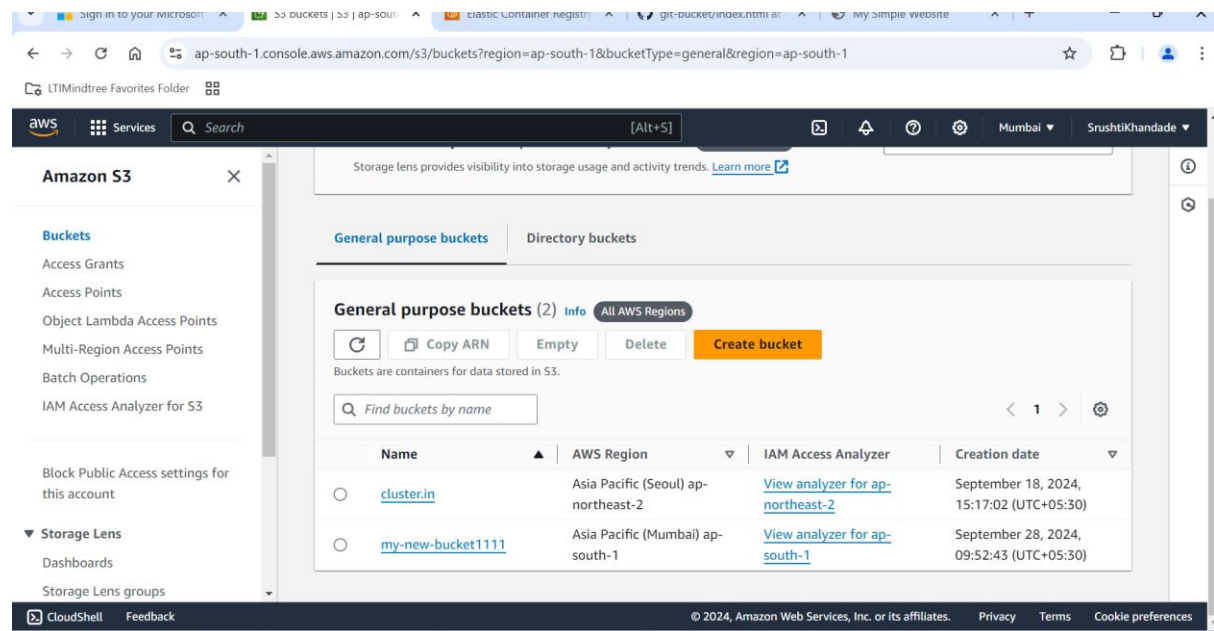


## Github actions lab

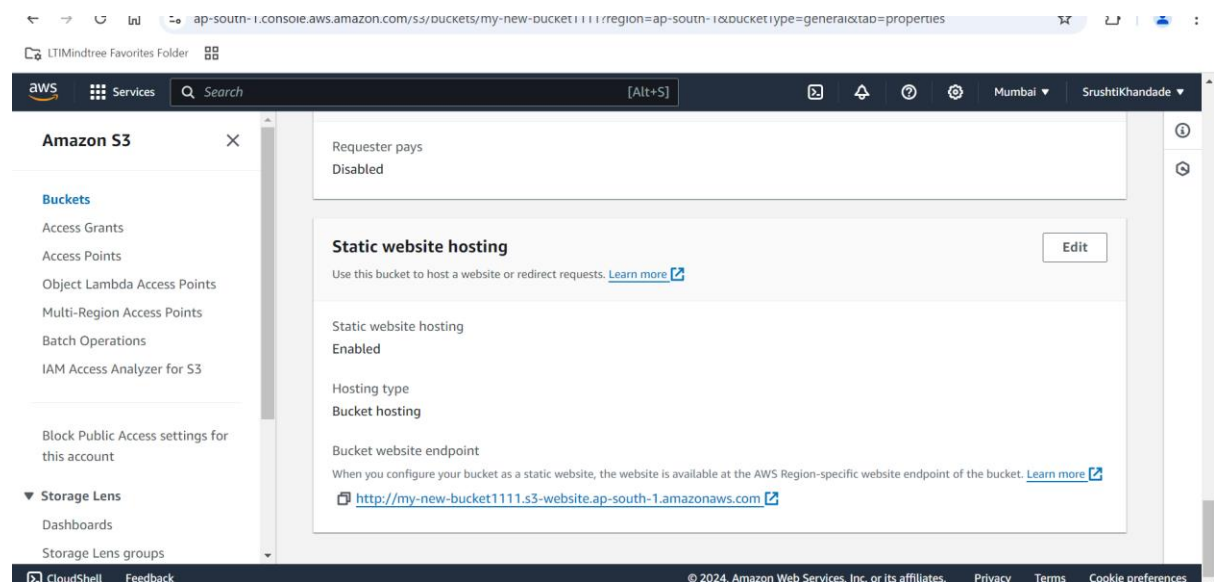
### Deploy a static website using githubactions and s3 bucket

#### Step 1: Set Up Your S3 Bucket

##### Create s3 bucket:



##### Enable static website hosting : index.html

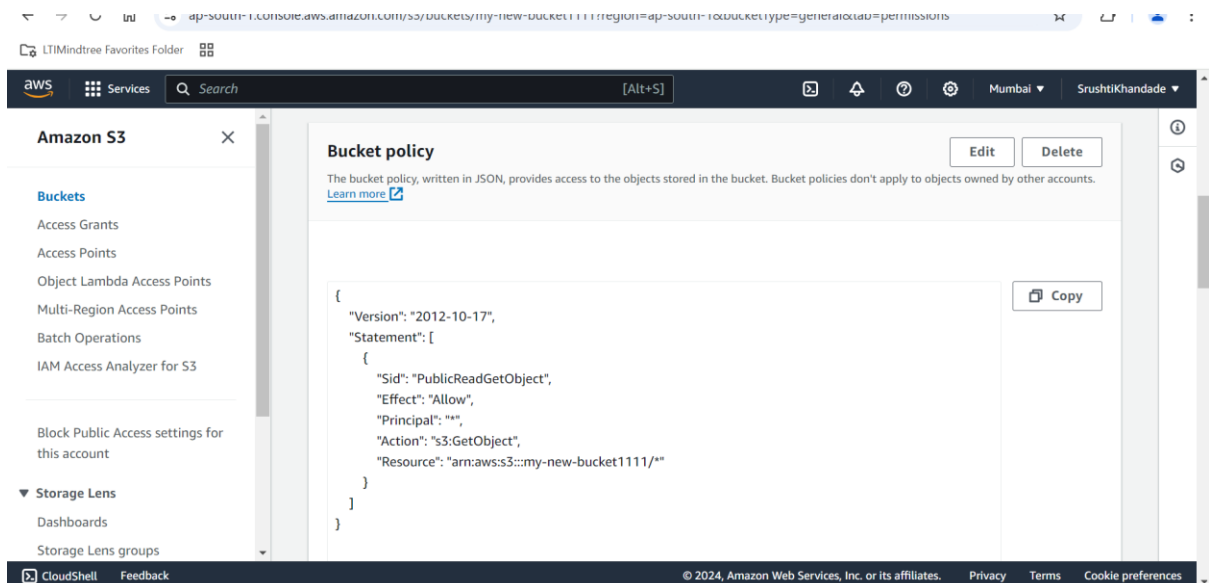


##### Add bucket policy:

```
```.yaml
```

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

```
```.
```



## Step 2: Configure AWS Credentials

Attach the AmazonS3FullAccess policy to the user.

The image shows two screenshots. The top screenshot is of a Microsoft Excel spreadsheet titled 'cluster-test\_accessKe...'. The spreadsheet has two columns: 'Access key' and 'Secret access key'. The first row contains the values 'AKIAWN26KBRN45QHILNM' and 'wUV3O2wPV9Ka3DVF2/Zs/fDrFP4ffnyEOe/n6Uwa'. The bottom screenshot is of the AWS IAM console, specifically the 'Permissions policies (5)' page. It shows a list of five AWS managed policies: 'AdministratorAccess', 'AmazonEC2FullAccess', 'AmazonRoute53FullAccess', 'AmazonS3FullAccess', and 'IAMFullAccess'. The 'AmazonS3FullAccess' policy is highlighted. The 'Permissions boundary' is set to '(not set)'.

