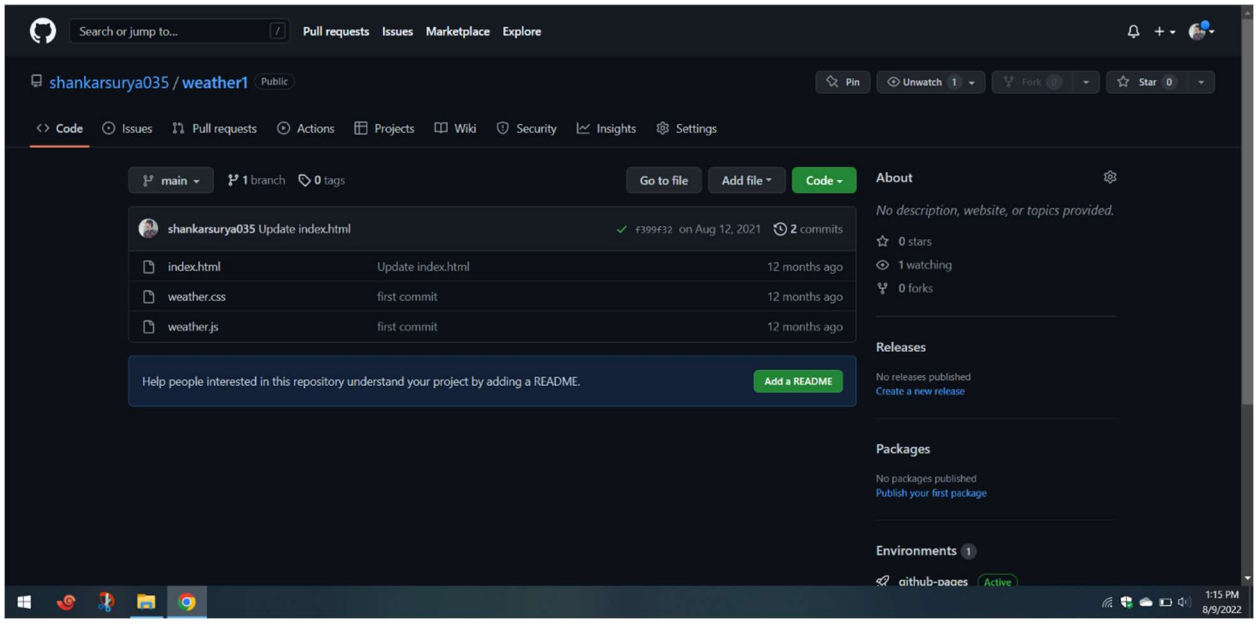
How to set up simple CI/CD using AWS CodePipeline

-Surya Shankar

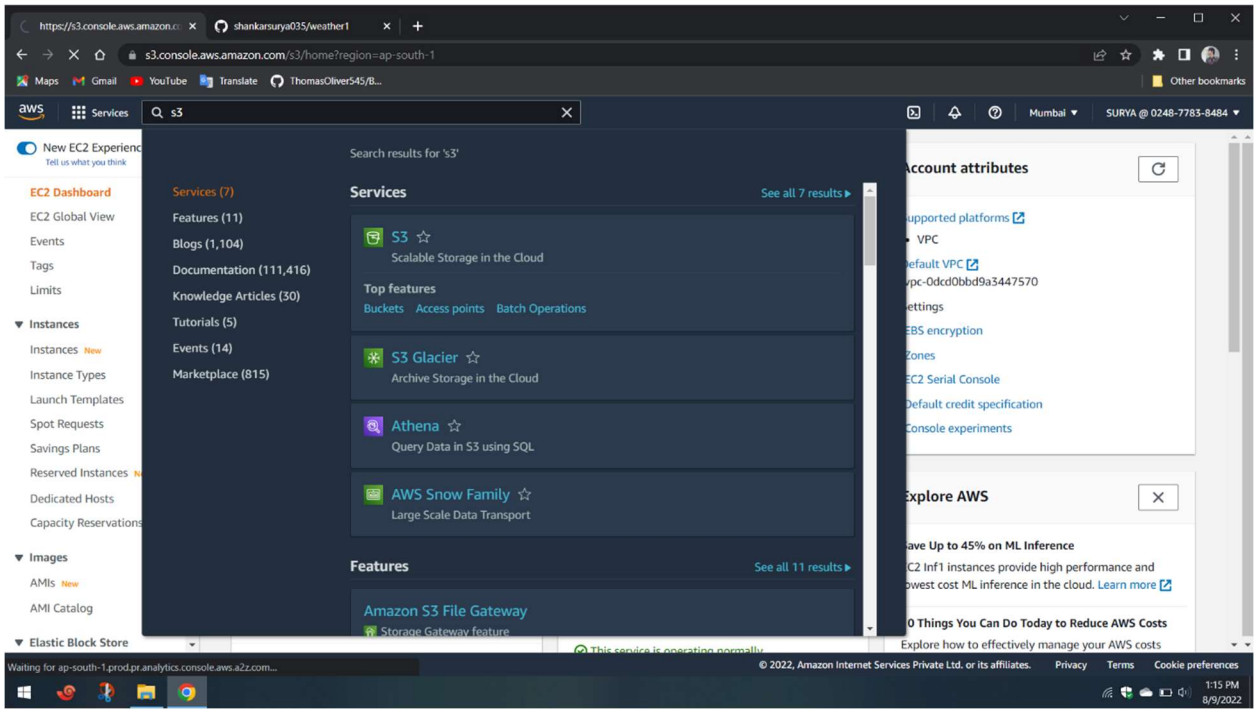
Automatically deploy changes made to the GitHub repository of the static website to AWS S3.

You don't need to clone the git repository to make changes. You can do it from the github.com website itself. After configuring the pipeline, you don't need to login to AWS. Everything happens automatically

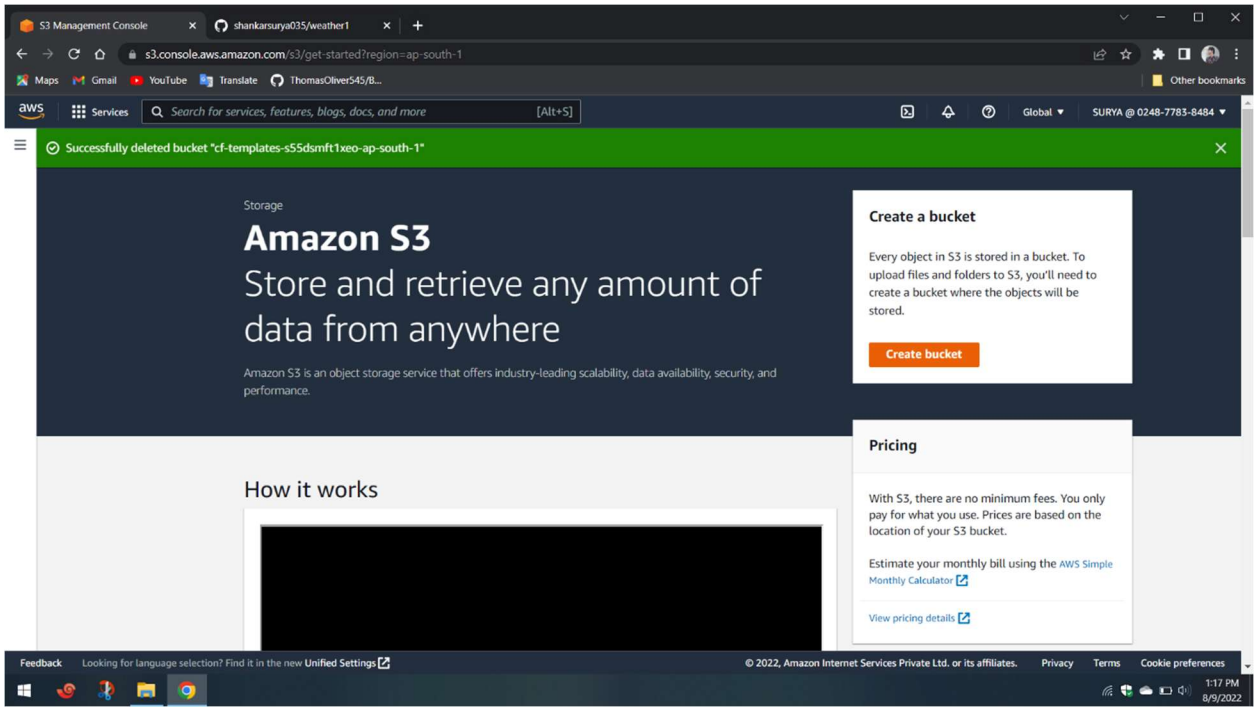
Suppose this was my Static website present in my github repo



