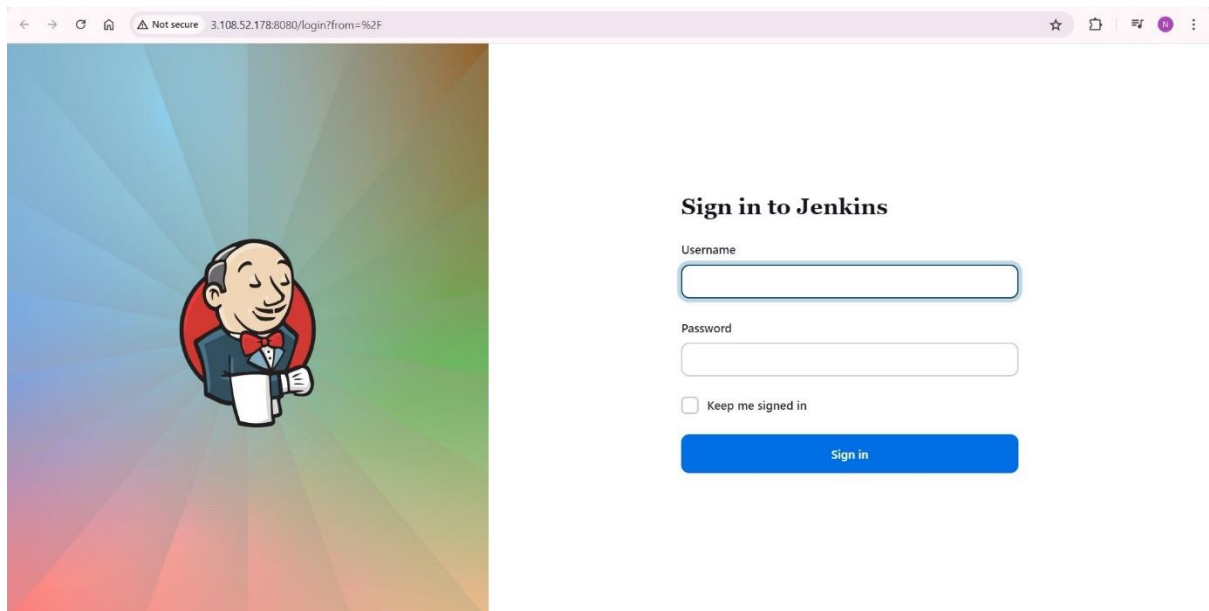**Capstone_Project :**

Application Deployment:

Deploy the given react application to a production ready state

**GitHub URL:**

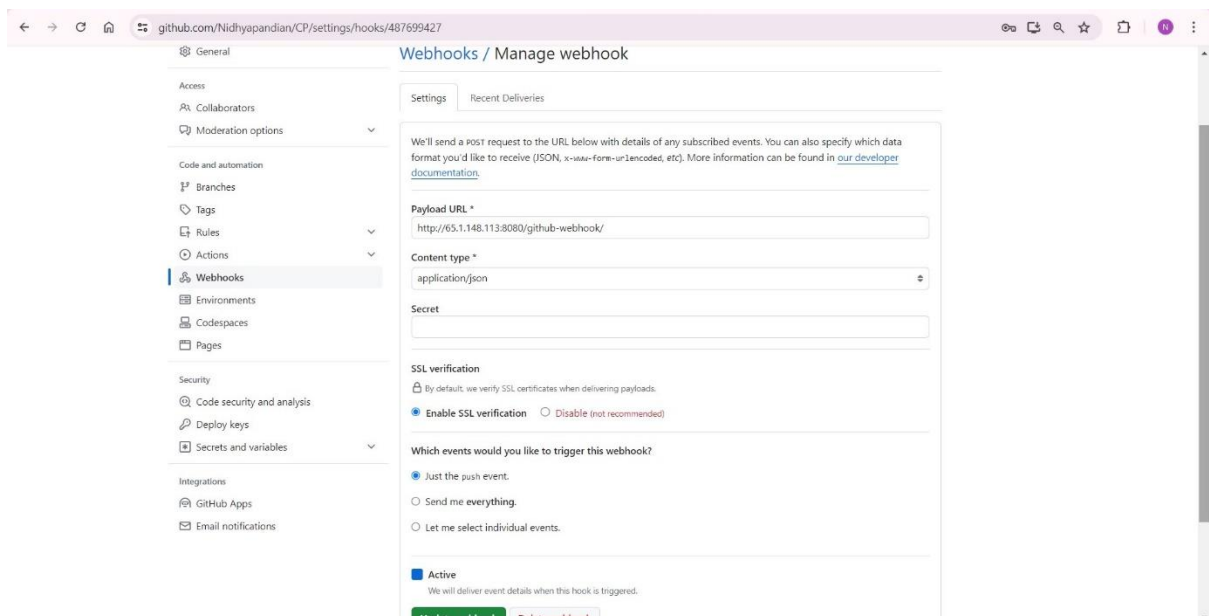https://github.com/Nidhyapandian/React_Project.git

