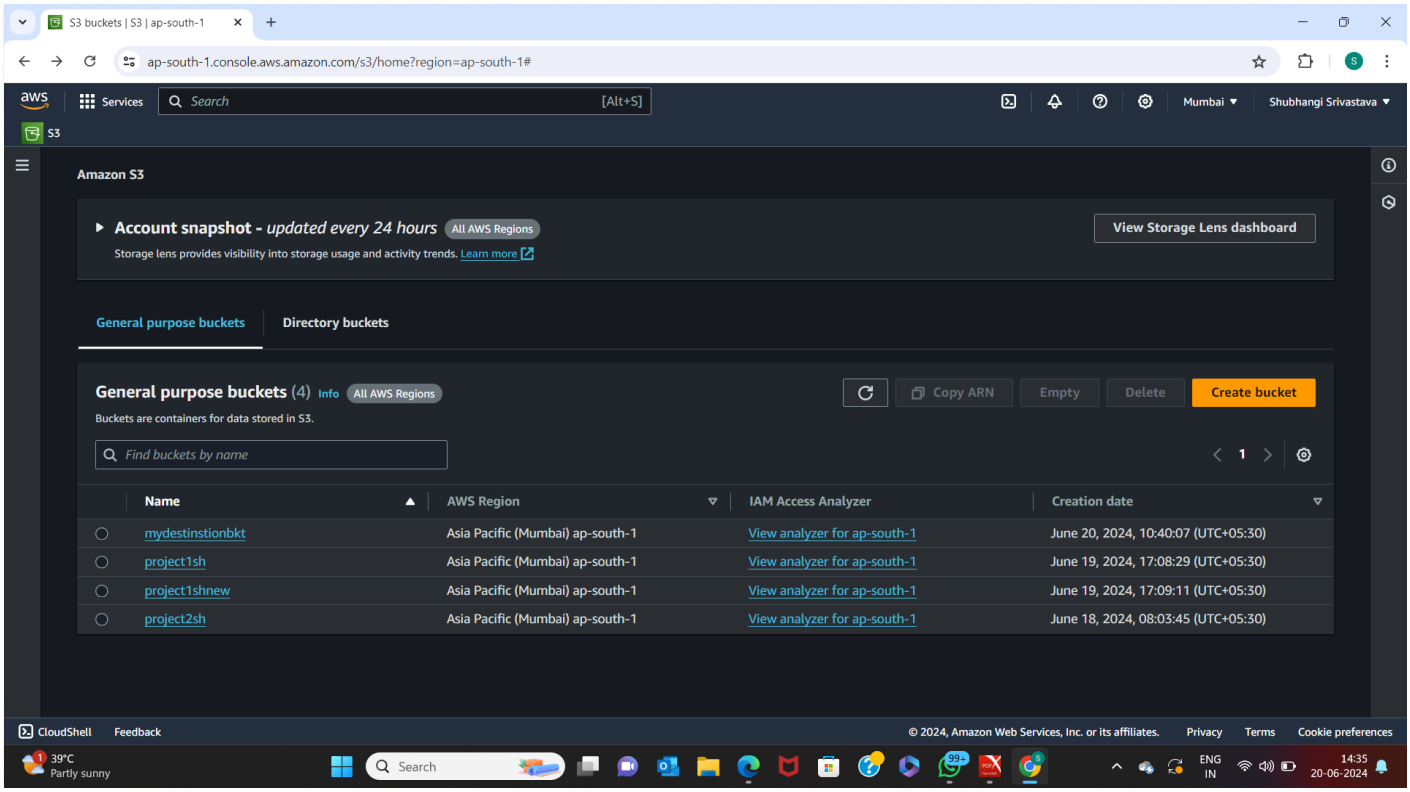
PROJECT-1

SERVERLSS IMAGE PROCESSING

We are recising an image by using Amazon S3 and node.js

Step 1- Create a bucket by giving any suitable name which is called as source bucket.

Create another bucket which is called as destination bucket.



Step 2- Upload an image on the source bucket.

Step 3- Create a lambda function and select run time as Nodejs18x.

Step 4- Go to IAM dashboard.

(a) Create a policy by using json by using a code which is as follows-

```
{
   "Version": "2012-10-17",
   "Statement": [
      {
         "Effect": "Allow",
         "Action": [
            "logs:PutLogEvents",
            "logs:CreateLogGroup",
            "logs:CreateLogStream"
         ],
         "Resource": "arn:aws:logs:*:*:*"
      },
      {
         "Effect": "Allow",
         "Action": ["s3:GetObject"],
         "Resource": "arn:aws:s3:::myshambucketsource/*"
      },
      {
         "Effect": "Allow",
         "Action": ["s3:PutObject"],
         "Resource": "arn:aws:s3:::myshambucketdestination/*"
      }
   ]
}
```

Click on next and give a suitable policy name, after it policy will be created.

