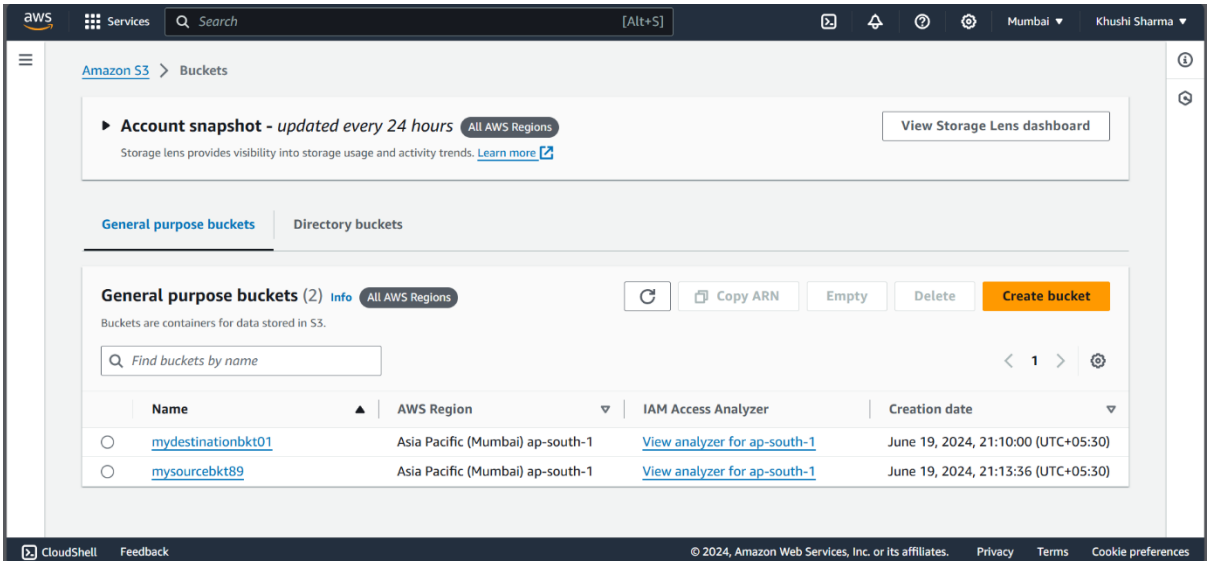
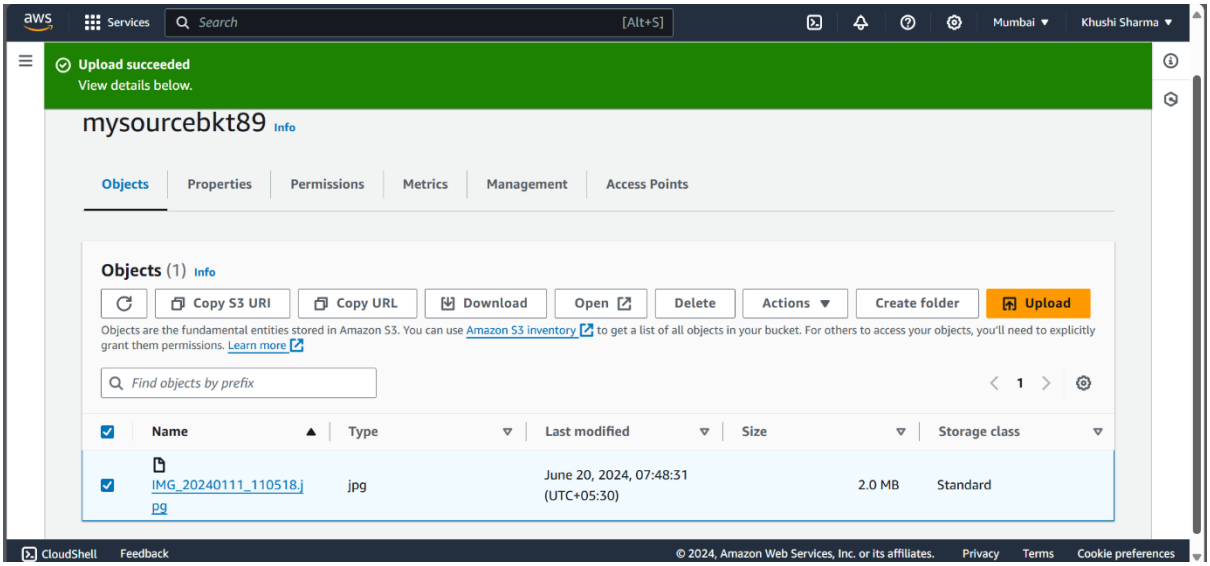
PROJECT 1

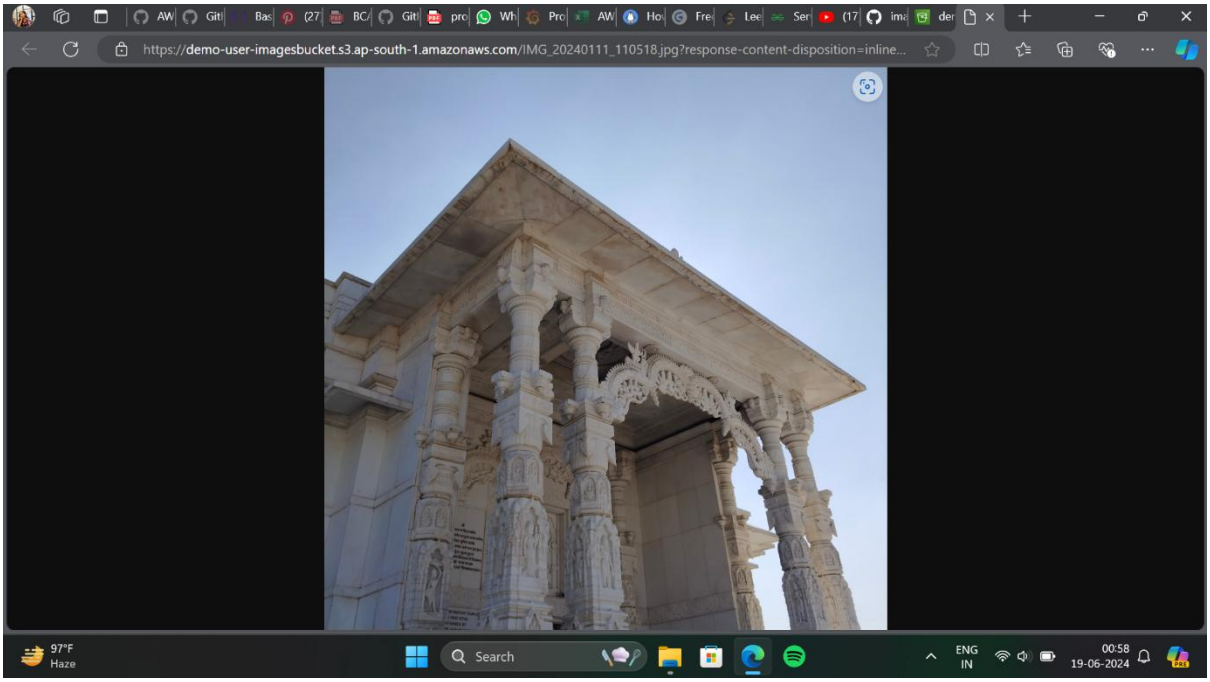
STEP 1: CREATE TWO BUCKETS.

1. Source Bucket
2. Destination Bucket

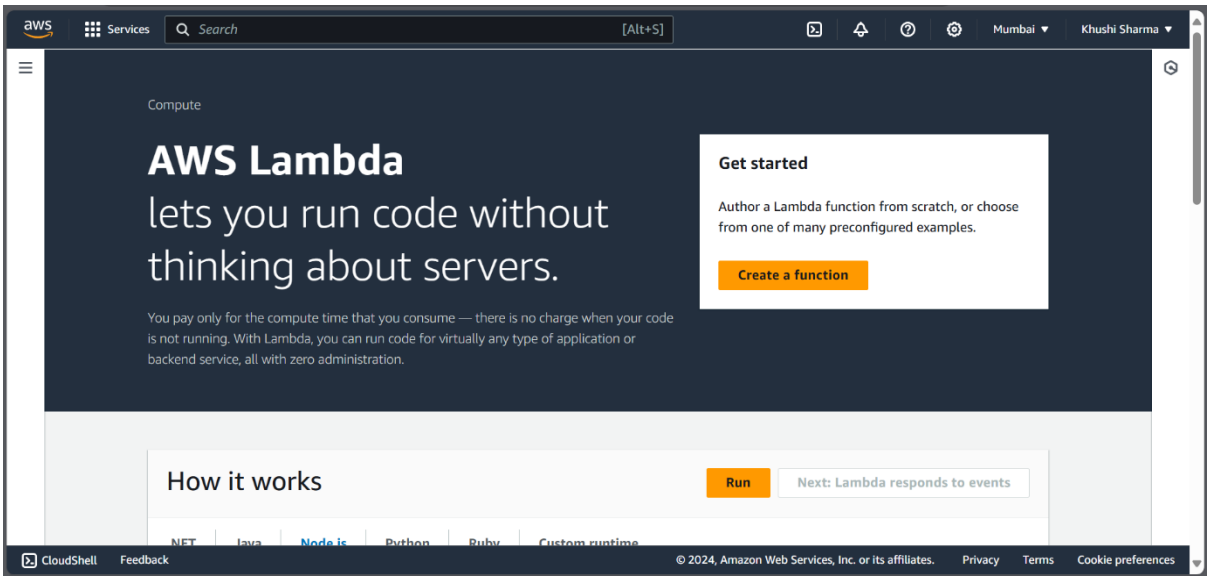


Upload the image in the source bucket.



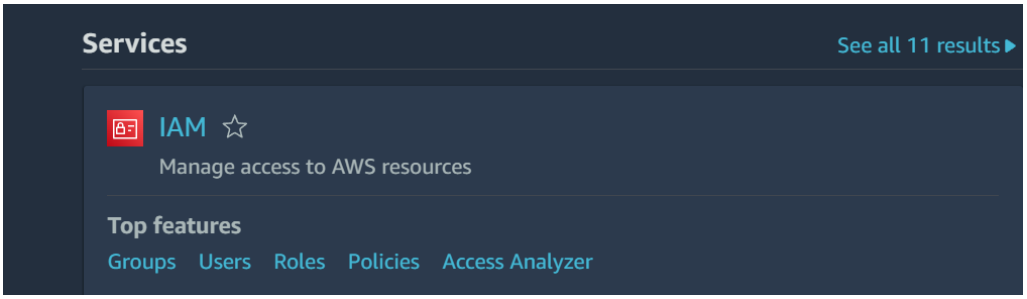


STEP 2: CREATE LAMBDA FUNCTION

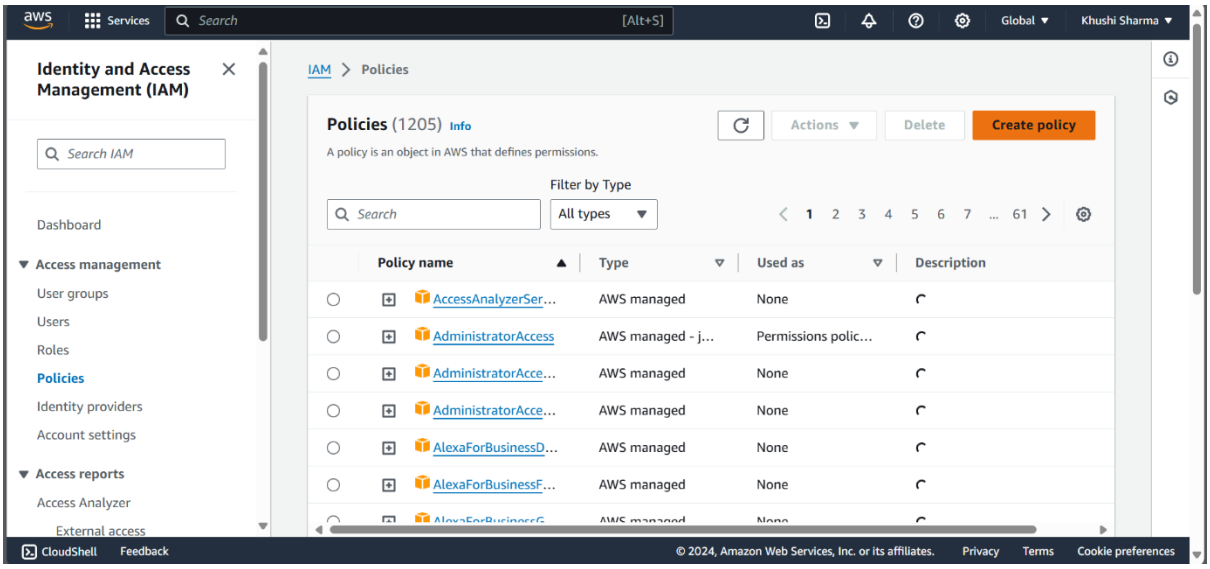


Option: author from scratch
Function Name : khushifunction
Runtime: Node.js 18.x
Architecture: x86_64

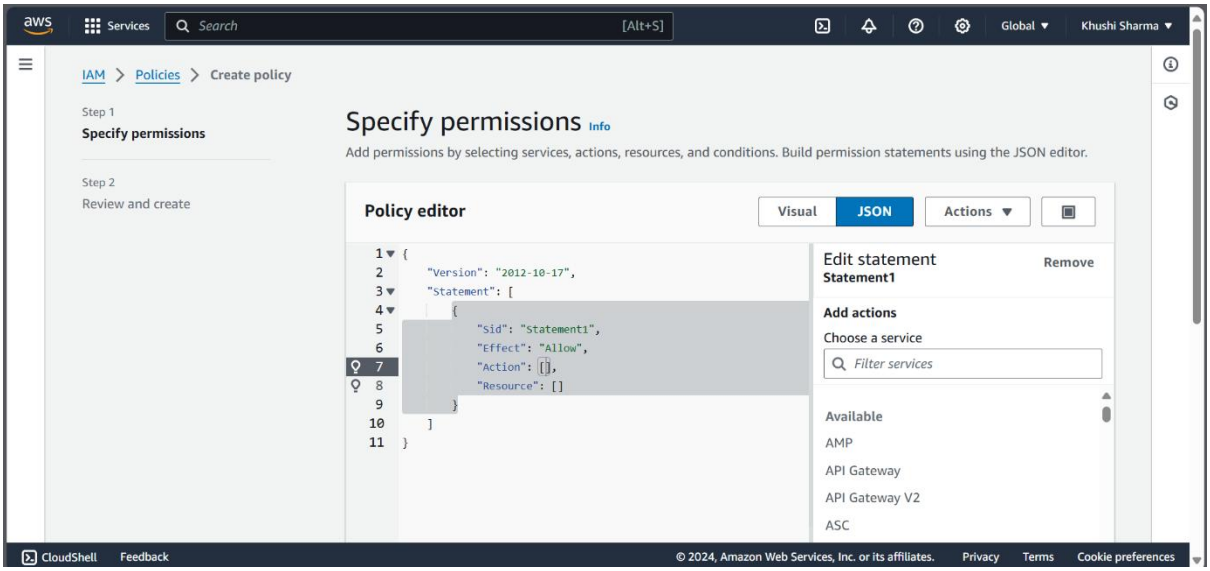
Go to IAM console.
