Github actions lab

Deploy a static website using githubactions and s3 bucket

Step 1: Set Up Your S3 Bucket

Create s3 bucket:

A screenshot of a computer

Description automatically generated

Enable static website hosting : index.html

A screenshot of a computer

Description automatically generated

Add bucket policy:

```yml

{

\_\_\_"Version": "2012-10-17",

\_\_\_"Statement": [

{

"Sid": "PublicReadGetObject",

"Effect": "Allow",

"Principal": "\*",

"Action": "s3:GetObject",

"Resource": "arn:aws:s3:::YOUR\_BUCKET\_NAME/\*"

}

]

}

```

A screenshot of a computer

Description automatically generated

Step 2: Configure AWS Credentials

Attach the AmazonS3FullAccess policy to the user.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

Add Secrets to GitHub: AWS\_ACCESS\_KEY\_ID and AWS\_SECRET\_ACCESS\_KEY

A screenshot of a computer

Description automatically generated

Step 3: Create GitHub Actions Workflow

create a .github/workflows directory and add deploy.yml file

```yml

name: Deploy Static Website

on:

push:

branches:

- main

jobs:

deploy:

runs-on: ubuntu-latest

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: us-east-1 # Change to your bucket's region

- name: Sync files to S3

run:

aws s3 sync . s3://YOUR\_BUCKET\_NAME --delete

```

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated

The file will automatically deploy your site on s3 bucket.

Check your website is running or not by copying the link provided in the bucket properties.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated