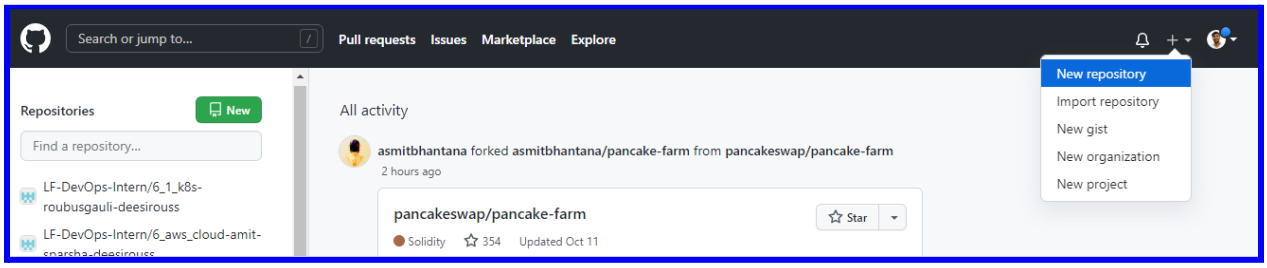
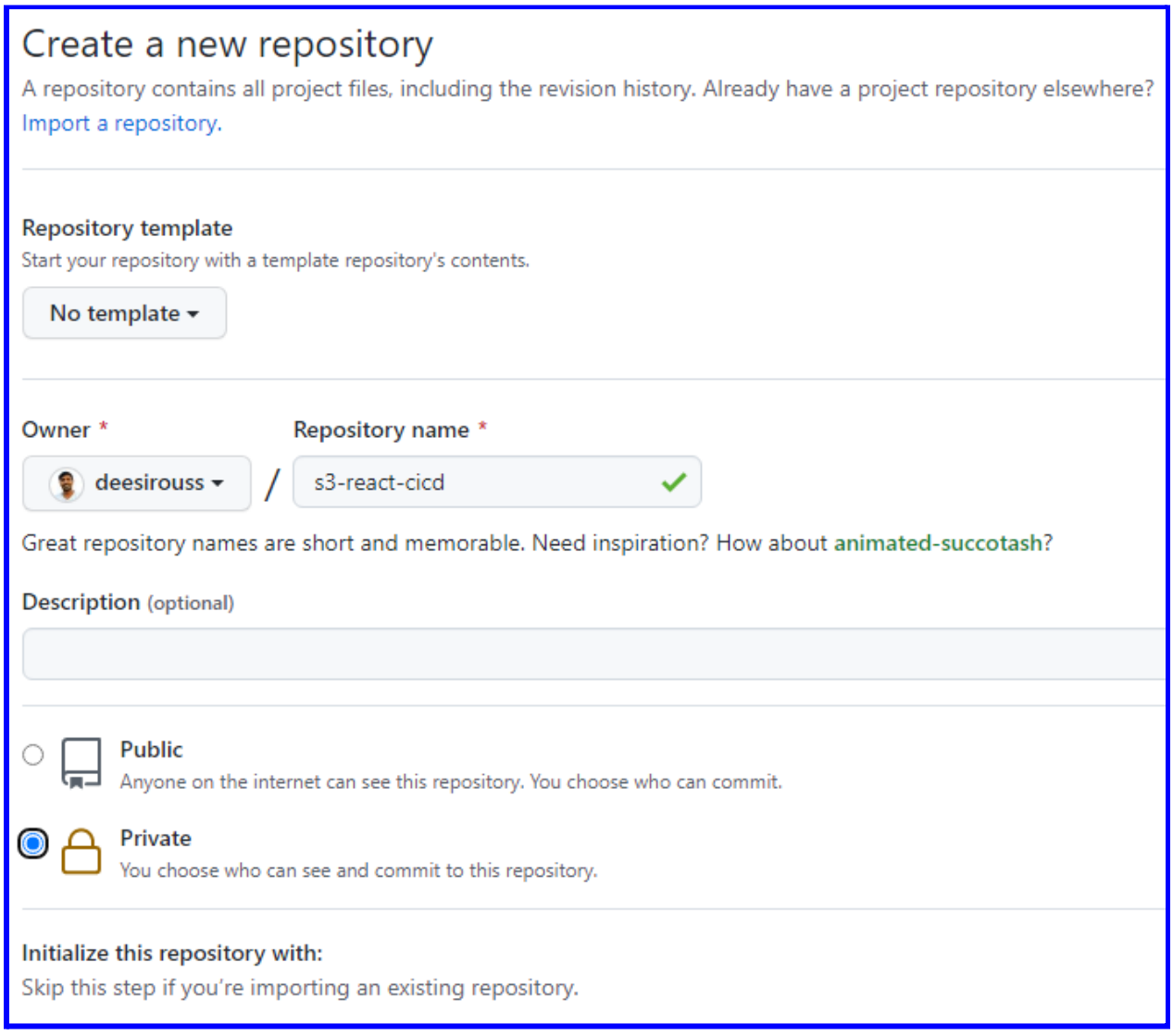
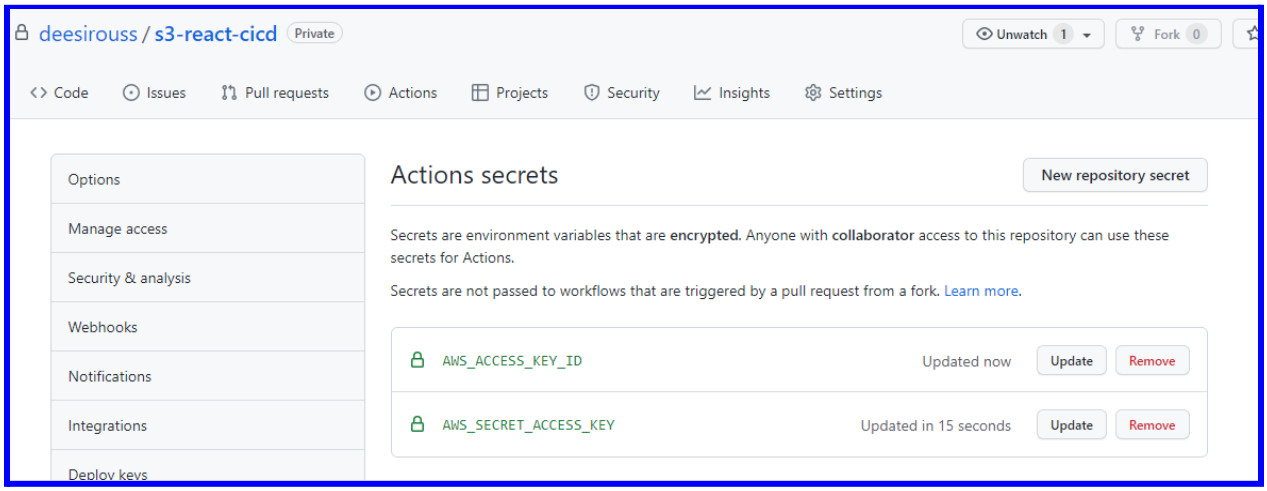
Creating new repository for s3-react-cicd