Search IAM



Then go to policies.



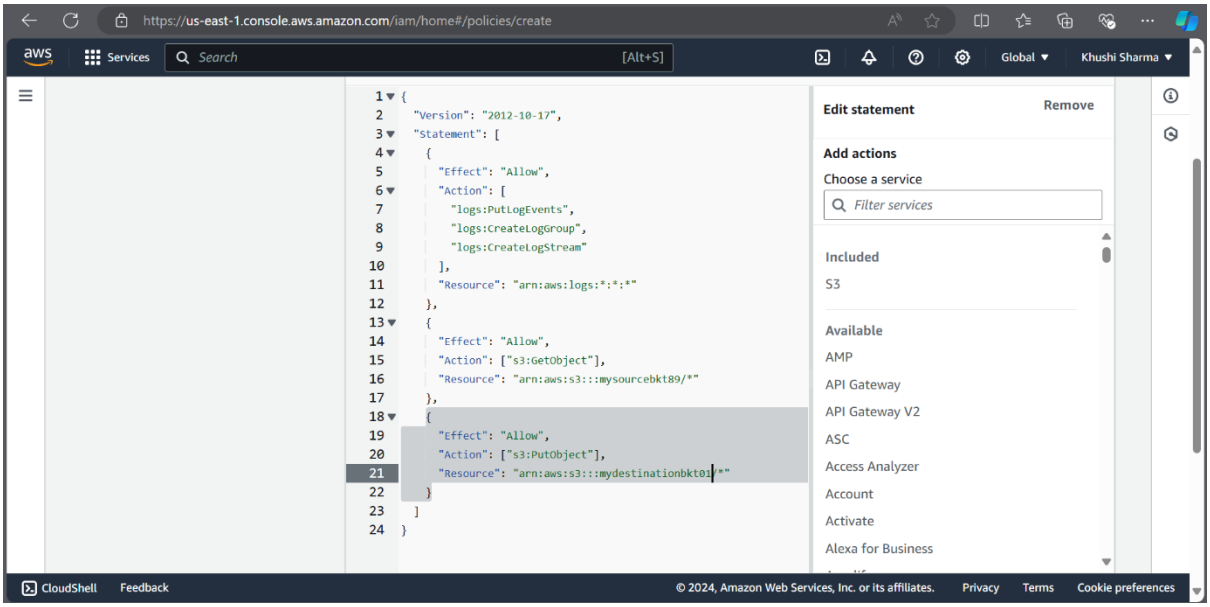
And create the policy.



Click on JSON
And replace the original code with the new one that you have created.

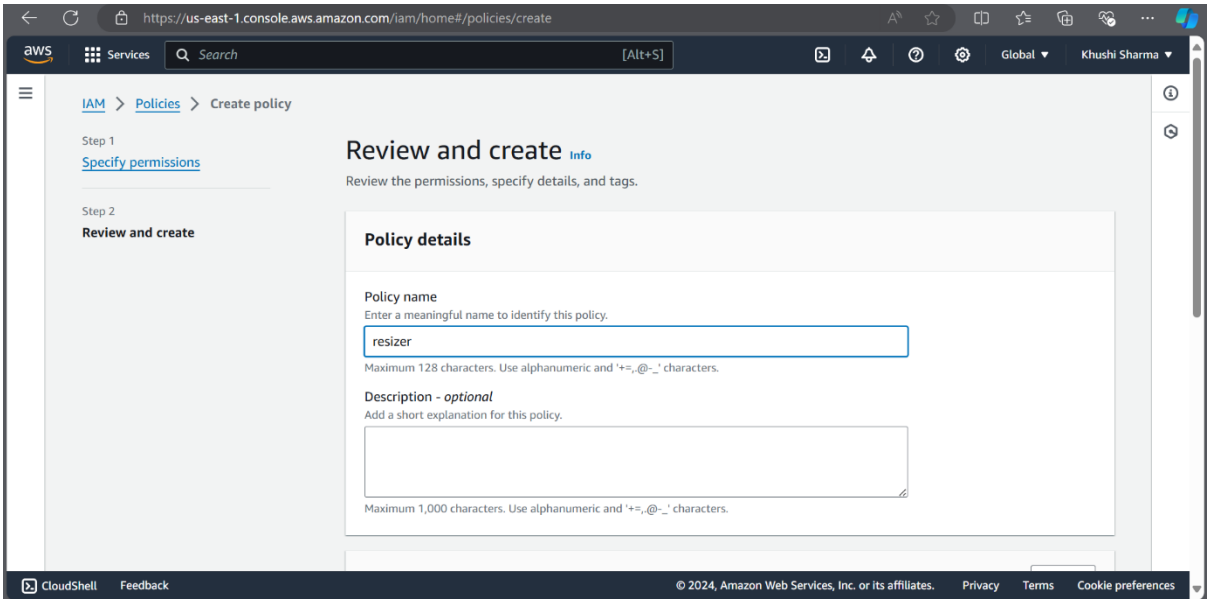
```
{
 "Version": "2012-10-17",
 "Statement": [
  {
   "Effect": "Allow",
   "Action": [
    "logs:PutLogEvents",
    "logs:CreateLogGroup",
    "logs:CreateLogStream"
   ],
   "Resource": "arn:aws:logs:*:*:*"
  },
  {
   "Effect": "Allow",
   "Action": ["s3:GetObject"],
   "Resource": "arn:aws:s3:::BUCKET_NAME/*"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

Edit the resources with the buckets you have created.



