AWS Solutions Architect Training

IntelliPaat

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

---

https://us-east-1.console.aws.amazon.com/s3/bucket/s3-bucket-3rd-aug/property/website/edit?region=us-east-1&bucketType=general

Amazon S3 > Buckets > s3-bucket-3rd-aug > 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

ⓘ 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.

index.html

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

error.html

© 2025, Amazon Web Services, Inc. or its affiliates.   Privacy   Terms   Cookie preferences

First screenshot:

Amazon S3 > Buckets > s3-bucket-3rd-aug

Requester pays   Edit

When enabled, the requester pays for requests and data transfer costs, and anonymous access to this bucket is disabled. Learn more

Requester pays
Disabled

Static website hosting   Edit

Use this bucket to host a website or redirect requests. Learn more

ⓘ **We recommend using AWS Amplify Hosting for static website hosting**
Deploy a fast, secure, and reliable website quickly with AWS Amplify Hosting. Learn more about Amplify Hosting or View your existing Amplify apps   Create Amplify app

S3 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://s3-bucket-3rd-aug.s3-website-us-east-1.amazonaws.com

s3-bucket-3rd-aug.s3-website-us-east-1.amazonaws.com

28°C
Rain showers

Q Search

ENG
IN   15:17
03-08-2025

Second screenshot:

Amazon S3 > Buckets > s3-bucket-3rd-aug > Edit bucket policy

Edit bucket policy Info

Bucket policy   Policy examples   Policy generator

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more

Policy generator, Opens in a new tab

Bucket ARN
arn:aws:s3:::s3-bucket-3rd-aug

Policy

1

Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

+ Add new statement

https://awspolicygen.s3.amazonaws.com/policygen.html

28°C
Rain showers

Q Search

ENG
IN   15:20
03-08-2025

First screenshot

AWS Policy Generator — https://awspolicygen.s3.amazonaws.com/policygen.html

aws — Browser Default ▼ — AWS

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, key concepts in Using AWS Identity and Access Management.

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 VPC Endpoint Policy, and an SQS Queue Policy.

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
- ○ Deny

Principal

[ ]

Use a comma to separate multiple values.

Actions
- ☐ All Actions ("*")

–Select Actions– ▼

28°C Light rain — Q Search — ENG IN — 15:30 03-08-2025

Second screenshot

AWS Policy Generator — https://awspolicygen.s3.amazonaws.com/policygen.html

Actions
- ☐ All Actions ("*")

–Select Actions– ▼

Amazon Resource Name (ARN)
- ☐ All Resources ("*")

[ ]

ARN should follow the following format: arn:aws:s3:::${BucketName}/${KeyName}. Use a comma to separate multiple values.

▶ Add conditions (optional)

[Add Statement]

Statements added (1)

You added the following statements. Click the button below to Generate a policy.

Principal(s)	Effect	Action	Resource(s)	Condition(s)	Remove
*	Allow	s3:GetObject	*	None	Remove

Step 3: Generate policy

A policy is a document (written in the Access Policy Language) that acts as a container for one or more statements.

[Generate Policy]

28°C Light rain — Q Search — ENG IN — 15:30 03-08-2025

Policy JSON Document ✕

Click below to edit. To save the policy, copy the text below to a text editor. Changes made below will **not be reflected in the policy generator tool.**

```
 1    {
 2      "Version": "2012-10-17",
 3      "Statement": [
 4        {
 5          "Sid": "Statement1",
 6          "Effect": "Allow",
 7          "Principal": "*",
 8          "Action": [
 9            "s3:GetObject"
10          ],
11          "Resource": "*"
12        }
13      ]
14    }
```

1:1   JSON

This AWS Policy Generator is provided for informational purposes only, you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in compliance with all applicable terms and conditions. This AWS Policy Generator is provided as is without warranty of any kind, whether express, implied, or statutory. This AWS Policy Generator does not modify the applicable terms and conditions governing your use of Amazon Web Services technologies.

