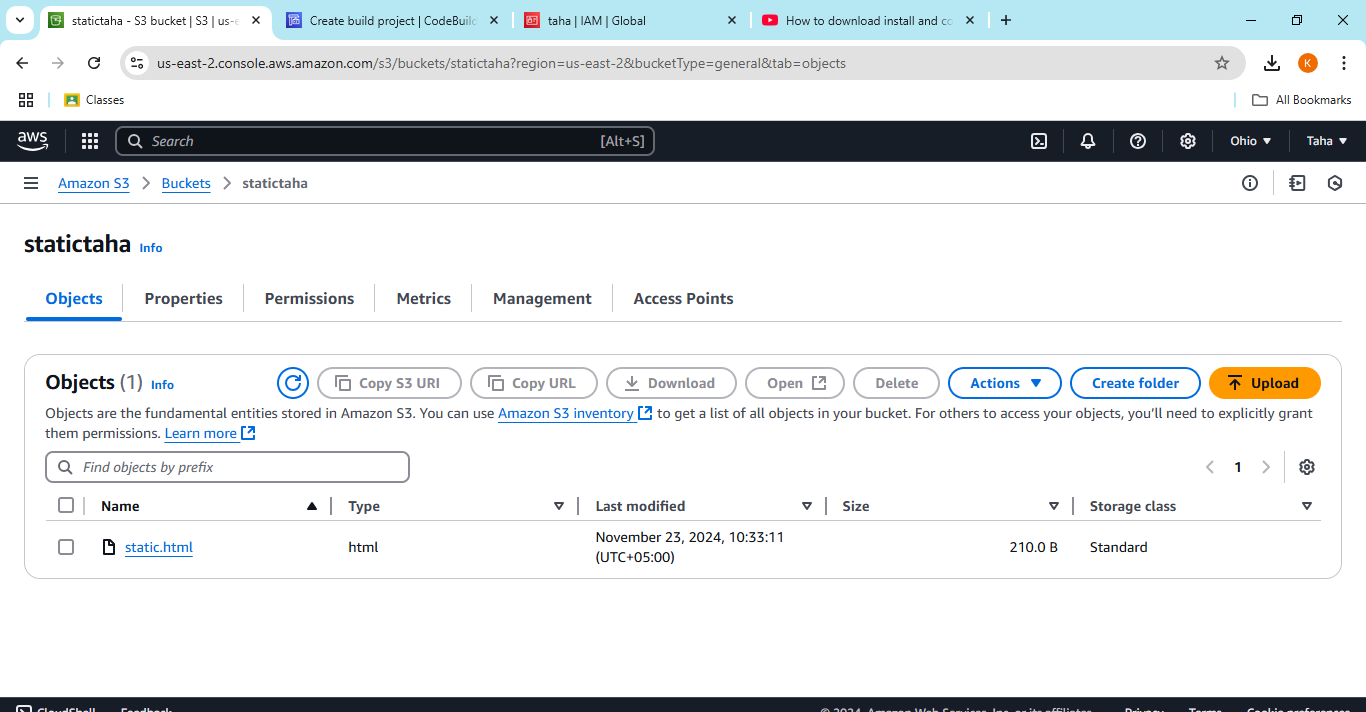
**DevOps Assignment (Code Build with s3 and GitHub)**

**Done By =Taha Jawaid (21k-3881)**

**Code Build with s3:**



Create bucket named= statictaha and then upload static file named=static.html

A screenshot of a computer

Description automatically generated

Adding bucket policy for providing public access

A screenshot of a computer

Description automatically generated

Create IAM user named=taha

A screenshot of a computer

Description automatically generated

Give full permissions of ec2, s3, codebuild

Now, doig codebuild cofiguration

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Description automatically generated

Below picture is the Buispec code:

version: 0.2

phases:

install:

commands:

- echo "Starting install phase - No dependencies needed for static files"

build:

commands:

- echo "Build phase - Skipping as this is a static site"

post\_build:

commands:

- echo "Post-build phase - Syncing files to S3 bucket"