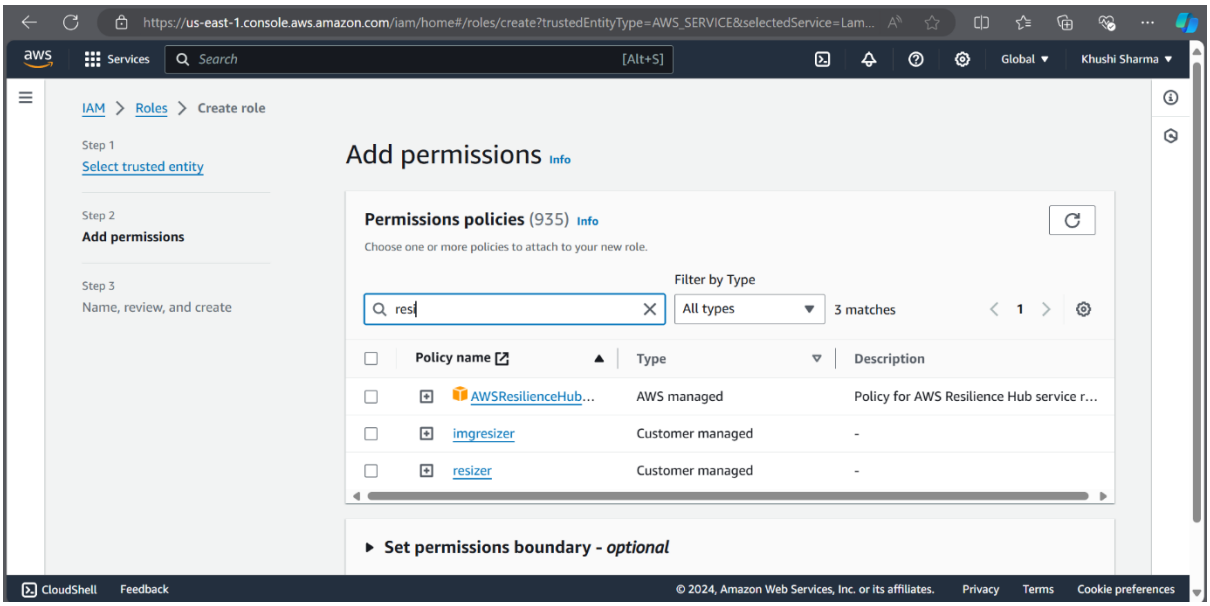
Then click next.

Policy details :
. policy name : resizer



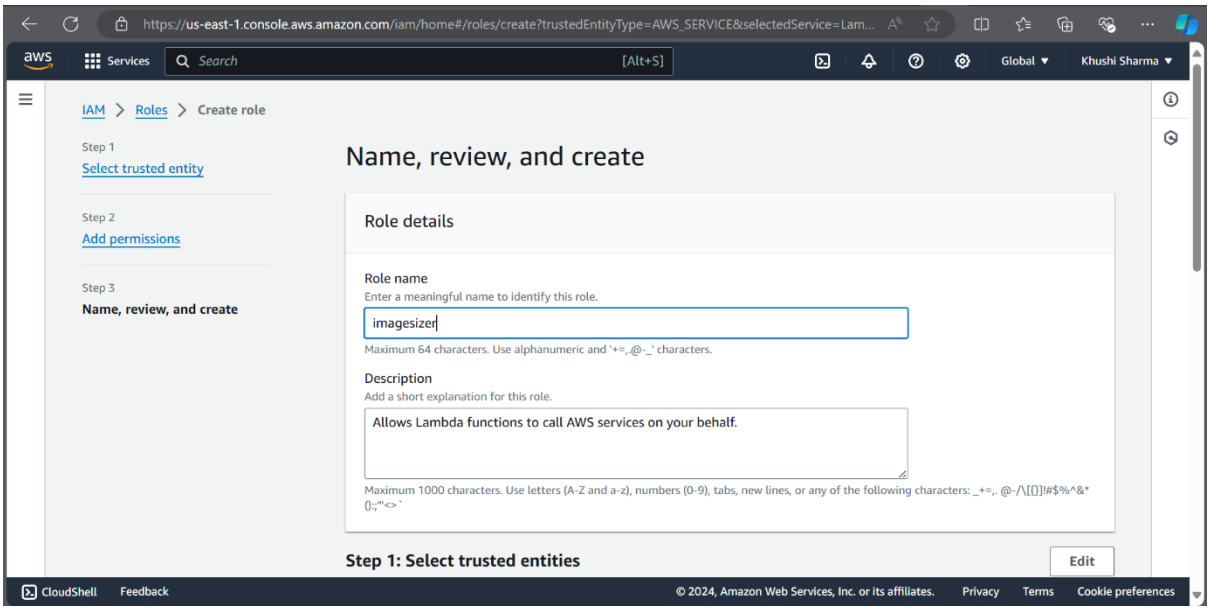
Create policy.

Create role.
And choose case : Lambda.
In add permissions search your policy that you have created.



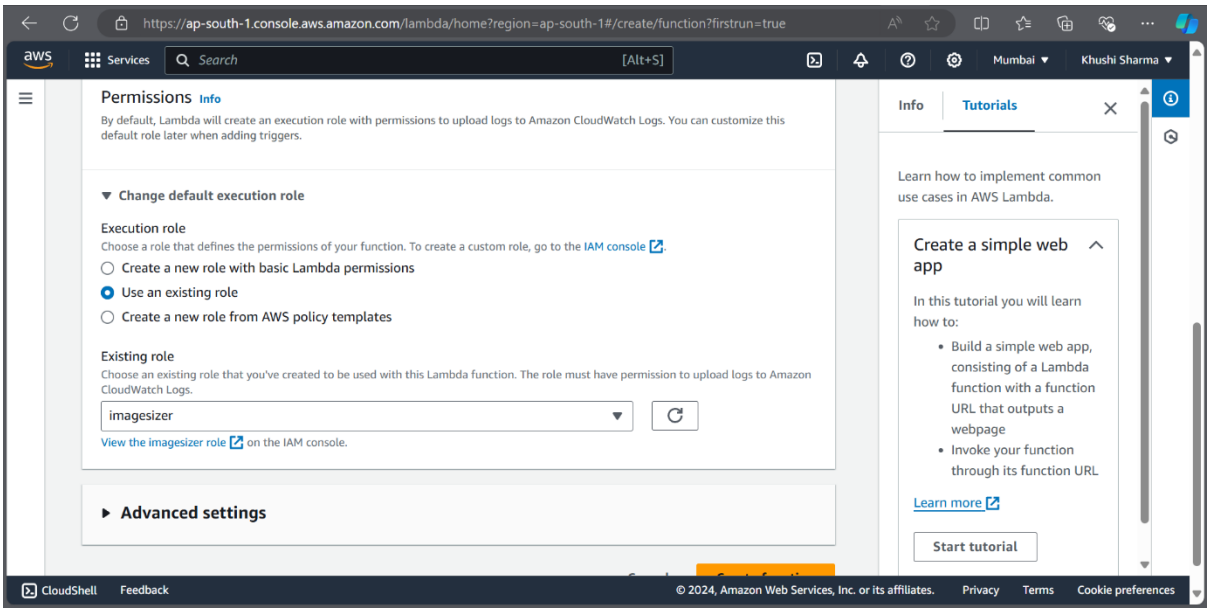
Then click next.