**Jenkins Login Page:**



**Webhook Configuration:**

Console Output:

Started by user Nidhya
Obtained Jenkinsfile from git https://github.com/Nidhyapandian/React_Project.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/React_Project
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
 > git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/React_Project/.git # timeout=10
Fetching changes from the remote Git repository
 > git config remote.origin.url https://github.com/Nidhyapandian/React_Project.git # timeout=10
Fetching upstream changes from https://github.com/Nidhyapandian/React_Project.git
 > git --version # timeout=10
 > git --version # 'git version 2.34.1'
 > git fetch --tags --force --progress -- https://github.com/Nidhyapandian/React_Project.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
 > git rev-parse refs/remotes/origin/dev^{commit} # timeout=10
Checking out Revision 9e6415071e6ae494b60c44c0ba577a879c7ee9dc (refs/remotes/origin/dev)
 > git config core.sparsecheckout # timeout=10
 > git checkout -f 9e6415071e6ae494b60c44c0ba577a879c7ee9dc # timeout=10
Commit message: "Update Jenkinsfile"
First time build. Skipping changelog.
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
+ chmod +x build.sh
[Pipeline] sh
+ ./build.sh

web is up-to-date
Masking supported pattern matches of $DOCKER_PASSWORD
+ docker login -u smart24 --password-stdin docker.io
+ echo ****
WARNING! Your password will be stored unencrypted in /var/lib/jenkins/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
Current branch is: dev
+ docker-compose down
Stopping web ...
Stopping web ... done
Removing web ...
Removing web ... done
Removing network react_project_default
+ chmod +x build.sh
+ ./build.sh
Creating network "react_project_default" with the default driver
Creating web ...
Creating web ... done
Changes in this dev branch
+ docker tag nginximage smart24/dev
+ docker push smart24/dev
Using default tag: latest
The push refers to repository [docker.io/smart24/dev]
00a429d72c9b: Preparing
56b6d3be75f9: Preparing
0c6c257920c8: Preparing
92d0d4e97019: Preparing
7190c87a0e8a: Preparing
933a3ce2c78a: Preparing
32cfaf91376f: Preparing
32148f9f6c5a: Preparing
933a3ce2c78a: Waiting
32cfaf91376f: Waiting
32148f9f6c5a: Waiting
7190c87a0e8a: Layer already exists
00a429d72c9b: Layer already exists
0c6c257920c8: Layer already exists
92d0d4e97019: Layer already exists
56b6d3be75f9: Layer already exists
32cfaf91376f: Layer already exists

933a3ce2c78a: Layer already exists
32148f9f6c5a: Layer already exists
latest: digest: sha256:2f761077517e027b07bd16bb9c6f2133c27471bde65853b0ca81a371f86653f7
size: 1989
[Pipeline] echo
Docker image pushed successfully.
[Pipeline] }
[Pipeline] // script
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS

## Security Group Configuration:



## Security Group configuration for Monitoring Server:
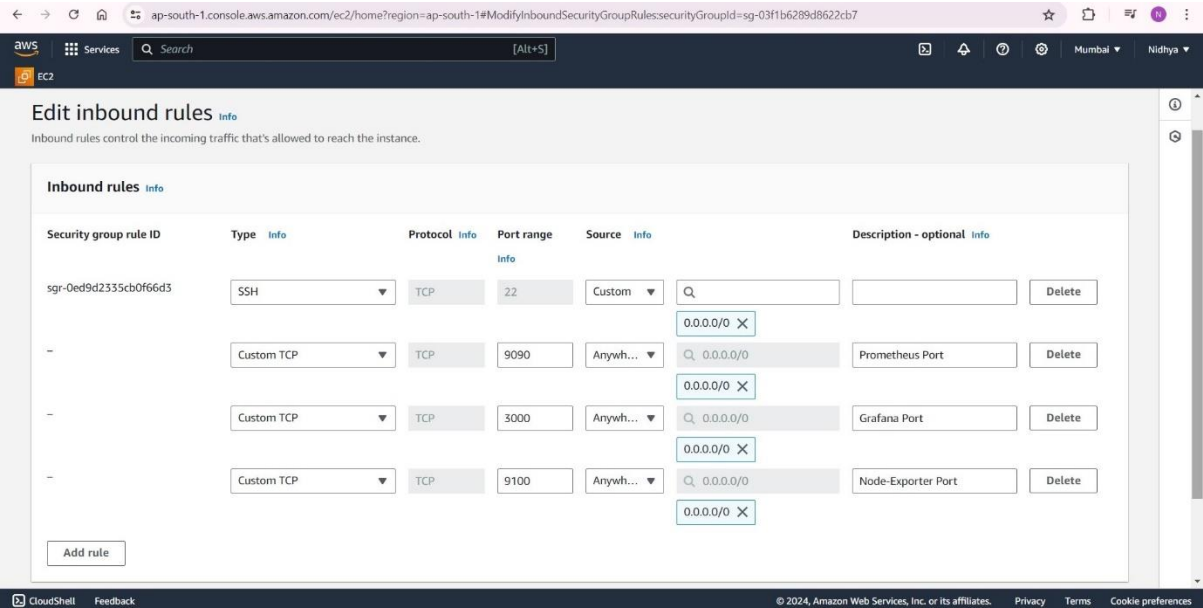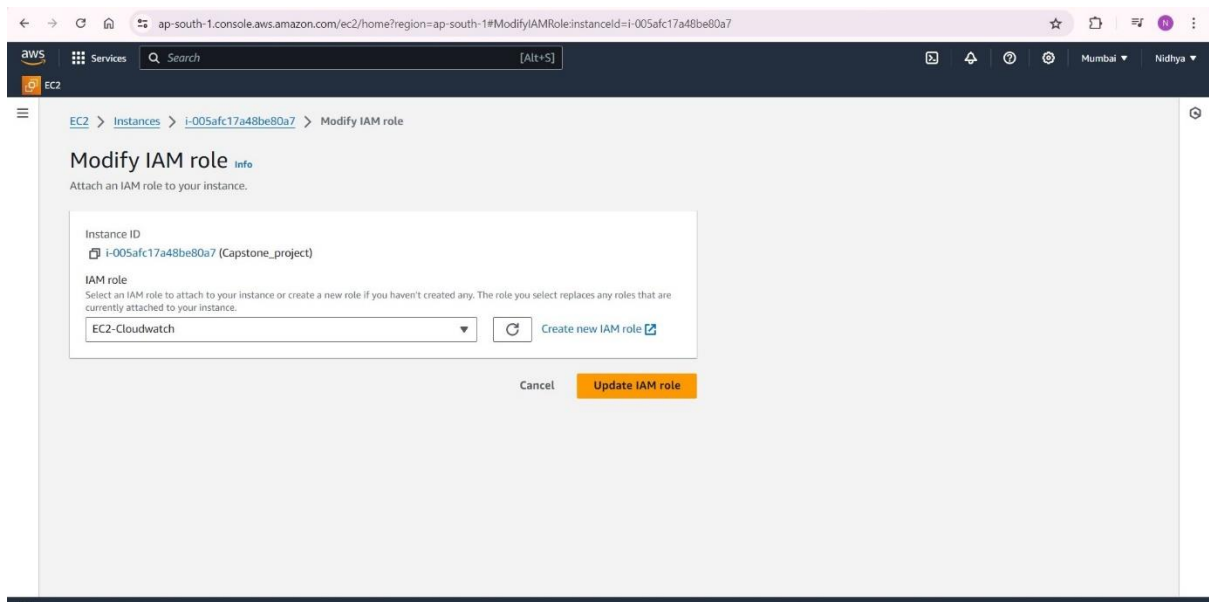