- aws s3 ls s3://statictaha || (echo "Bucket not found, check the bucket name or permissions" && exit 1)

- aws s3 sync . s3://statictaha --exclude "Buildspec.yml"

artifacts:

files:

- '\*\*/\*'

discard-paths: no

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Description automatically generated

A screenshot of a computer

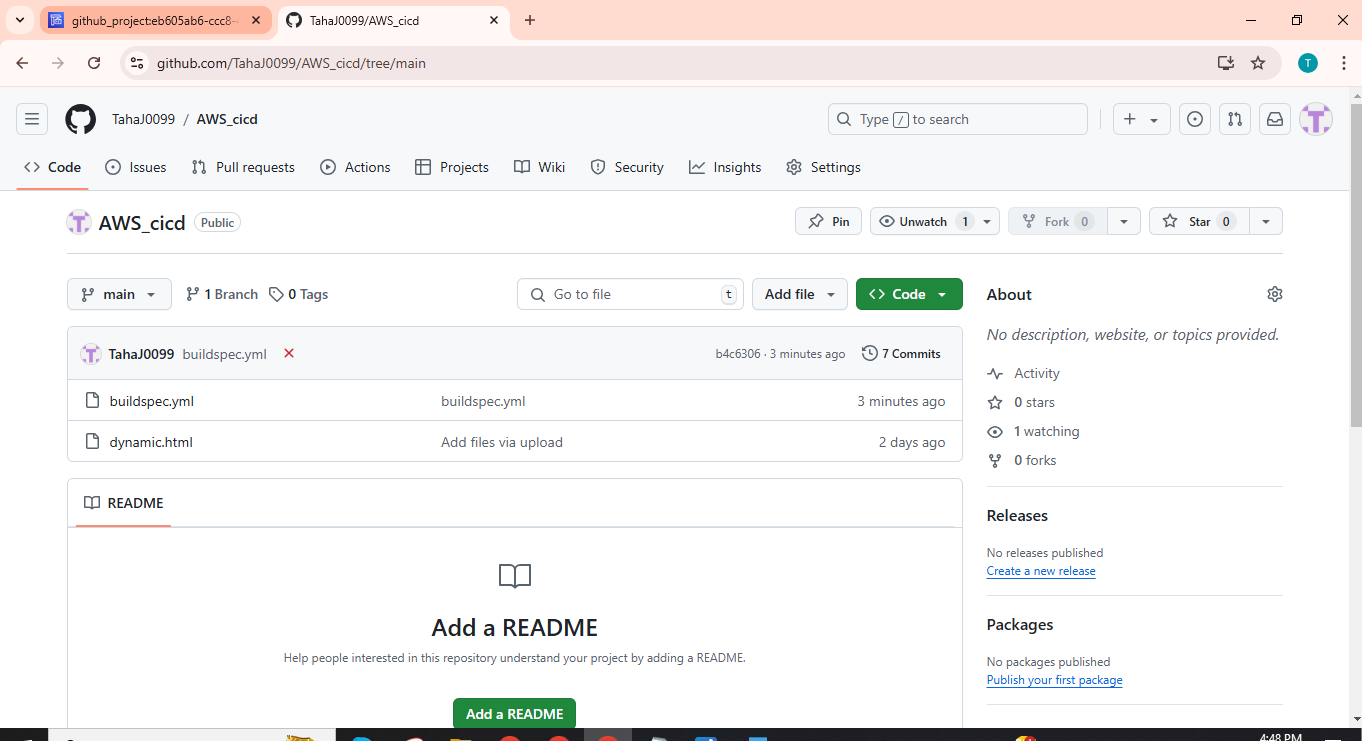
Description automatically generated

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Description automatically generated

The project Build successfully

**For CodeBuild using GitHub:**



Created a new repository named=AWS\_cicd and uploaded adynamic file along with buildspec file.

Below is buildspec file code:

version: 0.2

phases:

install:

runtime-versions:

nodejs: 16 # Optional if you don't need Node.js for other tasks

commands:

- echo "No installation required for static/dynamic HTML."

pre\_build:

commands:

- echo "Pre-build:Running any preparation tasks..."

build:

commands:

- echo "Build:Running the build process..."

