Use case

Use case Description

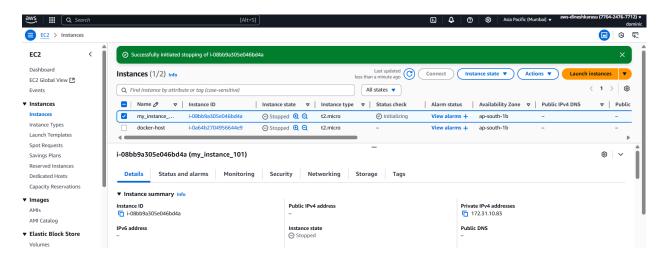
Serverless Image Processing

Upload images to S3, process with Lambda (resize), store in another bucket.

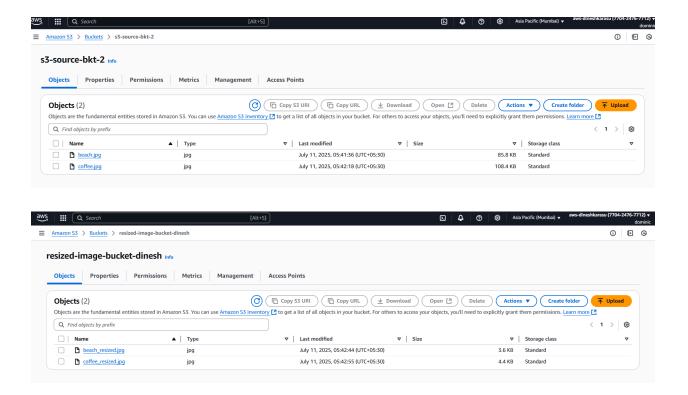
Approach:

- Create two S3 Buckets one for original file uploads and the other for storing resized images
- Create a Lambda function and assign permissions
- 3. Code Lambda in a way that it reads the file uploaded to first bucket and uploads the compressed image to second image
- 4. Add a new layer to import Pillow package where we use built in function to resize the image
- 5. Create an EC2 instance and install python 3.12, necessary dependencies for pillow
- 6. Zlp the files and SCP into your local machine
- 7. Create and attach the layer to Lambda function
- Run and test

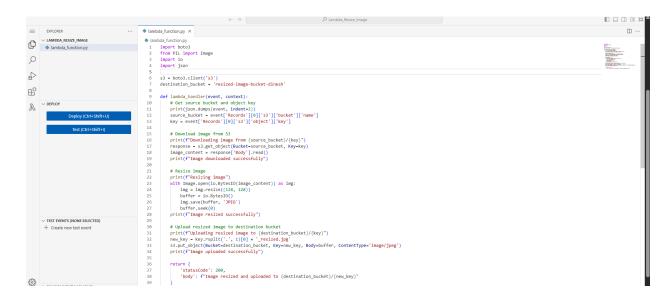
Create an EC2 instance



Create two S3 buckets - source (to store original file) and destination bucket(to store resized files)



Create Lambda



SSH into that instance

```
C:\Users\dkarasu\desktop\AWSCloudPractitioner\KeyPairs> ssh -i .\MumbaiRegion.pem ec2-user@65.2.153.4
     ####
                Amazon Linux 2023
    \ ####"
        \#/
                https://aws.amazon.com/linux/amazon-linux-2023
[ec2-user@ip-172-31-10-83 ~]$ sudo dnf install python3.12 python3.12-pip -y
Amazon Linux 2023 Kernel Livepatch repository
                                                                     161 kB/s | 17 kB
                                                                                      00:00
Dependencies resolved.
       Version
                                                                      Repository
                          Architecture
     nstalling:
                                          3.12.10-2.amzn2023.0.2
23.2.1-4.amzn2023.0.2
                                                                      amazonlinux
amazonlinux
                           x86_64
                                                                                         2.8
     3.12-pip
                           noarch
Installing dependencies:
```

```
[ec2-user@ip-172-31-10-83 pillow-layer]$ exit
logout
Connection to 65.2.153.4 closed.
PS C:\Users\dkarasu\desktop\AWSCloudPractitioner\KeyPairs> scp -i .\MumbaiRegion.pem ec2-user@65.2.153.4:/home/ec2-user/
pillow-layer/pillow-layer.zip .
pillow-layer.zip
PS C:\Users\dkarasu\desktop\AWSCloudPractitioner\KeyPairs> |
```

