Capstone_Project:

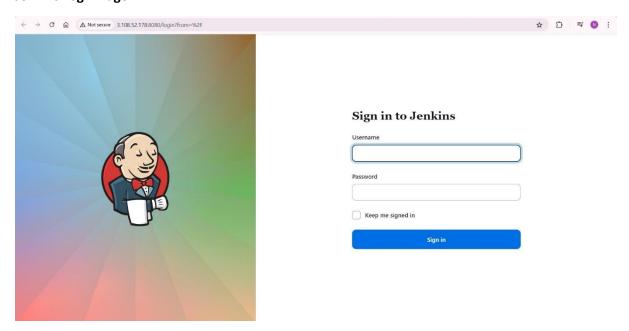
Application Deployment:

Deploy the given react application to a production ready state

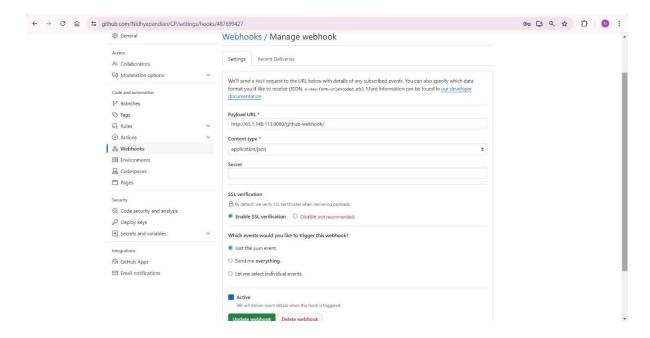
GitHub URL:

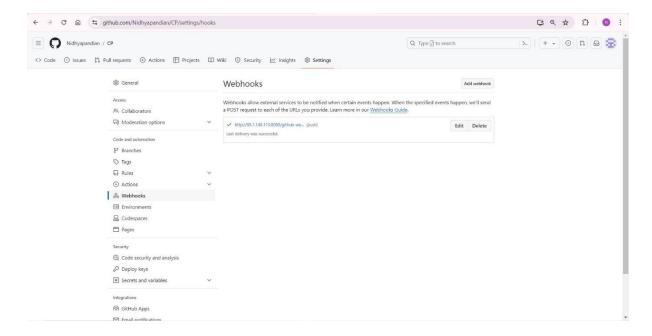
https://github.com/Nidhyapandian/React_Project.git

