

S3 Bucket creation

You work for XYZ Corporation. Their application requires a storage service that can store files and publicly share them if required. Implement S3 for the same.

Tasks To Be Performed:

- 1. Create an S3 Bucket for file storage.
- 2. Upload 5 objects with different file extensions.

Amazon S3 > Buckets

► Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

View Storage Lens dashboard

Buckets (2) [Info](#)

Buckets are containers for data stored in S3. [Learn more](#)

Copy ARN

Empty

Delete

Create bucket

Find buckets by name

	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	cf-templates-126txhh3ur0p8-us-east-1	US East (N. Virginia) us-east-1	<u>Bucket and objects not public</u>	October 31, 2023, 21:12:43 (UTC+05:30)
<input type="radio"/>	mysids3bucket	Europe (Stockholm) eu-north-1	<u>Objects can be public</u>	November 16, 2023, 14:16:53 (UTC+05:30)

Create bucket Info

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

Bucket name

sidaws-bucket

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

AWS Region

Europe (Stockholm) eu-north-1

Copy settings from existing bucket - *optional*
Only the bucket settings in the following configuration are copied.

Choose 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.

⚠️ 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.

- Object Ownership
- ☒ **Bucket owner preferred**
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.
- ☐ **Object writer**
The object writer remains the object owner.

ⓘ If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. [Learn more](#)

- ☒ **Bucket owner preferred**
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.
- ☐ **Object writer**
The object writer remains the object owner.
- ⓘ If you want to enforce object ownership for new objects only, your bucket policy must specify that the bucket-owner-full-control canned ACL is required for object uploads. [Learn more](#)**

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.
- ☐ **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

Tags - *optional* (0)
You can use bucket tags to track storage costs and organize buckets. [Learn more](#)

No tags associated with this bucket.

Add tag

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)
- ☐ Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)
Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the **Storage** tab of the [Amazon S3 pricing page](#).

Bucket Key

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

- ☐ Disable
- ☒ Enable

▼ Advanced settings

Object Lock

Store objects using a write-once-read-many (WORM) model to help you prevent objects from being deleted or overwritten for a fixed amount of time or indefinitely. Object Lock works only in versioned buckets. [Learn more](#)

- ☒ Disable
- ☐ Enable

Permanently allows objects in this bucket to be locked. Additional Object Lock configuration is required in bucket details after bucket creation to protect objects in this bucket from being deleted or overwritten.

[i](#) Object Lock works only in versioned buckets. Enabling Object Lock automatically enables Versioning.

[i](#) After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.

Cancel

Create bucket

[Amazon S3](#) > Buckets

► Account snapshot

[View Storage Lens dashboard](#)

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

Buckets (2) [Info](#)



[Copy ARN](#)

Empty

Delete

Create bucket

Buckets are containers for data stored in S3. [Learn more](#)

< 1 >

	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	cf-templates-126txhh3urOp8-us-east-1	US East (N. Virginia) us-east-1	Bucket and objects not public	October 31, 2023, 21:12:43 (UTC+05:30)
<input type="radio"/>	mysids3bucket	Europe (Stockholm) eu-north-1	Objects can be public	November 16, 2023, 14:16:53 (UTC+05:30)



Click this bucket

mysids3bucket Info

- Objects
- Properties
- Permissions
- Metrics
- Management
- Access Points

Objects (1)

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](#)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	wallpaperflare.com_wallpaper (5).jpg	jpg	November 16, 2023, 14:23:38 (UTC+05:30)	168.8 KB	Standard

Go on upload – add file –then upload

mysids3bucket Info

- Objects
- Properties
- Permissions
- Metrics
- Management
- Access Points

Objects (2)

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](#)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	ansible_node1.ppk	ppk	November 16, 2023, 14:27:18 (UTC+05:30)	1.4 KB	Standard
<input type="checkbox"/>	wallpaperflare.com_wallpaper (5).jpg	jpg	November 16, 2023, 14:23:38 (UTC+05:30)	168.8 KB	Standard

S3 Bucket Versioning

Problem Statement:

You work for XYZ Corporation. Their application requires a storage service that can store files and publicly share them if required. Implement S3 for the same.

Tasks To Be Performed:


1. Enable versioning for the bucket created in task 1.
2. Re-upload any 2 files already uploaded to verify if versioning works.

Bucket overview

AWS Region

Europe (Stockholm) eu-north-1

Amazon Resource Name (ARN)

 arn:aws:s3:::mysids3bucket

Creation date

November 16, 2023, 14:16:53 (UTC+05:30)

Bucket Versioning

Edit

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

Enabled

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

[Amazon S3](#) > [Buckets](#) > [mysids3bucket](#) > Edit Bucket Versioning

Edit Bucket Versioning [Info](#)

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



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

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

Cancel

Save changes

Reupload the same file again –enable show version

Objects

Properties

Permissions

Metrics

Management

Access Points

Objects (4)

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](#)



Copy S3 URI

Copy URL

Download

Open

Delete

Actions ▼

Create folder

Upload

Find objects by prefix

☒ Show versions

< 1 > ⚙

<input type="checkbox"/>	Name ▲	Type	Version ID	Last modified	Size	Storage class
<input type="checkbox"/>	ansible_node1.ppk	ppk	TqsACJEf2j. bNK4L3YoJi 6Tliv3VNA2 m	November 16, 2023, 14:36:49 (UTC+05:30)	1.4 KB	Standard
<input type="checkbox"/>	ansible_node1.ppk	ppk	null	November 16, 2023, 14:27:18 (UTC+05:30)	1.4 KB	Standard
<input type="checkbox"/>	wallpaperflare.com_wallpaper (5).jpg	jpg	bzfQupZl4y YxbnSX99d 3ew8MJDH qFGIS	November 16, 2023, 14:37:17 (UTC+05:30)	168.8 KB	Standard
<input type="checkbox"/>	wallpaperflare.com_wallpaper (5).jpg	jpg	null	November 16, 2023, 14:23:38 (UTC+05:30)	168.8 KB	Standard

S3 Website Hosting

Problem Statement:



You work for XYZ Corporation. Their application requires a storage service that can store files and publicly share them if required. Implement S3 for the same.

Tasks To Be Performed:

1. Use the created bucket in the previous task to host static websites, upload an index.html file and error.html page.
2. Add a lifecycle rule for the bucket:
 - a. Transition from Standard to Standard-IA in 60 days
 - b. Expiration in 200 days



Create two files index, error with statement this is an index and error file and save it as index.html file in notepad . Then upload these files in s3 bucket.

<input type="checkbox"/>	 error.html	html	November 16, 2023, 14:58:43 (UTC+05:30)	34.0 B	Standard
<input type="checkbox"/>	 index.html	html	November 16, 2023, 14:59:07 (UTC+05:30)	22.0 B	Standard

Go on properties – down below –static web hosting –edit – save changes

[Amazon S3](#) > [Buckets](#) > [mysids3bucket](#) > Edit static website hosting

Edit static website hosting [Info](#)

Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

☐ Disable

☒ Enable

Hosting type

☒ Host a static website
Use the bucket endpoint as the web address. [Learn more](#)

☐ Redirect requests for an object
Redirect requests to another bucket or domain. [Learn more](#)

i For your customers to access content at the website endpoint, you must make all your content publicly readable. To do so, you can edit the S3 Block Public Access settings for the bucket. For more information, see [Using Amazon S3 Block Public Access](#)

Index document
Specify the home or default page of the website.

Error document - optional
This is returned when an error occurs.

Redirection rules – optional
Redirection rules, written in JSON, automatically redirect webpage requests for specific content. [Learn more](#)

Static website hosting

[Edit](#)

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

Enabled

Hosting type

Bucket hosting

Bucket website endpoint

When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

 <http://mysids3bucket.s3-website.eu-north-1.amazonaws.com> ←

403 Forbidden

- Code: AccessDenied
- Message: Access Denied
- RequestId: T852PGQA04GPK9B2
- HostId: xaHnWXxEwU0gUff3EW3tIRsRie/eeM2lTH5DkFLPr/2751g8EgvoUoOKQpfZkmJtnaFYUB0G/NU=

An Error Occurred While Attempting to Retrieve a Custom Error Document

- Code: AccessDenied
 - Message: Access Denied
-

Objects (4)

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](#)

Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Find objects by prefix

Show versions

	Name	Type	Last modified		Storage class
<input type="checkbox"/>	ansible_node1.ppk	ppk	November 16, (UTC+05:30)		1.4 KB Standard
<input checked="" type="checkbox"/>	error.html	html	November 16, (UTC+05:30)		34.0 B Standard
<input type="checkbox"/>	index.html	html	November 16, (UTC+05:30)		22.0 B Standard
<input type="checkbox"/>	wallpaperflare.com_wallpaper (5).jpg	jpg	November 16, (UTC+05:30)		168.8 KB Standard

Copy

Move

Initiate restore

Query with S3 Select

Edit actions

Rename object

Edit storage class

Edit server-side encryption

Edit metadata

Edit tags

Make public using ACL

Make public [Info](#)

The make public action enables public read access in the object access control list (ACL) settings. [Learn more](#)

⚠ When public read access is enabled and not blocked by Block Public Access settings, anyone in the world can access the specified objects.

Specified objects

Find objects by name

Name	Type	Last modified	Size
error.html	html	November 16, 2023, 14:58:43 (UTC+05:30)	34.0 B


Cancel

Make public

Did same with both error and index.html file.



this is my index file



Start Course | Intellipaat x mysids3bucket - S3 bucket | S3 x mysids3bucket.s3-website.eu-n x +

← → ↻ ⚠ Not secure | mysids3bucket.s3-website.eu-north-1.amazonaws.com/sid

this is an error index.html page .

Objects	Properties	Permissions	Metrics	Management	Access Points
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Use lifecycle rules to define actions you want Amazon S3 to take during an object's lifetime such as transitioning objects to another storage class, archiving them, or deleting them after a specified period of time. [Learn more](#)



[View details](#)

[Edit](#)

[Delete](#)

[Actions](#)


[Create lifecycle rule](#)

Lifecycle rule name	Status	Scope	Current version actions	Noncurrent versions actions	Expired object delete markers	Incomplete multipart uploads
<div>No lifecycle rules</div> <div>There are no lifecycle rules for this bucket.</div> <div>Create lifecycle rule</div>						

Create lifecycle rule [Info](#)

Lifecycle rule configuration

Lifecycle rule name

sid-lifecycle-rule1

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. Per-request fees apply. [Learn more](#) or see [Amazon S3 pricing](#)

- ☒ Move current versions of objects between storage classes
- ☐ Move noncurrent versions of objects between storage classes
- ☐ 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 size.

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

Standard-IA

Days after object creation

30

Remove

Add transition

Review transition and expiration actions

Current version actions

Day 0

- Objects uploaded



Day 30

- Objects move to Standard-IA

Noncurrent versions actions

Day 0

No actions defined.

Cancel

Create rule



✔ The lifecycle configuration was updated. Lifecycle rule "sid-lifecycle-rule1" was successfully added.
It may take some time for the configuration to be updated. Press the refresh button if changes to the rule are not displayed.



[Amazon S3](#) > [Buckets](#) > [mysids3bucket](#) > Lifecycle configuration

Lifecycle configuration [Info](#)

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.

Lifecycle rules (1)

Use lifecycle rules to define actions you want Amazon S3 to take during an object's lifetime such as transitioning objects to another storage class, archiving them, or deleting them after a specified period of time. [Learn more](#)

↻

View details

Edit

Delete

Actions ▼

Create lifecycle rule

🔍 Find lifecycle rules by name

< 1 > ⚙️

	Lifecycle rule name ▼	Status ▼	Scope ▼	Current version actions ▼	Noncurrent versions actions ▼	Expired object delete markers ▼	Incomplete multipart uploads ▼
<input type="radio"/>	sid-lifecycle-rule1	✔ Enabled	Entire bucket	Transition to Standard-IA	-	-	-