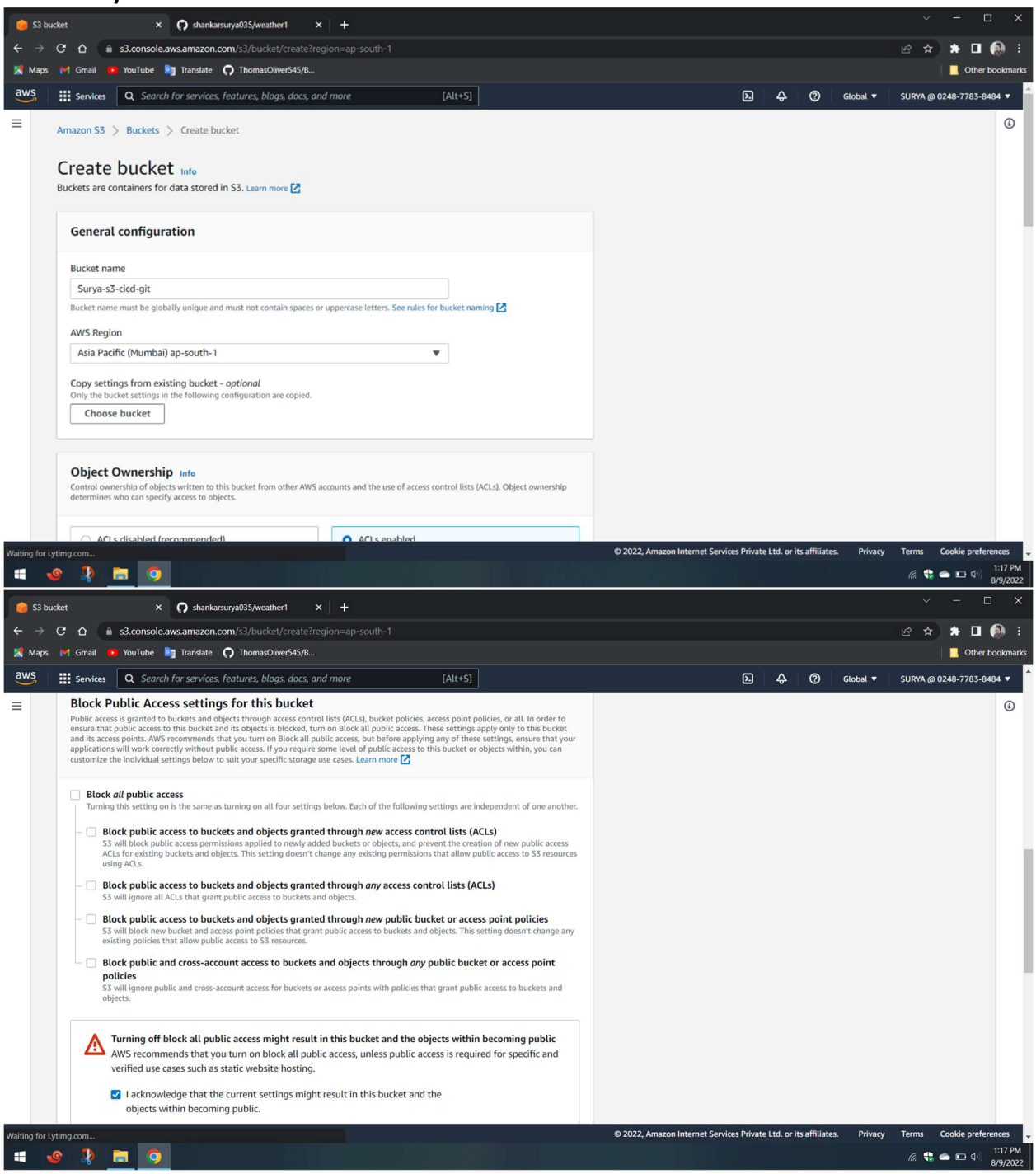
Go to s3 bucket

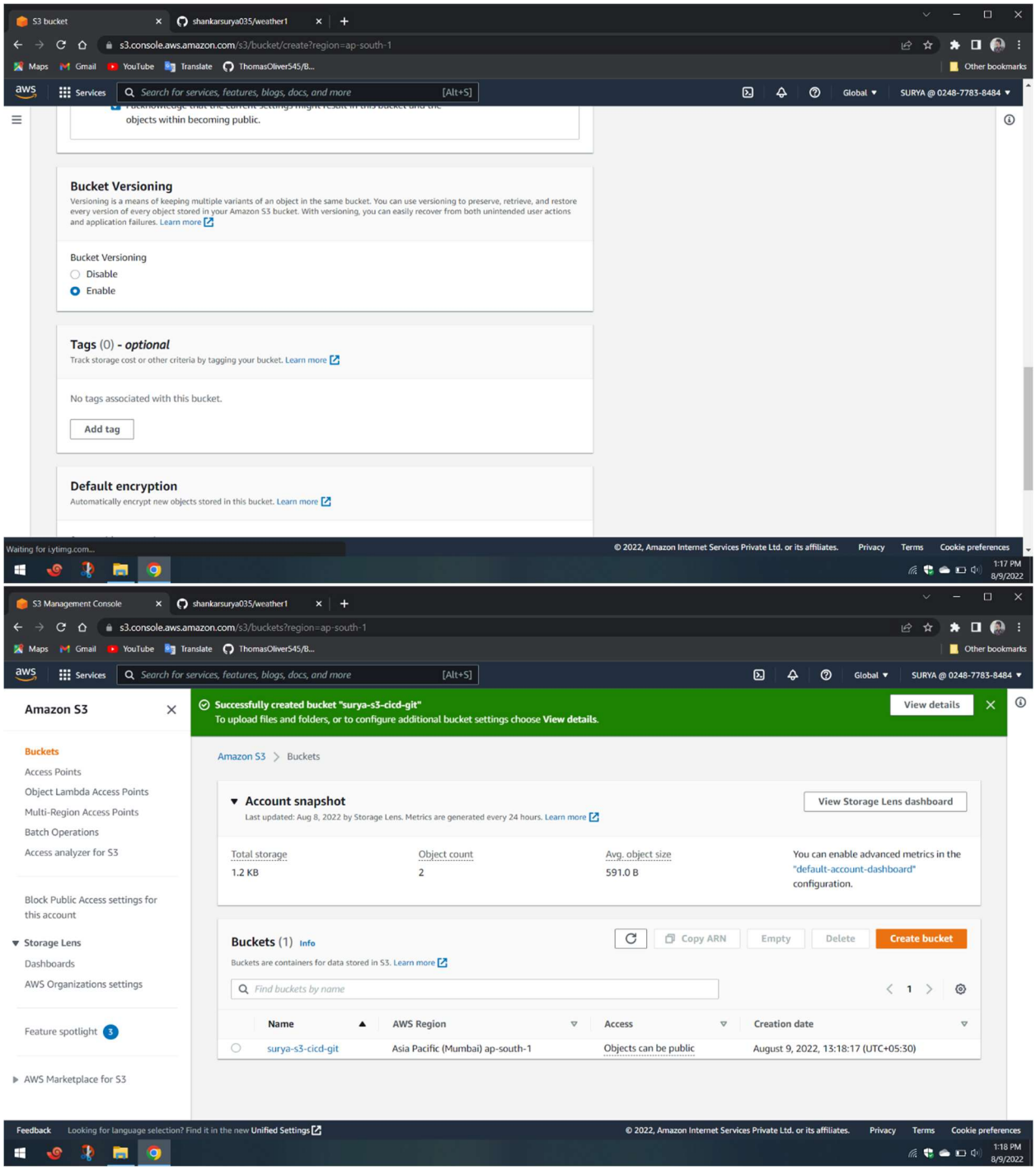


Create two Bucket [one to store artifacts file and other to store my staic content]



