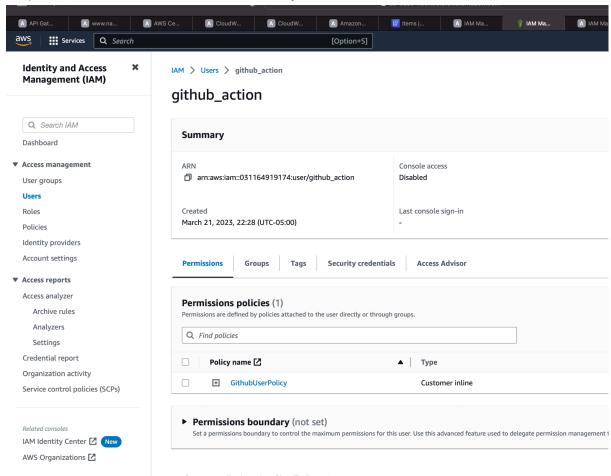
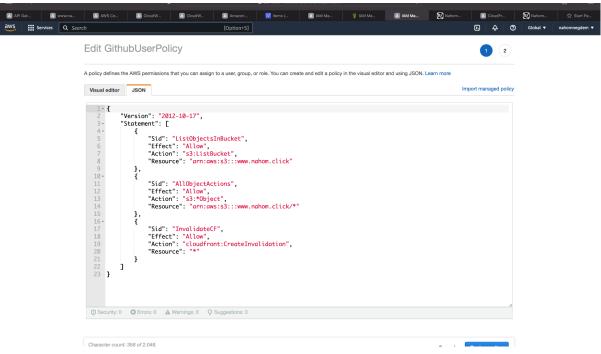
CI/CD S3 deployment with Github Actions

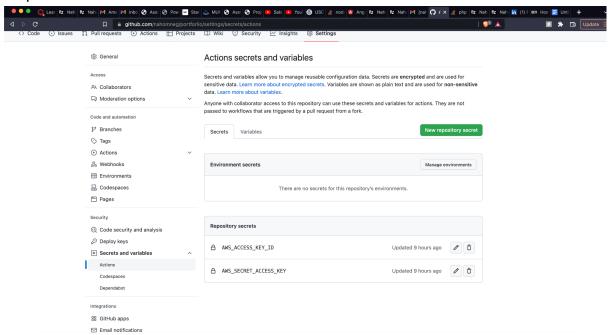
Step 1: Create an IAM user to be used by GitHub actions.



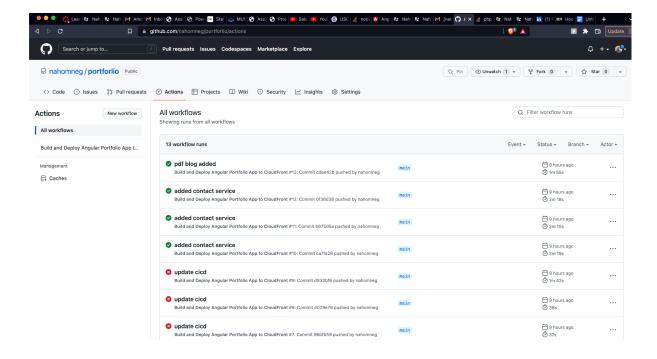
Step 2: Add the following permission by specifying the S3 bucket



Step 3: Set secret variables in Github.



Step 4: Create a workflow in github actions by clicking on new workflow button



Create a new workflow and type the following in the yaml file

```
name: Build and Deploy Angular Portfolio App to CloudFront
on:
push:
  branches: [ main ]
jobs:
build-and-deploy:
  name: Build and Deploy
  runs-on: ubuntu-latest
   env:
    BUCKET: www.nahom.click
    DIST: dist/my-portfolio
    REGION: us-east-1
    DIST ID: E30Q3A6YJIAJAF
   steps:
   - name: Checkout code
    uses: actions/checkout@v2
   - 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 }}
       aws-region: ${{ env.REGION }}
   - name: Set up Node.js environment
    uses: actions/setup-node@v2
    with:
      node-version: '14'
   - name: Install Dependencies
```

```
rum: |
   node --version
   npm ci --production

- name: Build Static Website
   run: |
    npm link @angular/cli
   npm install @angular-devkit/build-angular --force
   npm run build

- name: Copy files to the production website with the AWS CLI
   run: |
    aws s3 sync --delete ${{ env.DIST }} s3://${{ env.BUCKET }}

- name: Copy files to the production website with the AWS CLI
   run: |
    aws cloudfront create-invalidation \
        --distribution-id ${{ env.DIST_ID }} \
        --paths "/*"
```

Step 5: pull the yaml file to your local file and now you can push new changes to github and a work flow to update the s3 and invalidate the previous caches in CloudFront will happen.