**Microsoft Excel Spreadsheet:**

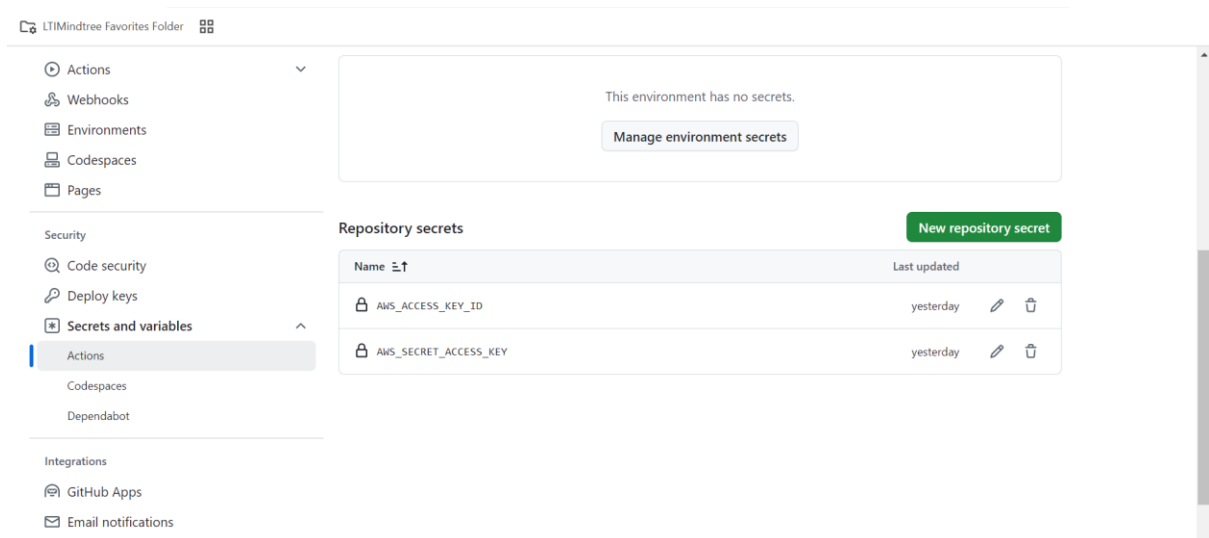
Access key	Secret access key
AKIAWN26KBRN45QHILNM	wUV3O2wPV9Ka3DVF2/Zs/fDrFP4ffnyEOe/n6Uwa

**AWS IAM Console - Permissions policies (5):**

Policy name	Type	Attached via
AdministratorAccess	AWS managed - job function	Directly
AmazonEC2FullAccess	AWS managed	Directly
AmazonRoute53FullAccess	AWS managed	Directly
AmazonS3FullAccess	AWS managed	Directly
IAMFullAccess	AWS managed	Directly

**Permissions boundary (not set)**

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



### 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 }

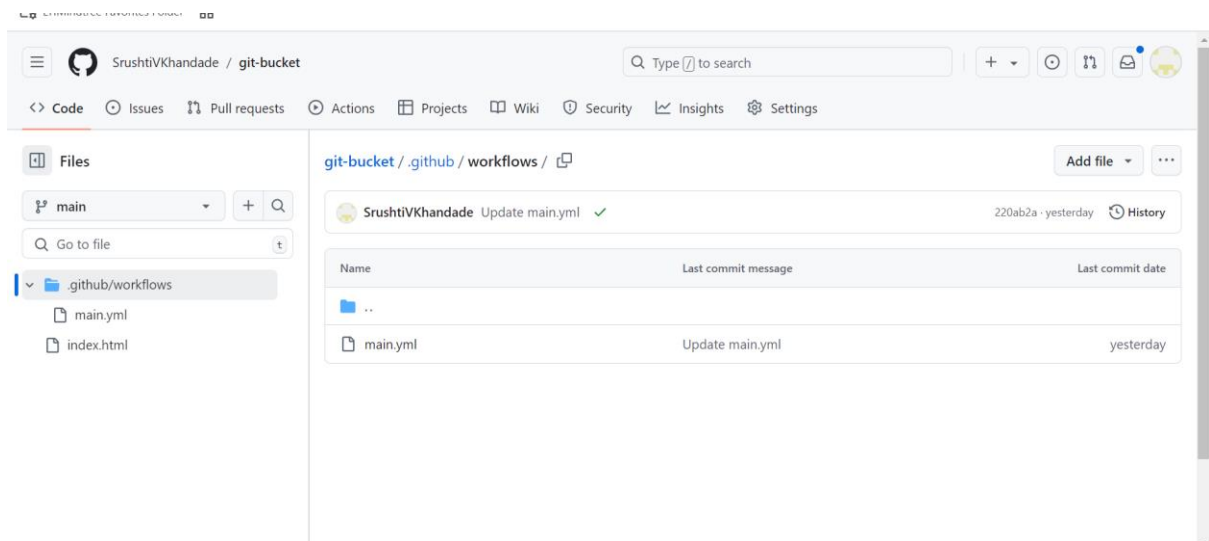
aws-region: us-east-1 # Change to your bucket's region

