

# DEVOPS PROJECT

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## Steps involved to set-up CI/CD pipeline

### CI/CD pipeline using GitHub action to deploy code on AWS S3 bucket.

#### 1. Create an IAM User:

Log in to your AWS Management Console.

Navigate to the IAM (Identity and Access Management) dashboard.

Create a new IAM user or use an existing one. Ensure that the user has appropriate permissions to interact with AWS S3, such as `s3:PutObject` and `s3:ListBucket` permissions.

#### 2. Generate AWS Access Key:

After creating the IAM user, generate an **AWS Access Key and Secret Access Key**. Store these credentials securely, as you'll need them later.

#### 3. Fork the project Repository:

Fork the project repository into own GitHub profile

#### 4. Configure GitHub Secrets:

In your code repository, go to the "Settings" tab.

Navigate to "Secrets" or "Actions" > "Secrets."

Add two secrets: `AWS_ACCESS_KEY_ID` and `AWS_SECRET_ACCESS_KEY`, and set their values to the credentials generated in step 2.

#### 5. Create GitHub Actions Workflow:

Inside your GitHub code repository, create a `.github/workflows` directory if it doesn't exist.

Create a YAML file (e.g., `main.yml`) inside the workflows directory to define your CI/CD workflow using GitHub Actions.

Here's a link of `main.yml` file: <https://github.com/123usermariya/react-ssr/commit/8a4751371c6f733c69d4e8036c8193091f760484>

#### 6. Commit and Push:

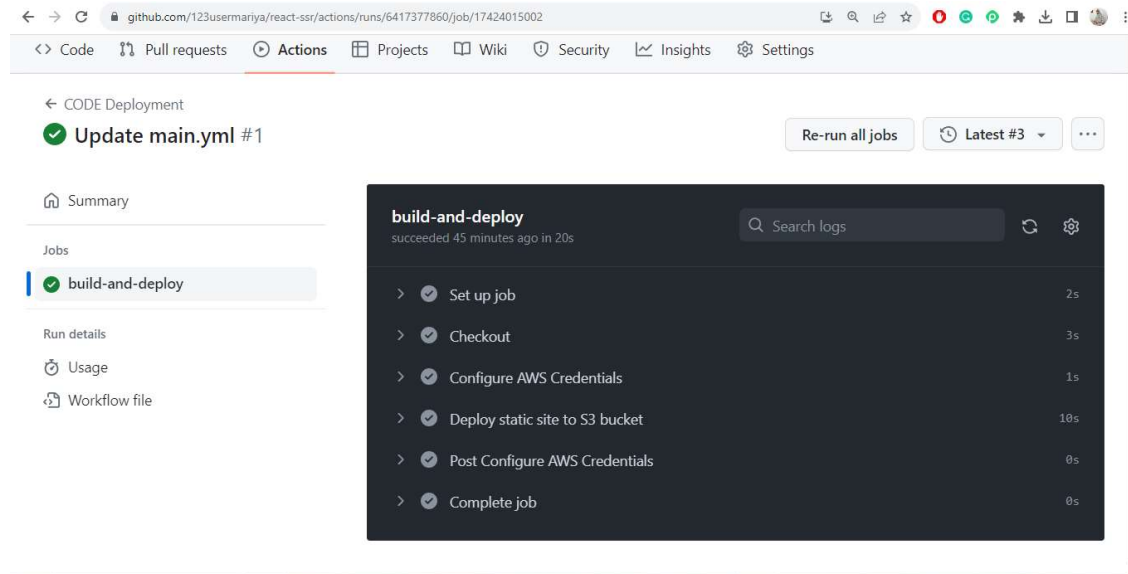
Commit the `main.yml` file to your GitHub repository and push it to the master branch (or the branch you specified in the workflow file).

#### 7. GitHub Action Execution:

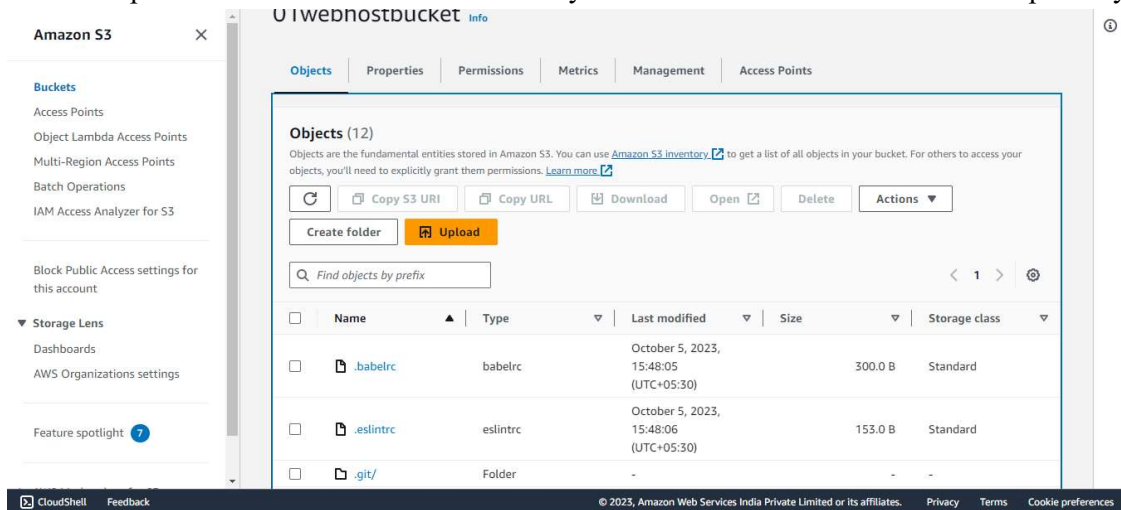
GitHub Actions will automatically trigger when you push changes to the specified branch.

## 8. Monitor the Workflow:

Monitor the progress of the GitHub Actions workflow by visiting the "Actions" tab in your GitHub code repository.



This pipeline will automatically deploy code to an S3 bucket whenever changes are pushed to the specified branch of your GitHub code repository.



```
require( "babel-registers" )({ {
  presets: [ "env" ],
  plugins: [
    {
      "css-modules-transform",
      {
        camelCase: true,
        extensions: [ ".css", ".scss" ],
      },
    },
    "dynamic-import-node",
  ],
});
require( "./src/server" );
```