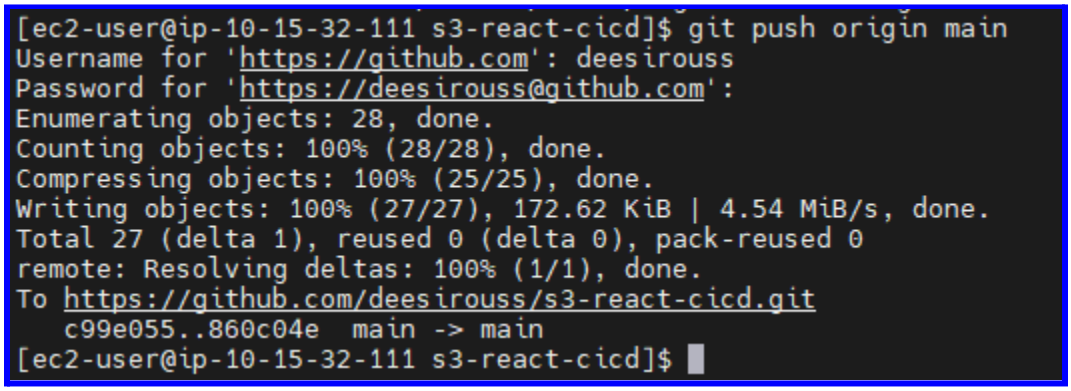
Name s3-react-cicd, Private repo



Added two secrets (Access Key and Secret Key)