- echo "No build steps needed for static/dynamic HTML."

post\_build:

commands:

- echo "Post-build:Preparing artifacts for deployment..."

- echo "Build process completed."

artifacts:

files:

- '\*\*/\*' # Include all files in the directory

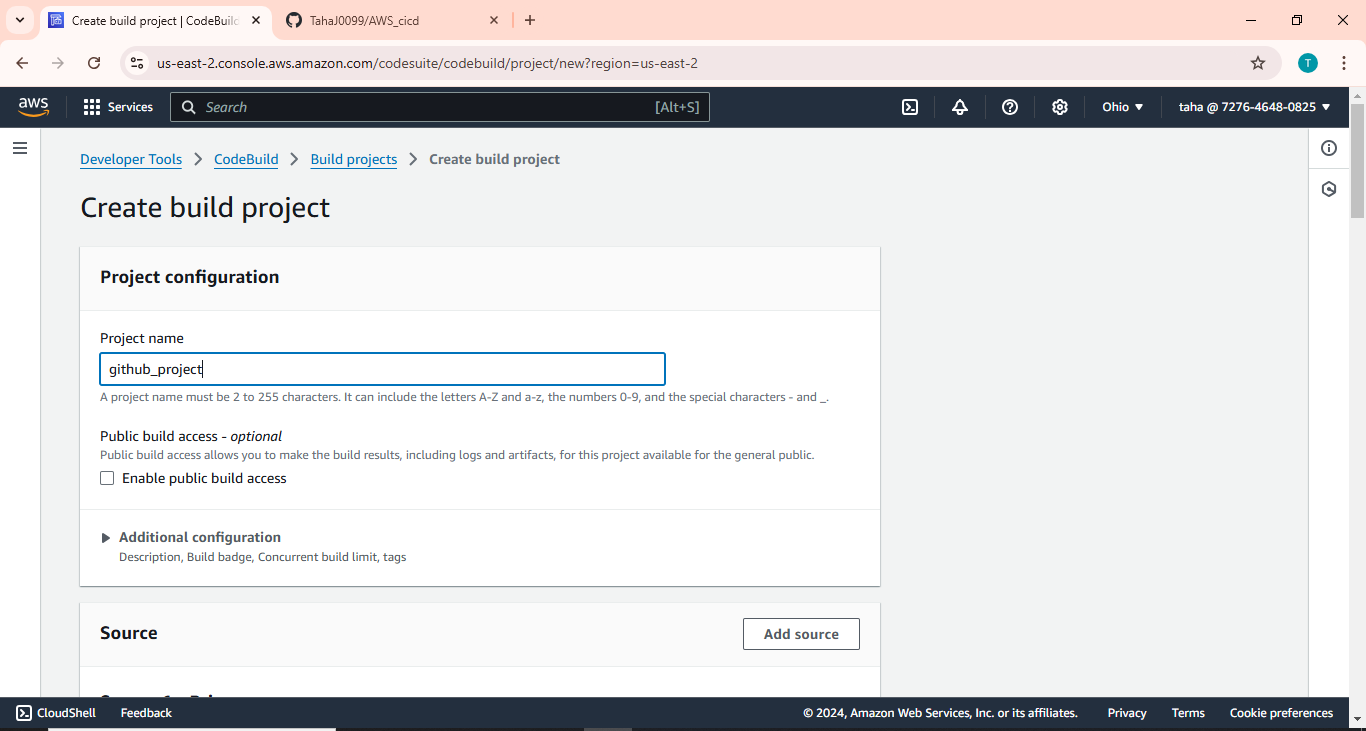
base-directory: '.' # Root directory of your application

discard-paths: no

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Description automatically generated

Using the same IAM User ,used for s3 before.



Creating a new build project named as =github\_project.