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 Ienkins 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 # timeout=10
- > 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
```

[Pipeline] }

[Pipeline] // stage

[Pipeline] stage

[Pipeline] { (Deploy)

[Pipeline] with Credentials

Masking supported pattern matches of \$DOCKER_PASSWORD

[Pipeline] {

[Pipeline] sh

- + 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

[Pipeline] script

[Pipeline] {

[Pipeline] echo

Current branch is: dev

[Pipeline] sh

+ docker-compose down

Stopping web ...

Stopping web ... done

Removing web ...

Removing web ... done

Removing network react_project_default

[Pipeline] sh

+ chmod +x build.sh

[Pipeline] sh

+./build.sh

Creating network "react_project_default" with the default driver

Creating web ...

Creating web ... done

[Pipeline] echo

Changes in this dev branch

[Pipeline] sh

+ docker tag nginximage smart24/dev

[Pipeline] sh

+ 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

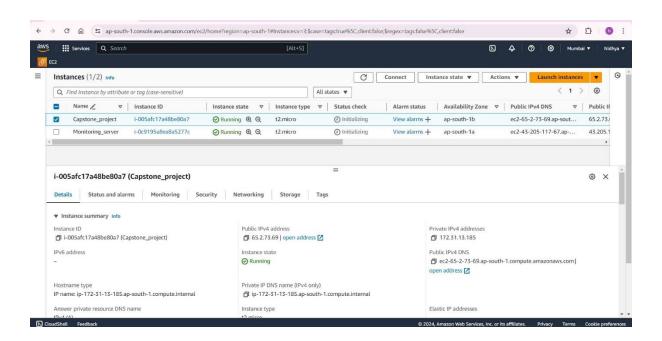
size: 1989 [Pipeline] echo

Docker image pushed successfully.