Pushing Build directory to the GitHub repo



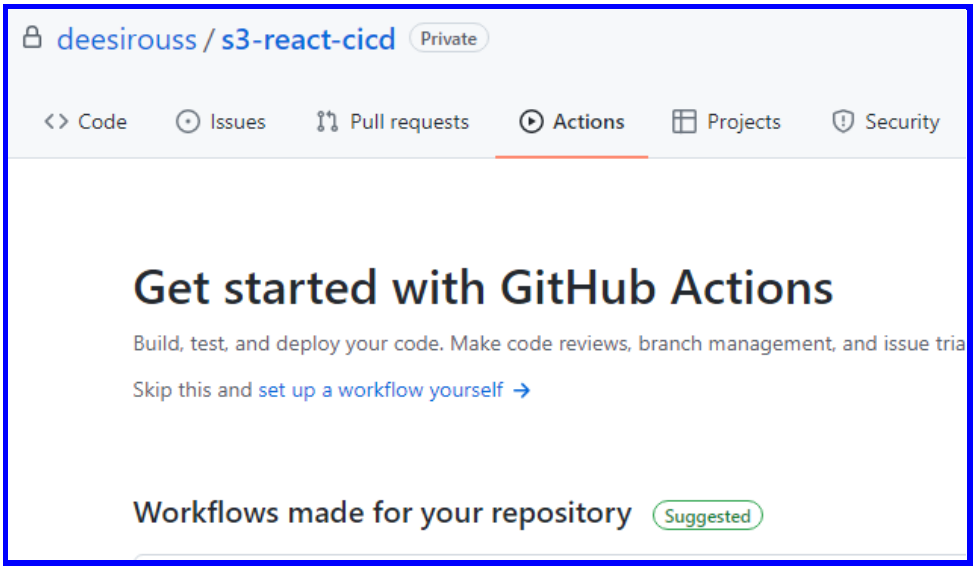
Added bucket-object-policy.json to github repository

```
{
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Statement1",
      "Effect": "Allow",
      "Principal": "*",
      "Action": "s3:GetObject",
      "Resource": "arn:aws:s3:::react-bibek-s3/*"
    }
  ]
}
```

Added s3.sh script to the github repository

```
#!/bin/bash

#checking if bucket exists using aws cli-V2-command
aws s3api head-bucket --bucket react-bibek-s3

if [ $? -ne 0 ];
then
    #if bucket doesn't exist, creating bucket
    aws s3 mb s3://react-bibek-s3 --region us-east-2

    #turning off block public access
    aws s3api put-public-access-block --bucket react-bibek-s3
--public-access-block-configuration
"BlockPublicAcls=false,IgnorePublicAcls=false,BlockPublicPolicy=false,RestrictPublicBuckets=f
alse"

    #making object public inside bucket
    aws s3api put-bucket-policy --bucket react-bibek-s3 --policy file://bucket-object-policy.json
fi

#syncing up build directory of react app
aws s3 sync build s3://react-bibek-s3

#hosting static website in this bucket
aws s3 website s3://react-bibek-s3 --index-document index.html --error-document error.html
```