A screenshot of a computer

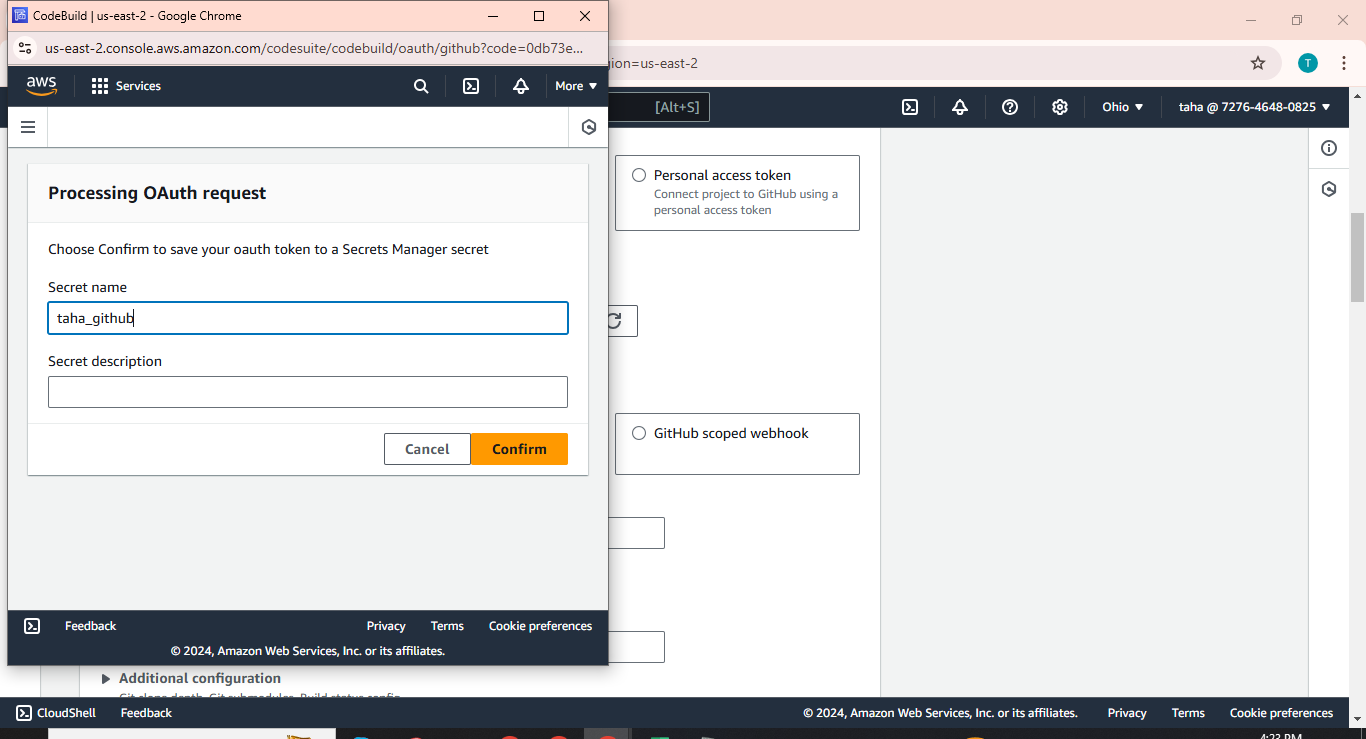