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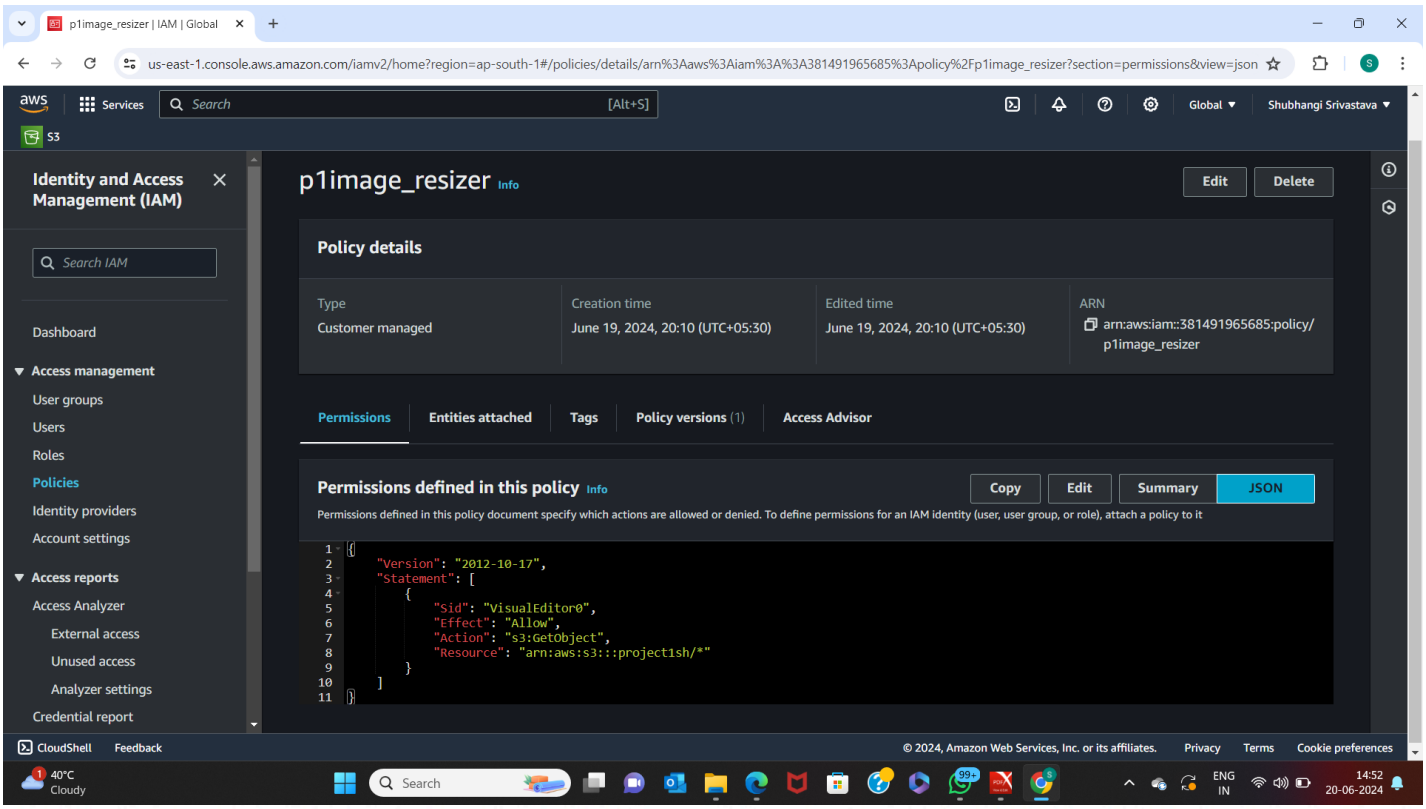
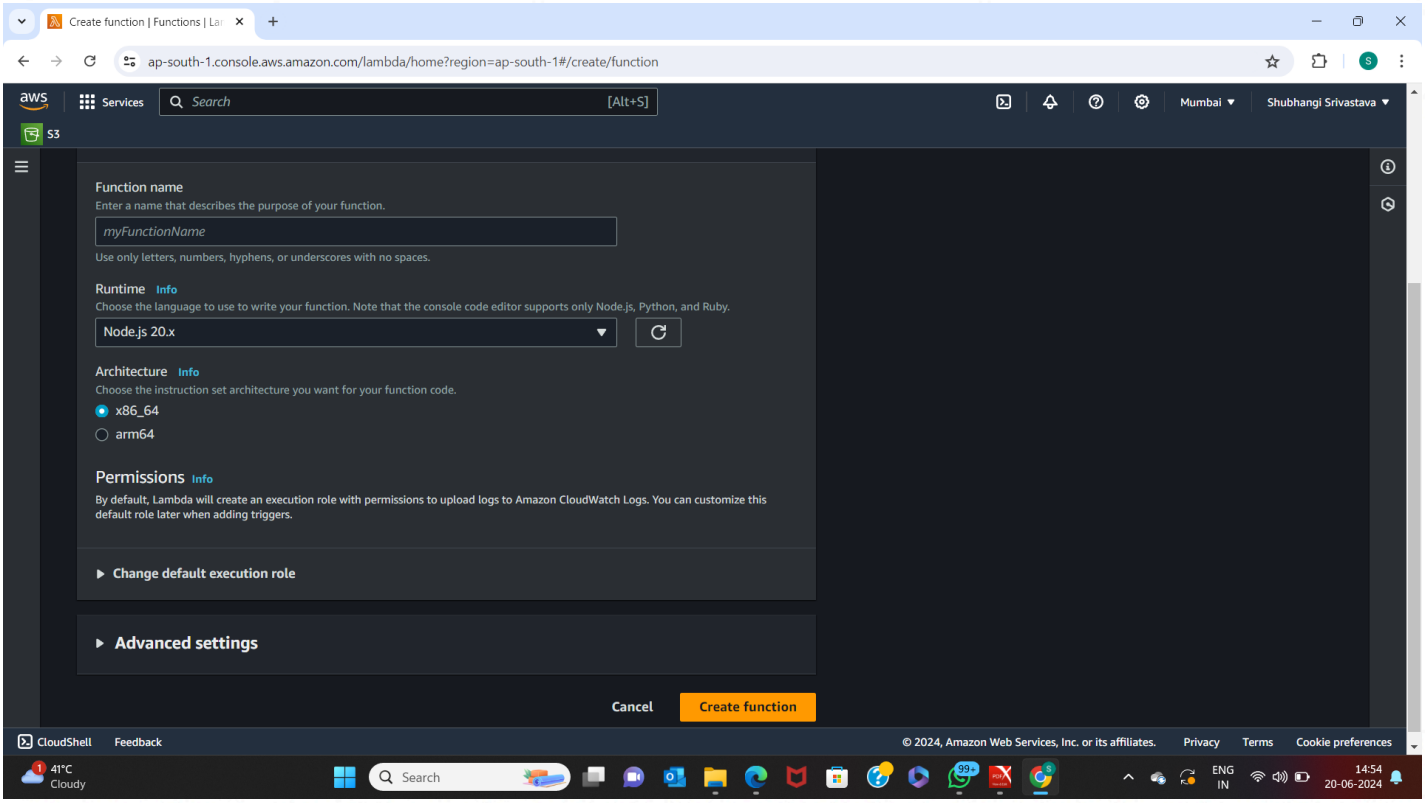