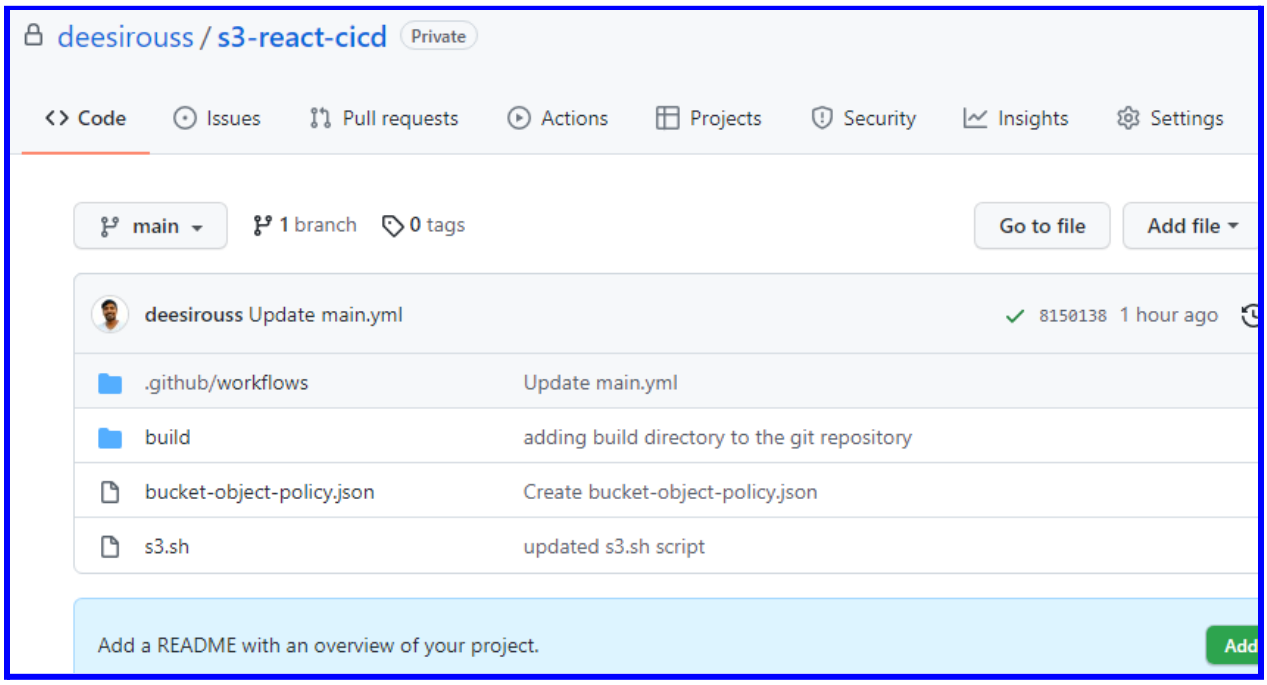
Creating GitHub Actions → Actions → Set up a workflow yourself



Workflow yml file

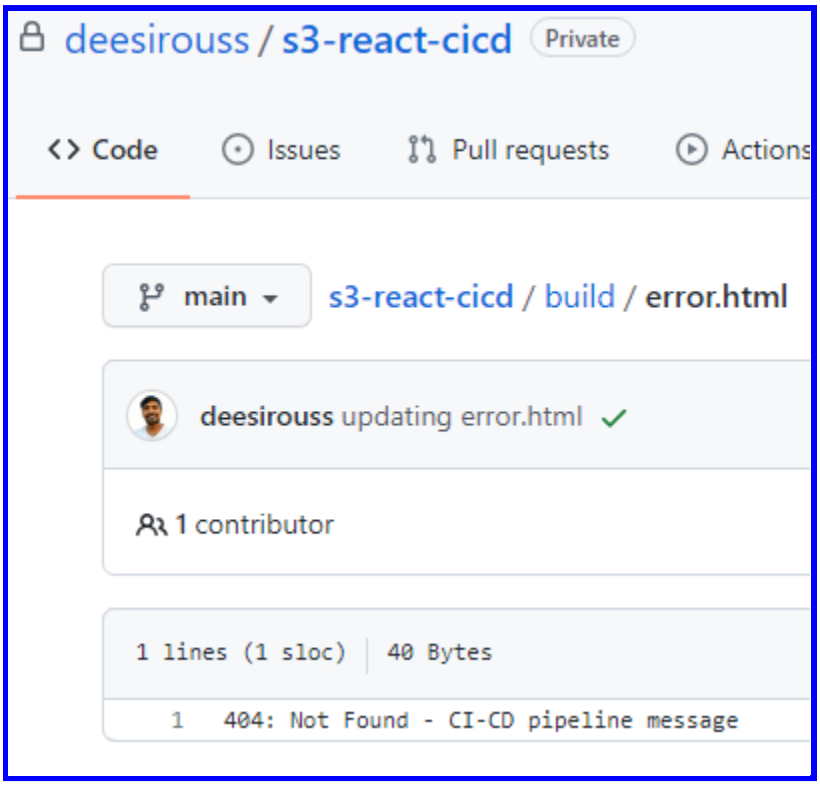
```
# This is a basic workflow to help you get started with Actions

name: CI
# Controls when the workflow will run
on:
  # Triggers the workflow on push or pull request events but only for the main branch
  push:
    branches: [ main ]
  pull_request:
    branches: [ main ]

  # Allows you to run this workflow manually from the Actions tab
  workflow_dispatch:

# A workflow run is made up of one or more jobs that can run sequentially or in parallel
jobs:
  # This workflow contains a single job called "build"
  build:
    # The type of runner that the job will run on
    runs-on: ubuntu-latest

    # Steps represent a sequence of tasks that will be executed as part of the job
    steps:
      # Checks-out your repository under $GITHUB_WORKSPACE, so your job can access it
      - uses: actions/checkout@v2

       #AWS credentials
      - name: Configure AWS credentials
        uses: aws-actions/configure-aws-credentials@v1
        with:
          aws-access-key-id: ${{ secrets.AWS_ACCESS_KEY_ID }}
          aws-secret-access-key: ${{ secrets.AWS_SECRET_ACCESS_KEY }}
          # TODO Change your AWS region here!
          aws-region: us-east-2

      - name: Chmod s3.sh
        run: |
         chmod +x ./s3.sh

      - name: Running script s3.sh
        run: ./s3.sh
        shell: bash
```