Dockerhub Registry showing images pushed into prod and dev repo:
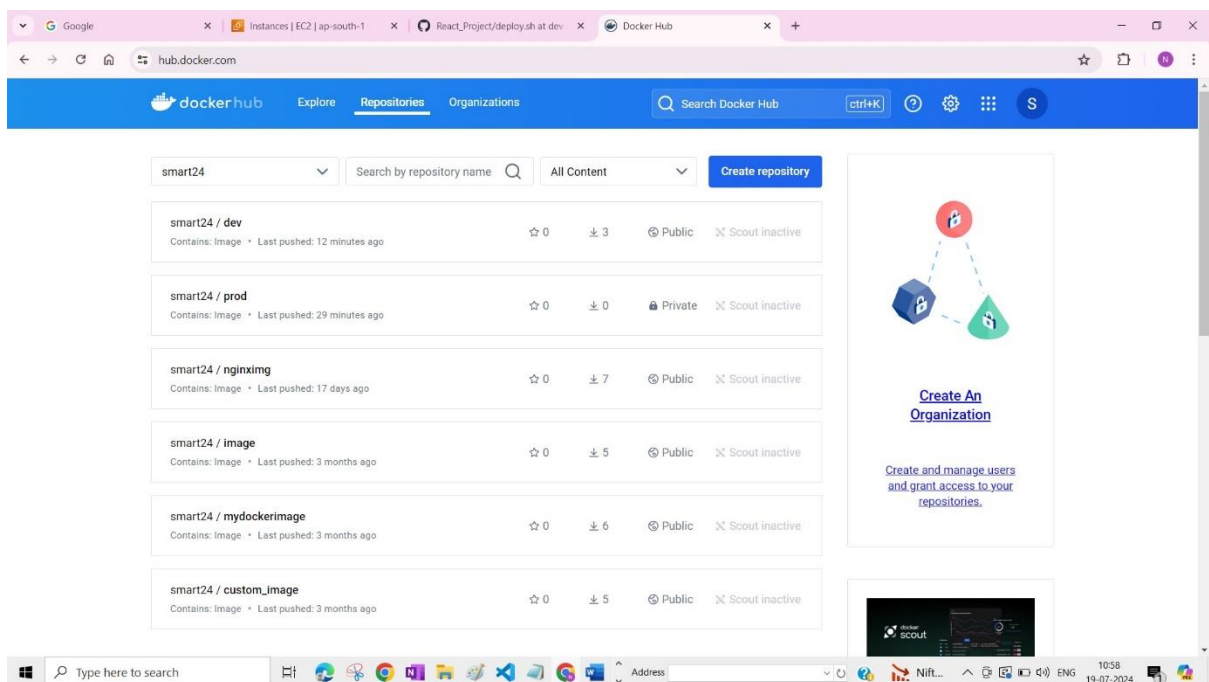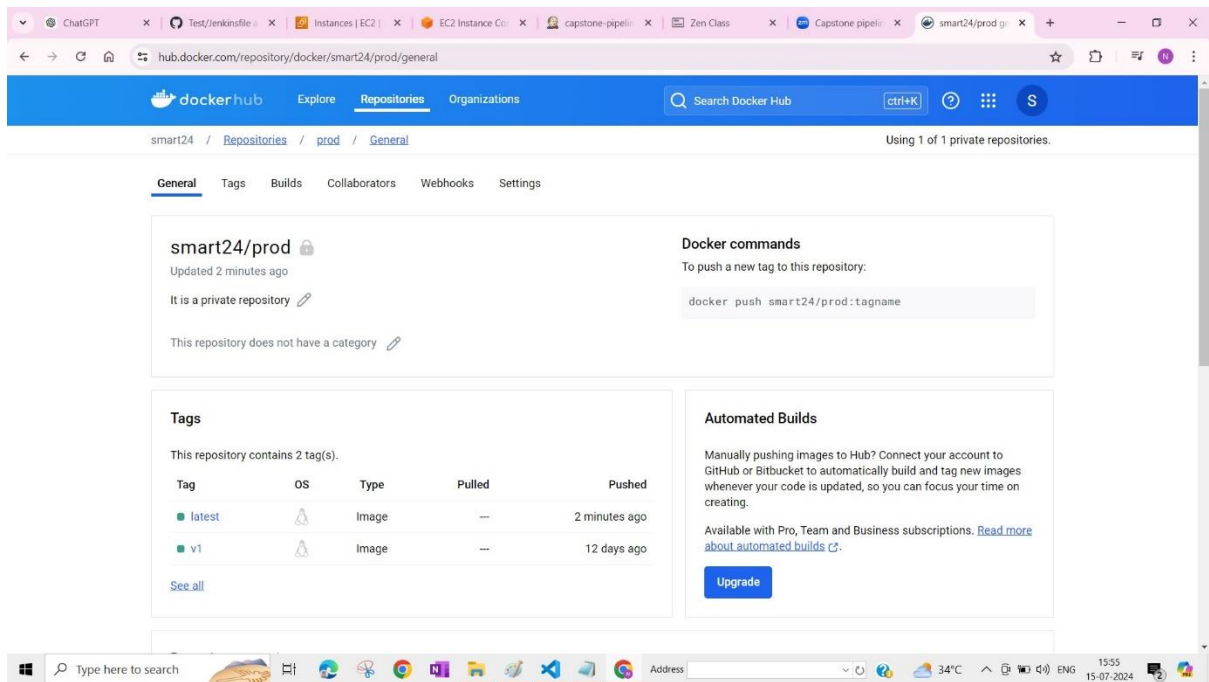
Output:

Deployed site:
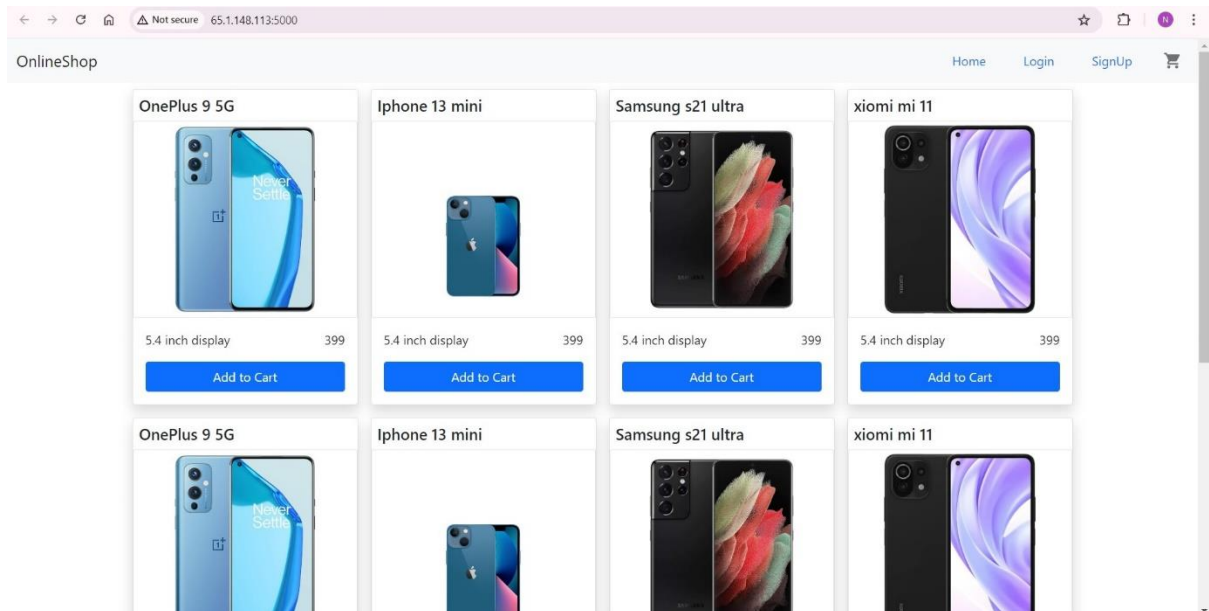
OnlineShop                                    Home    Login    SignUp    🛒

