

# Cycle 08 AWS Homework

## 1. Hands-on with S3 Storage Classes

What was done:

- Created a new S3 bucket and uploaded sample files like `.txt`, `.jpg`, `.mp4`.
- Initially, files were stored in the **Standard** storage class.
- Manually changed the storage class of each file to:
  - Intelligent-Tiering**: Allows automatic movement between tiers depending on access frequency.
  - Glacier**: Suitable for archival; lowest cost but slow retrieval.

Why this matters:

- Different storage classes have different pricing models and use cases.
- Standard is good for frequent access, but expensive.
- Glacier is very cheap, but should only be used when you don't need quick access.

Cost comparison using AWS Pricing Calculator:

Storage Class	Monthly Cost per GB	6-Month Cost for 1TB	Use Case
Standard	\$0.023	\$141.30	Daily-use files (e.g., logs, media)
Intelligent-Tiering	~\$0.023 + monitoring	~\$150.00	Uncertain access patterns
Glacier	\$0.00099	\$6.06	Long-term backup/archive

## 2. Lifecycle Policy Implementation

What was done:

- Created a **lifecycle rule** to automatically transition objects from **Standard** to **Glacier** after **30 days**.
- Enabled **versioning** on the bucket.
- Tested **deleting objects** with versioning **on** and **off**.

Key concepts:

- Lifecycle rules help **automate storage management** and reduce cost.

- Versioning keeps track of all versions of an object.
  - Deleting an object does not remove it immediately; instead, a **delete marker** is added.
- Without versioning, deleting an object removes it permanently.

### Observations:

- After deleting a versioned object, it can still be restored from an older version.
  - Delete markers are visible when listing all versions.
  - Lifecycle rules apply only to the **current version** of an object unless specified.
- 

## 3. Requestor Pays Bucket Experiment

### What was done:

- Enabled the “**Requestor Pays**” option in bucket settings.
- Tried accessing the bucket anonymously and from a different AWS account without using the `-request-payer` flag.

### Purpose:

- In a “Requestor Pays” bucket, the person downloading data is charged, **not the bucket owner**.
- This is useful when sharing data publicly but you don’t want to pay for everyone’s downloads.

### Result:

- Anonymous access was **denied**.
  - Access from CLI failed unless `-request-payer requester` was added.
  - Verified that this feature works as expected.
- 