Close   📋 Copy Policy

Amazon S3 > Buckets > s3-bucket-3rd-aug > Edit bucket policy

Bucket policy

Policy examples 🔗   Policy generator 🔗

The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more 🔗

Bucket ARN
📋 arn:aws:s3:::s3-bucket-3rd-aug

Policy

```
 1    {
 2      "Version": "2012-10-17",
 3      "Statement": [
 4        {
 5          "Sid": "Statement1",
 6          "Effect": "Allow",
 7          "Principal": "*",
 8          "Action": [
 9            "s3:GetObject"
10          ],
11          "Resource": "arn:aws:s3:::s3-bucket-3rd-aug/*"
12        }
13      ]
14    }
```
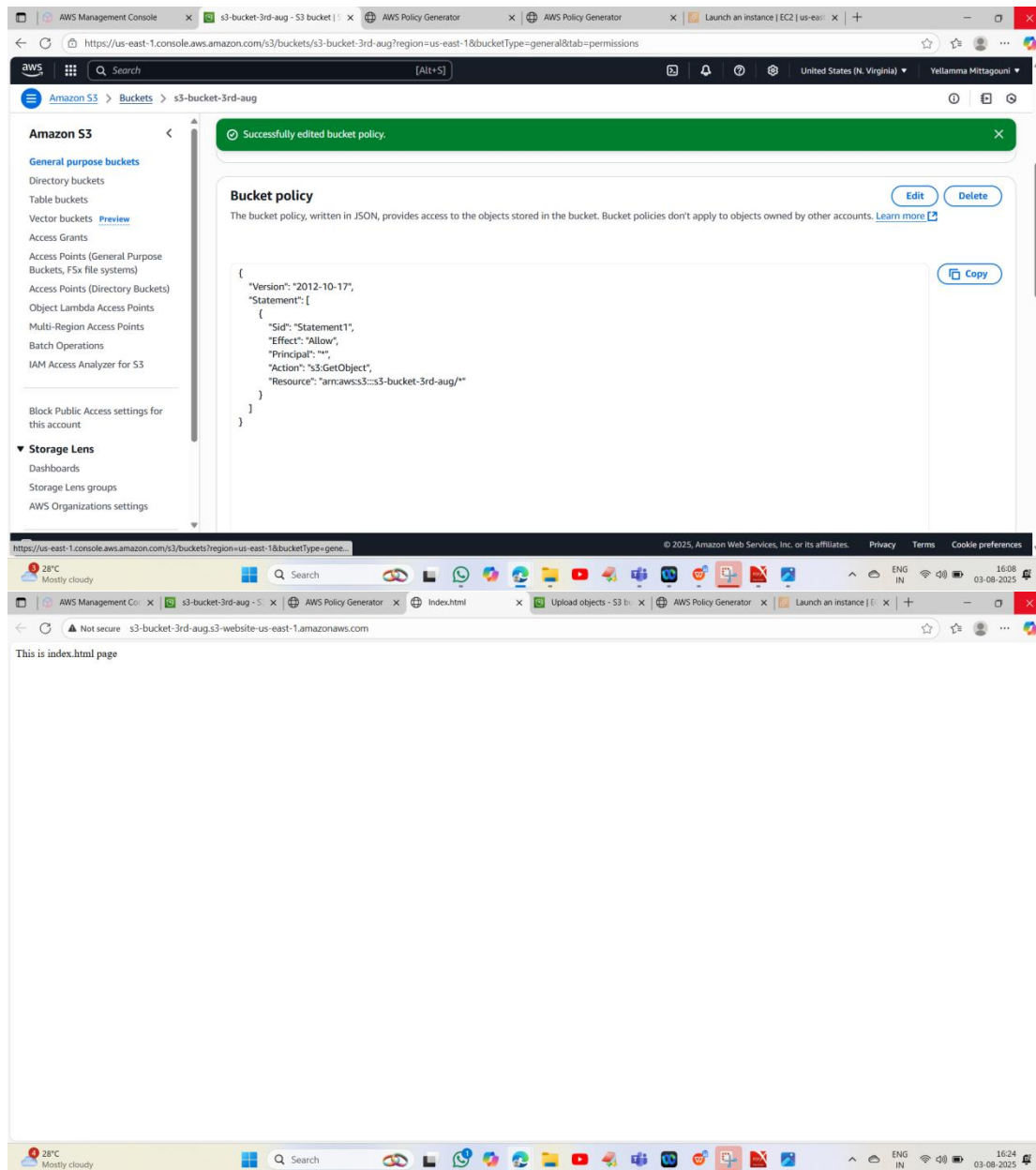
Edit statement
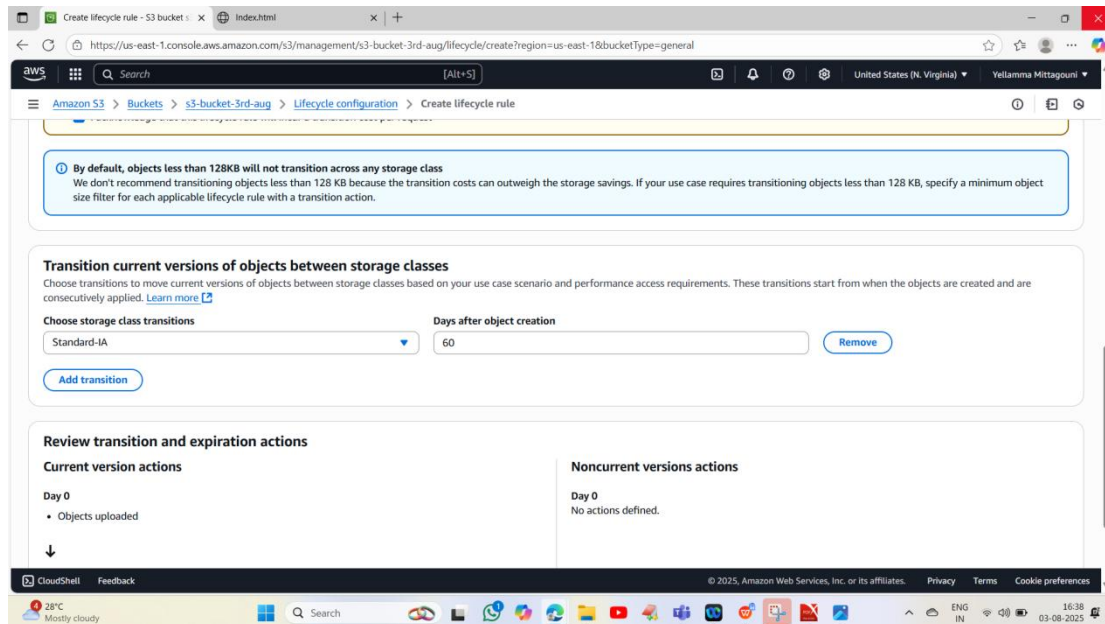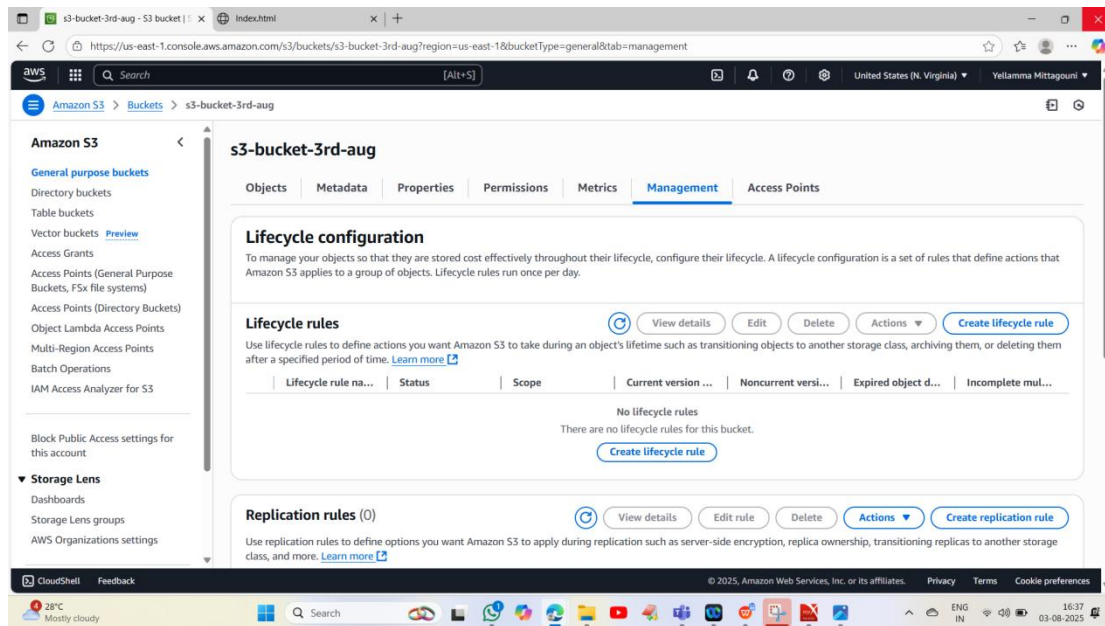
Select a statement