(b) Create a role and define use case as lambda and click on the policy which you have created, click on next.

Select a suitable role name.

Go to IAM dashboard again and change default execution role as use an existing role and click on create function.



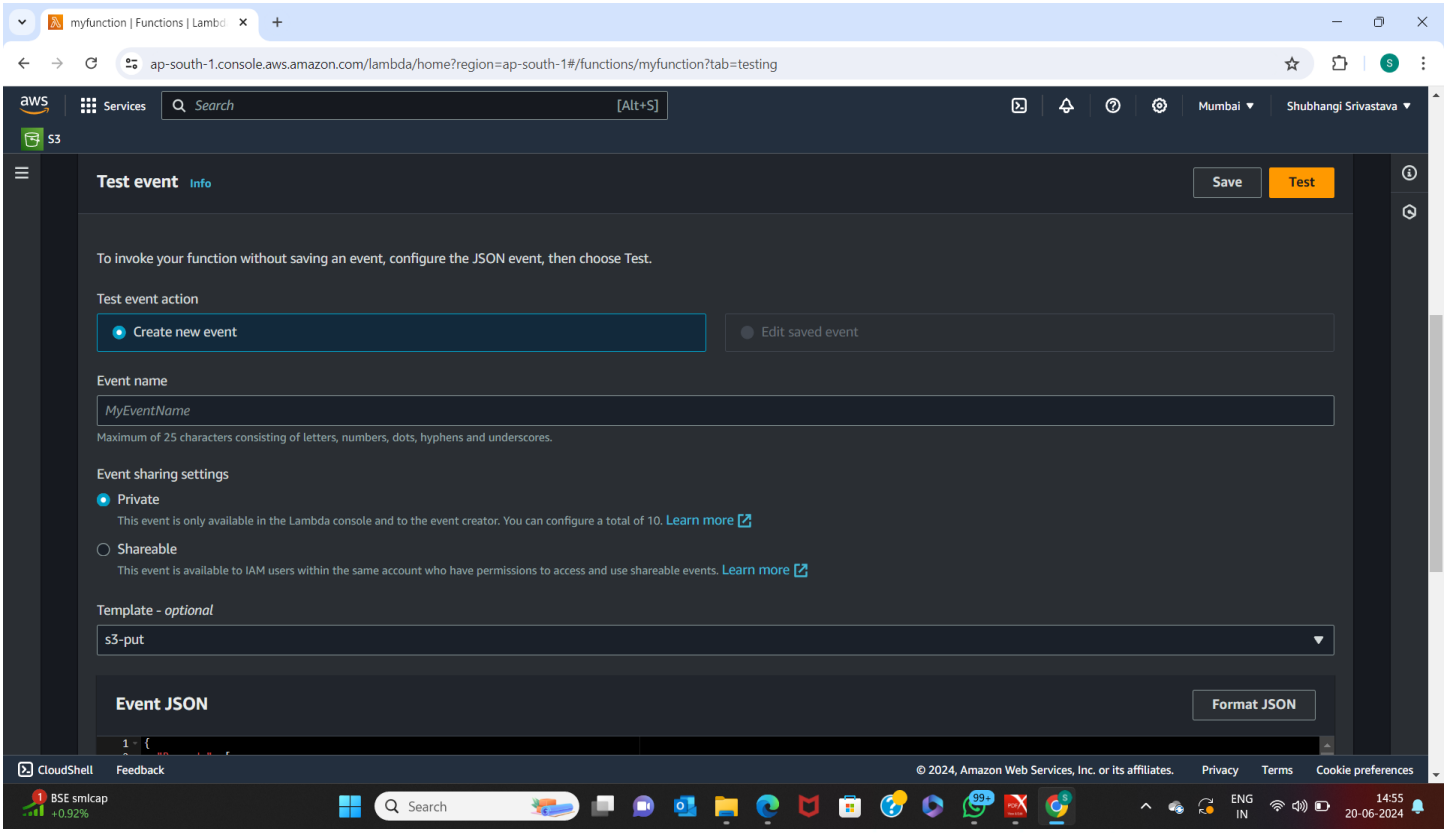
Step 5- Click on add trigger and select source as S3 and give the name of your source bucket, click on add.

Step 6- Edit the environment variable, give key as DEST_BUCKET and value as name of your bucket.Click on save.

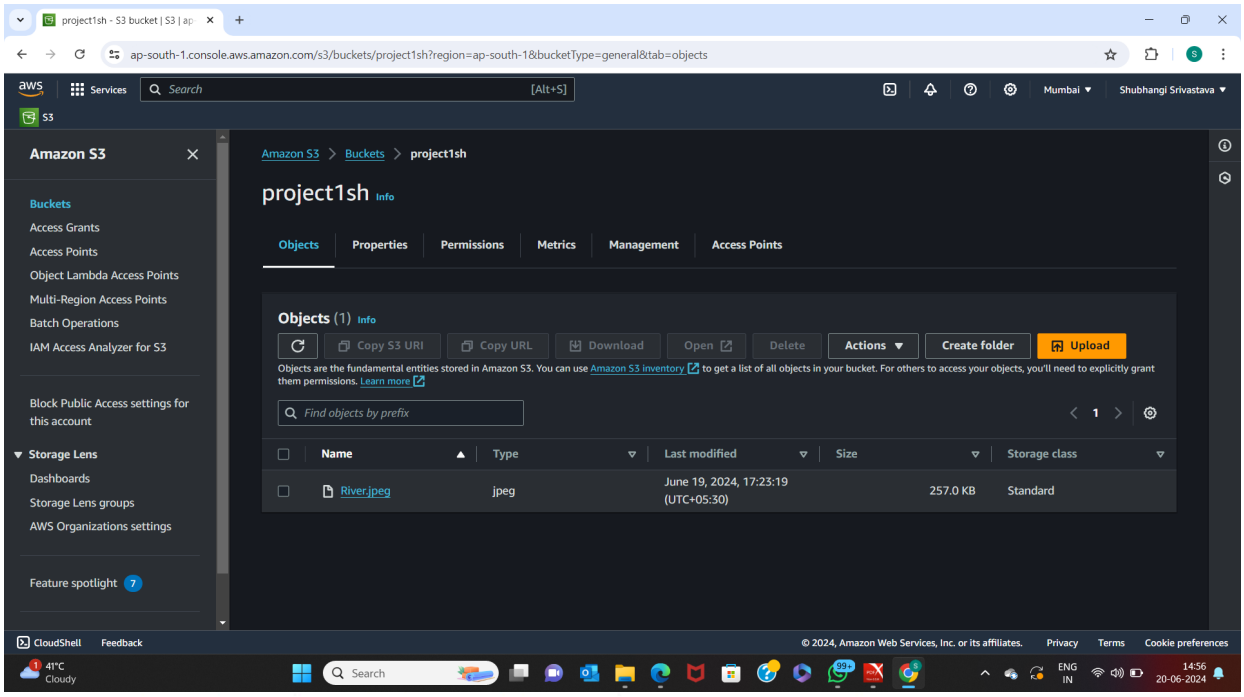
Click on code and select upload from zip file.