To store my static content




S3 bucket
shankarsurya035/weather1
s3.console.aws.amazon.com/s3/bucket/create?region=ap-south-1
Maps
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objects within becoming public.
Bucket Versioning
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more
Bucket Versioning
Disable
Enable
Tags (0) - optional
Track storage cost or other criteria by tagging your bucket. Learn more
No tags associated with this bucket.
Add tag
Default encryption
Automatically encrypt new objects stored in this bucket. Learn more
Waiting for i.ytimg.com...
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S3 Management Console
shankarsurya035/weather1
s3.console.aws.amazon.com/s3/buckets?region=ap-south-1
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Services
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Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
Access analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
AWS Marketplace for S3
Successfully created bucket "surya-s3-cicd-git"
To upload files and folders, or to configure additional bucket settings choose View details.
View details
Amazon S3 > Buckets
Account snapshot
Last updated: Aug 8, 2022 by Storage Lens. Metrics are generated every 24 hours. Learn more
View Storage Lens dashboard
Total storage
1.2 KB
Object count
2
Avg. object size
591.0 B
You can enable advanced metrics in the "default-account-dashboard" configuration.
Buckets (1) Info
Buckets are containers for data stored in S3. Learn more
Copy ARN
Empty
Delete
Create bucket
Find buckets by name
Name
AWS Region
Access
Creation date
surya-s3-cicd-git
Asia Pacific (Mumbai) ap-south-1
Objects can be public
August 9, 2022, 13:18:17 (UTC+05:30)
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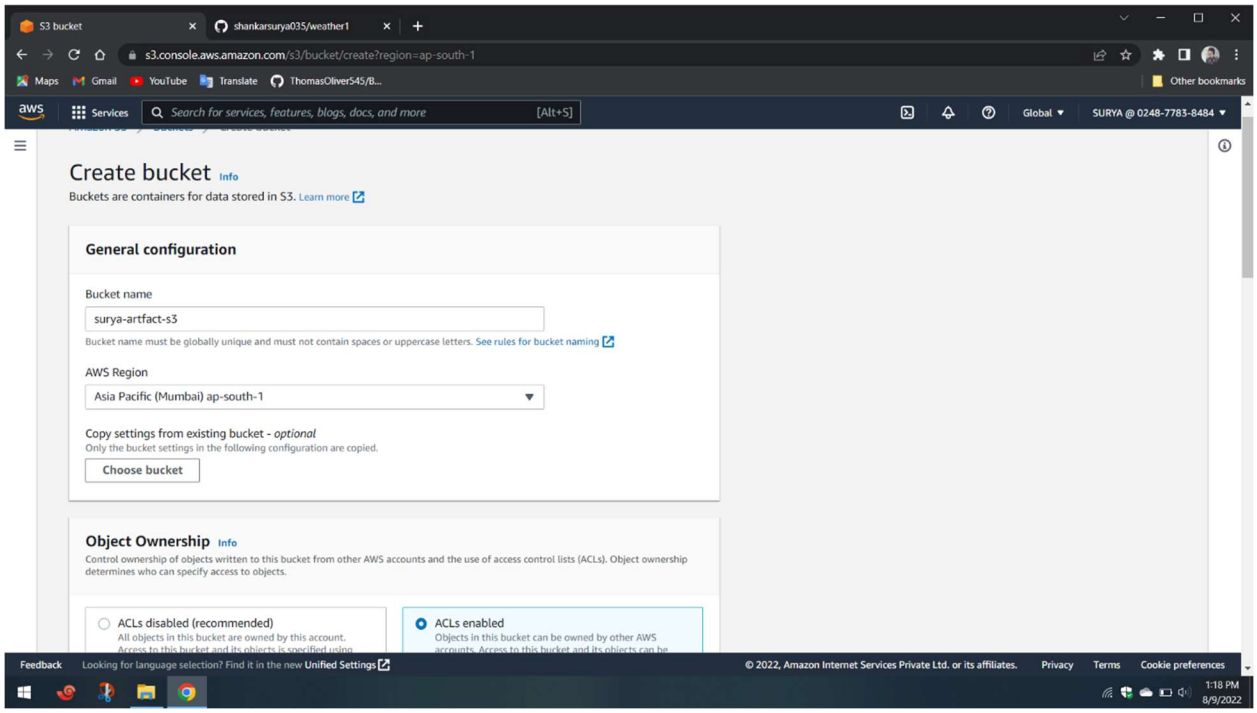
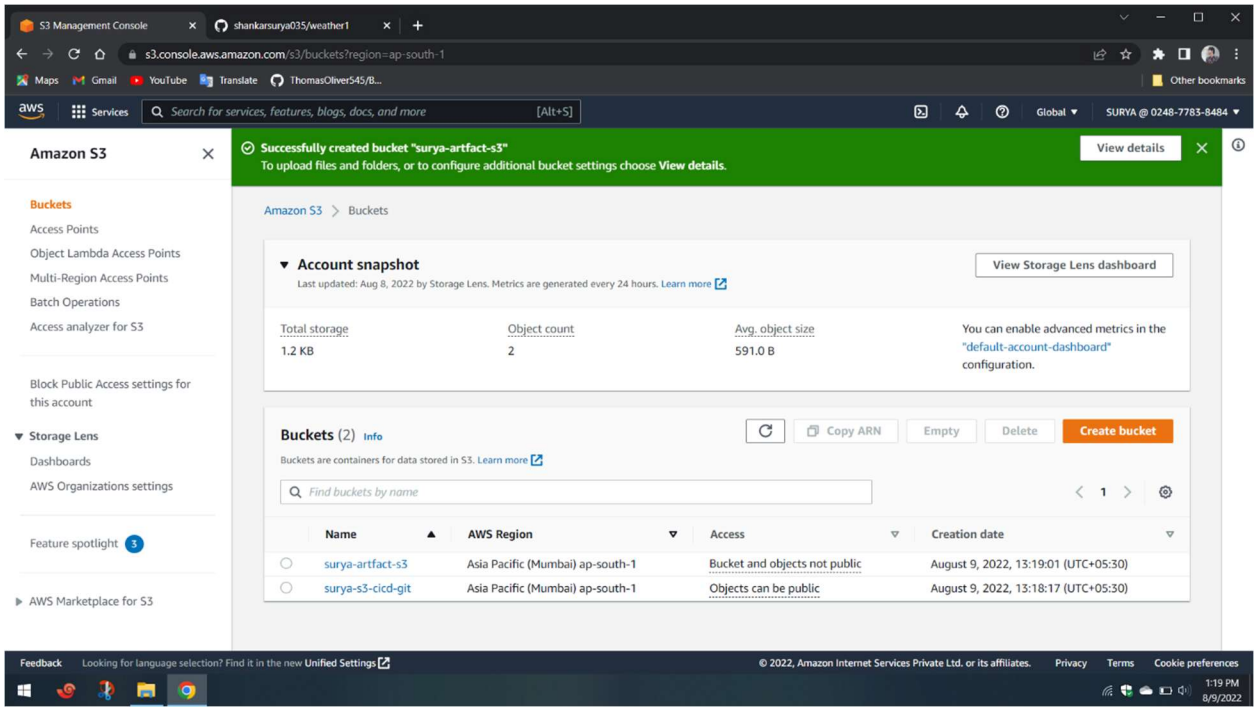
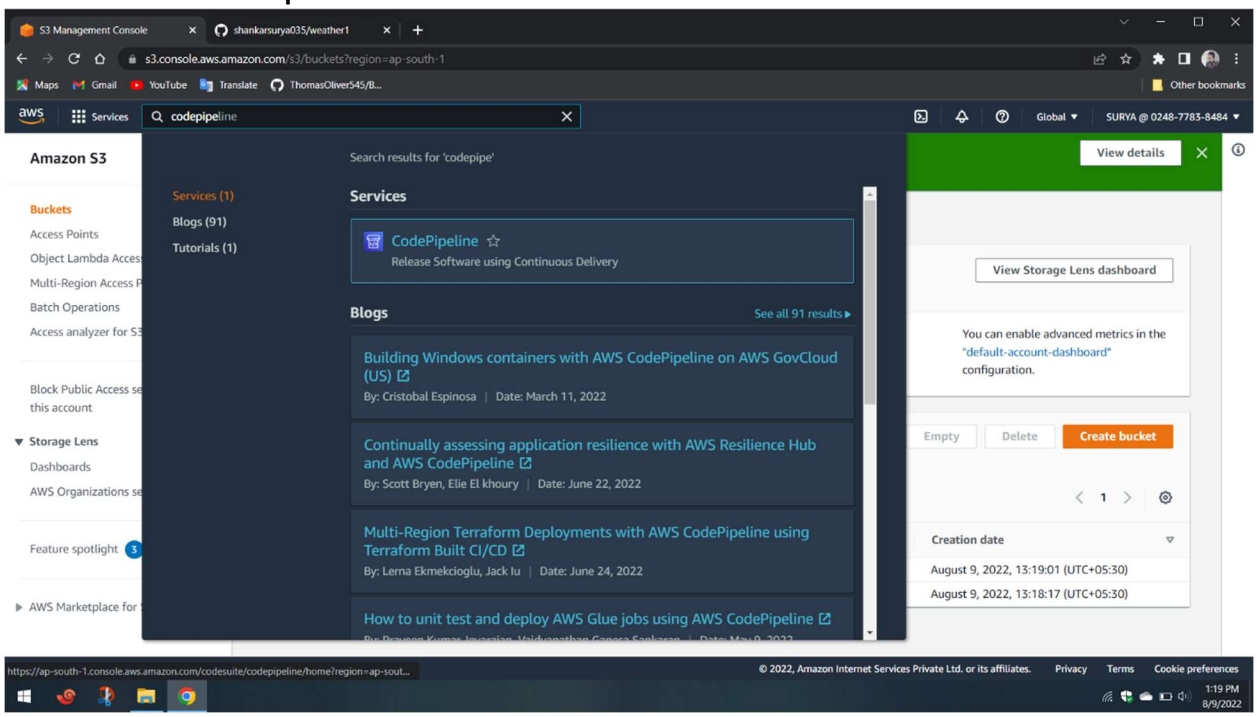
To Store artifact files



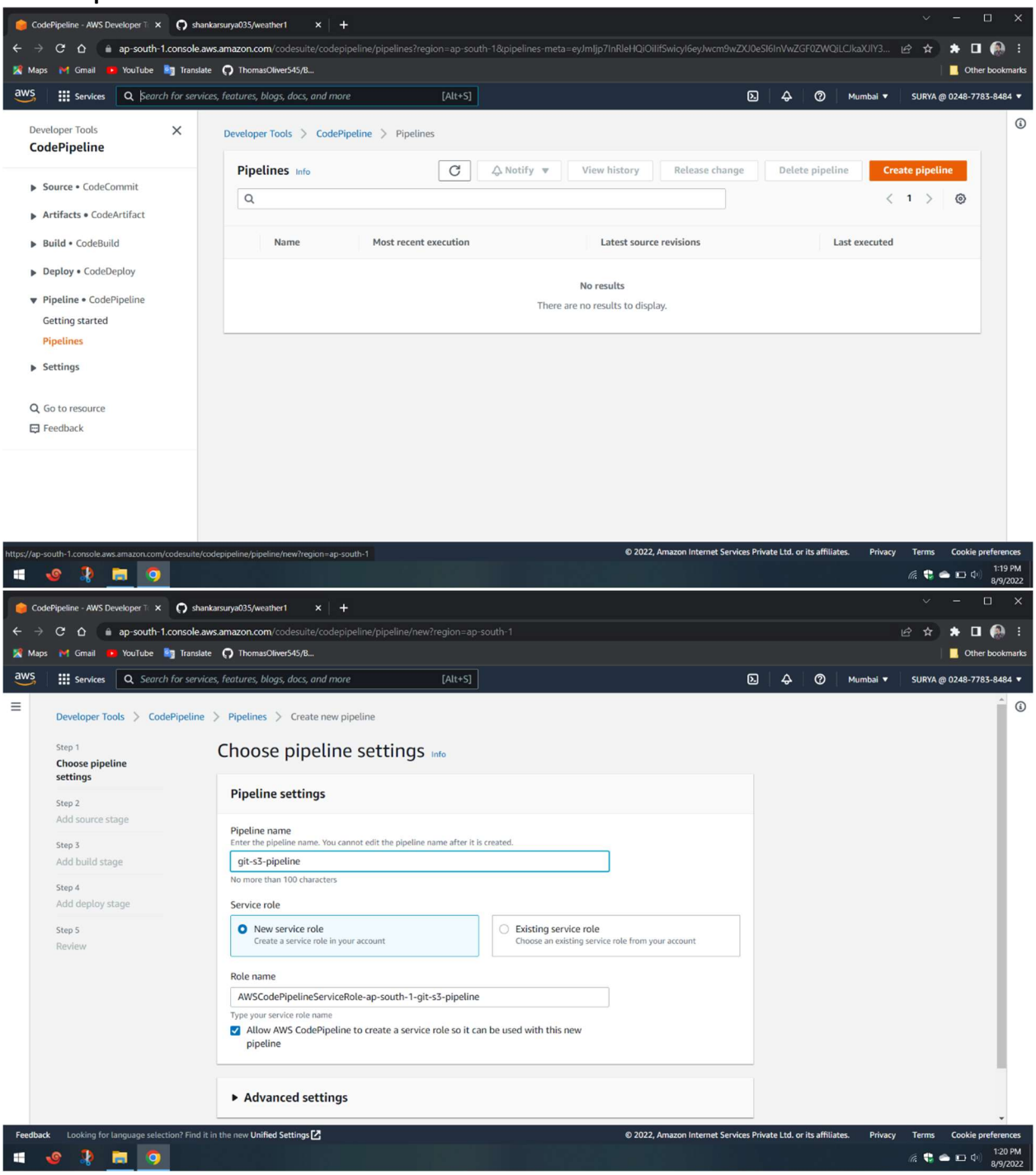
These are my two buckets



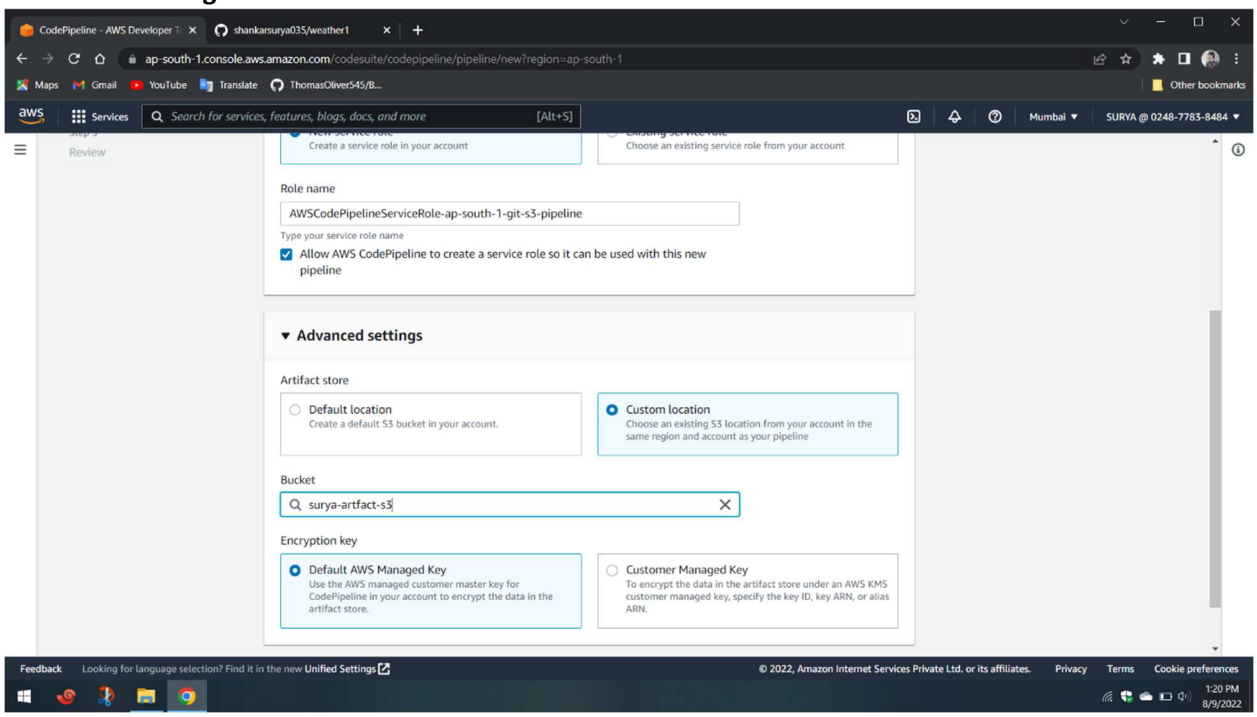
Now search for code Pipeline



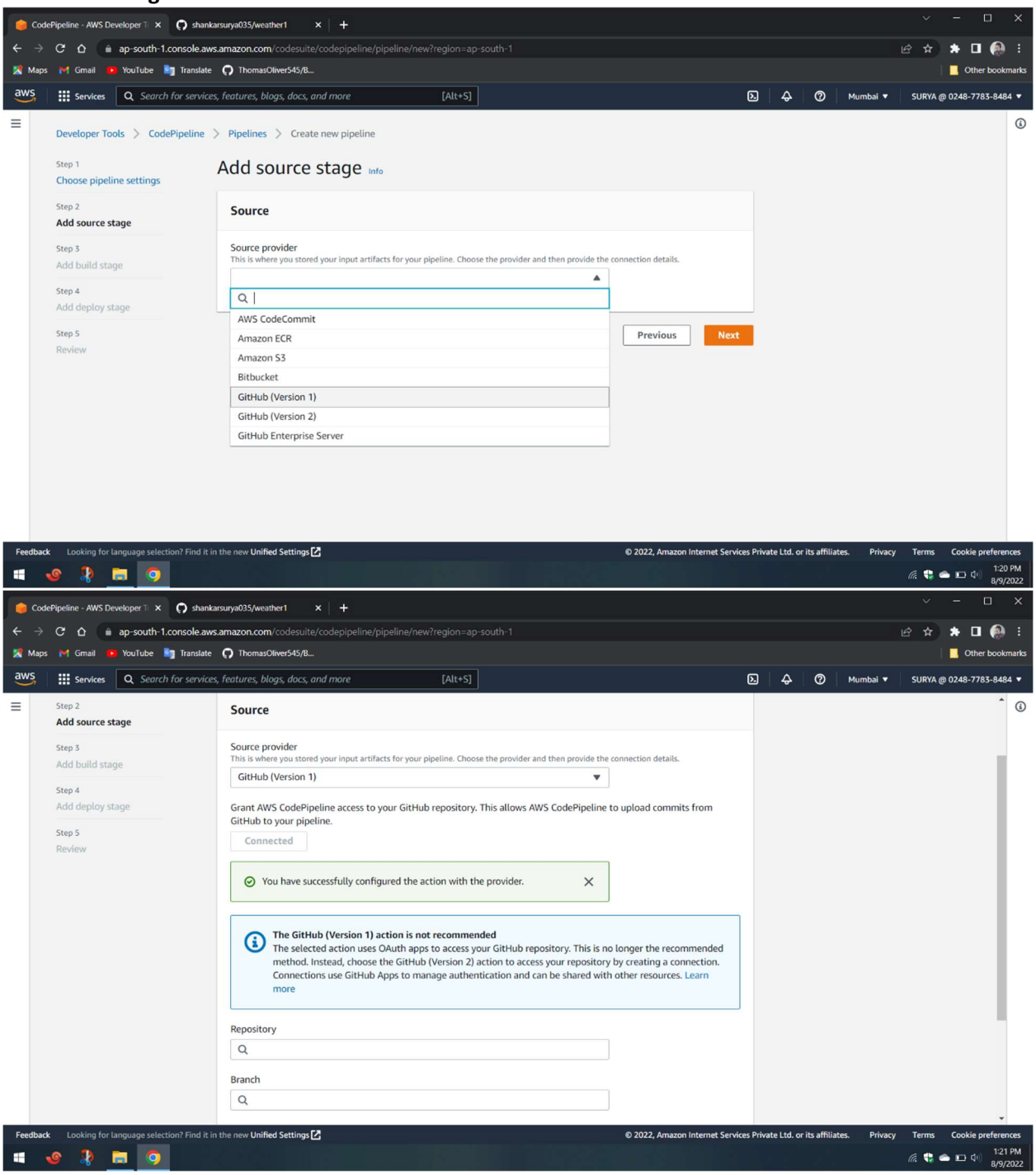
Create Pipeline



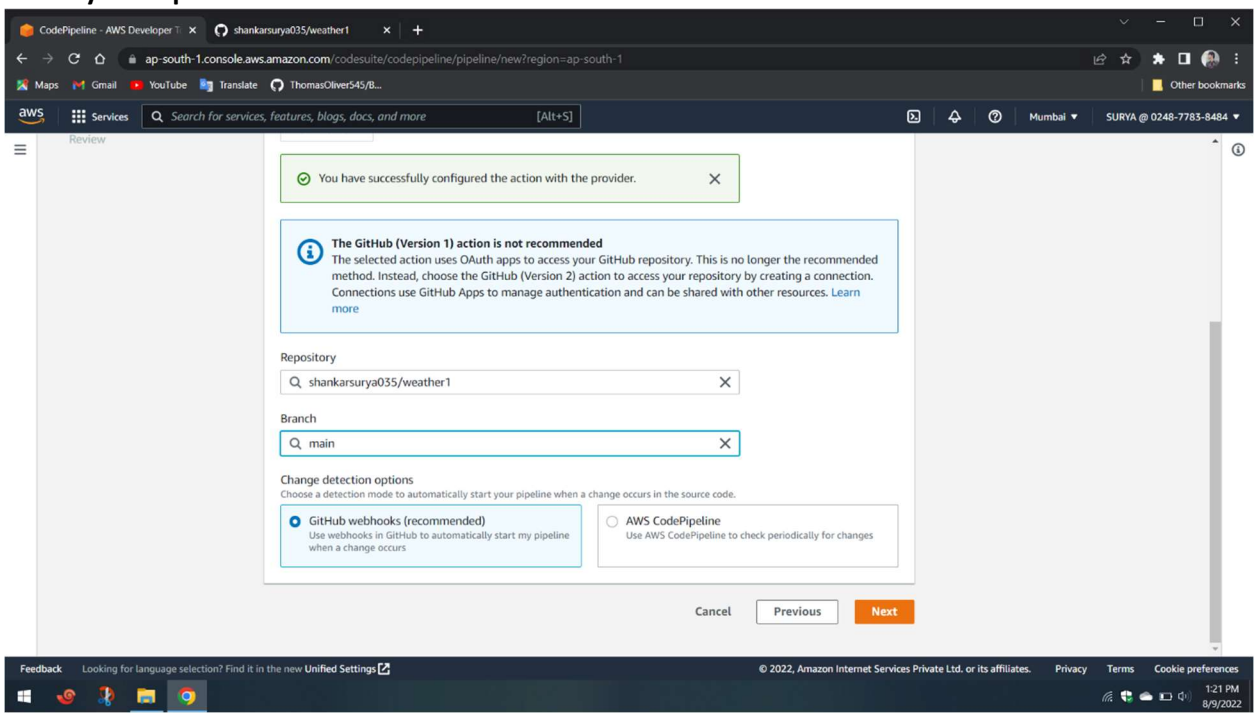
In the adv setting chose the custom location and select the artifact bucket



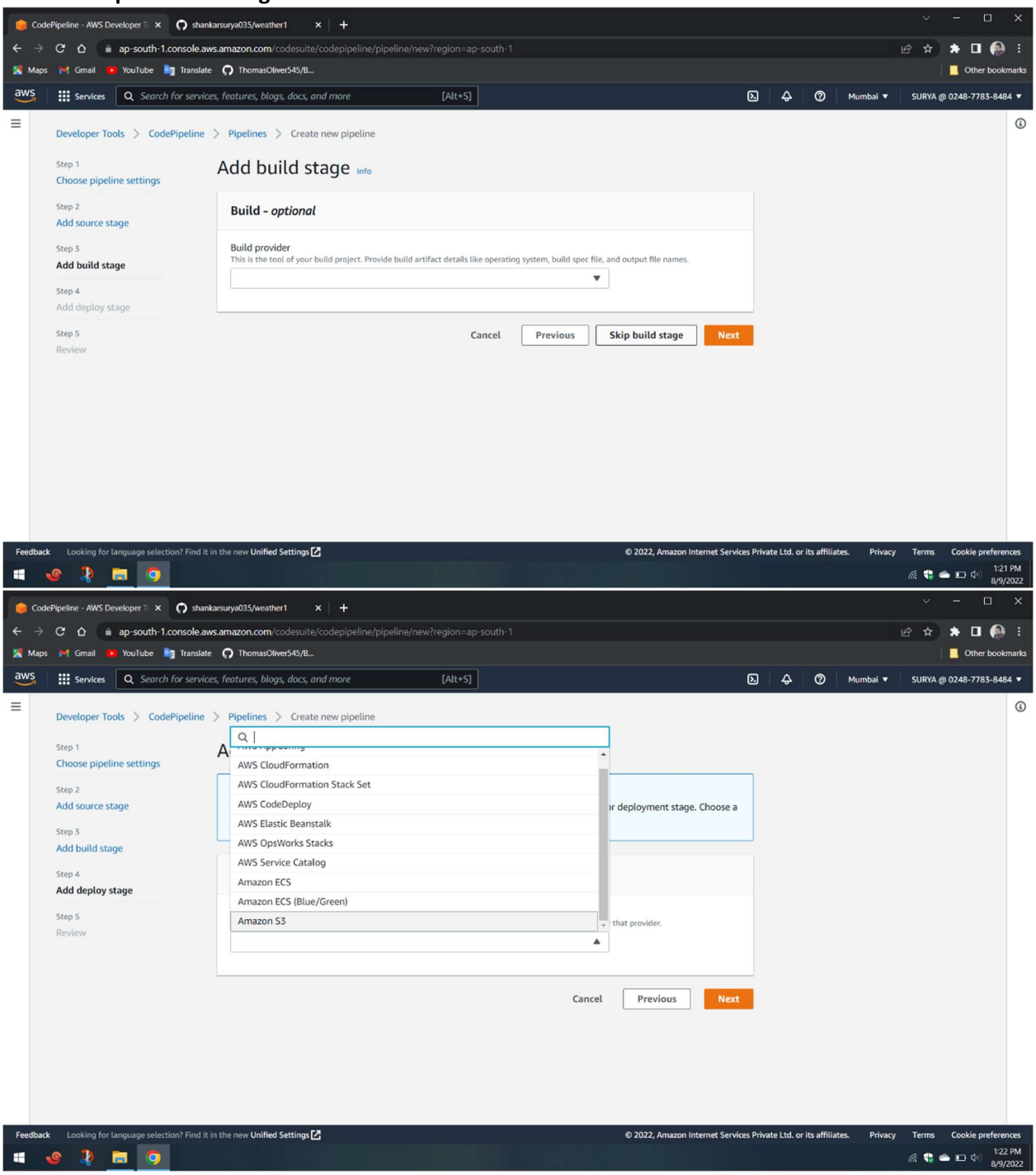
Add source as github



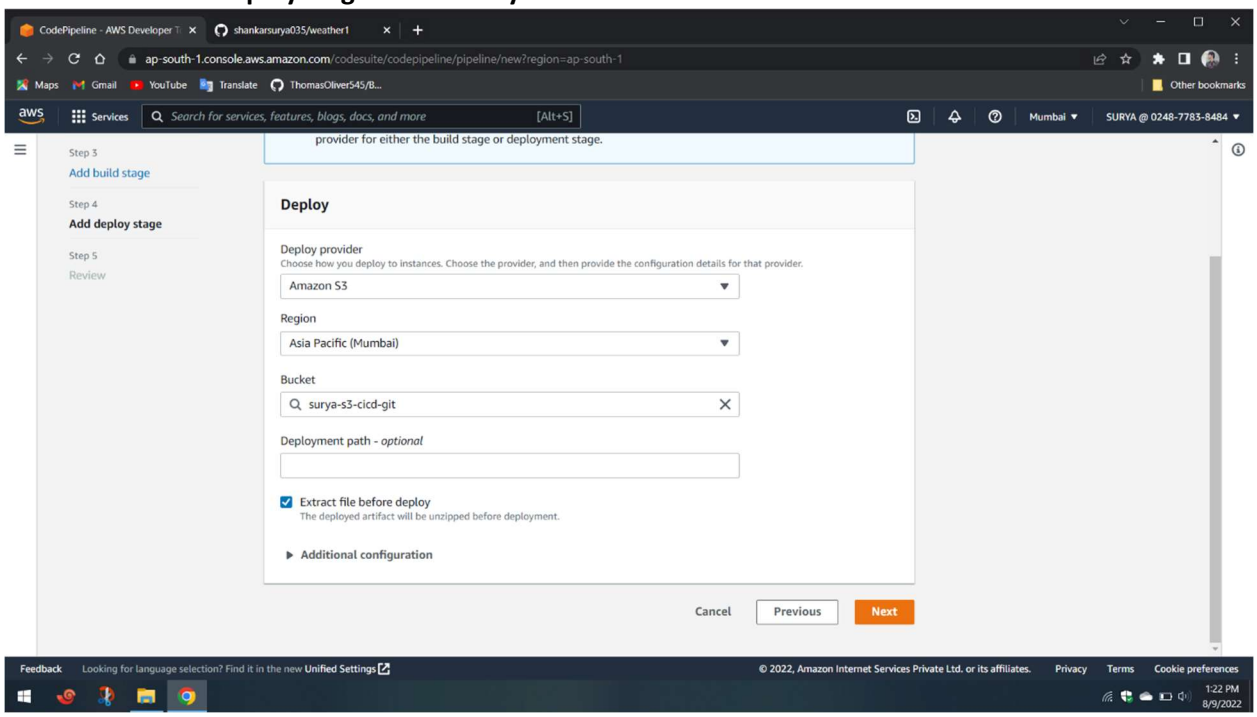
Select your repo and branch name



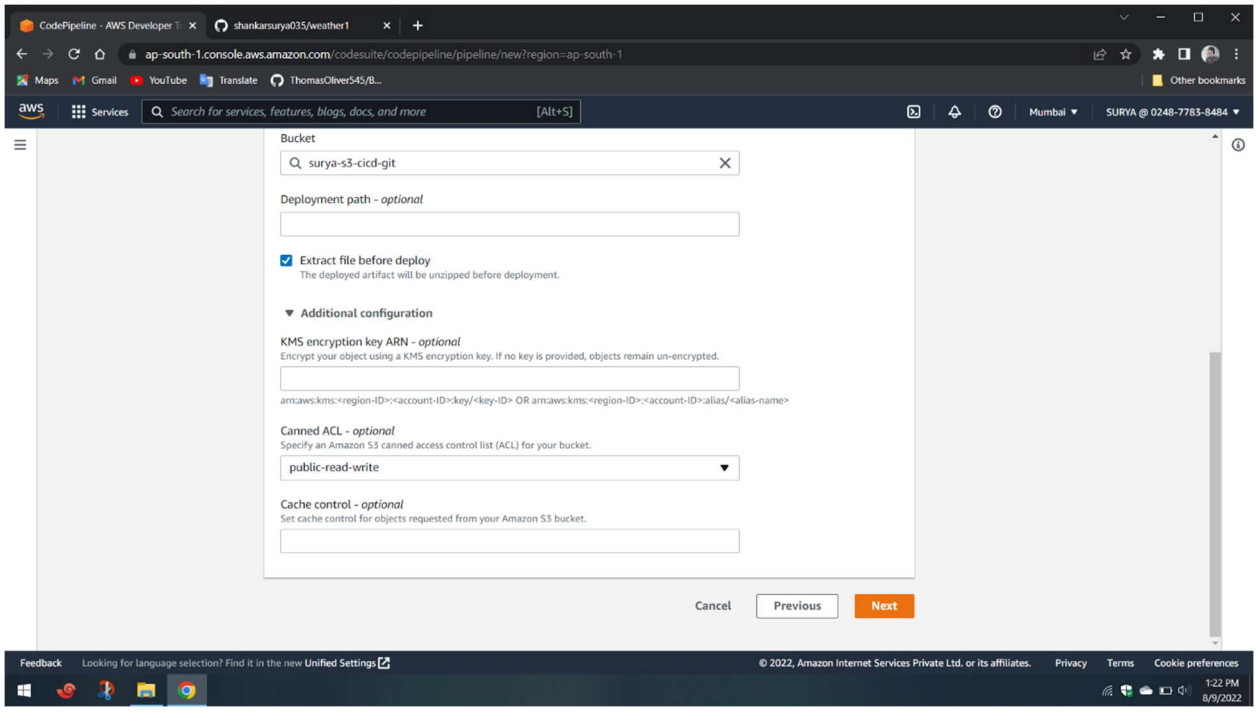
You can skip the build stage



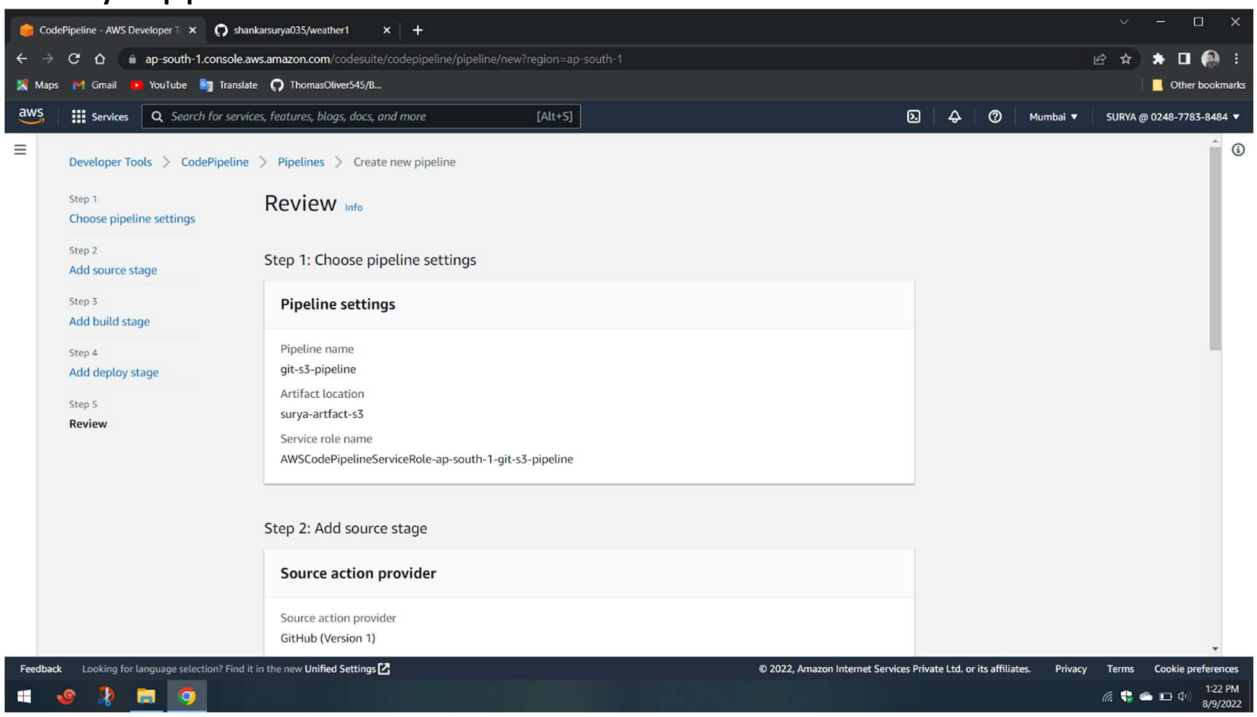
Select AWS s3 as deploy stage and select you bucket

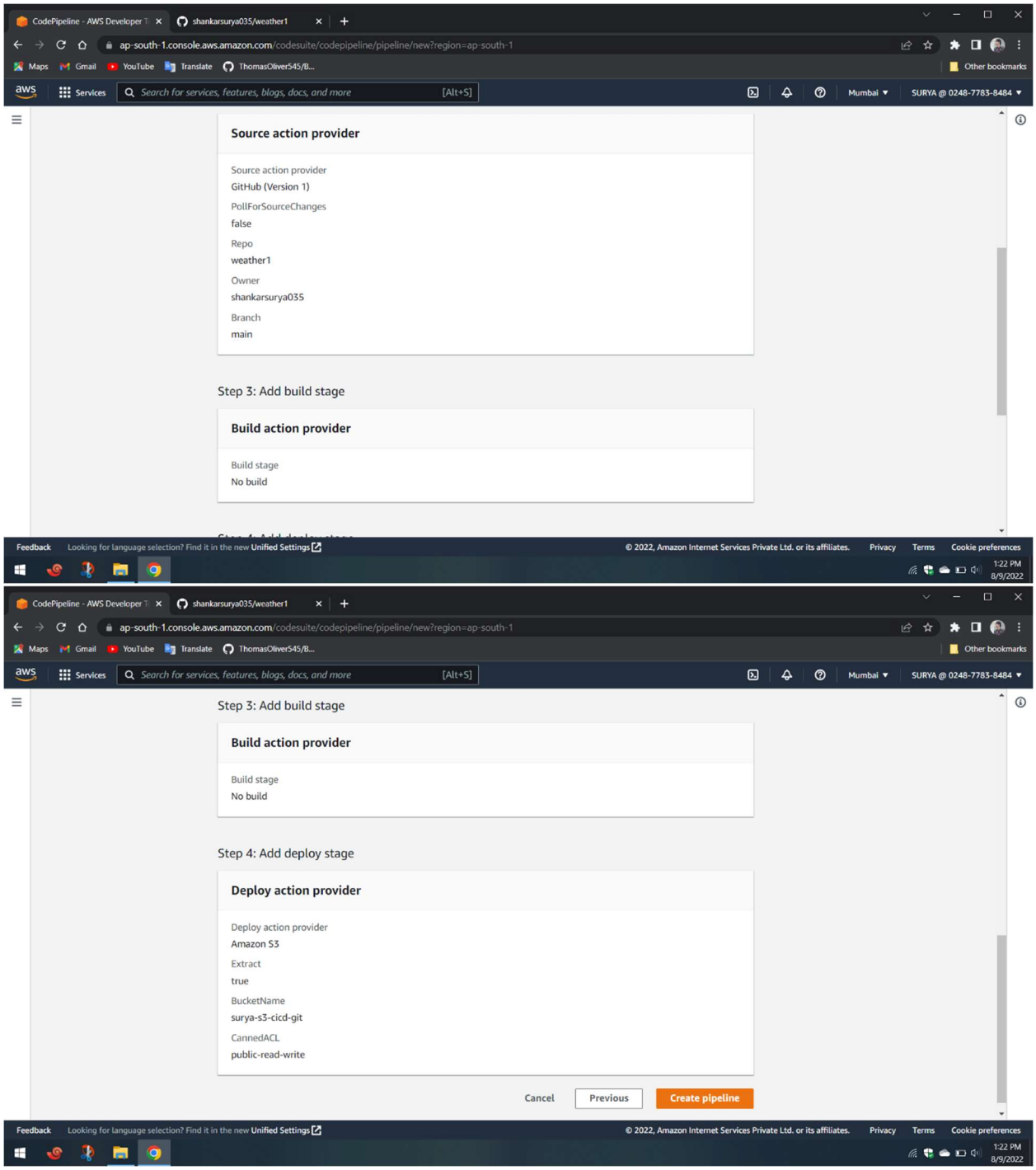


In adv setting select public-read-write



Review your pipeline

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shankarsurya035/weather1
ap-south-1.console.aws.amazon.com/codesuite/codepipeline/pipeline/new?region=ap-south-1
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Mumbai
SURYA @ 0248-7783-8484
Source action provider
Source action provider
GitHub (Version 1)
PollForSourceChanges
false
Repo
weather1
Owner
shankarsurya035
Branch
main
Step 3: Add build stage
Build action provider
Build stage
No build
Feedback
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Step 3: Add build stage
Build action provider
Build stage
No build
Step 4: Add deploy stage
Deploy action provider
Deploy action provider
Amazon S3
Extract
true
BucketName
surya-s3-cicd-git
CannedACL
public-read-write
Cancel
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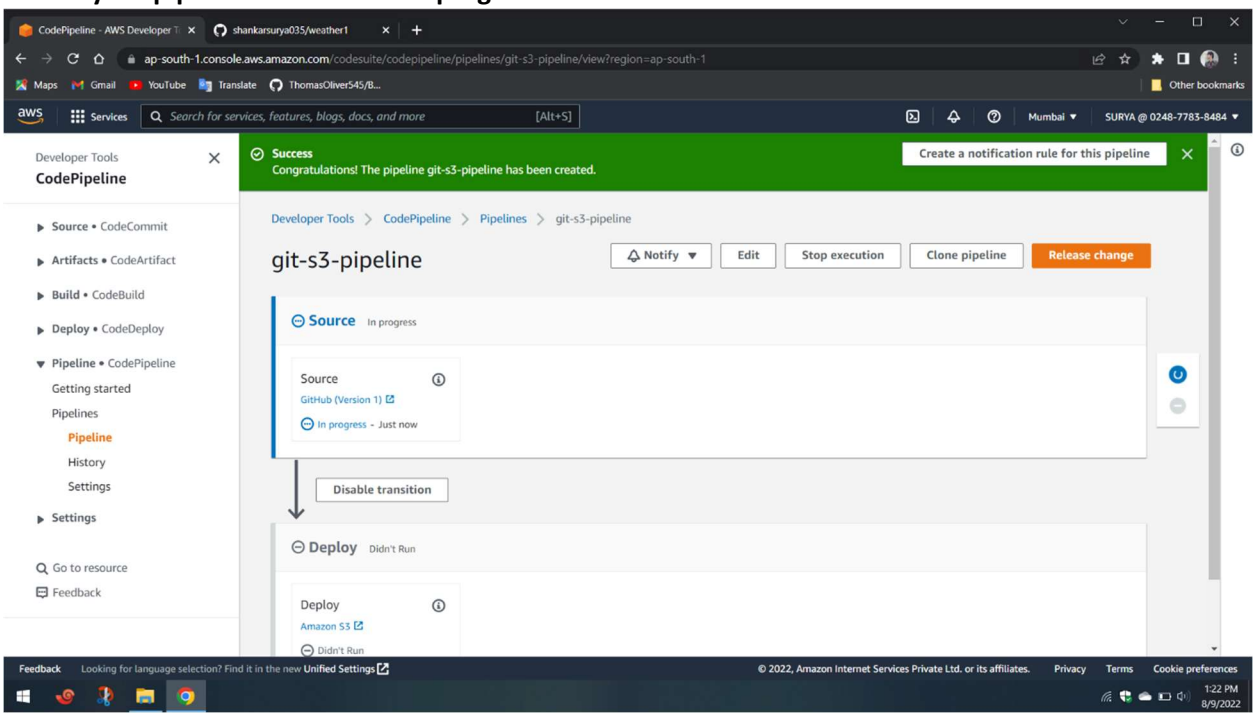
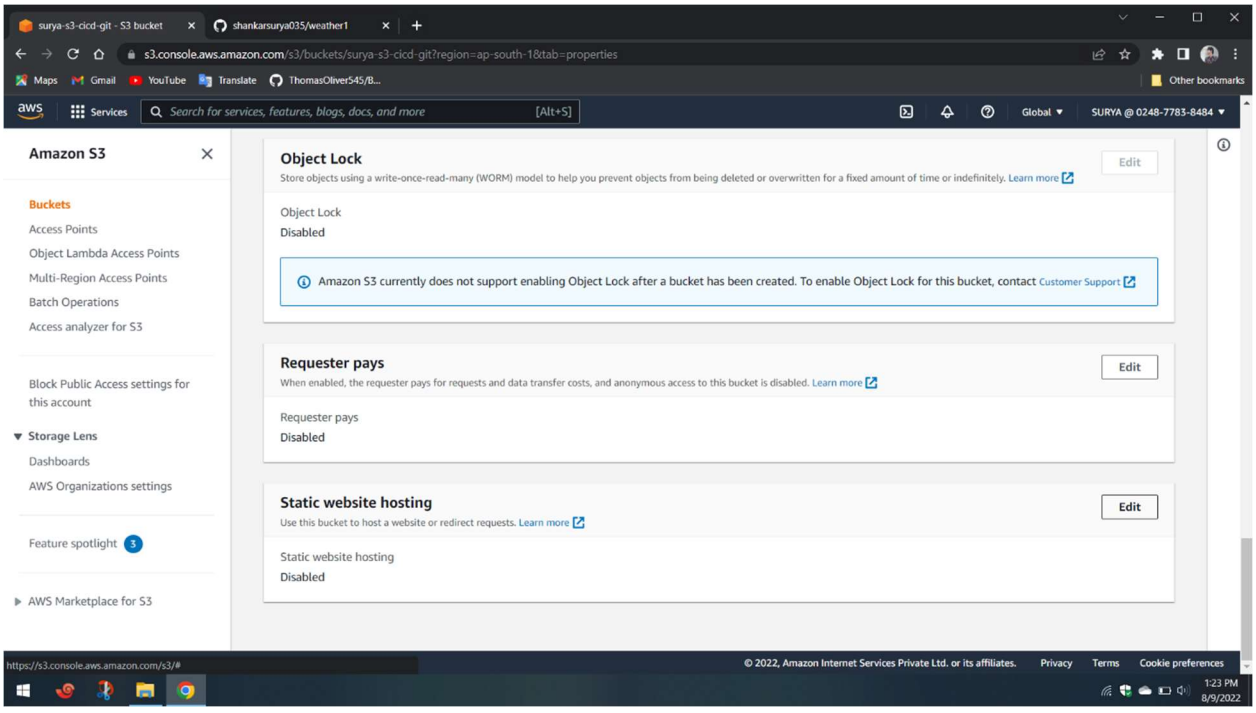
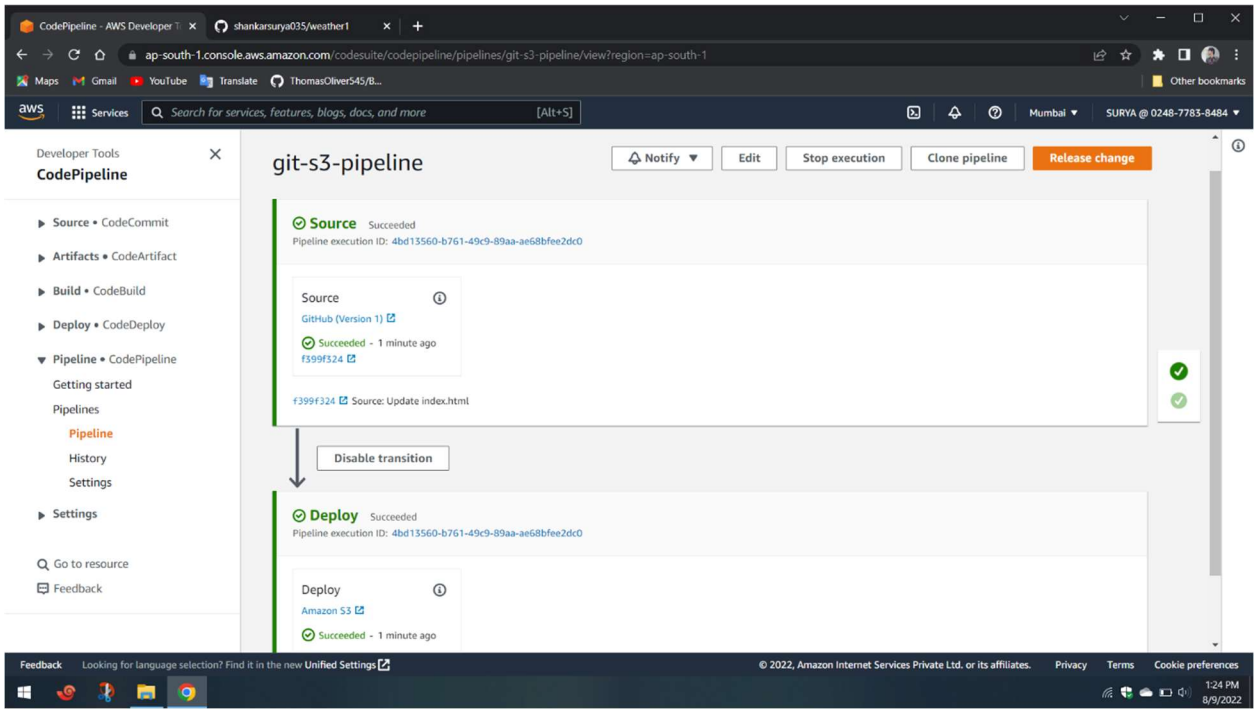
Create your pipeline and wait for inprogress to succeeded



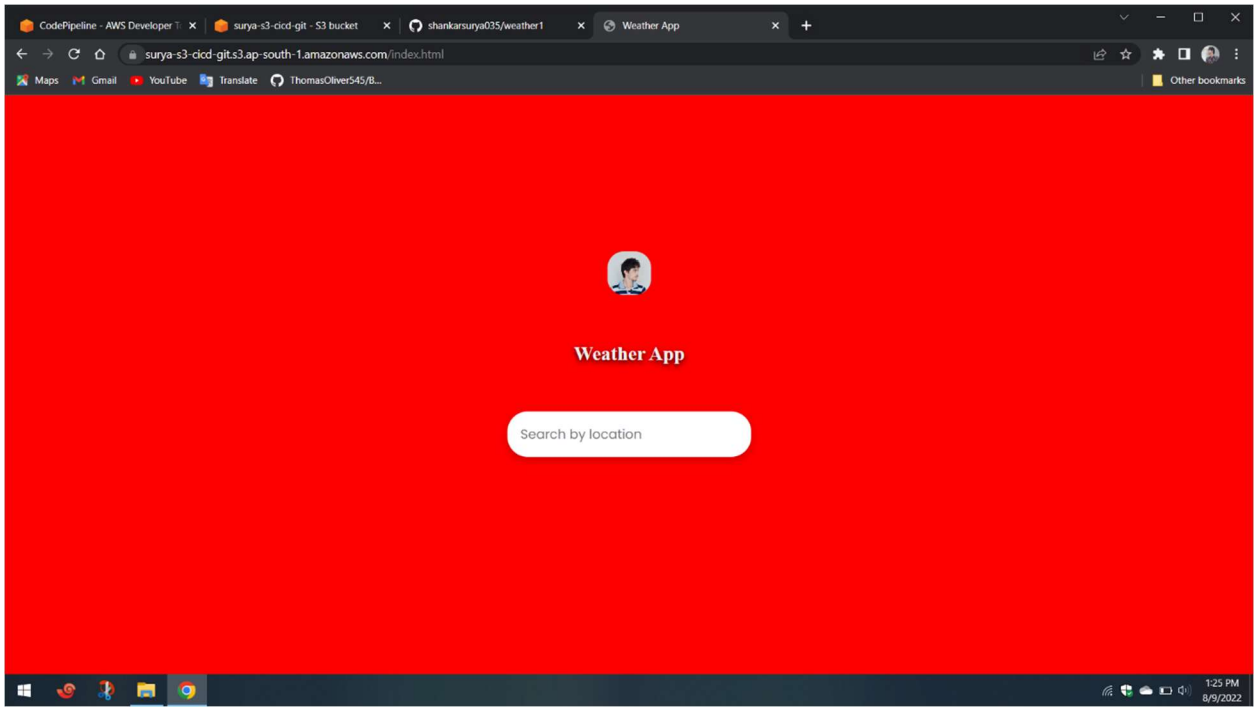
In s3 bucket you have to enable static website content



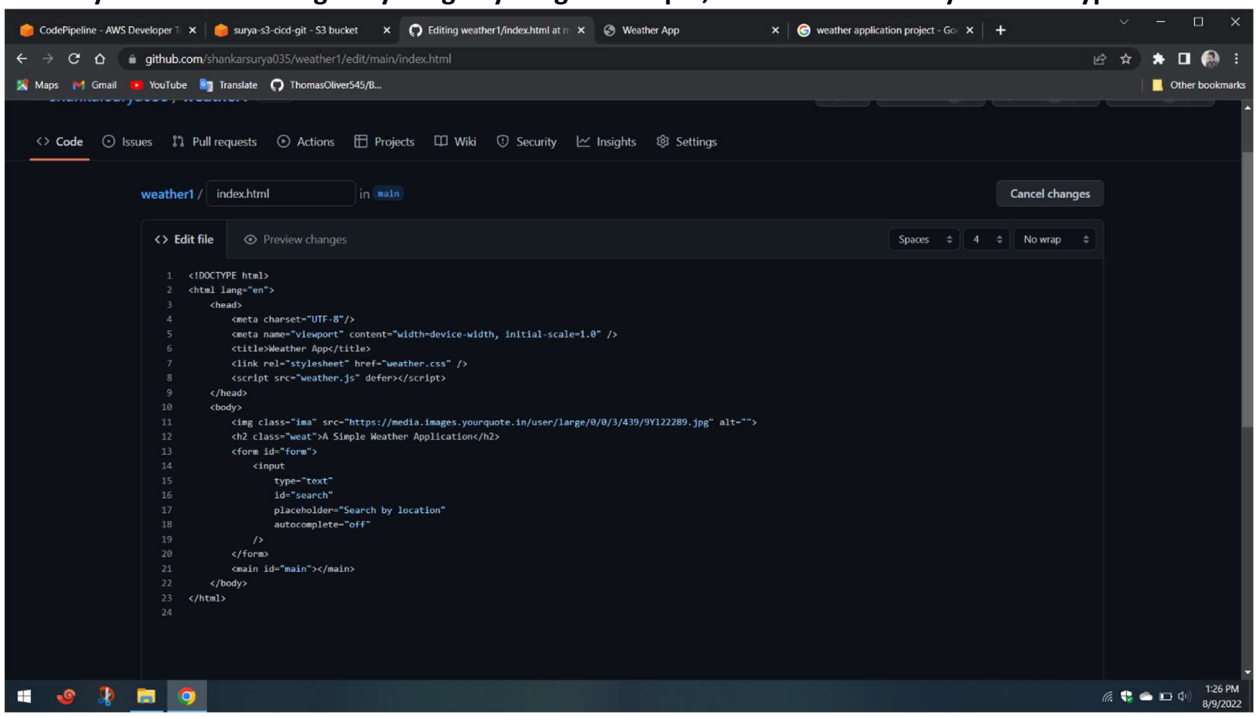
Succeeded

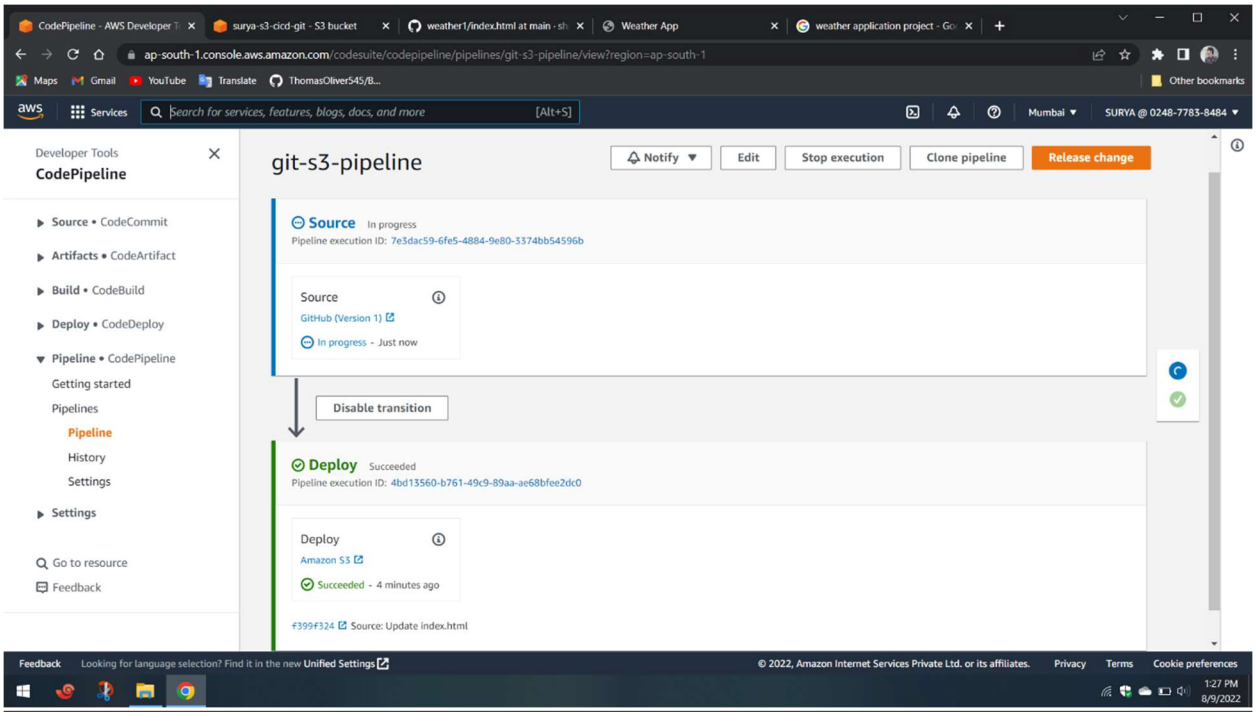


Paste your s3 public url in browser and see your content



Now if your want to change anything in your github repo , it will automatically reflect in ypur bucket

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surya-s3-cicd-git - S3 bucket
weather1/index.html at main · sh
Weather App
weather application project - Go
ap-south-1.console.aws.amazon.com/codesuite/codepipeline/pipelines/git-s3-pipeline/view?region=ap-south-1
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CodePipeline
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Artifacts • CodeArtifact
Build • CodeBuild
Deploy • CodeDeploy
Pipeline • CodePipeline
Getting started
Pipelines
Pipeline
History
Settings
Settings
Go to resource
Feedback
git-s3-pipeline
Notify
Edit
Stop execution
Clone pipeline
Release change
Source
In progress
Pipeline execution ID: 7e3dac59-6fe5-4884-9e80-3374bb54596b
Source
GitHub (Version 1)
In progress - Just now
Disable transition
Deploy
Succeeded
Pipeline execution ID: 4bd13560-b761-49c9-89aa-ae68bfee2dc0
Deploy
Amazon S3
Succeeded - 4 minutes ago
f399f324
Source: Update index.html
Feedback
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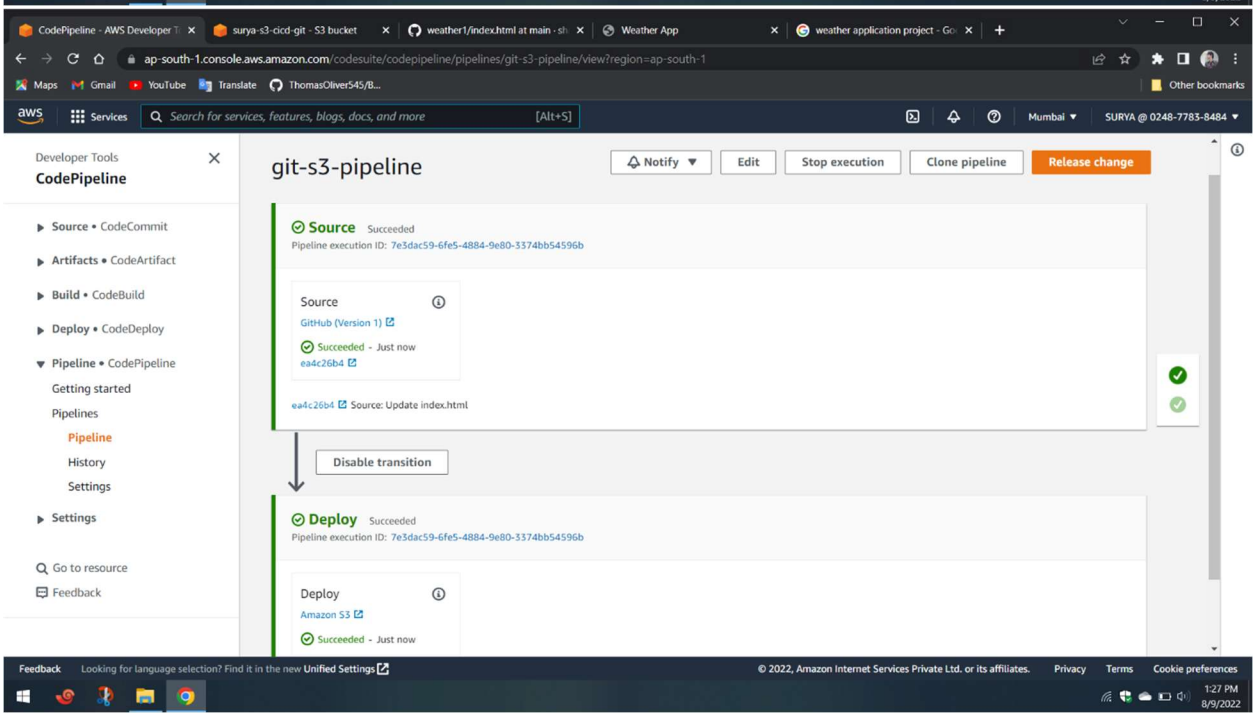
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Developer Tools
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Release change
Source
Succeeded
Pipeline execution ID: 7e3dac59-6fe5-4884-9e80-3374bb54596b
Source
GitHub (Version 1)
Succeeded - Just now
ea4c26b4
ea4c26b4
Source: Update index.html
Disable transition
Deploy
Succeeded
Pipeline execution ID: 7e3dac59-6fe5-4884-9e80-3374bb54596b
Deploy
Amazon S3
Succeeded - Just now
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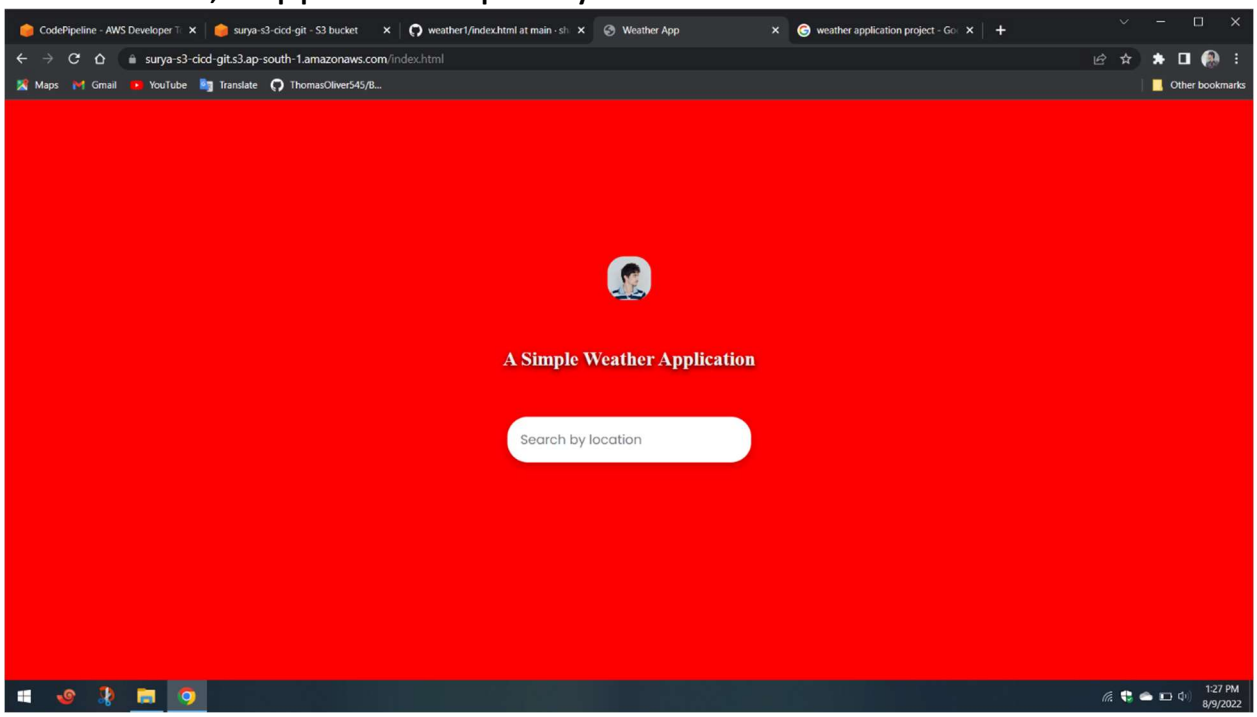
As shown below , Our pipeline worked perfectly