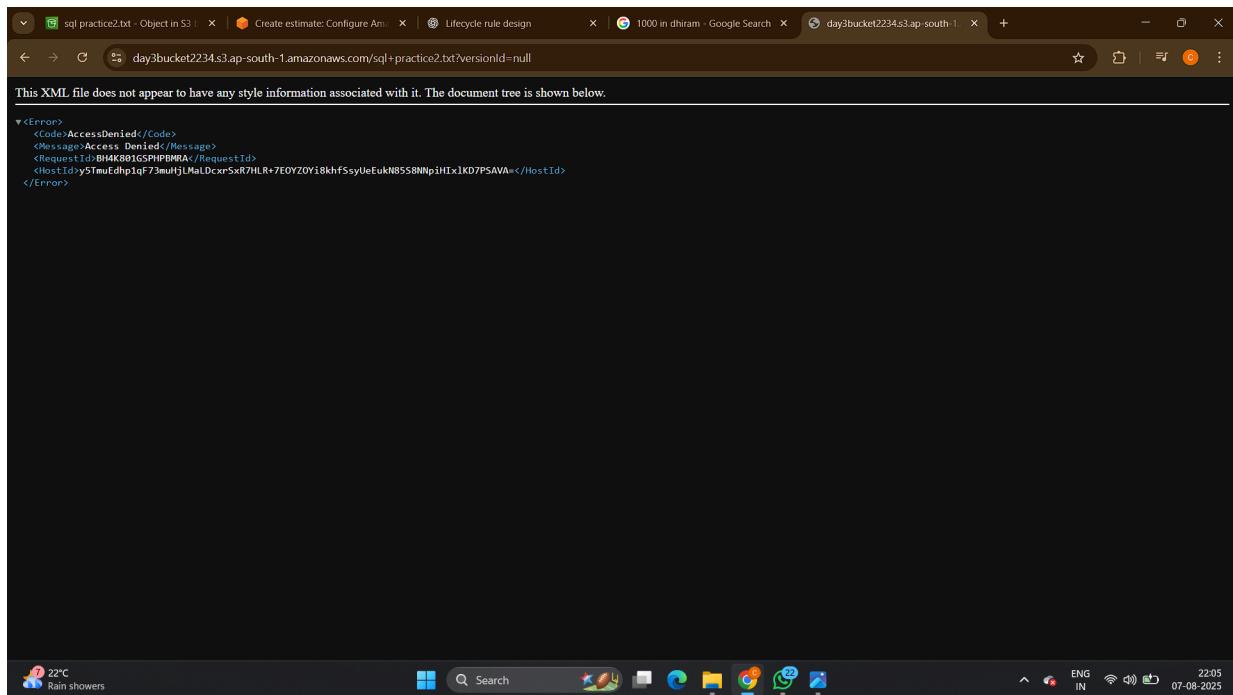
## 4. Cost Optimization Report

### Purpose:

To understand the **cost difference** between storage classes over a period of 6 months for storing **1TB** of data.

### Summary Table:

Storage Class	Monthly Cost (1TB)	6-Month Cost	Availability	Best For	
Standard	\$23.55	\$141.30	99.99%	Frequently accessed files	
One Zone-IA	\$10.24	\$61.44	99.5%	Infrequently accessed data	
Glacier Deep Archive	\$1.01	\$6.06	Retrieval time required	Long-term archival	



Screenshot of the AWS S3 Bucket Creation Wizard - General configuration step.

**AWS Region:** Asia Pacific (Mumbai) ap-south-1

**Bucket type:** General purpose (selected)

**Bucket name:** day3bucketforde

**Copy settings from existing bucket - optional:** Choose bucket (button)

**Object Ownership:** ACLs disabled (recommended)

**Block Public Access settings for this bucket:**

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Screenshot of the AWS S3 Bucket Creation Wizard - Object Ownership step.

**Object Ownership:** ACLs enabled (selected)

**Bucket Owner Preferred:** Bucket owner preferred (selected)

**Object writer:** Object writer (selected)

**Block Public Access settings for this bucket:**

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Create S3 bucket | S3 | ap-south-1

ap-south-1.console.aws.amazon.com/s3/bucket/create?region=ap-south-1&bucketType=general

Amazon S3 > Buckets > Create bucket

Block all public access

- 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  
S3 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 policies  
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.

**Turning off block all public access might result in this bucket and the objects within becoming public**

AWS recommends that you turn on block all public access, unless public access is required for specific and verified use cases such as static website hosting.

I acknowledge that the current settings might result in this bucket and the objects within becoming public.

**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

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Create S3 bucket | S3 | ap-south-1

ap-south-1.console.aws.amazon.com/s3/bucket/create?region=ap-south-1&bucketType=general

Amazon S3 > Buckets > Create bucket

**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 - optional (0)**

You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

Add new tag

You can add up to 50 tags.

**Default encryption** [Info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

**Encryption type** [Info](#)

Server-side encryption with Amazon S3 managed keys (SSE-S3)

Server-side encryption with AWS Key Management Service keys (SSE-KMS)

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**day3bucketforde** Info

**Objects** (3)

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](#)

Name	Type	Last modified	Size	Storage class
<a href="#">Chetan-sql practice.sql</a>	sql	August 7, 2025, 20:51:52 (UTC+05:30)	2.0 KB	Intelligent-Tiering
<a href="#">DT20256479023_Application.pdf</a>	pdf	August 7, 2025, 20:53:38 (UTC+05:30)	29.4 KB	Glacier Instant Retrieval
<a href="#">sql practice2.txt</a>	txt	August 7, 2025, 20:51:07 (UTC+05:30)	2.1 KB	Standard

**aws pricing calculator**

Step 1

Add service

Description

Choose a location type Info

Region

Choose a Region Info

Region  Asia Pacific (Mumbai)

