

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 mul	tiple values.		
AWS Service	Amazon S3	✓ All Services ('*')			
	Use multiple	statements to ad	d permissions for mor	re th	an one service.
Actions	1 Action(s)	Selected		‡	☐ All Actions ('*')
Amazon Resource Name (ARN)	GetMulti	- RegionAccessPoin	tRoutes	•	
	✓ GetObje	ct			{BucketName}/\${KeyName}.
	Get0bje	ctAcl			
	Get0bje	ctAttributes		ш	
	Get0bje	ctLegalHold			d. You must enter a valid ARN.
	Get0bje	ctRetention			a. Tou must enter a valid ANN.
	GetObje	ctTagging		-	

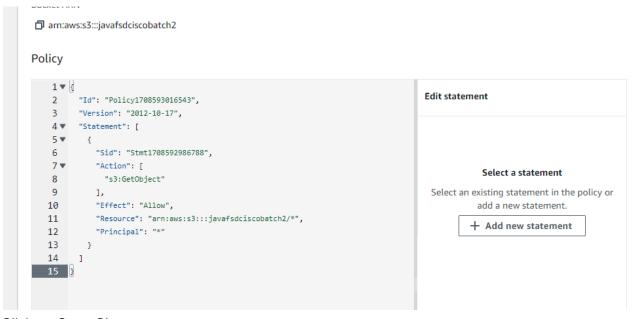
In principle type * and in actions search for getObject

•

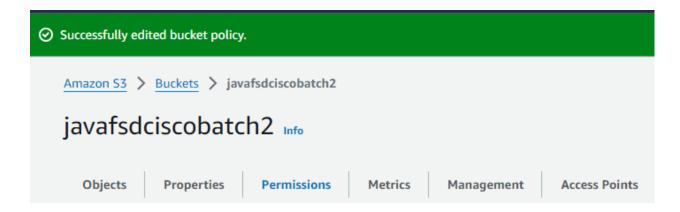


Click on generate Policy

Copy that generated code and add it to your policy page.



Click on Save Changes.



Now Again try to access that added object in browser.