function (1).zip (Command Line)

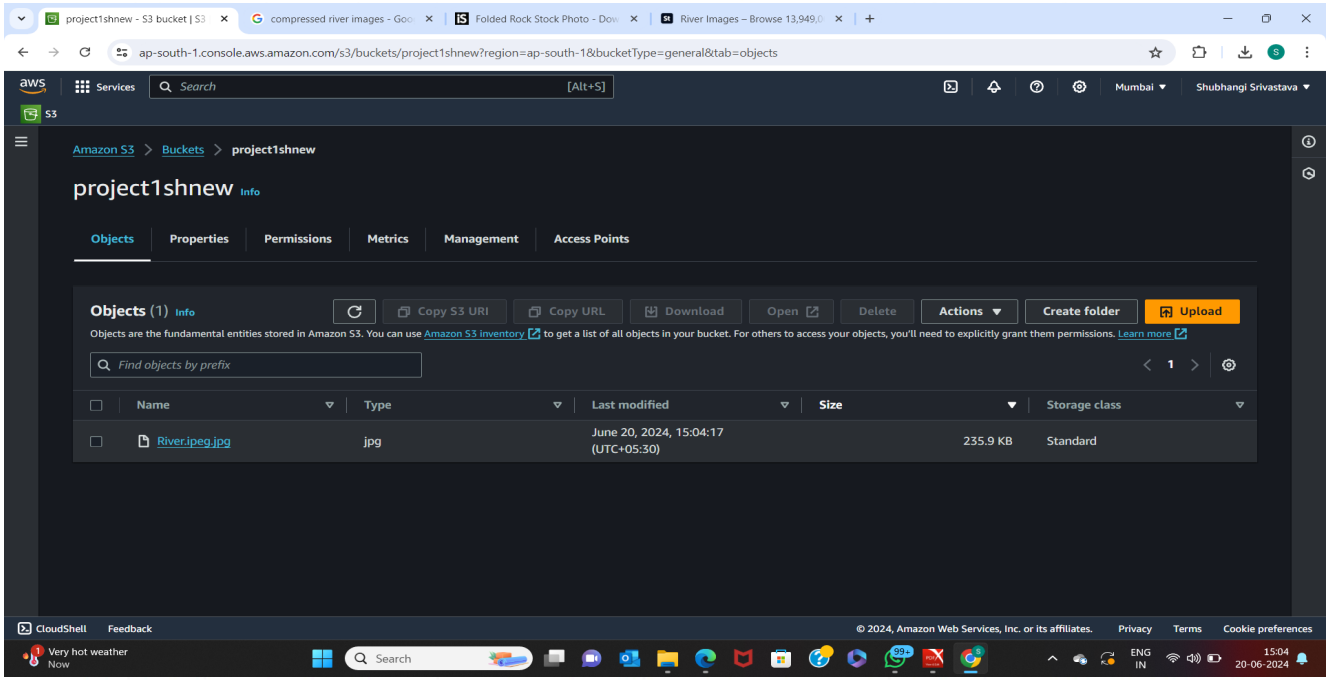
Click on test and select templete as S3 put and give the name of your source bucket and key policy as name of your picture which you have uploaded which is WhatsApp Image 2024-06-20 at 10.14.52_803cb0de.jpg



Step7- Now we can see that image is automatically uploaded on destination bucket and their size is also changed.



Size of source bucket is 132.0KB.



Which is further reduced to 10.1KB.

Now we can see that image is successfully compresed.