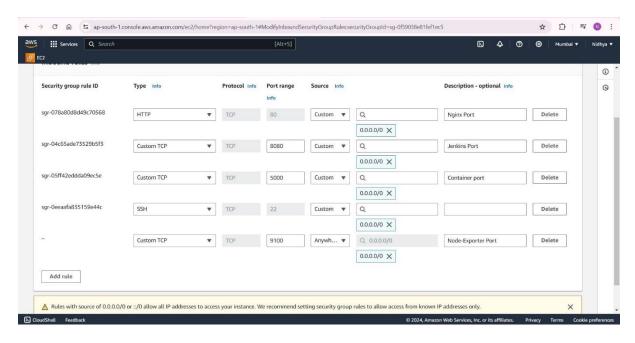
[Pipeline] }
[Pipeline] // script
[Pipeline] // script
[Pipeline] // withCredentials
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node

Finished: SUCCESS

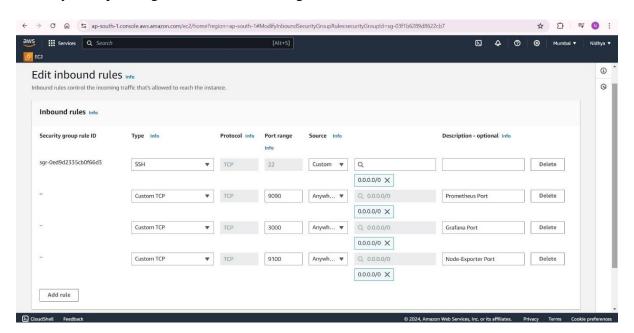
[Pipeline] End of Pipeline

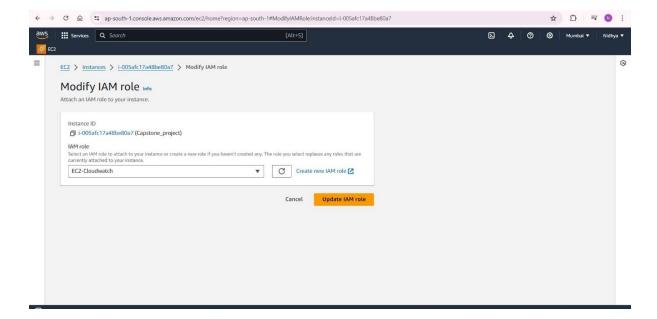


Security Group Configuration:

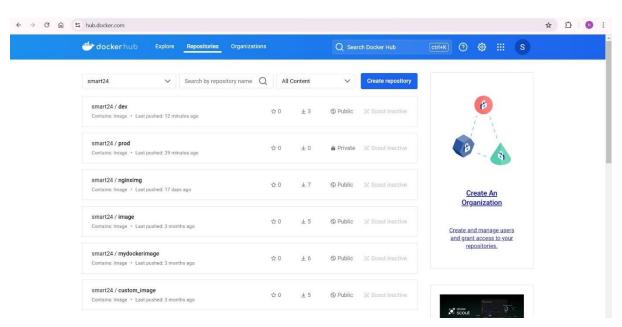


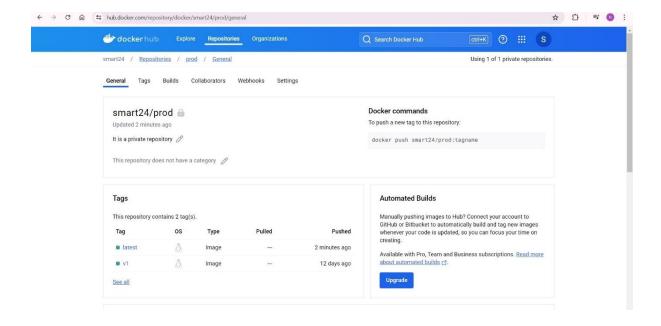
Security Group configuration for Monitoring Server:





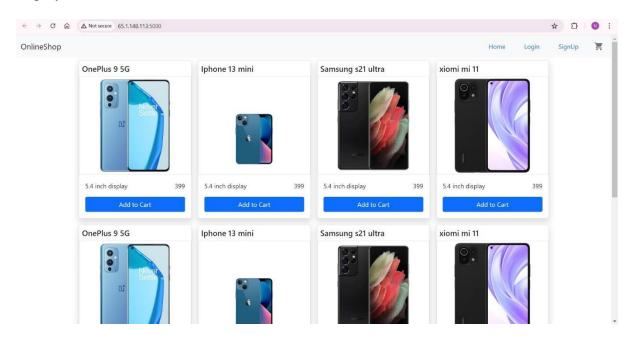
Dockerhub Registry showing images pushed into prod and dev repo:

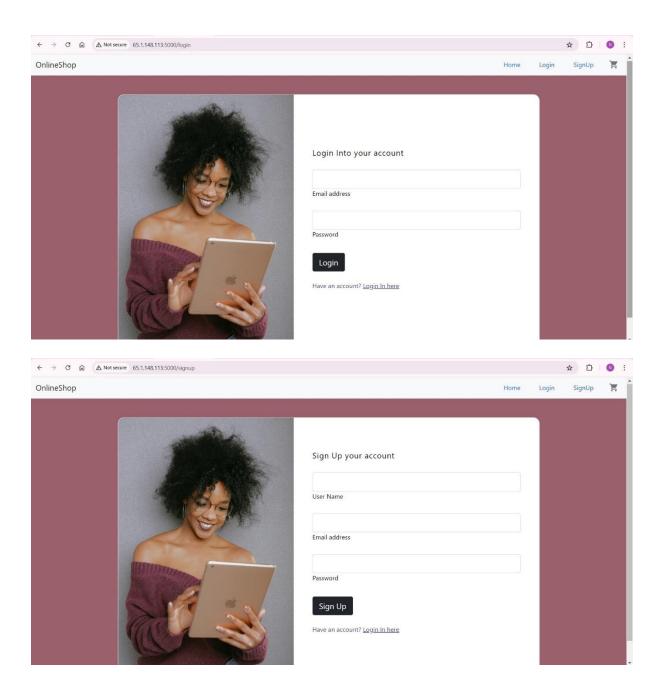




Output:

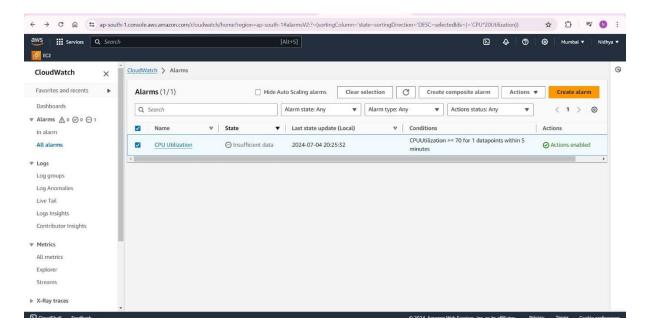
Deployed site:



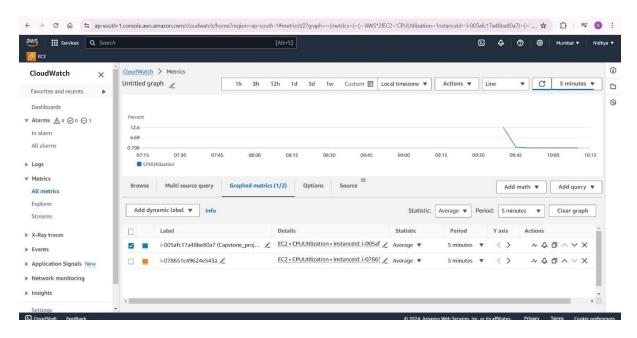




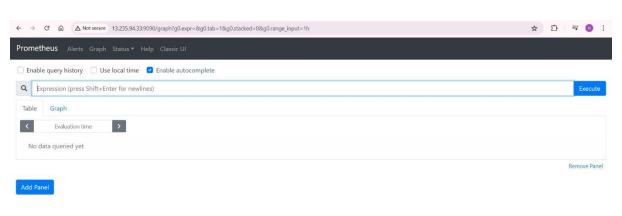
Monitoring Status: Cloudwatch Alarm:

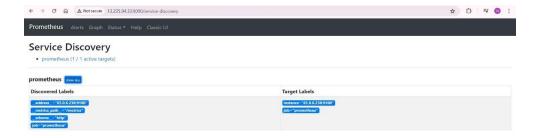


Cloudwatch Metrics:



Prometheus and Grafana Status:

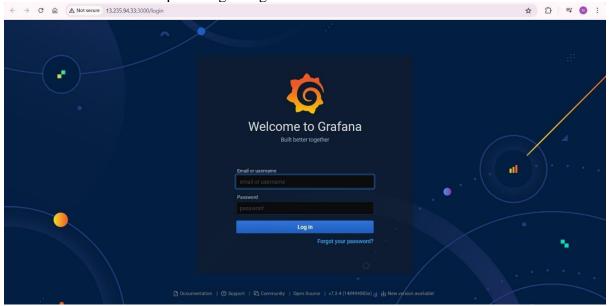




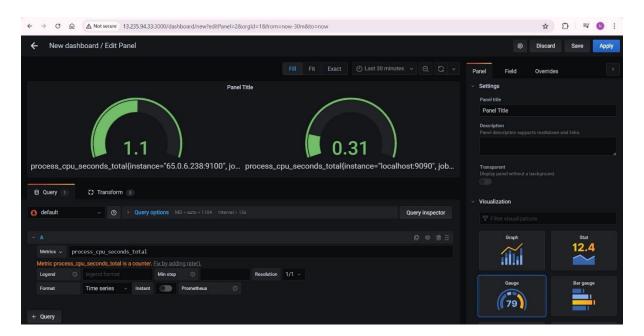
Target Server in which Application is running:



Grafana Visualization Report: Login Page:



CPU Utilization:



Memory Utilization:

