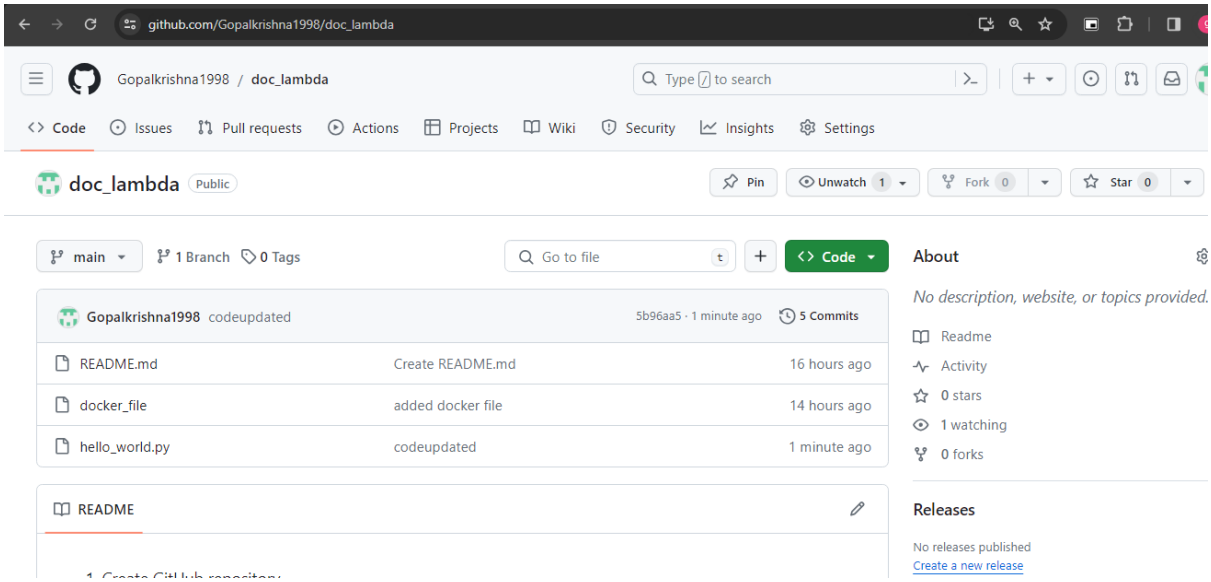
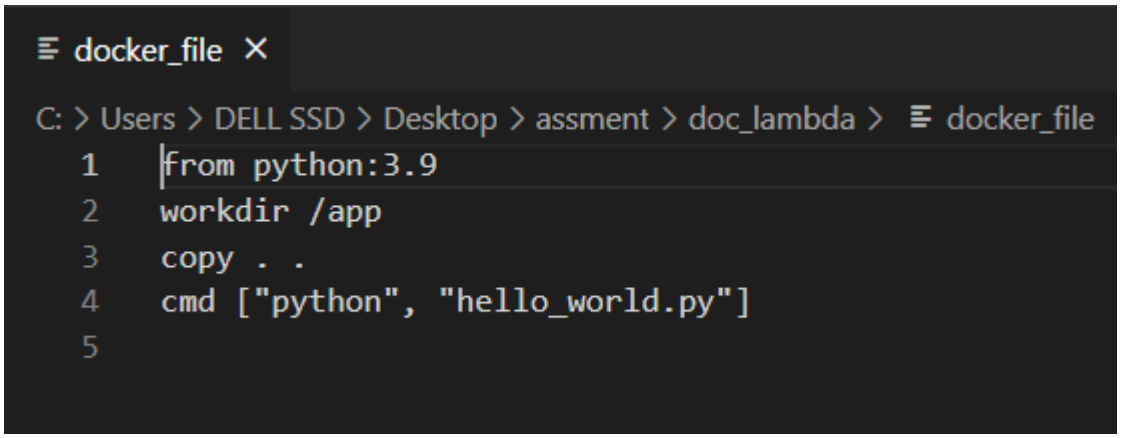
Name : - Gopalkrishna Umak

Email id :- gopalumak4@gmail.com /9145246424

Given task:- 1. Create GitHub repository
2.Add docker file code to create image of sample hello world program and deploy this image to AWS ECR (Use python for hello world program and create docker image using that file)
3.Create lambda function using this image and test it.



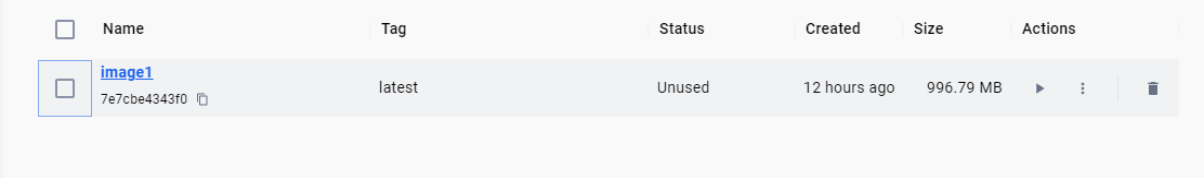
Git repository created successfully



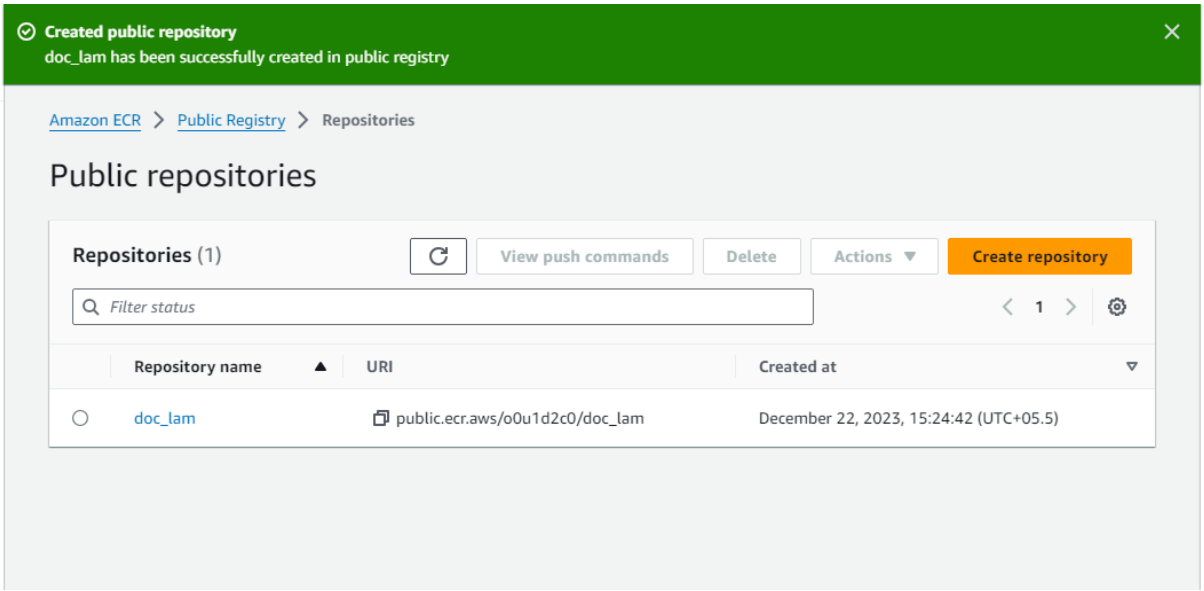
Creation of docker file

```
PS C:\Users\DELL SSD\desktop\assment\doc_lambda> docker build . -t image1 -f docker_file
[+] Building 2.7s (8/8) FINISHED                                                                                    docker:default
 => [internal] load .dockerignore                                                                                           0.1s
 => => transferring context: 2B                                                                                             0.0s
 => [internal] load build definition from docker_file                                                                       0.1s
 => => transferring dockerfile: 113B                                                                                        0.0s
 => [internal] load metadata for docker.io/library/python:3.9                                                               2.1s
 => [1/3] FROM docker.io/library/python:3.9@sha256:30678bb79d9eeaf98ec0ce83cdcd4d6f5301484ef86873a711e69df2ca77e8ac         0.0s
 => [internal] load build context                                                                                           0.1s
 => => transferring context: 3.26kB                                                                                         0.1s
 => CACHED [2/3] WORKDIR /app                                                                                               0.0s
 => CACHED [3/3] COPY . .                                                                                                   0.0s
 => exporting to image                                                                                                      0.0s
 => => exporting layers                                                                                                     0.0s
 => => writing image sha256:7e7cbe4343f04f37692b360772e6164929a41cd27eba4fb75ebfe20a6451ad48                                0.0s
 => => naming to docker.io/library/image1                                                                                   0.0s

View build details: docker-desktop://dashboard/build/default/default/62f5wnxtsnsflmconn62vhkom

What's Next?
  View a summary of image vulnerabilities and recommendations → docker scout quickview
PS C:\Users\DELL SSD\desktop\assment\doc_lambda>
```

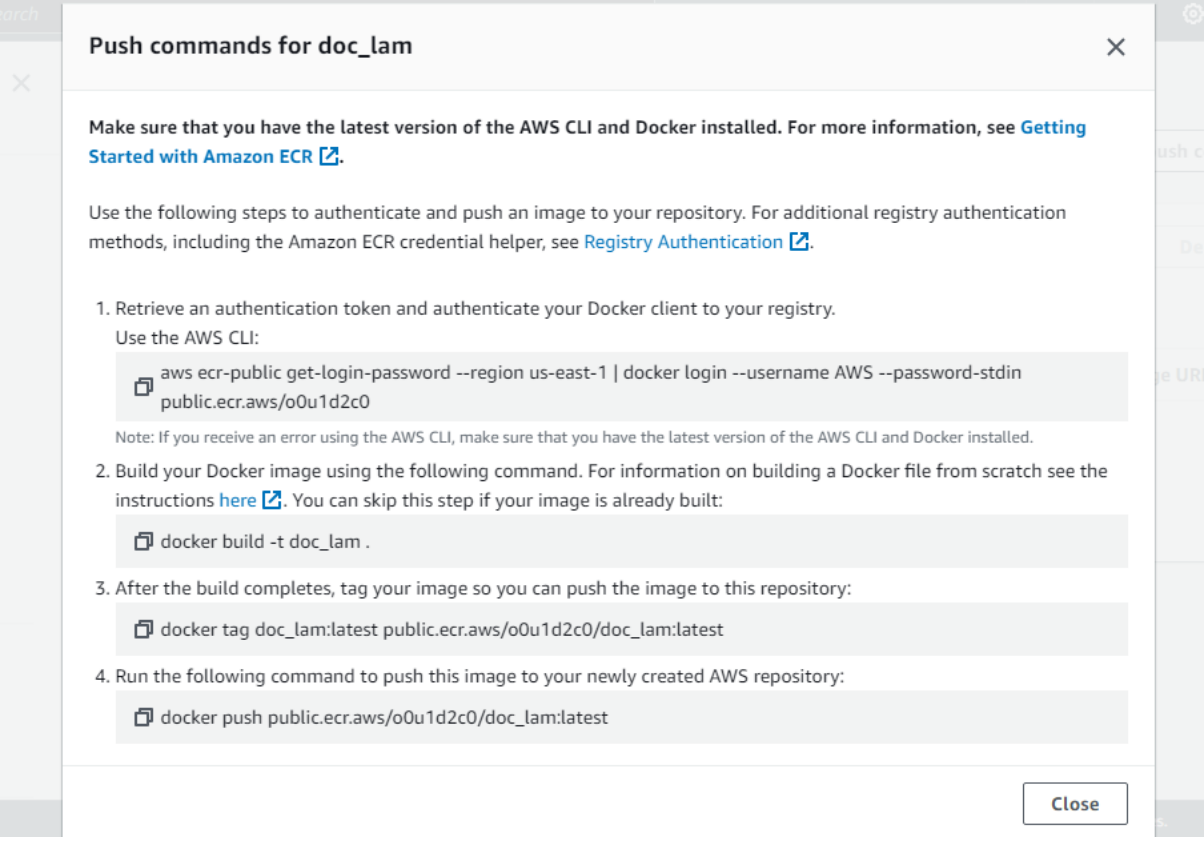
Creation of docker image



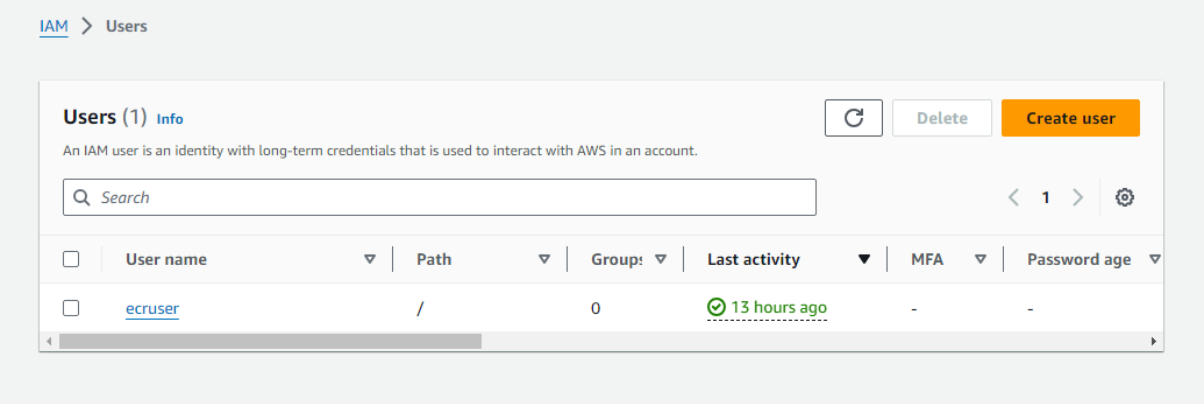
Successfully created docker image



ECR Repository created



Pushing docker image to ECR container



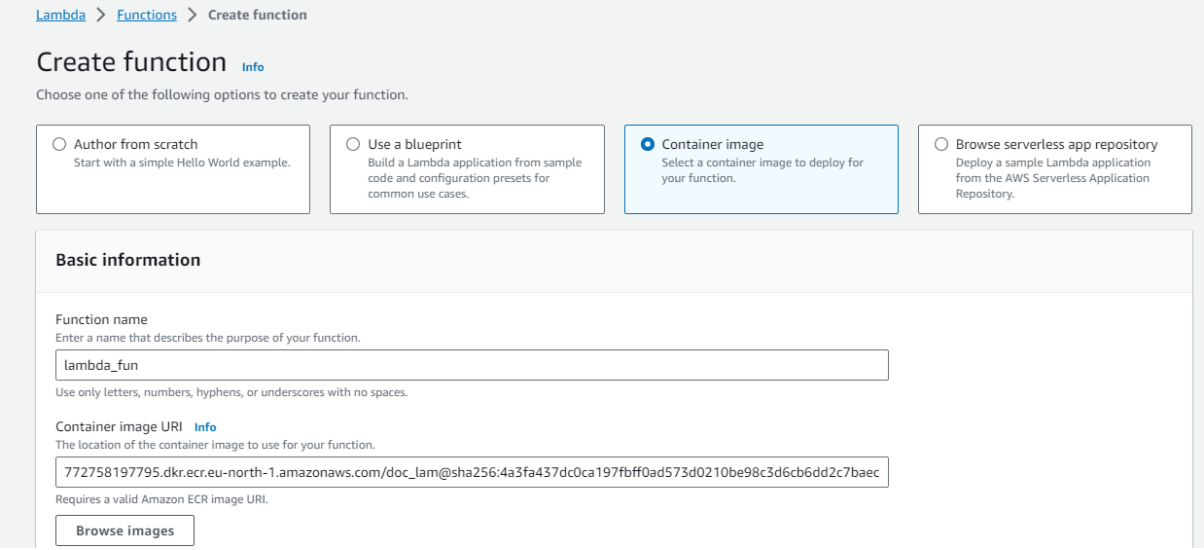
Iam user created successfully

```
PS C:\Users\DELL SSD\desktop\assment\doc_lambda> aws configure
AWS Access Key ID [****************YUAV]: AKIA3H272KYRTWPIYUAV
AWS Secret Access Key [****************wB6l]: 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
Default region name [us-east-1]: eu-north-1
Default output format [json]: json
PS C:\Users\DELL SSD\desktop\assment\doc_lambda>
```

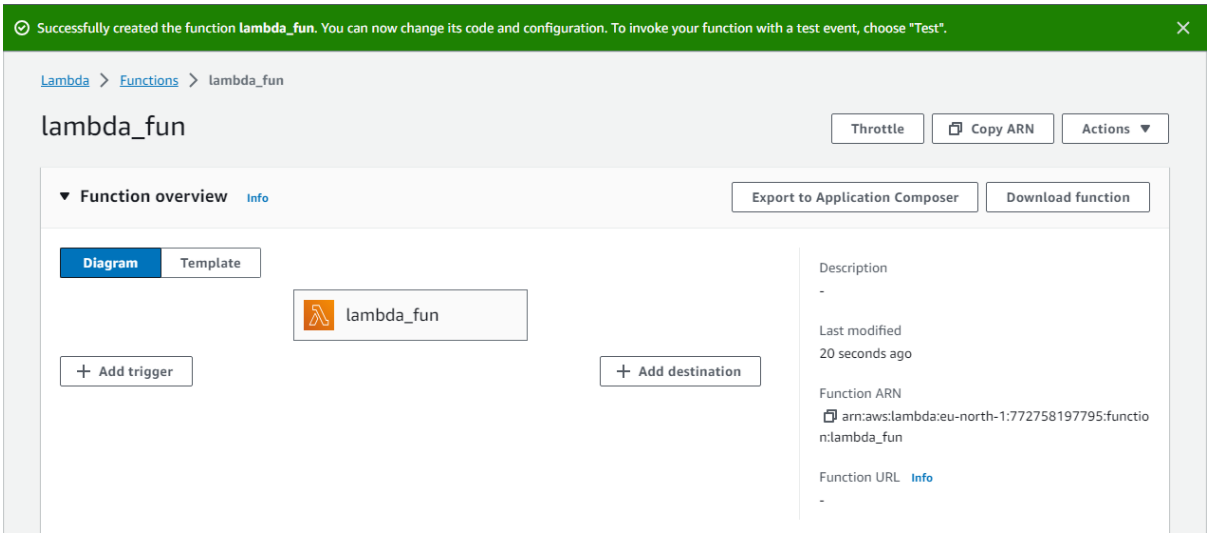
Cli connected with iam user

```
C:\Users\DELL SSD>aws ecr get-login-password --region eu-north-1 | docker login --username AWS --password-stdin 772758197795.dkr.ecr.eu-north-1.amazonaws.com
Login Succeeded

C:\Users\DELL SSD>docker tag doc_lam:latest 772758197795.dkr.ecr.eu-north-1.amazonaws.com/doc_lam:latest
Error response from daemon: No such image: doc_lam:latest

C:\Users\DELL SSD>docker tag image1:latest 772758197795.dkr.ecr.eu-north-1.amazonaws.com/doc_lam:latest

C:\Users\DELL SSD>docker push 772758197795.dkr.ecr.eu-north-1.amazonaws.com/doc_lam:latest
The push refers to repository [772758197795.dkr.ecr.eu-north-1.amazonaws.com/doc_lam]
6be842d1430b: Layer already exists
f056594c46ae: Layer already exists
6b453b473b14: Layer already exists
90c3fd7d657b: Layer already exists
6fb1aacdf632: Layer already exists
a0814d1f5387: Layer already exists
ac7146fb6cf5: Layer already exists
209de9f22f2f: Layer already exists
777ac9f3cbb2: Layer already exists
ae134c61b154: Layer already exists
latest: digest: sha256:4a3fa437dc0ca197fbff0ad573d0210be98c3d6cb6dd2c7baec66bdc18cf3c44 size: 2422

C:\Users\DELL SSD>
```