Role details –
Role name : imagesizer.



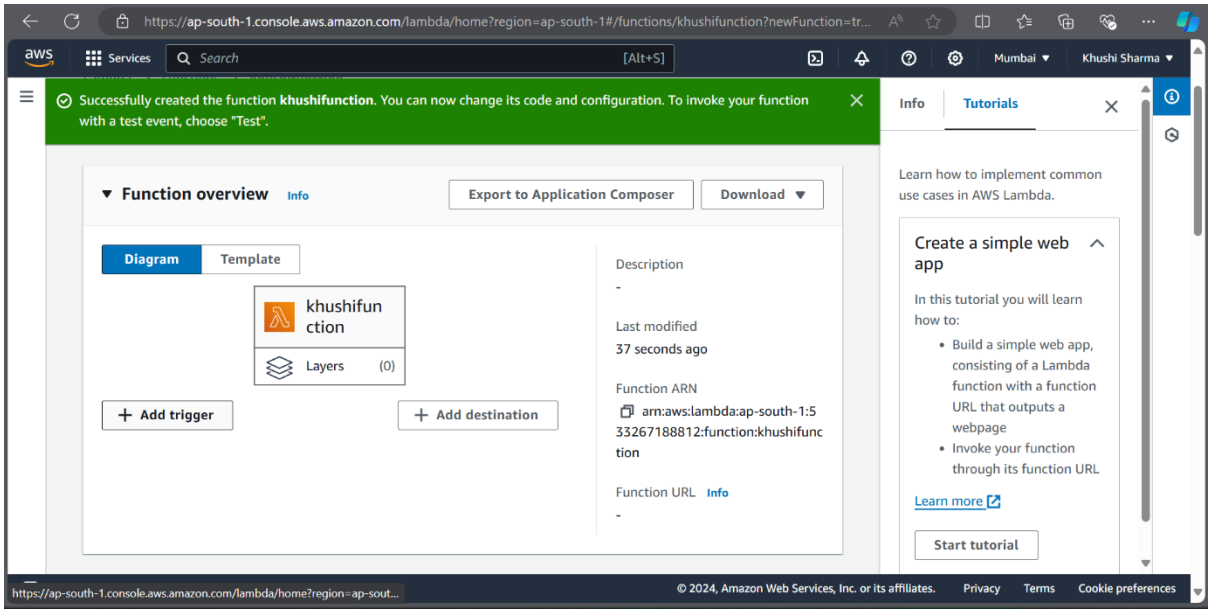
Click on create role .

Then go to lambda function.
The use an existing role.

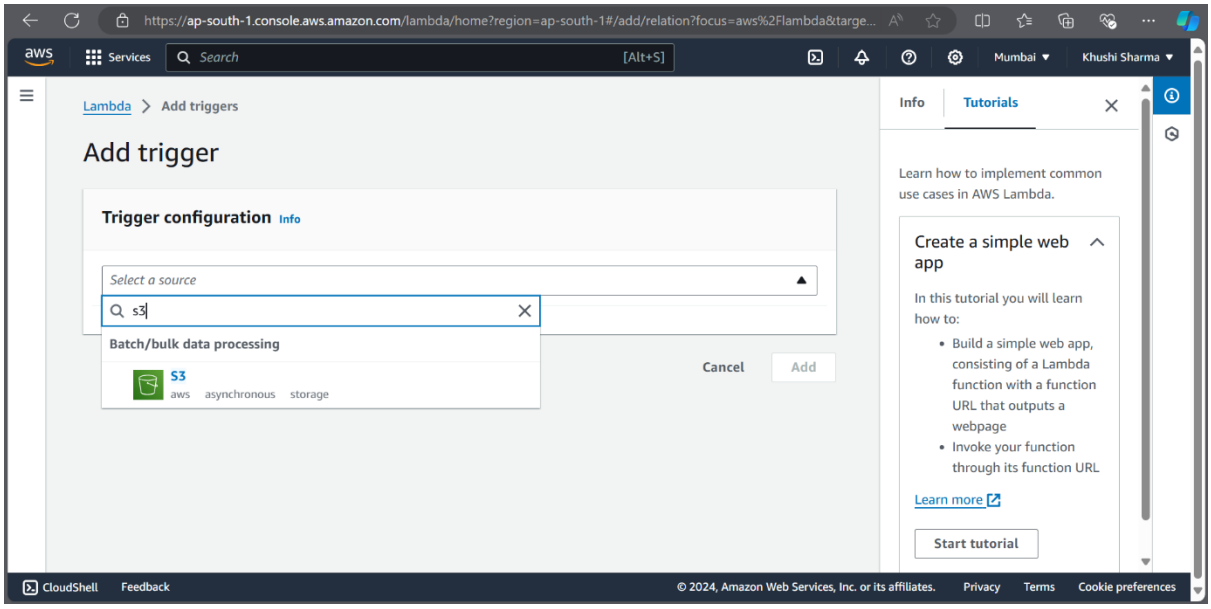


Then click on create function.

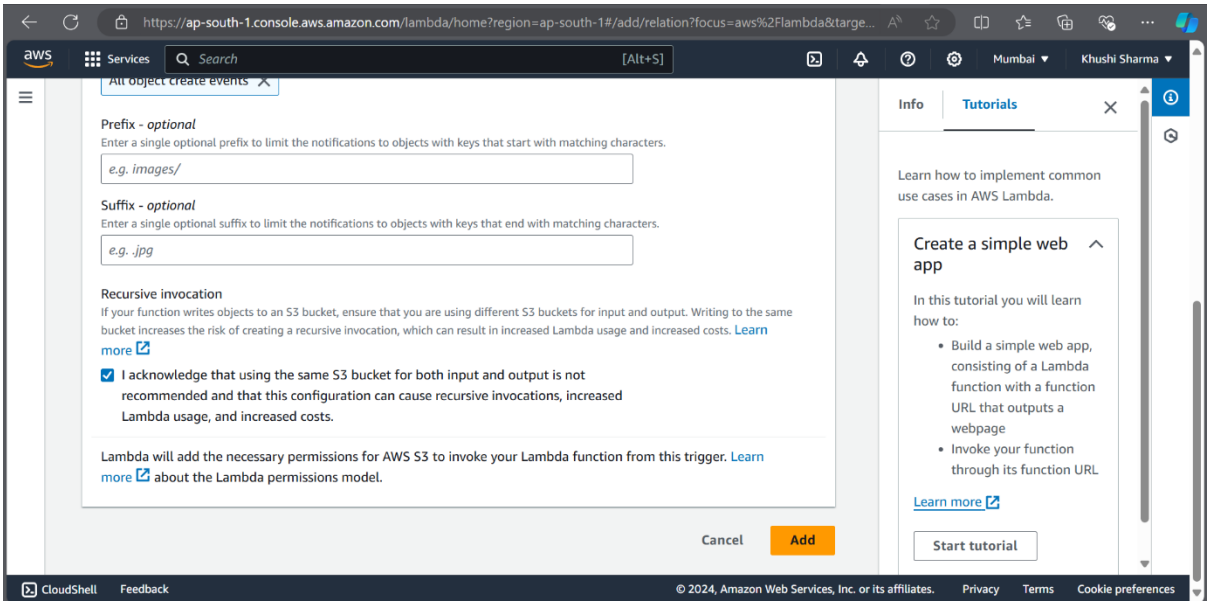
Then go to add trigger.