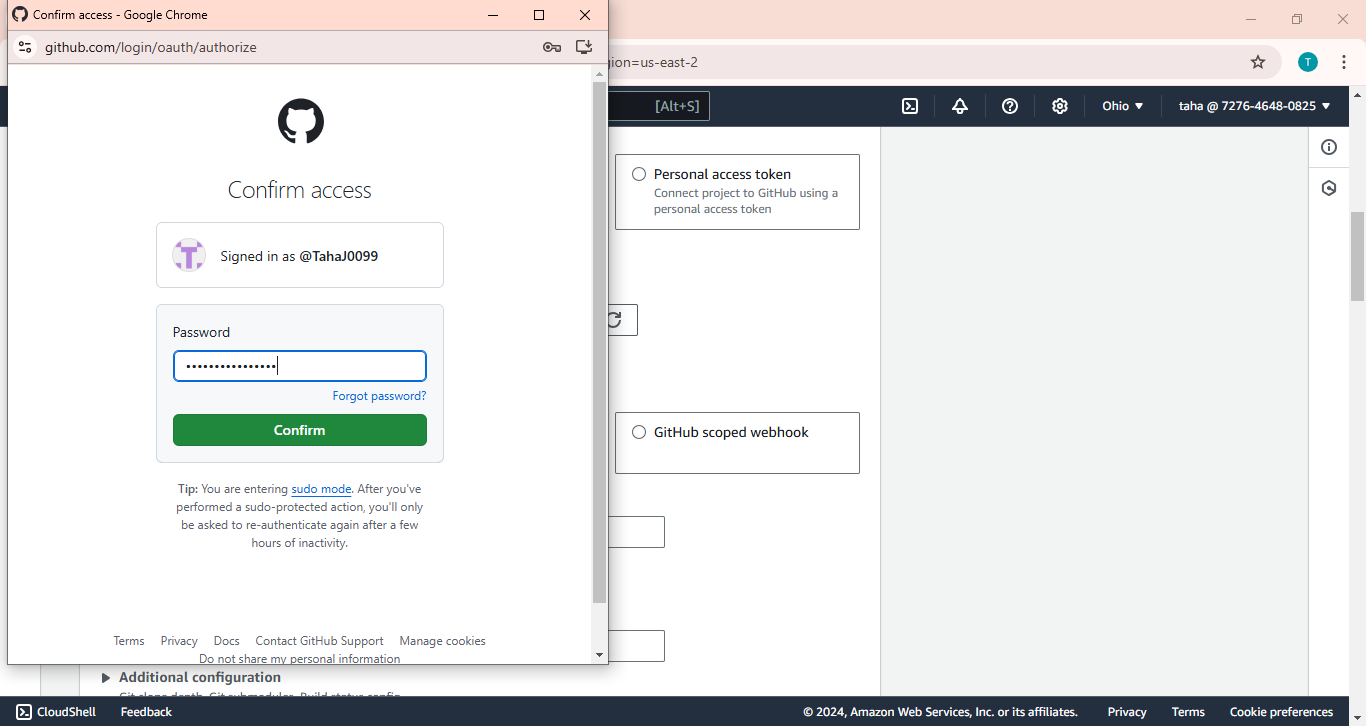
Description automatically generated