Select an existing statement in the policy or add a new statement.

+ Add new statement

2. Add a lifecycle rule for the bucket:
   a. Transition from Standard to Standard-IA in 60 days
   b. Expiration in 200 days

Amazon S3

- General purpose buckets
- Directory buckets
- Table buckets
- Vector buckets Preview
- Access Grants
- Access Points (General Purpose Buckets, FSx file systems)
- Access Points (Directory Buckets)
- Object Lambda Access Points
- Multi-Region Access Points
- Batch Operations
- IAM Access Analyzer for S3

Block Public Access settings for this account

▼ **Storage Lens**
- Dashboards
- Storage Lens groups
- AWS Organizations settings

s3-bucket-3rd-aug

Objects | Metadata | Properties | Permissions | Metrics | **Management** | Access Points

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.

Lifecycle rules

View details | Edit | Delete | Actions ▼ | **Create lifecycle rule**

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 na...	Status	Scope	Current version ...	Noncurrent versi...	Expired object d...	Incomplete mul...

No lifecycle rules
There are no lifecycle rules for this bucket.

Create lifecycle rule

Replication rules (0)

View details | Edit rule | Delete | Actions ▼ | **Create replication rule**

Use replication rules to define options you want Amazon S3 to apply during replication such as server-side encryption, replica ownership, transitioning replicas to another storage class, and more. Learn more ⧉

ⓘ **By default, objects less than 128KB will not transition across any storage class**
We don't recommend transitioning objects less than 128 KB because the transition costs can outweigh the storage savings. If your use case requires transitioning objects less than 128 KB, specify a minimum object size filter for each applicable lifecycle rule with a transition action.

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   **Days after object creation**

Standard-IA ▼   60   Remove

Add transition

Review transition and expiration actions

Current version actions   **Noncurrent versions actions**

Day 0   **Day 0**
- Objects uploaded   No actions defined.

↓

aws   Q Search   [Alt+S]   United States (N. Virginia) ▼   Yellamma Mittagouni ▼

≡   Amazon S3 > Buckets > s3-bucket-3rd-aug > Lifecycle configuration > Create lifecycle rule

Expire current versions of objects

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 ↗

Days after object creation

```
200
```

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.

28°C Mostly cloudy   Q Search   ENG IN   16:40 03-08-2025

---

aws   Q Search   [Alt+S]   United States (N. Virginia) ▼   Yellamma Mittagouni ▼

≡   Amazon S3 > Buckets > s3-bucket-3rd-aug > Lifecycle configuration

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)

View details   Edit   Delete   Actions ▼   Create lifecycle rule

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 ↗

Q Find lifecycle rules by name   ‹ 1 ›

	Lifecycle rule name ▽	Status ▽	Scope ▽	Current version acti... ▽	Noncurrent versions... ▽	Expired object delet... ▽	Incomplete multipar... ▽
○	my-bucket-life-policy	⊘ Enabled	Filtered	Transition to Standard-IA, the -	-	-	-

28°C Mostly cloudy   Q Search   ENG IN   16:41 03-08-2025

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
-