Then select the source : S3

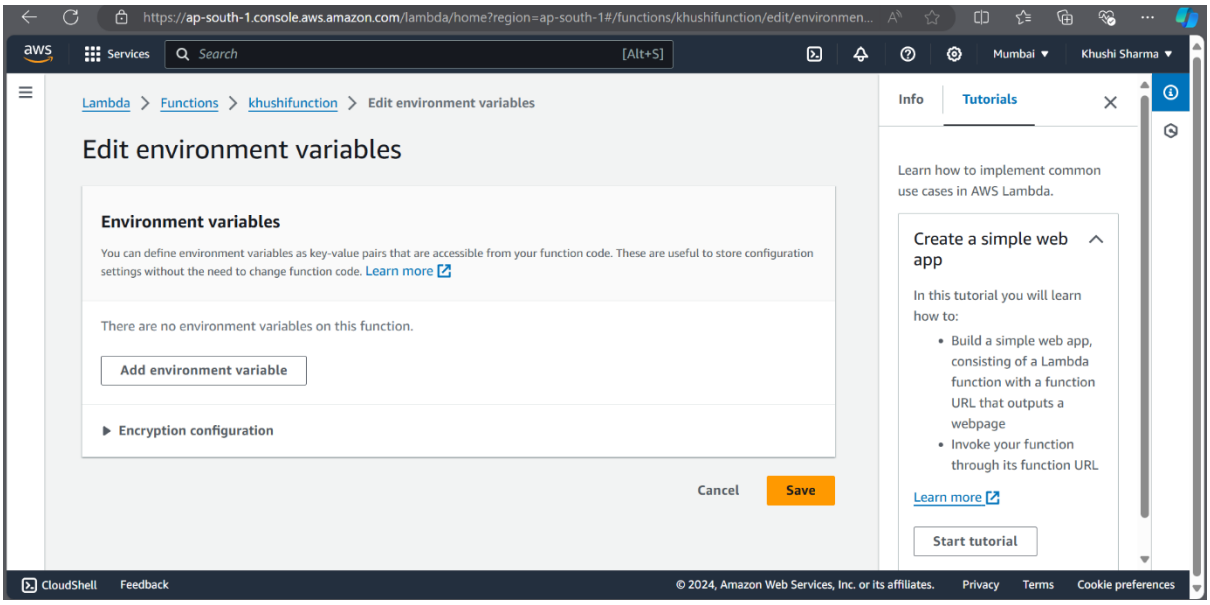


Select your source bucket.

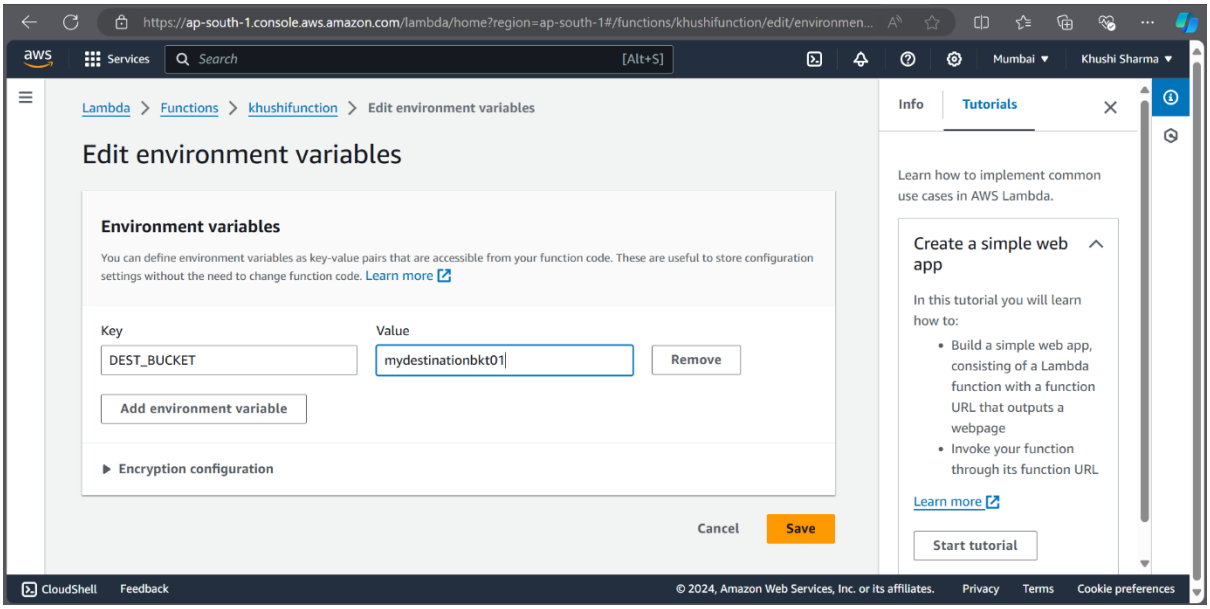


Then add.

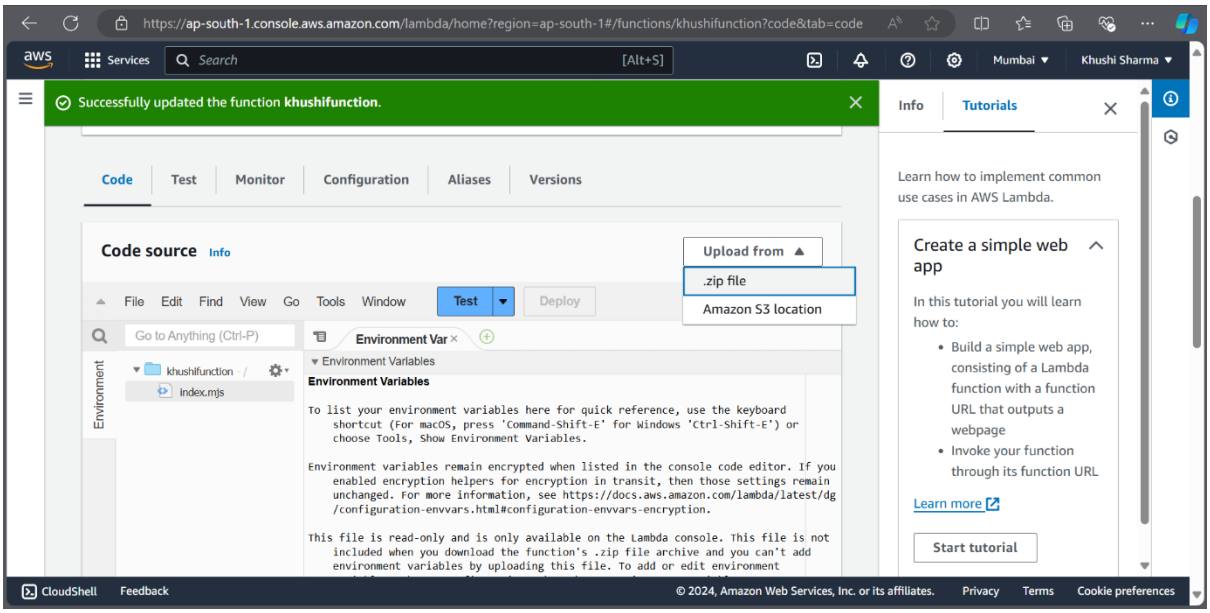
Go to environmental variables.

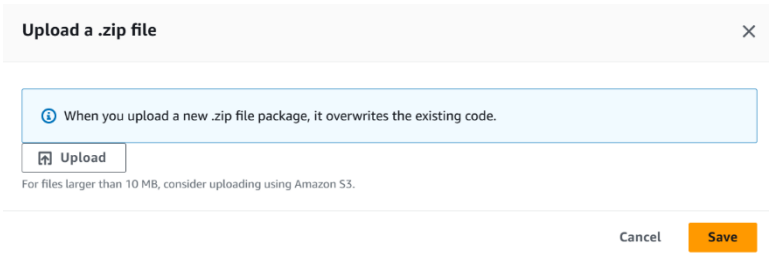


KEY: DEST_NAME
VALUE: mydestinationbkt01

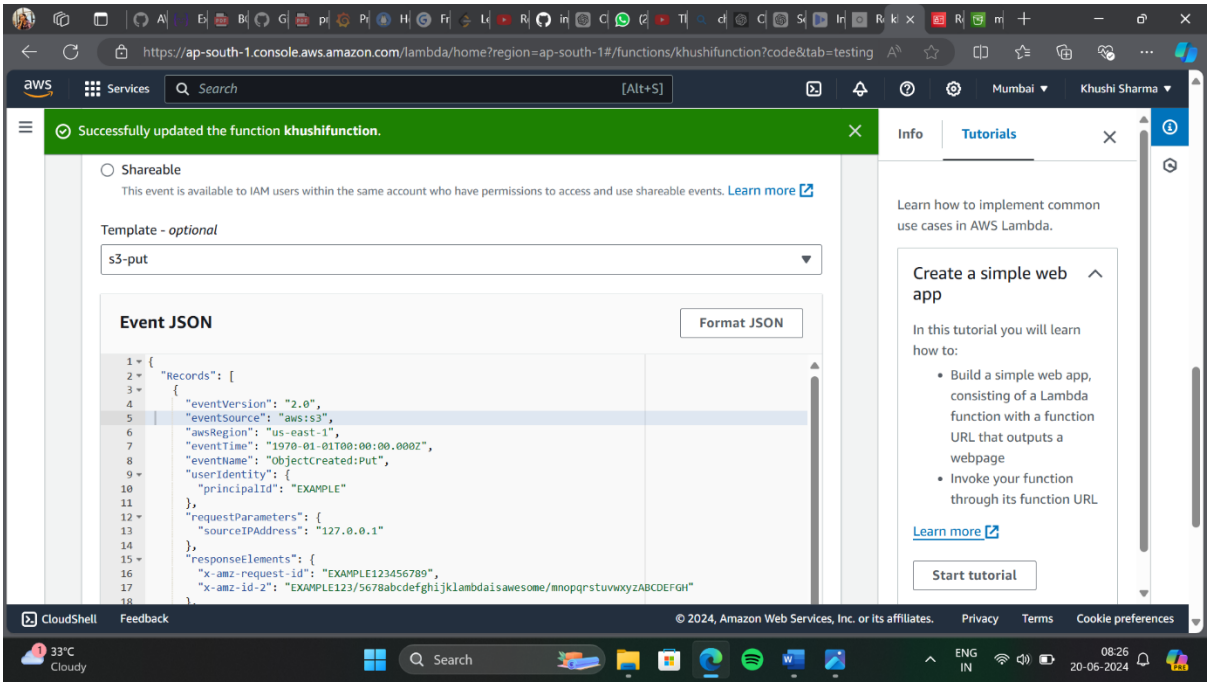


Go to code and upload your downloaded zip file.





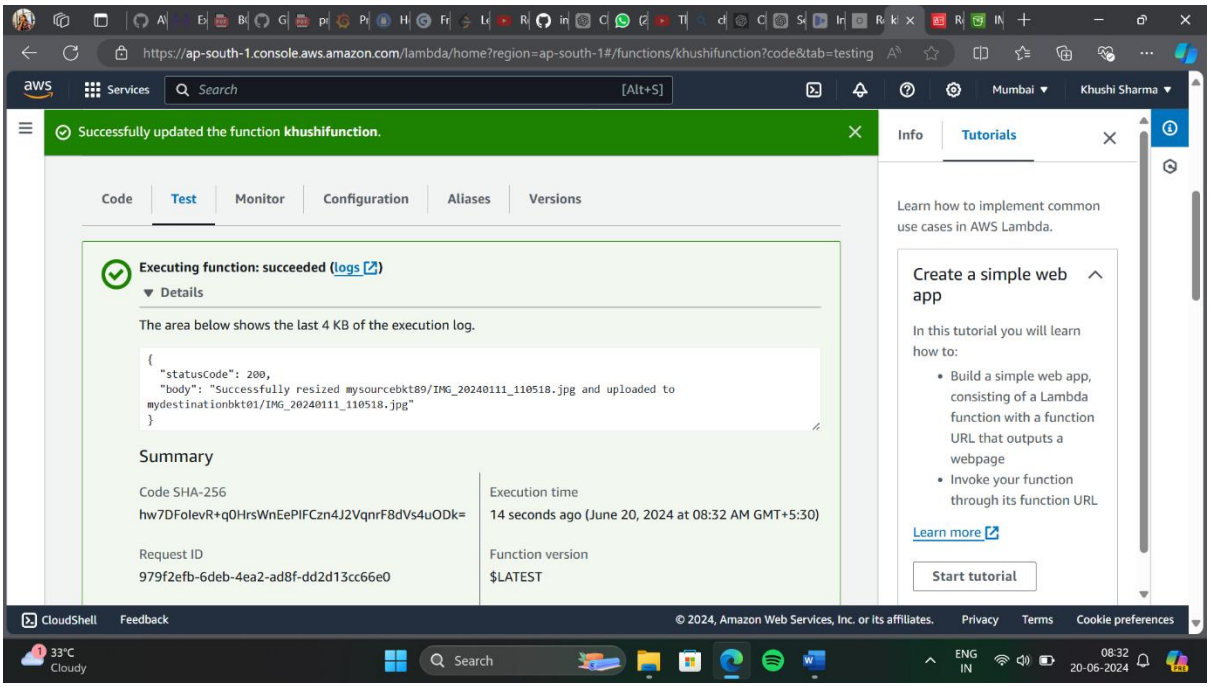
Go to test.
Select s3put in template



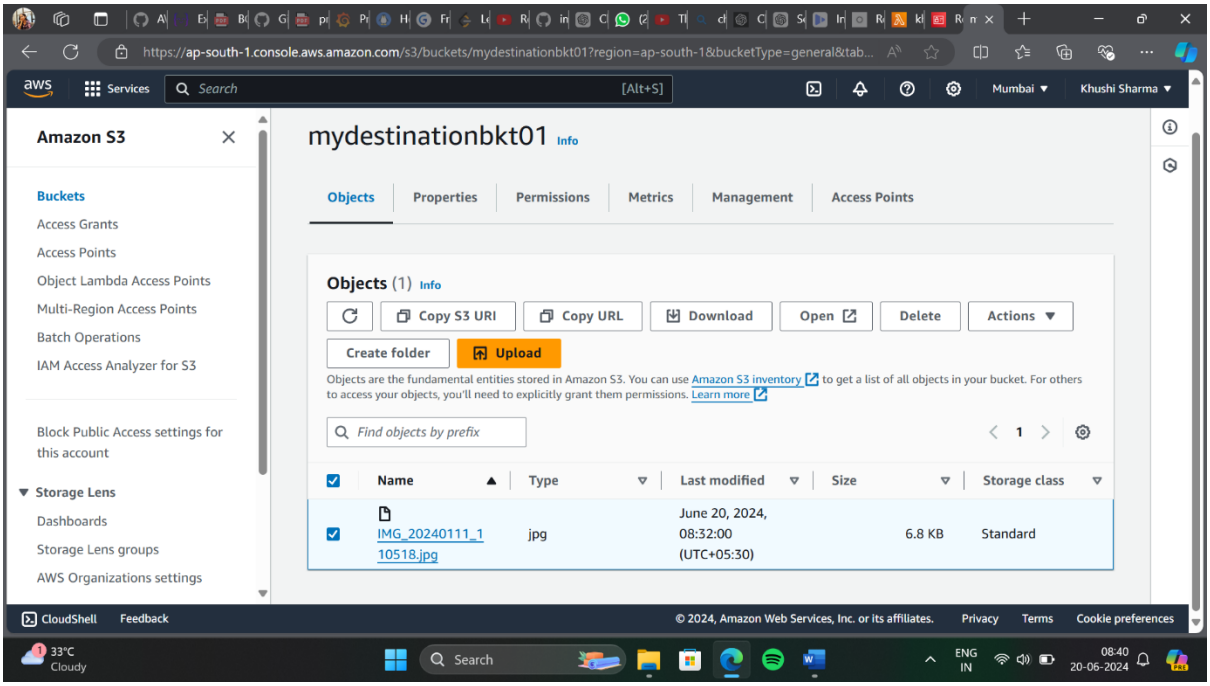

```
{
 "Records": [
  {
   "eventVersion": "2.0",
   "eventSource": "aws:s3",
   "awsRegion": "us-east-1",
   "eventTime": "1970-01-01T00:00:00.000Z",
   "eventName": "ObjectCreated:Put",
   "userIdentity": {
    "principalId": "EXAMPLE"
   },
   "requestParameters": {
    "sourceIPAddress": "127.0.0.1"
   },
   "responseElements": {
    "x-amz-request-id": "EXAMPLE123456789",
    "x-amz-id-2":
"EXAMPLE123/5678abcdefghijklambdaisawesome/mnopqrstuvwxyzABCDEFGH"
   },
   "s3": {
    "s3SchemaVersion": "1.0",
```

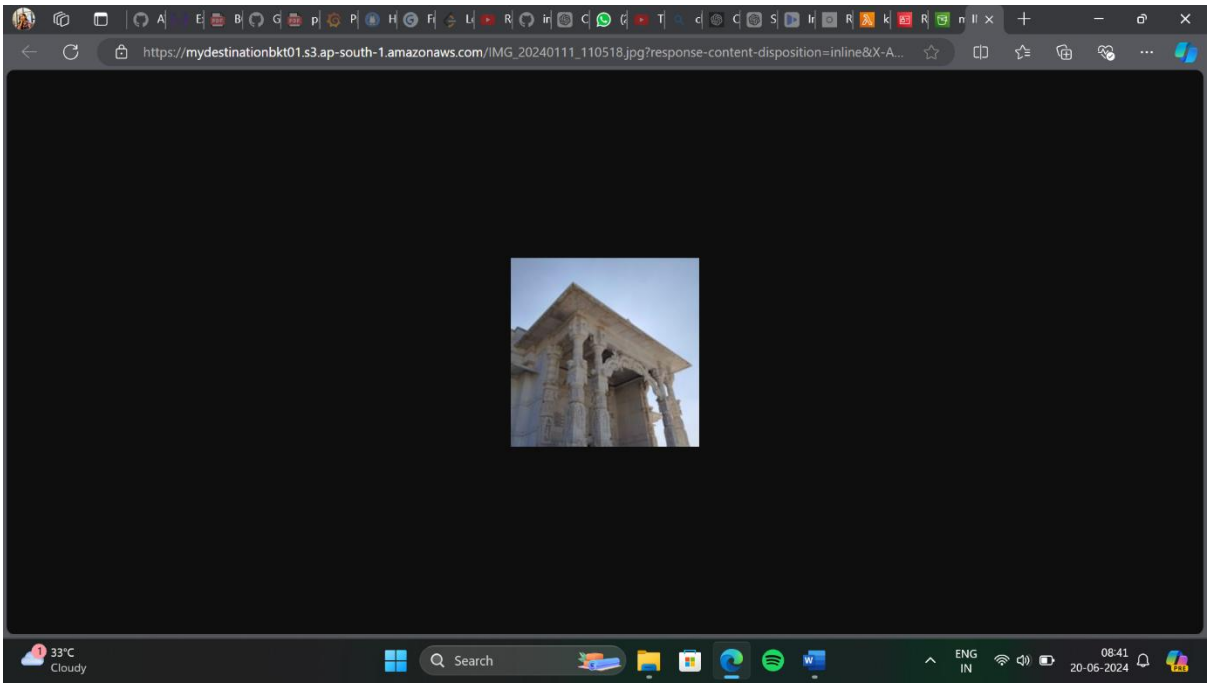
```
      "configurationId": "testConfigRule",
      "bucket": {
        "name": "mysourcebkt89",
        "ownerIdentity": {
          "principalId": "EXAMPLE"
        },
        "arn": "arn:aws:s3:::mysourcebkt89"
      },
      "object": {
        "key": "IMG_20240111_110518.jpg",
        "size": 1024,
        "eTag": "0123456789abcdef0123456789abcdef",
        "sequencer": "0A1B2C3D4E5F678901"
      }
    }
  }
 ]
}
```

Click on test.



Then go to your destination bucket. See there will be an resized image will be there.





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