## Login Into your account

Email address

Password

**Login**

Have an account? Login In here

---

OnlineShop                                    Home    Login    SignUp    🛒

## Sign Up your account

User Name

Email address
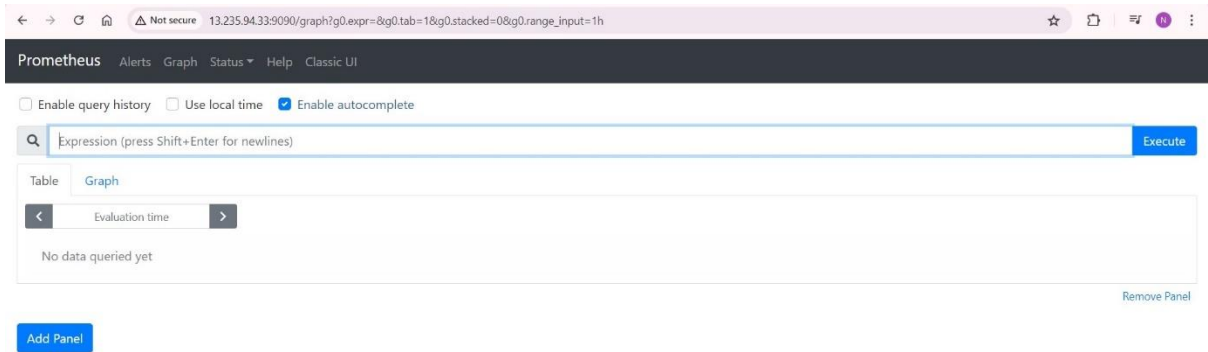
Password

**Sign Up**

Have an account? Login In here
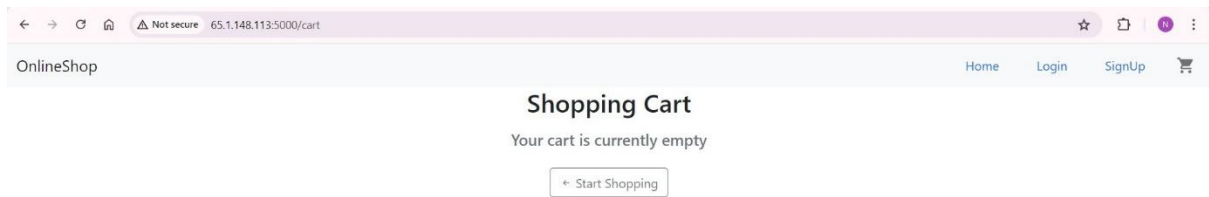
Monitoring Status: Cloudwatch Alarm:
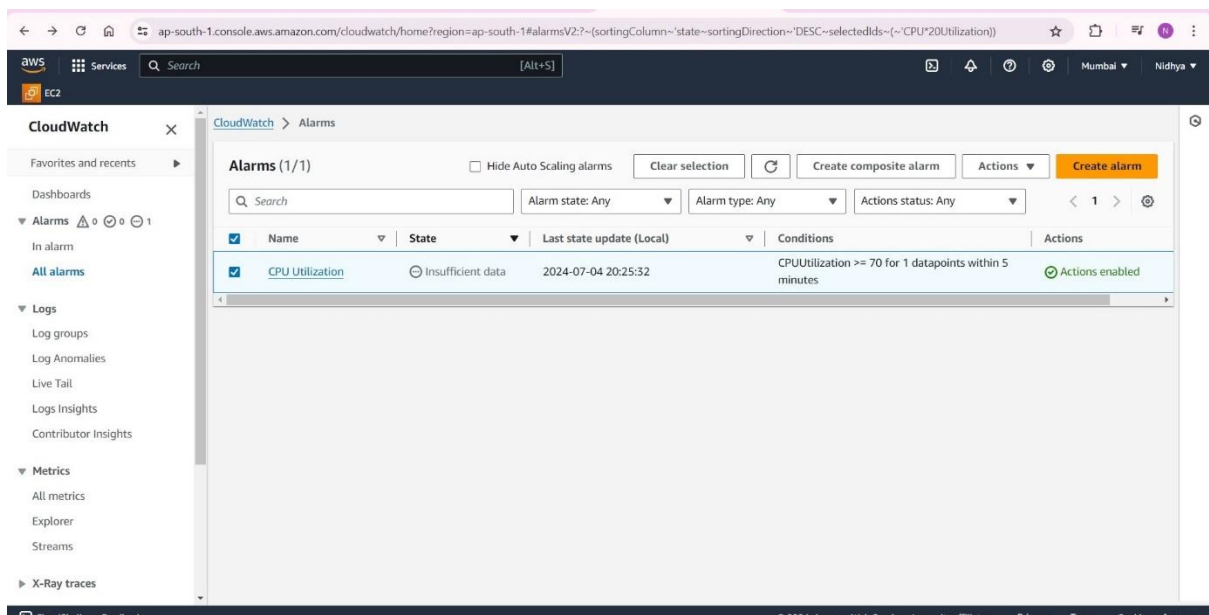
## Cloudwatch Metrics:
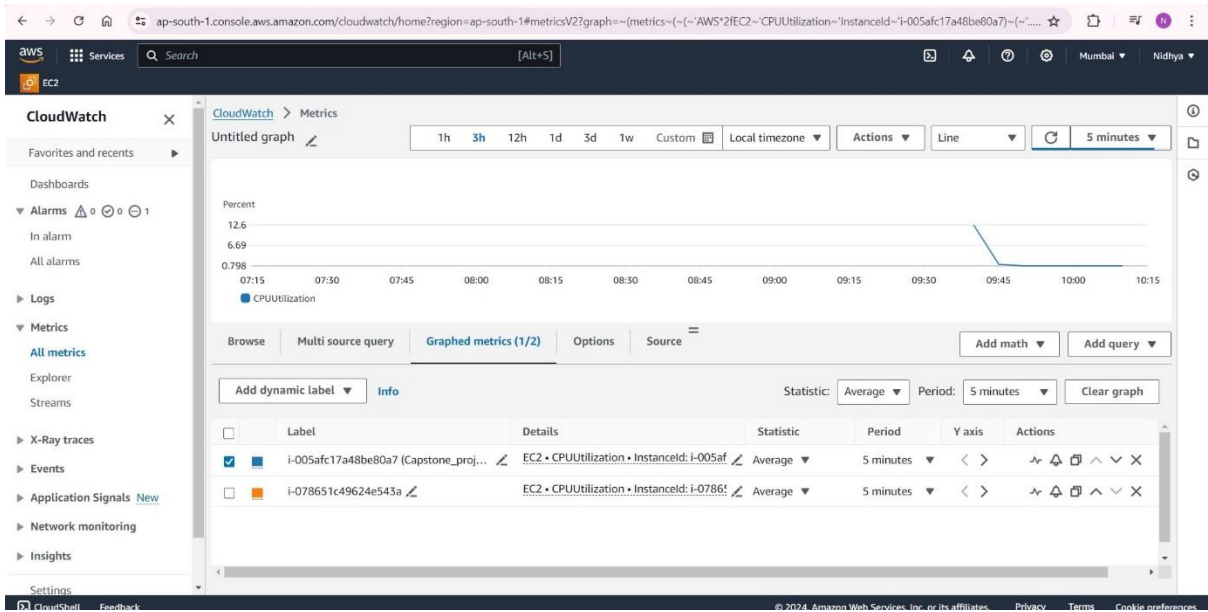


## Prometheus and Grafana Status:

Target Server in which Application is running:

Grafana Visualization Report: Login Page:
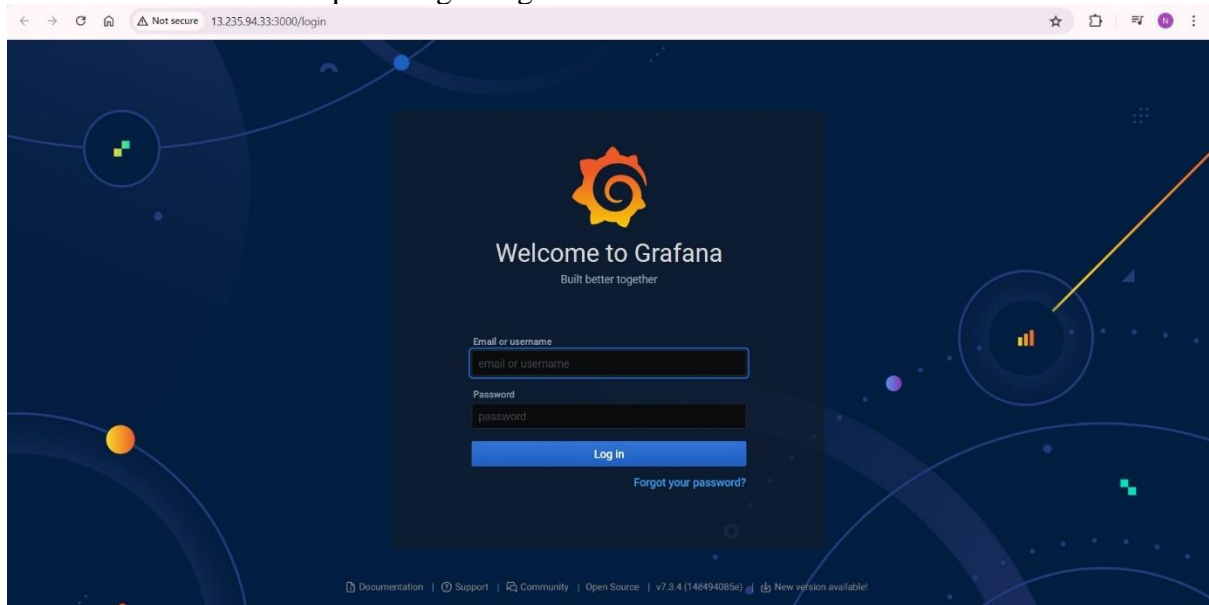


CPU Utilization:

Memory Utilization: