

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

Creating bucket:

The screenshot shows the AWS S3 console under the 'Directory buckets' tab. A green success message at the top states: "Successfully created directory bucket 'xyz-corp-storage-bucket--use1-az6--x-s3'. Next, add data to your directory bucket. For a simplified way to copy objects from an existing general purpose bucket to this directory bucket using Batch Operations, choose Import. To upload files and folders from outside of S3, or to configure additional bucket settings, choose View details." Below the message, there is a table with one row for the newly created bucket. The bucket name is "xyz-corp-storage-bucket--use1-az6--x-s3", the location type is "Availability Zone", the location name is "US East (N. Virginia) use1-az6", and the creation date is "September 2, 2025, 21:28:12 (UTC+05:30)".

Now i want to upload 5 objects

The screenshot shows the AWS S3 console under the 'Objects' tab for the bucket "xyz-corp-storage-bucket--use1-az6--x-s3". The left sidebar shows navigation options like 'Amazon S3', 'General purpose buckets', and 'Storage Lens'. The main area displays a table with zero objects. The table has columns for 'Name', 'Type', 'Last modified', 'Size', and 'Storage class'. A message at the bottom of the table says, "No objects. You don't have any objects in this bucket." The top of the page includes standard AWS navigation and search tools.

The screenshot shows the AWS S3 'Upload' interface. At the top, there's a search bar and navigation links for 'Amazon S3 > Buckets > syz-corp-storage-bucket--use1-az6--x-s3 > Upload'. The main area is titled 'Upload' with a 'Info' link. It says 'Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDKs or Amazon S3 REST API. Learn more.' Below this is a large dashed blue box for dragging files. A table titled 'Files and folders (5 total, 3.2 KB)' lists the uploaded files:

Name	Folder	Type	Size
notes.txt	-	text/plain	33.0 B
script.js	-	text/javascript	50.0 B
data.csv	-	text/csv	70.0 B
photo.jpg	-	image/jpeg	1.6 KB
report.pdf	-	application/pdf	1.4 KB

Buttons for 'Remove', 'Add files', and 'Add folder' are at the top right. Below the table is a success message: 'Upload succeeded. For more information, see the Files and folders table.' A 'Close' button is at the top right of this message. The 'Upload: status' section shows a summary table:

Destination	Succeeded	Failed
s3://syz-corp-storage-bucket--use1-az6--x-s3	5 files, 3.2 KB (100.00%)	0 files, 0 B (0%)

Below this are tabs for 'Files and folders' and 'Configuration'. The 'Files and folders' tab shows the same list of files with an additional column 'Status' all marked as 'Succeeded'.

I have uploaded 5 different objects

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.

The screenshot shows the AWS S3 Buckets page. A green success message at the top states: "Successfully created bucket 'ankith-bucket1211'. To upload files and folders, or to configure additional bucket settings, choose View details." Below this, there are two tabs: "General purpose buckets" (selected) and "Directory buckets". Under "General purpose buckets", there is a table with one row for "ankith-bucket1211". The table columns include Name, AWS Region, and Creation date. The bucket was created on September 2, 2025, at 22:07:43 (UTC+05:30). On the right side of the page, there are three cards: "Account snapshot" (info), "External access summary - new" (info), and "Amazon Lens" (info).

The screenshot shows the "Edit Bucket Versioning" configuration page. It includes sections for "Bucket Versioning" (described as a means of keeping multiple variants of an object in the same bucket), "Bucket Versioning" status (set to "Enable"), and "Multi-factor authentication (MFA) delete" (disabled). At the bottom, there are "Cancel" and "Save changes" buttons.

The screenshot shows the "Upload: status" page. It displays a summary table with two rows: "Succeeded" (2 files, 1.4 KB (100.00%)) and "Failed" (0 files, 0 B (0%)). Below this, there is a "Files and folders" section showing a table with two items: "notes.txt" (text/plain, 53.0 B, Status: Succeeded) and "report.pdf" (application/pdf, 1.4 KB, Status: Succeeded). The table has columns for Name, Folder, Type, Size, Status, and Error.

Verifying Versioning

The screenshot shows the "Objects" page for the "ankith-bucket1211" bucket. The table lists eight objects: "data.csv", "notes.txt", "notes.txt", "photo.jpg", "report.pdf", "report.pdf", "script.js", and "script.js". Each object has a "Last modified" timestamp, size, and storage class. For example, "notes.txt" has two versions: one from September 2, 2025, at 22:10:32 (size 33.0 B) and another from September 2, 2025, at 22:08:35 (size 33.0 B). The "Actions" column includes options like Copy S3 URI, Copy URL, Download, Open, Delete, and Create folder.

3) 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

The screenshots illustrate the configuration and upload process for a static website hosted on an AWS S3 bucket.

Edit static website hosting (Top Screenshot):

- Static website hosting:** Enabled.
- Hosting type:** Host a static website (selected).
 - Use the bucket endpoint as the web address.
 - Redirect requests to another bucket or domain.
- Index document:** index.html
- Error document - optional:** error.html

Upload (Bottom Screenshot):

- Upload info:** Add files and folders to upload to S3.
- Files and folders:** 2 total, 861.0 B.

Name	Folder	Type	Size
error.html	-	text/html	444.0 B
index.html	-	text/html	417.0 B
- Destination info:** Destination is s3://ankith-bucket1211.
- Permissions:** Grant public access and access to other AWS accounts.
- Properties:** Specify storage class, encryption settings, tags, and more.
- Buttons:** Cancel, Upload.

The screenshot shows the AWS S3 'Upload: status' page. A green success message at the top says 'Upload succeeded'. Below it, a summary table shows 'Succeeded' (2 files, 861.0 B (100.00%)) and 'Failed' (0 files, 0 B (0%)). Under 'Files and folders', there is a table listing 'error.html' and 'index.html' both with a status of 'Succeeded'.

The screenshot shows the 'Bucket policy' section of the AWS S3 console. A green success message says 'Successfully edited bucket policy.' Below it, a note says 'Individual Block Public Access settings for this bucket'. The JSON policy code is displayed:

```
{ "Version": "2012-10-17", "Statement": [ { "Sid": "PublicReadGetObject", "Effect": "Allow", "Principal": "*", "Action": "s3:GetObject", "Resource": "arn:aws:s3:::ankith-bucket1211/*" } ] }
```

Index.html: <http://ankith-bucket1211.s3-website-us-east-1.amazonaws.com>

The screenshot shows a web browser displaying the home page of the static website. The title is 'Welcome to XYZ Corporation' with a small logo. Below it, a message says 'This is the home page hosted on Amazon S3 Static Website Hosting.'

Invalid link:<http://ankith-bucket1211.s3-website-us-east-1.amazonaws.com/xyz.html>

The screenshot shows a web browser displaying a 404 error page. The title is 'Oops! Page Not Found' with a red X icon. Below it, a message says 'The page you are looking for doesn't exist. Please go back to the [home page](#)'.

Add a Lifecycle Rule:

Screenshot of the AWS S3 console showing the Management tab for the bucket 'ankith-bucket1211'. The 'Lifecycle configuration' section is displayed, showing a table with columns: Lifecycle rule name, Status, Scope, Current version actions, Noncurrent versions acti..., Expired object delete ma..., and Incomplete multipart up.... A button 'Create lifecycle rule' is visible.

Screenshot of the AWS S3 console showing the 'Create lifecycle rule' page. The 'Lifecycle rule configuration' section includes fields for 'Lifecycle rule name' (set to 'TransitionAndExpire') and 'Choose a rule scope' (set to 'Apply to all objects in the bucket'). A note states: '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](#)'.

Screenshot of the 'Create lifecycle rule' page showing the 'Lifecycle rule actions' section. It lists several actions: Transition current versions of objects between storage classes (checked), Transition noncurrent versions of objects between storage classes (unchecked), Expire current versions of objects (checked), Permanently delete noncurrent versions of objects (unchecked), and Delete expired object delete markers or incomplete multipart uploads (unchecked). A note states: 'These actions are not supported when filtering by object tags or object keys.' A warning box notes: 'Transitions are charged per request' and 'I acknowledge that this lifecycle rule will incur a transition cost per request.'

Screenshot of the 'Create lifecycle rule' page showing the 'Transition current versions of objects between storage classes' section. It shows a table with 'Choose storage class transitions' (Standard-IA) and 'Days after object creation' (60). A note states: '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](#)'. A 'Remove' button is present. Below this is the 'Expire current versions of objects' section, which notes: 'For version-enabled buckets, Amazon S3 adds a delete marker and the current version of an object is retained as a noncurrent version. For non-versioned buckets, Amazon S3 permanently removes the object. [Learn more](#)'. A 'Days after object creation' field is set to 200. The 'Review transition and expiration actions' section contains two tables: 'Current version actions' (Day 0: Objects uploaded; Day 60: Objects move to Standard-IA; Day 200: Objects expire) and 'Noncurrent versions actions' (Day 0: No actions defined).

The rule "TransitionAndExpire" has been successfully added and the lifecycle configuration has been updated. It may take some time for the configuration to be updated. Refresh the lifecycle rules list if changes to the configuration aren't displayed.

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)

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](#)

Lifecycle rule name	Status	Scope	Current version actions	Noncurrent versions actions	Expired object delete ...	Incomplete multipart u...
TransitionAndExpire	Enabled	Entire bucket	Transition to Standard-IA, then -	-	-	-

TransitionAndExpire

Lifecycle rule configuration

Lifecycle rule name: TransitionAndExpire
Status: Enabled
Scope: Entire bucket

Prefix: -
Object tags: -

Minimum object size:
When no minimum object size is specified, the minimum object size for transitions is determined by the lifecycle configuration. [Learn more](#)

Maximum object size: -

Review transition and expiration actions

Current version actions

Day 0
• Objects uploaded
↓
Day 60
• Objects move to Standard-IA.
↓
Day 200
• Objects expire

Noncurrent versions actions

Day 0
No actions defined.

Delete expired object delete markers or incomplete multipart uploads

Expired object delete markers: -
Incomplete multipart uploads: -