Primary source is Github

Custom credentials

OAuth app

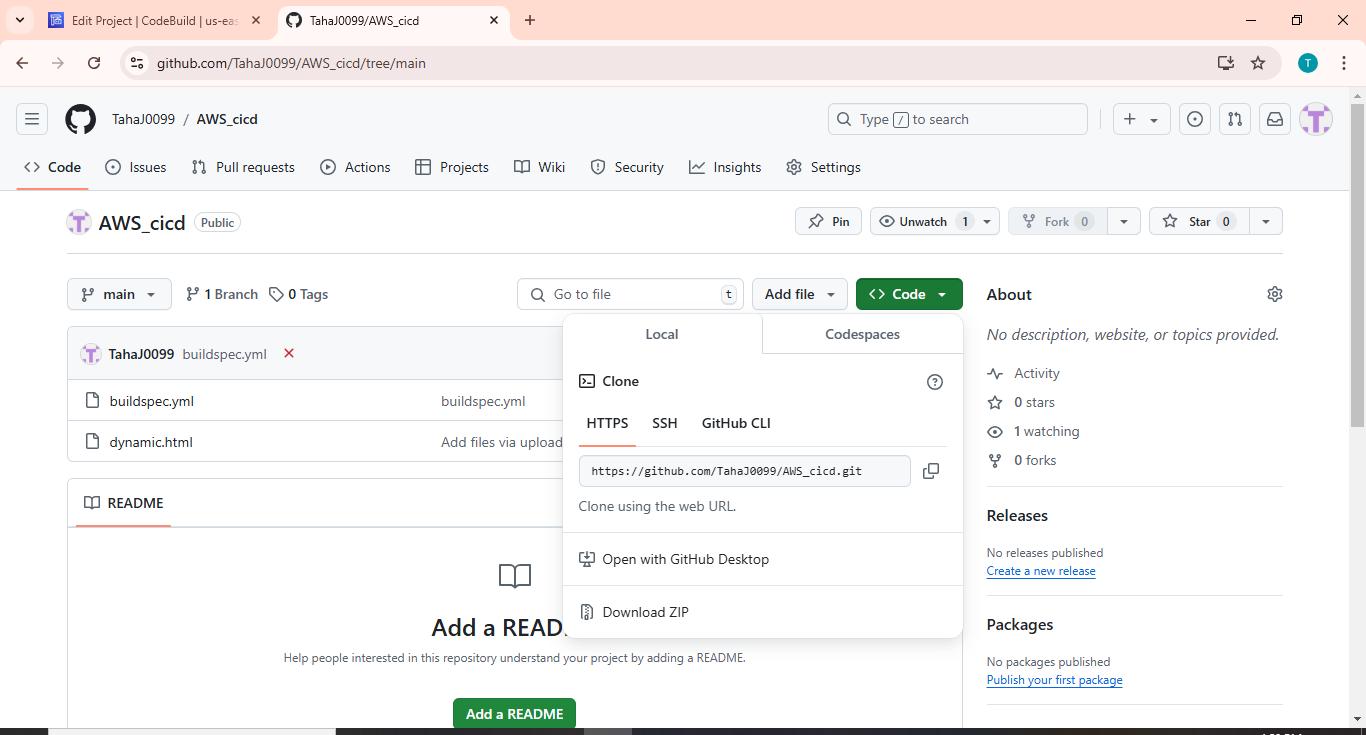
Created a new secret connection b/w AWS and GitHub as shown in the image below.



After that the connection is build b/w AWS and GitHub.