Select S3 Storage classes and other features Info

Select AWS services that you want to estimate

S3 Standard  S3 Intelligent - Tiering  S3 Standard - Infrequent Access  
 S3 One Zone - Infrequent Access  S3 Glacier Flexible Retrieval  S3 Glacier Deep Archive  
 S3 Management and Insights  S3 Vectors  S3 Object Lambda  
 S3 Glacier Instant Retrieval  Data Transfer  S3 Express One Zone  
 S3 Access Grants

**S3 Standard feature**

Total Upfront cost: \$0.00 USD | Total Monthly cost: \$0.00 USD

Show Details  Cancel  Save and view summary  Save and add service

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**aws pricing calculator**

Ongoing monthly volume of data scanned by S3 Select requests

**Value**: 1000  
**Unit**: GB per month

**Show calculations**

**Unit conversions**

S3 Standard storage: 50 TB per month x 1024 GB in a TB = 51200 GB per month  
Data returned by S3 Select: 50 TB per month x 1024 GB in a TB = 51200 GB per month

**Pricing calculations**

Tiered price for: 51,200 GB  
51,200 GB x 0.025 USD = 1,280.00 USD  
Total tier cost = 1,280.00 USD (S3 Standard storage cost)  
5,000 PUT requests for S3 Standard Storage x 0.000005 USD per request = 0.025 USD (S3 Standard PUT requests cost)  
5,000 GET requests in a month x 0.000004 USD per request = 0.002 USD (S3 Standard GET requests cost)  
51,200 GB x 0.0009 USD = 46.08 USD (S3 select returned cost)  
1,000 GB x 0.0025 USD = 2.50 USD (S3 select scanned cost)  
1,280 USD + 0.002 USD + 0.025 USD + 46.08 USD + 2.50 USD = 1,328.61 USD (Total S3 Standard Storage, data requests, S3 select cost)  
**S3 Standard cost (monthly): 1,328.61 USD**

**S3 Standard cost (upfront): 0.00 USD**

**Total Upfront cost: 0.00 USD**  
**Total Monthly cost: 1,328.61 USD**

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**aws pricing calculator**

Configure service

**Select S3 Storage classes and other features** Info

Select AWS services that you want to estimate

S3 Standard       S3 Intelligent - Tiering       S3 Standard - Infrequent Access  
 S3 One Zone - Infrequent Access       S3 Glacier Flexible Retrieval       S3 Glacier Deep Archive  
 S3 Management and Insights       S3 Vectors       S3 Object Lambda  
 S3 Glacier Instant Retrieval       Data Transfer       S3 Express One Zone  
 S3 Access Grants

**S3 Intelligent - Tiering feature**

**S3 Intelligent - Tiering (S3 INT)** Info

The Amazon S3 Intelligent-Tiering storage class is designed to optimize storage costs by automatically moving data to the most cost-effective access tier when access patterns

**Total Upfront cost: 0.00 USD**  
**Total Monthly cost: 672.62 USD**

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calculator.aws/#/createCalculator/S3

**aws pricing calculator**

Show calculations

Unit conversions

S3 INT storage: 50 TB per month x 1024 GB in a TB = 51200 GB per month  
 S3 INT Average Object Size: 16 MB x 0.0009765625 GB in a MB = 0.015625 GB  
 Percentage of Storage in INT-Frequent Access Tier: 10 / 100 = 0.1  
 Percentage of Storage in INT-Infrequent Access Tier (% of storage that hasn't been accessed in the last 30 days): 40 / 100 = 0.4  
 Percentage of Storage in INT-Archive Instant Access Tier (% of storage that hasn't been accessed in the last 90 days): 10 / 100 = 0.1  
 Percentage of Storage in INT-Archive Access Tier (% of storage that hasn't been accessed for a minimum of 90 days): 10 / 100 = 0.1  
 Percentage of Storage in INT-Deep Archive Access Tier (% of storage that hasn't been accessed for a minimum of 180 days): 30 / 100 = 0.3  
 Data returned by S3 Select: 50 TB per month x 1024 GB in a TB = 51200 GB per month  
 Data scanned by S3 Select: 50 TB per month x 1024 GB in a TB = 51200 GB per month