We have all these files in the github repository

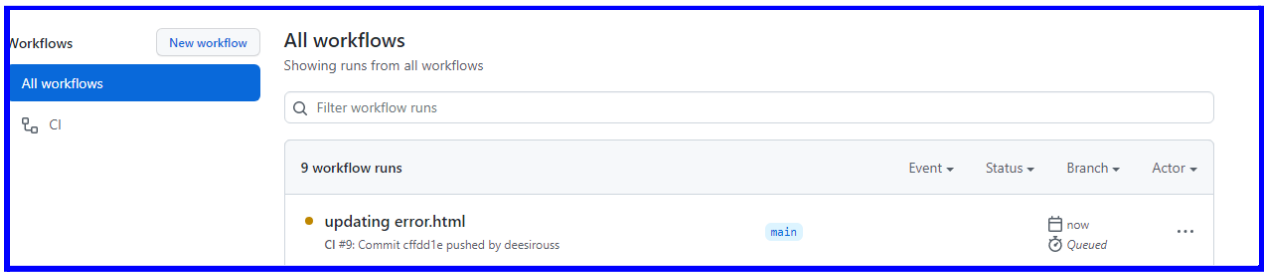


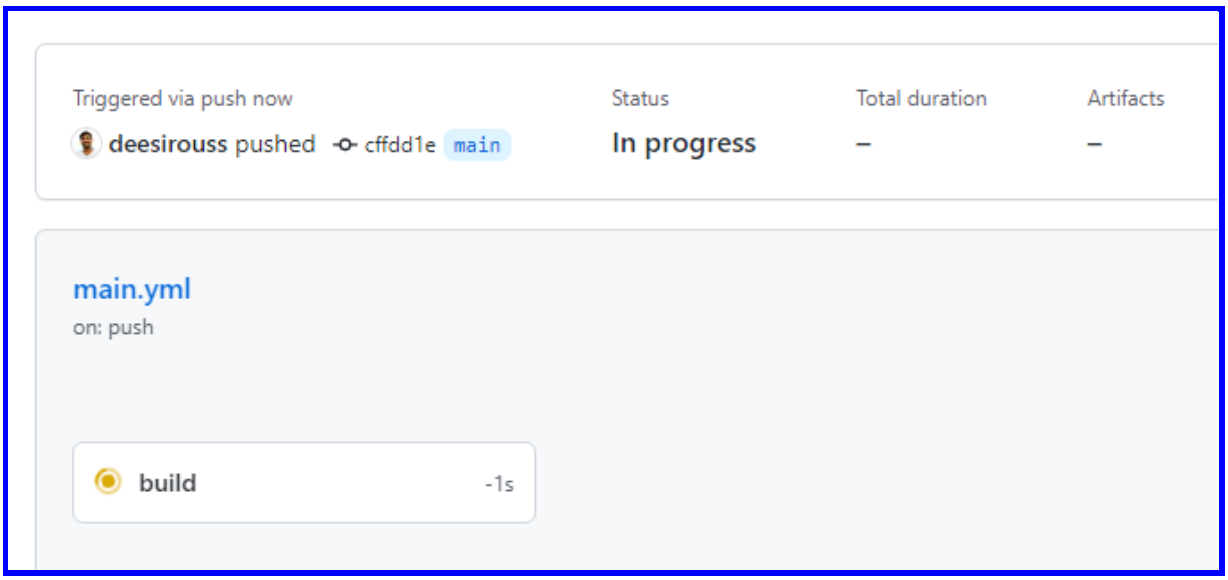
Changing the message of error.html file

*From "**404: Not Found** " to "**404: Not Found - CI-CD pipeline message**"*

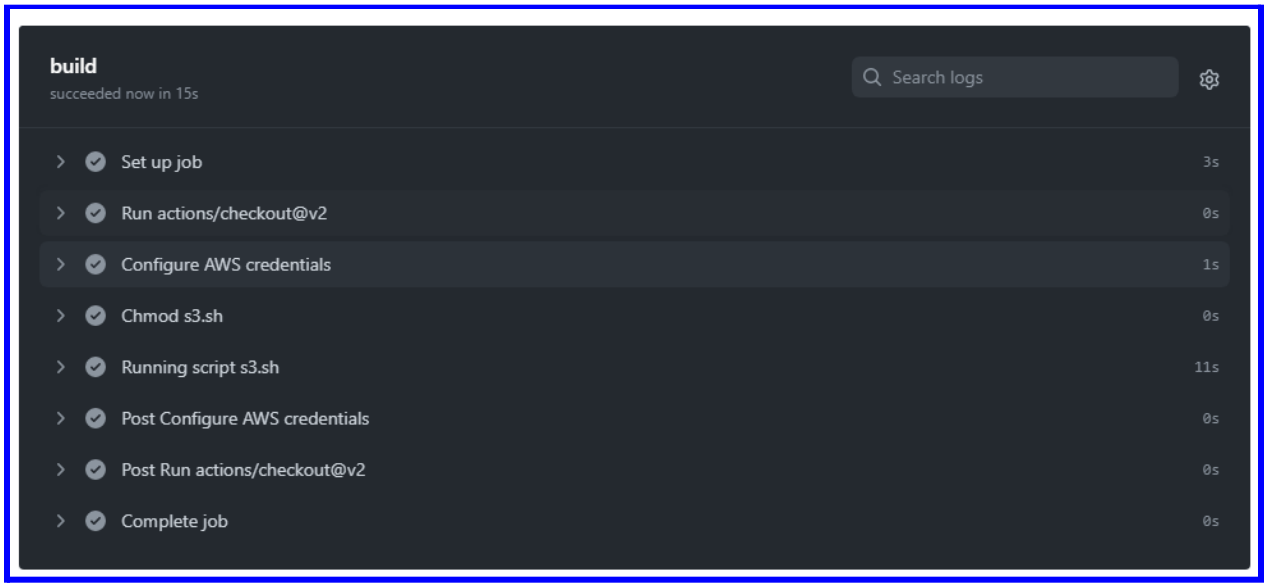


Workflow triggered

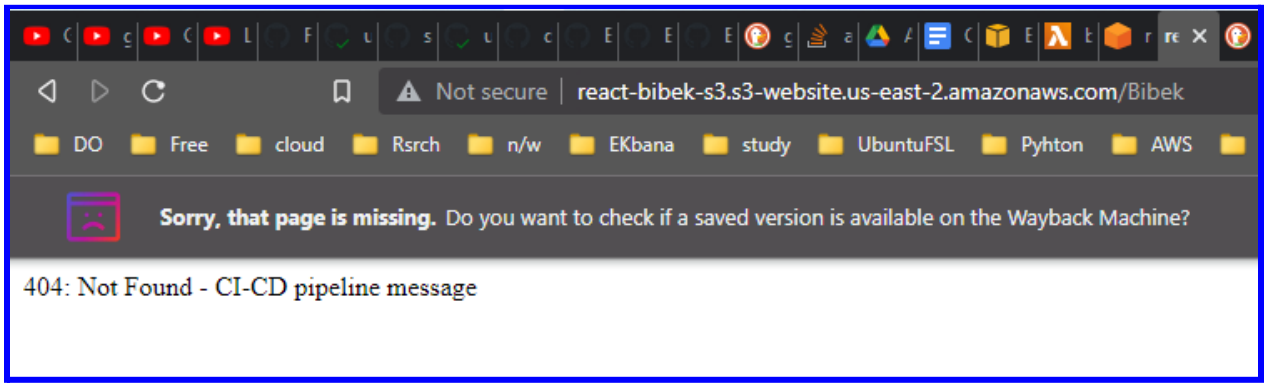




All jobs executed successfully



While browsing other than root for error.html message



Successfully runned the workflow and got the change respectively.

In this way we configured pipeline to update static hosting of s3 with react file