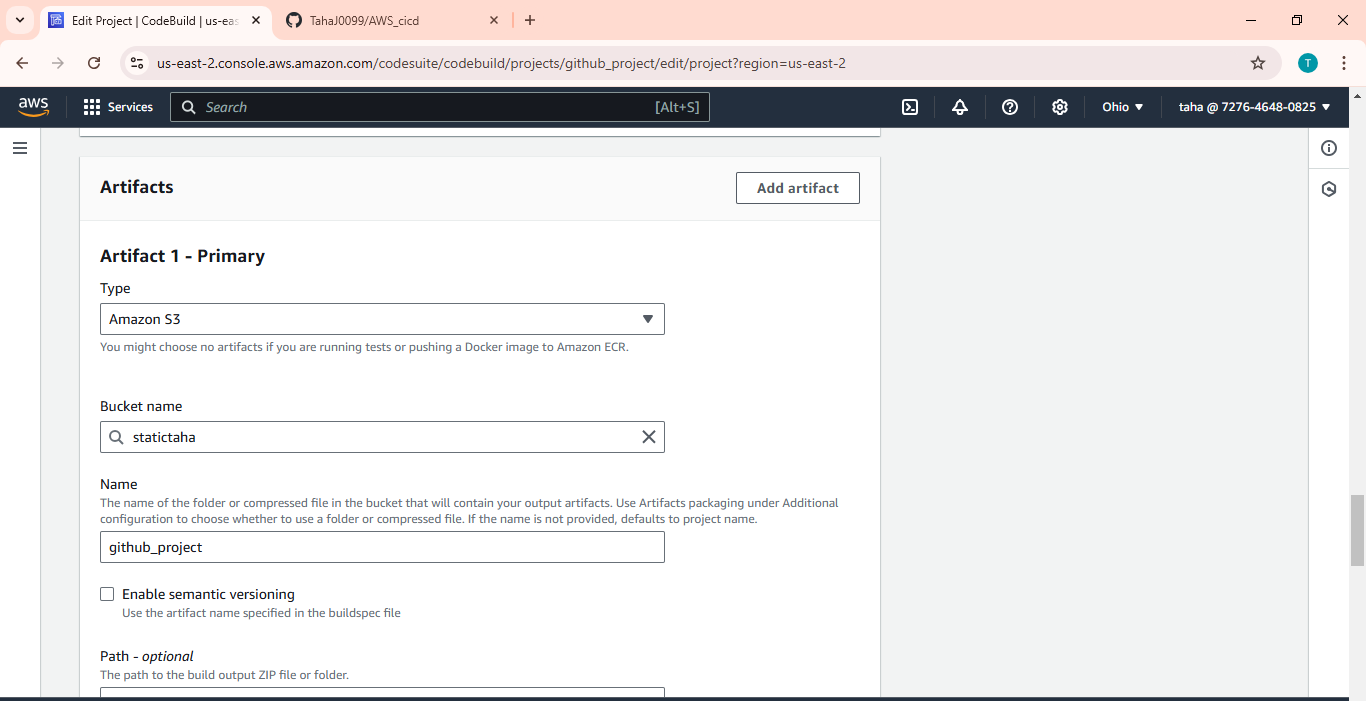
A screenshot of a computer

Description automatically generated

Now copy the URL of the specific repositoryA screenshot of a computer

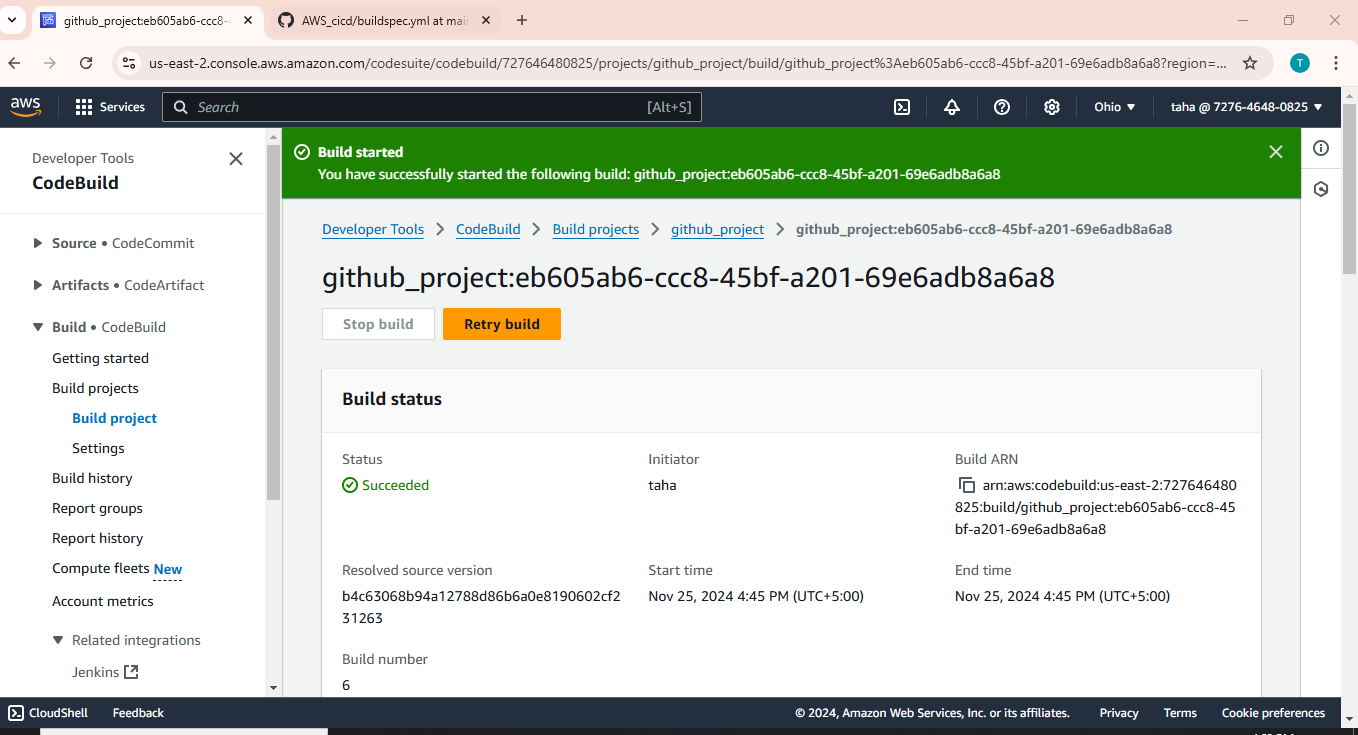
Description automatically generated

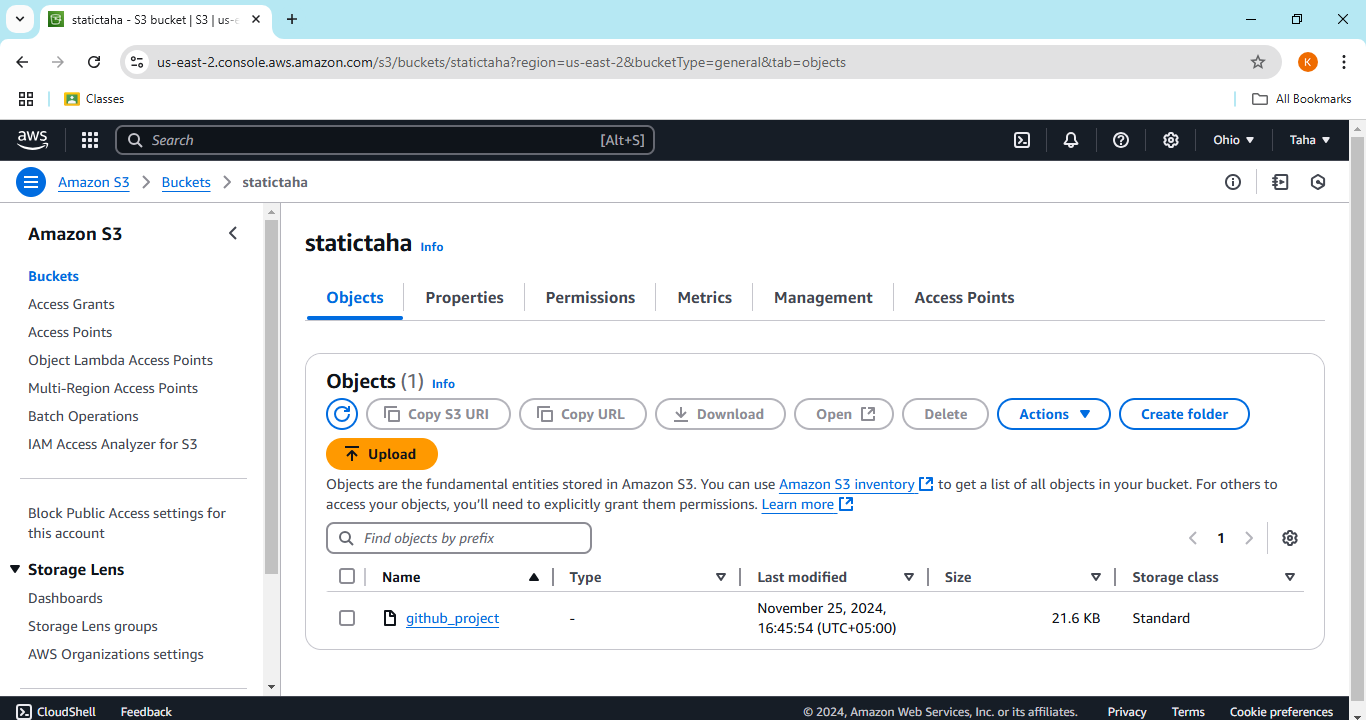
Select the Insert Build Commands and added the builspec code as written buildspec file and uploaded to GitHub repo.



Select the Artifact and bucket in which you want to get the artifact in my case, the bucket name is=statictaha.

After that, the Code is built successfully as shown in the figure below.





The artifact is uploaded to the bucket successfully.