Pricing calculations

51,200 GB per month / 0.015625 GB average item size = 3,276,800.00 unrounded number of objects  
 Round up by 1 (3276800.0000) = 3276800 number of objects  
 0.10 frequent access multiplier x 51,200 GB = 5,120.00 GB (total frequent access storage)  
 Tiered price for: 5,120.00 GB  
 5,120 GB x 0.025 USD = 128.00 USD  
 Total tier cost = 128.00 USD (S3 INT Storage, Frequent Access Tier cost)  
**Frequent Access Tier cost: 128 USD**  
 0.40 infrequent access multiplier x 51,200 GB (Total S3 INT storage) = 20,480.00 GB (total infrequent access storage)  
 20,480.00 GB x 0.0138 USD = 282.624 USD (S3 INT Storage, Infrequent-Access Tier cost)

Total Upfront cost: 0.00 USD  
 Total Monthly cost: 672.62 USD

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calculator.aws/#/createCalculator/S3

**aws pricing calculator**

0.10 frequent access multiplier x 51,200 GB = 5,120.00 GB (total frequent access storage)  
 Tiered price for: 5,120.00 GB  
 5,120 GB x 0.025 USD = 128.00 USD  
 Total tier cost = 128.00 USD (S3 INT Storage, Frequent Access Tier cost)  
**Frequent Access Tier cost: 128 USD**  
 0.40 infrequent access multiplier x 51,200 GB (Total S3 INT storage) = 20,480.00 GB (total infrequent access storage)  
 20,480.00 GB x 0.0138 USD = 282.624 USD (S3 INT Storage, Infrequent-Access Tier cost)  
**Infrequent-Access Tier cost: 282.624 USD**  
 0.10 archive instant access multiplier x 51,200 GB (Total S3 INT storage) = 5,120.00 GB (total archive instant access storage)  
 5,120.00 GB x 0.005 USD = 25.60 USD (S3 INT Storage, Archive Instant Access Tier cost)  
**Archive Instant Access Tier cost: 25.60 USD**  
 0.10 frequent access multiplier x 3,276,800 number of objects = 327,680.00 unrounded number of objects  
 Round up by 1 (327680.00) = 327680 number of objects (total number of objects archive access storage)  
 327,680 number of objects (total number of objects archive access storage) x 8 KB = 2,621,440.00 KB overhead  
 2,621,440.00 KB overhead / 1048576 KB in a GB = 2.50 GB overhead  
 Tiered price for: 2.50 GB  
 2.50 GB x 0.025 USD = 0.06 USD  
 Total tier cost = 0.0625 USD (S3 Standard storage overhead cost for metadata)  
 327,680 number of objects (total number of objects archive access storage) x 32 KB = 10,485,760.00 KB overhead  
 10,485,760.00 KB overhead / 1048576 KB in a GB = 10.00 GB overhead  
 10.00 GB overhead x 0.0045 USD = 0.045 USD (S3-INT Archive Access storage overhead cost for metadata)  
 0.10 archive access multiplier x 51,200 GB (Total S3 INT storage) = 5,120.00 GB (total archive access storage)  
 5,120.00 GB x 0.0045 USD = 23.04 USD (S3 INT Storage, Archive Access Tier cost)  
 0.0625 USD + 0.045 USD + 23.04 USD = 23.1475 USD (Total Archive Access Tier cost)  
**Archive Access Tier cost: 23.1475 USD**

Total Upfront cost: 0.00 USD  
 Total Monthly cost: 672.62 USD

Show Details ▾      Cancel      Save and view summary      Save and add service

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calculator.aws/#/createCalculator/S3

**aws pricing calculator**

Feedback Language: English Contact Sales Create an AWS Account

Archive Access Tier cost: 23.1475 USD

0.30 frequent access multiplier x 3,276,800 number of objects = 983,040.00 unrounded number of objects  
 Round up by 1 (983040.00) = 983040 number of objects (total number of objects deep archive access storage)  
 983,040 number of objects (total number of objects deep archive access storage) x 8 KB = 7,864,320.00 KB overhead  
 7,864,320.00 KB overhead / 1048576 KB in a GB = 7.50 GB overhead  
 Tiered price for: 7.50 GB  
 7.50 GB x 0.025 USD = 0.19 USD  
 Total tier cost = 0.1875 USD (S3 Standard storage overhead cost for metadata)  
 983,040 number of objects (total number of objects deep archive access storage) x 32 KB = 31,457,280.00 KB overhead  
 31,457,280.00 KB overhead / 1048576 KB in a GB = 30.00 GB overhead  
 30.00 GB overhead x 0.002 USD = 0.06 USD (S3-INT Deep Archive storage overhead cost for metadata)  
 0.30 deep archive access multiplier x 51,200 GB (Total S3 INT storage) = 15,360.00 GB (total deep archive access storage)  
 15,360.00 GB x 0.002 USD = 30.72 USD (S3 INT Storage, Deep Archive Access Tier cost)  
 0.1875 USD + 0.06 USD + 30.72 USD = 30.9675 USD (Total Deep Archive Access Tier cost)

Deep Archive Access Tier cost: 30.9675 USD

3,276,800 number of objects x 0.0000025 USD per object = 8.192 USD (Monitoring and automation objects cost)  
 1,000 PUT requests for S3 INT Storage x 0.000005 USD per request = 0.005 USD (S3 INT PUT requests cost)  
 1,000 GET requests in a month x 0.0000004 USD per request = 0.0004 USD (S3 INT GET requests cost)  
 100 lifecycle request count for S3 INT x 0.0001 USD per request = 0.001 USD (S3 INT Lifecycle requests cost)  
 51,200 GB x 0.0009 USD = 46.08 USD (S3 select data returned cost)  
 51,200 GB x 0.0025 USD = 128.00 USD (S3 INT data scanned cost)  
 128 USD + 282.624 USD + 25.60 USD + 23.1475 USD + 30.9675 USD + 8.192 USD + 0.005 USD + 0.0004 USD + 0.001 USD + 46.08 USD + 128.00 USD = 672.62 USD (Total S3 INT Storage, requests, select, scanned and retrieval cost)  
**S3 INT cost (monthly): 672.62 USD**

Total Upfront cost: 0.00 USD  
 Total Monthly cost: 672.62 USD

Show Details Cancel Save and view summary Save and add service

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calculator.aws/#/createCalculator/S3

**aws pricing calculator**

Feedback Language: English Contact Sales Create an AWS Account

Enter a description for your estimate

Step 2 Configure service

Choose a location type [Info](#)  
 Region: Asia Pacific (Mumbai)

Select S3 Storage classes and other features [Info](#)  
 Select AWS services that you want to estimate

<input type="radio"/> S3 Standard	<input type="radio"/> S3 Intelligent - Tiering	<input type="radio"/> S3 Standard - Infrequent Access
<input type="radio"/> S3 One Zone - Infrequent Access	<input checked="" type="radio"/> S3 Glacier Flexible Retrieval	<input type="radio"/> S3 Glacier Deep Archive
<input type="radio"/> S3 Management and Insights	<input type="radio"/> S3 Vectors	<input type="radio"/> S3 Object Lambda
<input type="radio"/> S3 Glacier Instant Retrieval	<input type="radio"/> Data Transfer	<input type="radio"/> S3 Express One Zone
<input type="radio"/> S3 Access Grants		

**S3 Glacier Flexible Retrieval feature**

Total Upfront cost: 0.00 USD  
 Total Monthly cost: 235.12 USD

Show Details Cancel Save and view summary Save and add service

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The screenshot shows the AWS Pricing Calculator interface. At the top, there are tabs for 'calculator.aws/#/createCalculator/S3' and 'Create estimate: Configure Am...'. The main content area is titled 'aws pricing calculator'. It includes sections for 'Show calculations', 'Unit conversions', and detailed breakdowns of costs for S3 Glacier Flexible Retrieval storage. Key figures include:

- Total Upfront cost:** 0.00 USD
- Total Monthly cost:** 235.12 USD
- S3 Glacier Flexible Retrieval storage:** 50 TB per month x 1024 GB in a TB = 51200 GB per month
- Average Object Size:** 16 MB x 0.0009765625 GB in a MB = 0.015625 GB
- Pricing Calculations:**
  - 51,200 GB per month / 0.015625 GB average item size = 3,276,800.00 unrounded number of objects
  - Round up by 1 (3276800.0000) = 3276800 number of objects
  - 3,276,800 number of objects x 32 KB = 104,857,600.00 KB overhead
  - 104,857,600.00 KB overhead / 1048576 KB in a GB = 100.00 GB overhead
  - 100.00 GB overhead x 0.0045 USD = 0.45 USD (Glacier Flexible Retrieval storage overhead cost for metadata)
  - Glacier Flexible Retrieval storage overhead cost for metadata:** 0.45 USD
  - 3,276,800 number of objects x 8 KB = 26,214,400.00 KB overhead
  - 26,214,400.00 KB overhead / 1048576 KB in a GB = 25.00 GB overhead
  - Tiered price for: 25.00 GB
  - 25 GB x 0.025 USD = 0.63 USD
  - Total tier cost = 0.625 USD (S3 Standard storage overhead cost for metadata)
  - S3 Standard storage overhead cost for metadata:** 0.625 USD
  - 51,200 GB per month x 0.0045 USD = 230.40 USD (Glacier Flexible Retrieval storage cost)
  - Glacier Flexible Retrieval storage cost:** 230.40 USD
  - 0.45 USD + 0.625 USD + 230.40 USD = 231.475 USD (Total Glacier Flexible Retrieval storage cost)
  - 1,000 requests x 0.000036 USD = 0.036 USD (PUT, COPY, POST, LIST requests to S3 Glacier Flexible Retrieval cost)
  - 100 requests x 0.000036 USD = 0.0036 USD (Lifecycle transitions cost)
  - 100 connects x 0.00001 USD = 0.0001 USD (Cost for Data Transfer (Standard))

At the bottom, there are buttons for 'Cancel', 'Save and view summary', and 'Save and add service'.

The screenshot shows the 'Edit Bucket Versioning' page for an S3 bucket. The URL is 'ap-south-1.console.aws.amazon.com/s3/bucket/day3bucket2234/property/versioning/edit?region=ap-south-1&bucketType=general'. The page title is 'Edit 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**

**Suspend**  
This suspends the creation of object versions for all operations but preserves any existing object versions.

**Enable**

**Multi-factor authentication (MFA) delete**  
An additional layer of security that requires multi-factor authentication for changing Bucket Versioning settings and permanently deleting object versions. To modify MFA delete settings, use the AWS CLI, AWS SDK, or the Amazon S3 REST API. [Learn more](#)

Disabled

After enabling Bucket Versioning, you might need to update your lifecycle rules to manage previous versions of objects.

Buttons at the bottom: 'Cancel' and 'Save changes'.

The screenshot shows the AWS S3 console interface. At the top, the URL is `ap-south-1.console.aws.amazon.com/s3/buckets/day3bucket2234?region=ap-south-1&bucketType=general&tab=objects&showversions=false`. The account ID is 8459-5873-9988, and the region is Asia Pacific (Mumbai). The bucket name is `day3bucket2234`. The 'Objects' tab is selected. There is one object listed: `sql practice2.txt`, which is a `txt` file last modified on August 7, 2025, at 21:26:57 (UTC+05:30), with a size of 2.1 KB and a storage class of Standard. The toolbar includes actions like Copy S3 URI, Copy URL, Download, Open, Delete, Actions, Create folder, and Upload.

The screenshot shows the AWS S3 console after an object has been deleted. A green success message box appears at the top stating: "Successfully deleted objects. View details below." Below this, the object list shows 0 objects. The message "You don't have any objects in this bucket." is displayed. The toolbar includes actions like Copy S3 URI, Copy URL, Download, Open, Delete, Actions, Create folder, and Upload.

**Objects (2)**

Name	Type	Version ID	Last modified	Size	Storage class
sql practice2.txt	Delete marker	4lTrYsULnDWeCEP3cqt6DyoSSbDNn84P	August 7, 2025, 21:28:24 (UTC+05:30)	0 B	-
sql practice2.txt	txt	null	August 7, 2025, 21:26:57 (UTC+05:30)	2.1 KB	Standard

**Lifecycle rule configuration**

**Lifecycle rule name**

TransitionToGlacierAfter30Days

Up to 255 characters

Choose a rule scope

- Limit the scope of this rule using one or more filters
- Apply to all objects in the bucket

**Apply to all objects in the bucket**

If you want the rule to apply to specific objects, you must use a filter to identify those objects. Choose "Limit the scope of this rule using one or more filters". [Learn more](#)

I acknowledge that this rule will apply to all objects in the bucket.

**Lifecycle rule actions**

Choose the actions you want this rule to perform.

- Transition current versions of objects between storage classes  
This action will move current versions.
- Transition noncurrent versions of objects between storage classes  
This action will move noncurrent versions.
- Expire current versions of objects
- Permanently delete noncurrent versions of objects
- Delete expired object delete markers or incomplete multipart uploads  
These actions are not supported when filtering by object tags or object key.

The screenshot shows the AWS S3 console under the 'Lifecycle rule design' tab. A new lifecycle rule is being created for bucket 'day3bucket2234'. The rule specifies transitioning objects from 'Glacier Flexible Retrieval (formerly Glacier)' storage class to 'Glacier' after 30 days. A note at the top states that objects less than 128KB will not transition across storage classes.

**Transition current versions of objects between storage classes**

Choose transitions to move current versions of objects between storage classes based on your use case scenario and performance access requirements. These transitions start from when the objects are created and are consecutively applied. [Learn more](#)

**Choose storage class transitions**

Storage Class	Days after object creation	Action
Glacier Flexible Retrieval (formerly Glacier)	30	<a href="#">Remove</a>

[Add transition](#)

**Review transition and expiration actions**

Current version actions	Noncurrent versions actions
<b>Day 0</b> Objects uploaded	<b>Day 0</b> No actions defined.
<b>Day 30</b>	<b>Day 30</b> Objects move to Glacier Flexible Retrieval (formerly Glacier)

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The screenshot shows the AWS S3 console under the 'Lifecycle configuration' tab. A success message indicates that the rule 'TransitionToGlacierAfter30Days' has been successfully added and the lifecycle configuration has been updated. The rule is listed in the 'Lifecycle rules' section, which contains one rule named 'TransitionToGlacierAfter30Days'.

**Lifecycle configuration**

To manage your objects so that they are stored cost effectively throughout their lifecycle, configure their lifecycle. A lifecycle configuration is a set of rules that define actions that Amazon S3 applies to a group of objects. Lifecycle rules run once per day.

**Default minimum object size for transitions**  
All storage classes 128K

**Lifecycle rules (1)**

Lifecycle rule name	Status	Scope	Current version actions	Noncurrent version actions	Expired object delete...	Incomplete multipart...
TransitionToGlacierAfter30Days	Enabled	Entire bucket	Transition to Glacier Flexible	-	-	-

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The screenshot shows the 'Edit requester pays' configuration page for a bucket named 'day3bucket2234'. The 'Requester pays' section is open, showing two options: 'Disable' (Bucket owner pays) and 'Enable' (Requester will pay). The 'Enable' option is selected. A note below states: 'Requester will pay for requests and data transfer. While requester pays is enabled, anonymous access to this bucket is disabled.' At the bottom right are 'Cancel' and 'Save changes' buttons.

## Conclusion:

- Glacier Deep Archive offers **huge savings** if data access is rare.
- One Zone-IA balances cost and retrieval time but has **lower availability**.
- Standard is only cost-effective if data is **accessed regularly**.