📨 Automated Image Resizing and Transfer System Using AWS Services

📌 Project Description

The project develops an **Automated Image Processing** system within AWS, enabling efficient image handling by automatically resizing and transferring images to designated storage. It ensures real-time notifications for stakeholders on processing and transfers. The workflow is seamlessly integrated with **AWS services like Lambda, S3, and SNS.**
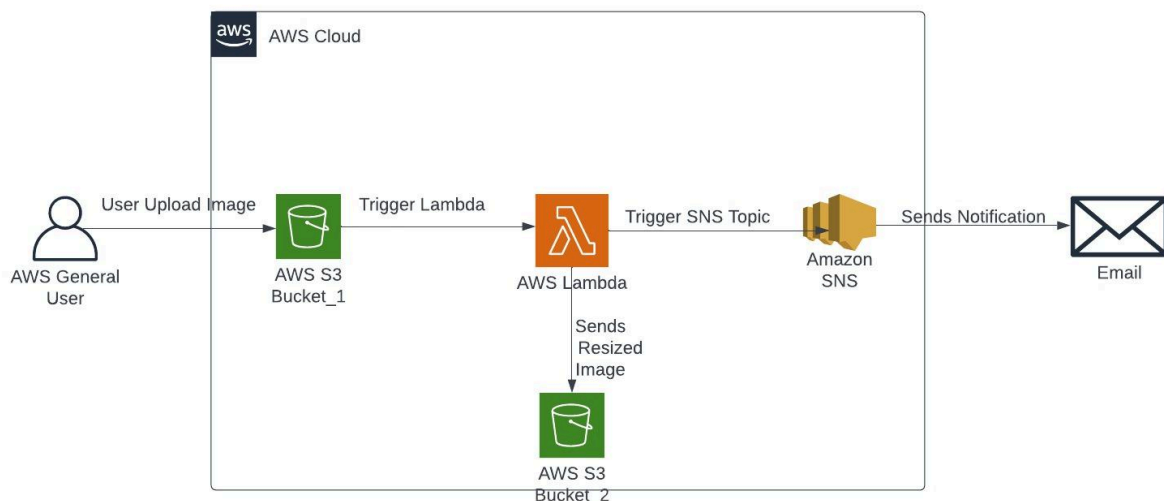
✅ Key Features

- **Automated Image Processing** – Automatically resizes and optimizes images upon upload.
- **Secure Storage** – Processes and securely stores images in an AWS S3 bucket.
- **Real-time Notifications** – Sends instant updates via AWS SNS.
- **Scalable Architecture** – Handles high-volume image processing efficiently.
- **Cost-effective Solution** – Utilizes AWS Lambda and other services to minimize costs.
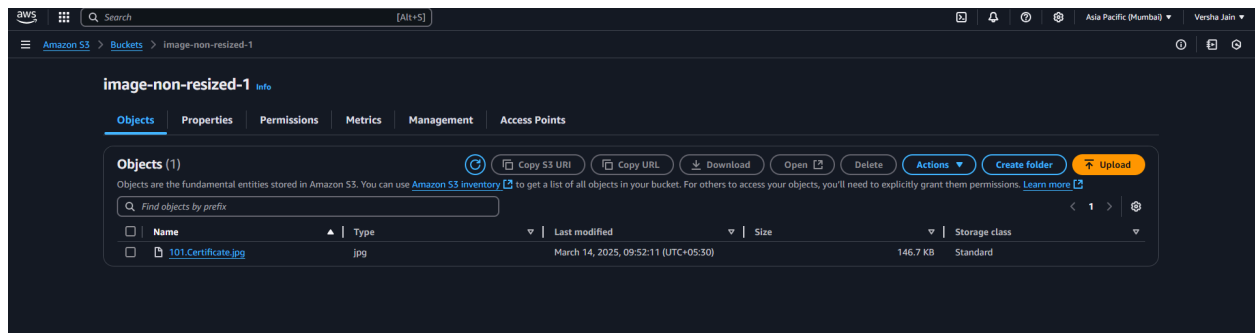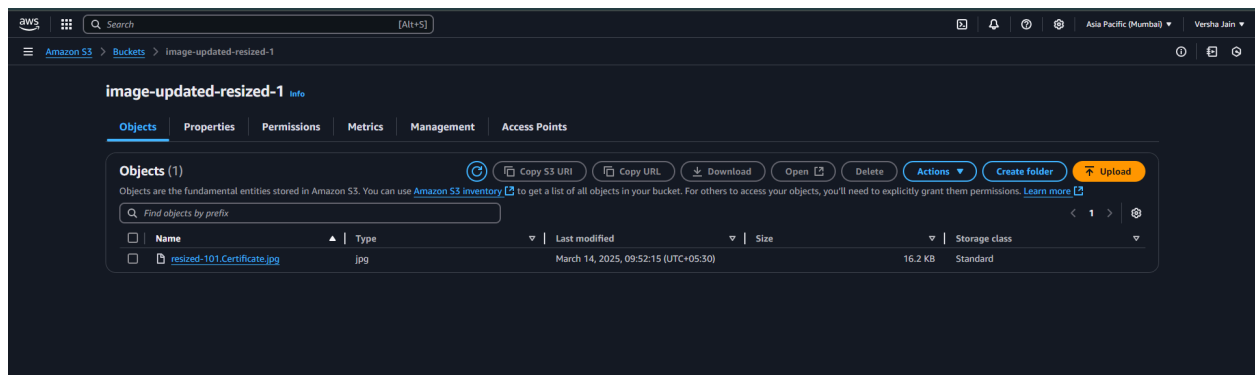
📊 Overview

This system automates the image resizing workflow using AWS services. Upon uploading an image to a source S3 bucket, a Lambda function resizes it and stores the processed image in a destination bucket. The system also sends SNS notifications upon successful processing.

🪣 Source_Bucket

🪣Destination_Bucket

🪣 Received_email

AWS Image Resizing Notification Inbox ×

AWS Notifications <no-reply@sns.amazonaws.com>   09:52 (4 minutes ago)
to me ▾

Image Processing Completed!

Original Image: 101.Certificate.jpg
Resized Image: resized-101.Certificate.jpg
Stored in bucket: image-updated-resized-1

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https://sns.ap-south-1.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:ap-south-1:390402569672:image-resizing-topic:a2a5d2d7-6b7a-4912-92f3-c317f8fe595c&Endpoint=kartikk.creative@gmail.com

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✅ Outcome:
- The image uploaded with (146.7 KB) was resized to 16.2 KB, and a confirmation was received on Email 📩.