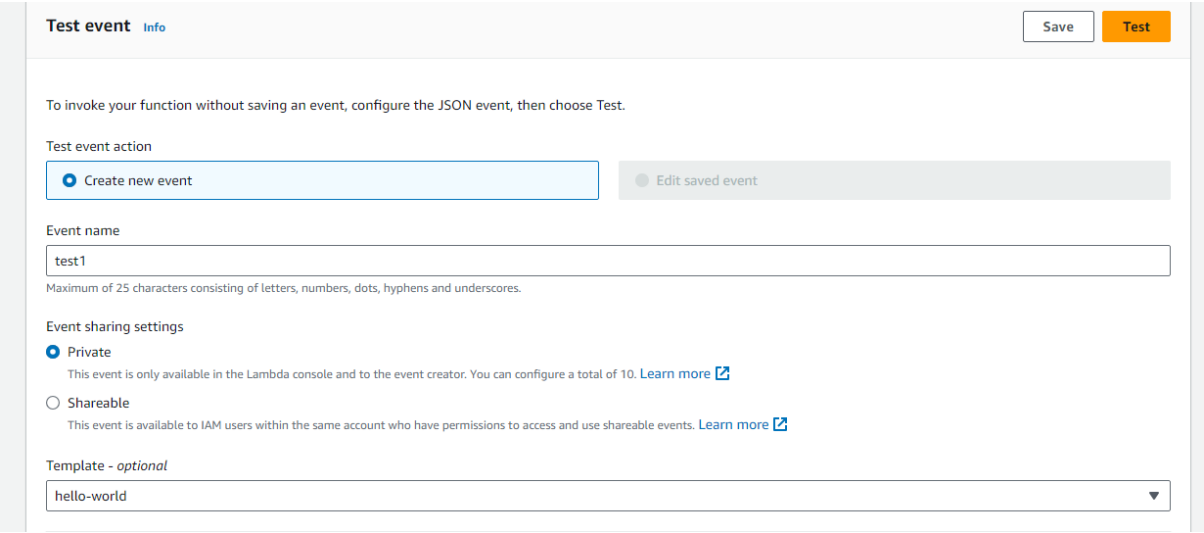
Docker image pushed successfully on ecr user



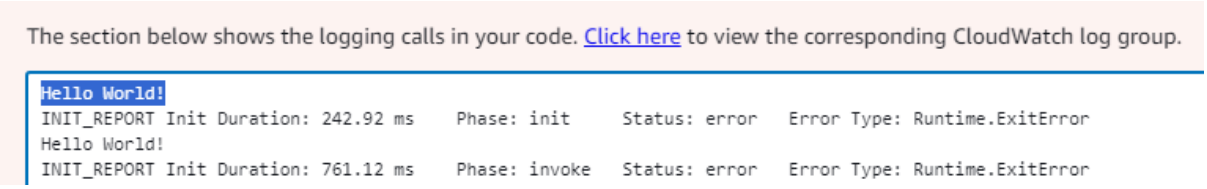
Creation of function on lambda



Successfully created lambda function



Test event of lambda function



Hello world printed using lambda function