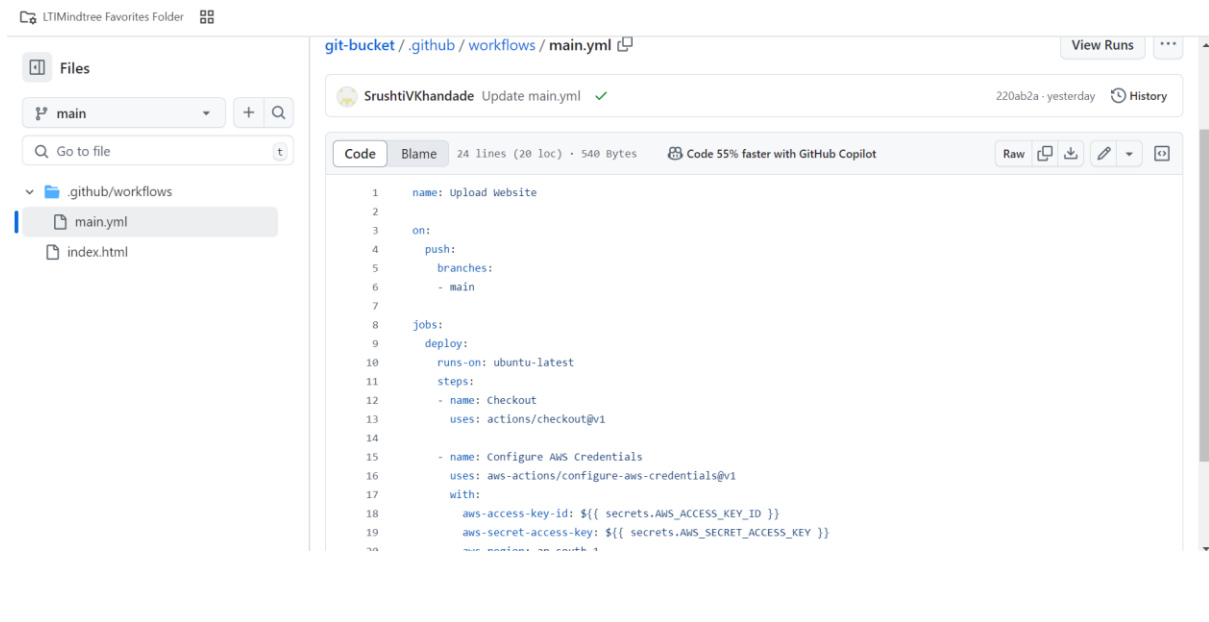
- name: Sync files to S3

run:

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

...





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.

### Static website hosting

Use this bucket to host a website or redirect requests. [Learn more](#)

Static website hosting

Enabled

Hosting type

Bucket hosting

Bucket website endpoint

When you configure your bucket as a static website, the website is available at the AWS Region-specific website endpoint of the bucket. [Learn more](#)

<http://my-new-bucket1111.s3-website.ap-south-1.amazonaws.com>

Edit

