

Capstone_Project :

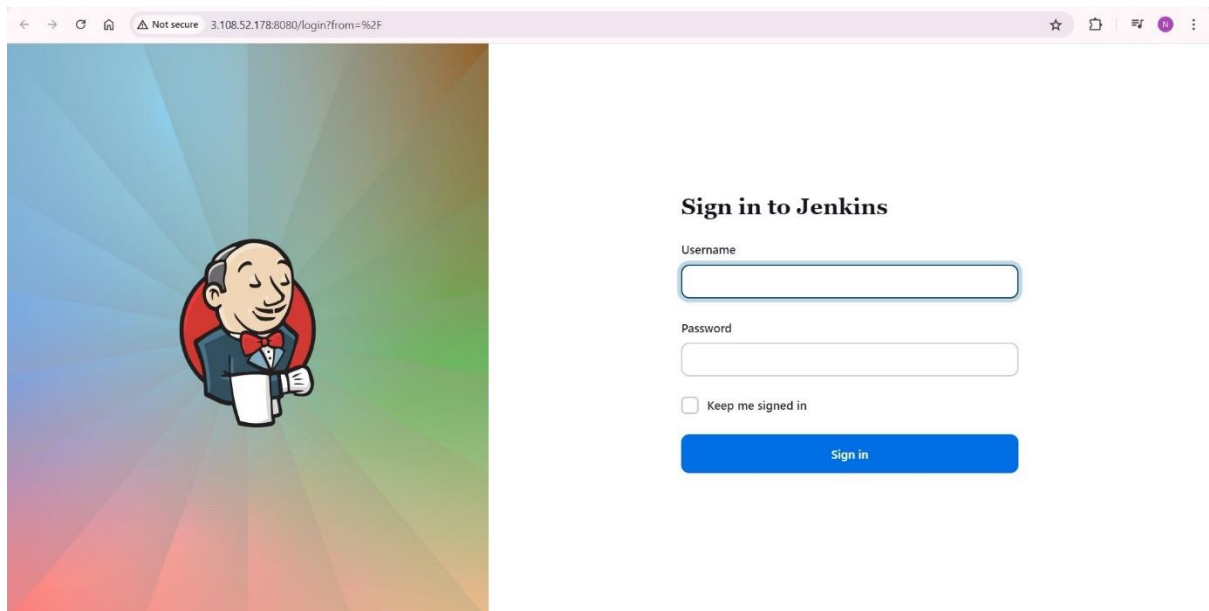
Application Deployment:

Deploy the given react application to a production ready state

GitHub URL:

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

Jenkins Login Page:



Sign in to Jenkins

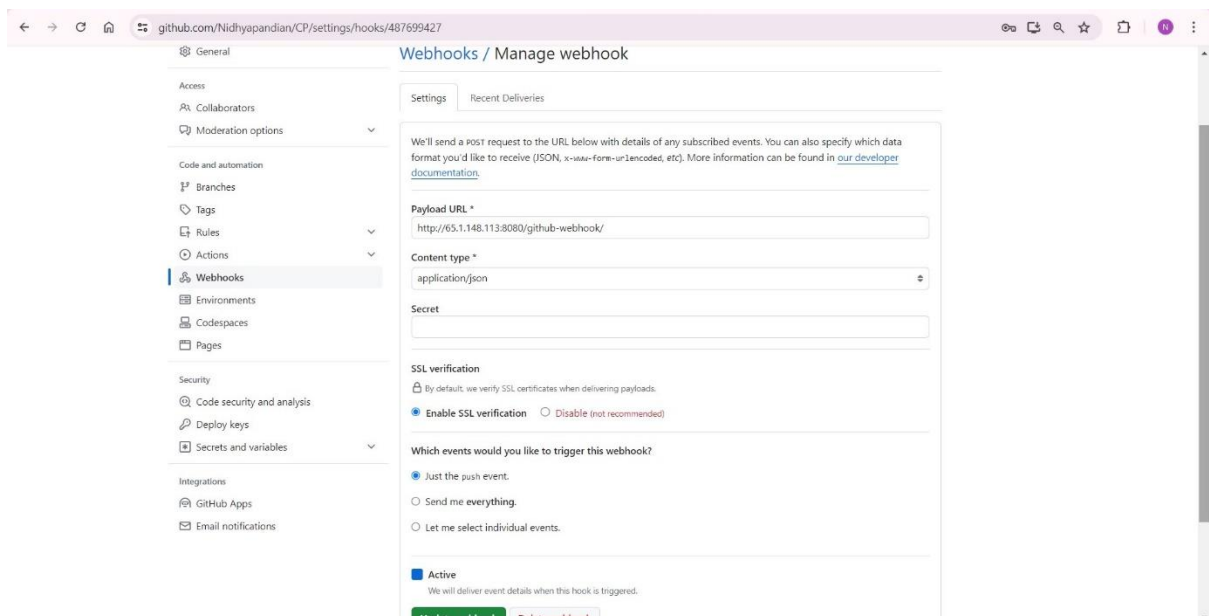
Username

Password

☐ Keep me signed in

Sign in

Webhook Configuration:



Webhooks / Manage webhook

Settings Recent Deliveries

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, x-www-form-urlencoded, etc). More information can be found in [our developer documentation](#).

Payload URL *

http://65.1.148.113:8080/github-webhook/

Content type *

application/json

Secret

SSL verification

By default, we verify SSL certificates when delivering payloads.

☒ Enable SSL verification ☐ Disable (not recommended)

Which events would you like to trigger this webhook?

☒ Just the push event.

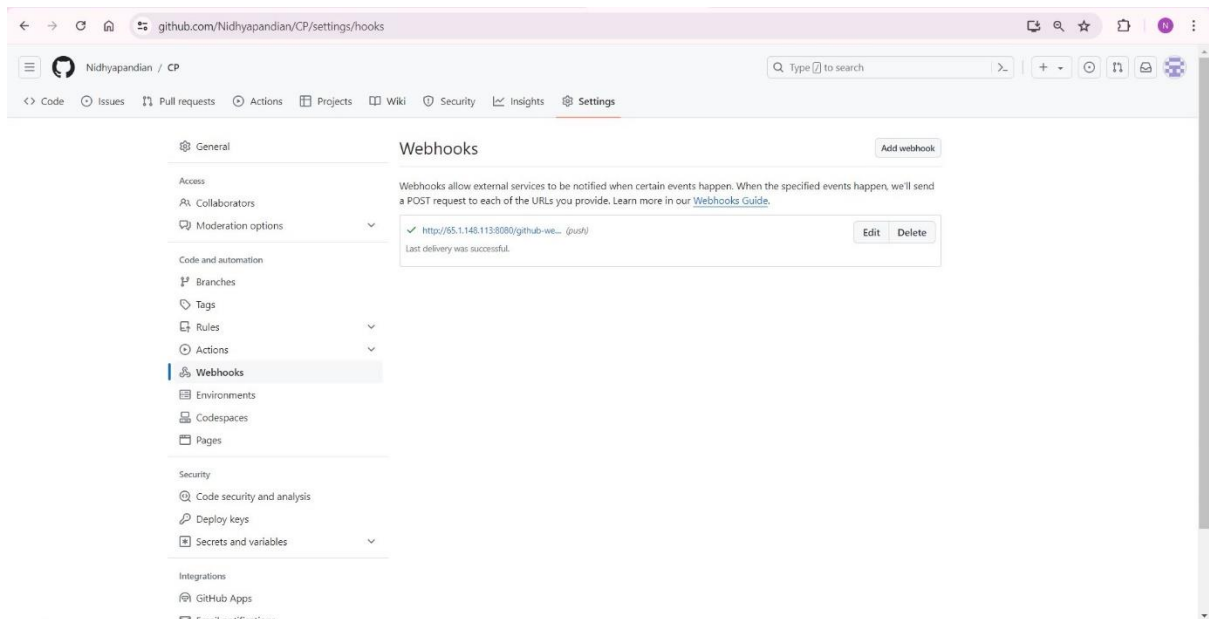
☐ Send me everything.

☐ Let me select individual events.

☒ Active

We will deliver event details when this hook is triggered.

Update webhook Delete webhook



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
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] withCredentials
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
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

The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services' link, a search bar, and user information (Mumbai, Nidhya). Below this is the 'EC2' console header. The main content area shows a list of EC2 instances under the heading 'Instances (1/2)'. Two instances are listed: 'Capstone_project' (ID: i-005afc17a48be80a7) and 'Monitoring_server' (ID: i-0c9195a8ea8a5277c). Both are in a 'Running' state. The 'Capstone_project' instance is selected, and its details are shown in a panel below. The details panel includes tabs for 'Details', 'Status and alarms', 'Monitoring', 'Security', 'Networking', 'Storage', and 'Tags'. The 'Details' tab is active, showing an 'Instance summary' with fields like Instance ID, IP address, Hostname type, and Instance type. It also displays network information, including Public IPv4 address (65.2.73.69), Private IPv4 addresses (172.31.13.185), and Public IPv4 DNS (ec2-65-2-73-69.ap-south-1.compute.amazonaws.com).

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Public IP
Capstone_project	i-005afc17a48be80a7	Running	t2.micro	Initializing	View alarms +	ap-south-1b	ec2-65-2-73-69.ap-sout...	65.2.73.69
Monitoring_server	i-0c9195a8ea8a5277c	Running	t2.micro	Initializing	View alarms +	ap-south-1a	ec2-43-205-117-67.ap-...	43.205.117.67

i-005afc17a48be80a7 (Capstone_project)

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

Instance summary info

Instance ID
i-005afc17a48be80a7 (Capstone_project)

IP address
-

Hostname type
IP name: ip-172-31-13-185.ap-south-1.compute.internal

Answer private resource DNS name
IP v4 (A)

Public IPv4 address
65.2.73.69 | [open address](#)

Instance state
Running

Private IP DNS name (IPv4 only)
ip-172-31-13-185.ap-south-1.compute.internal

Instance type
t2.micro

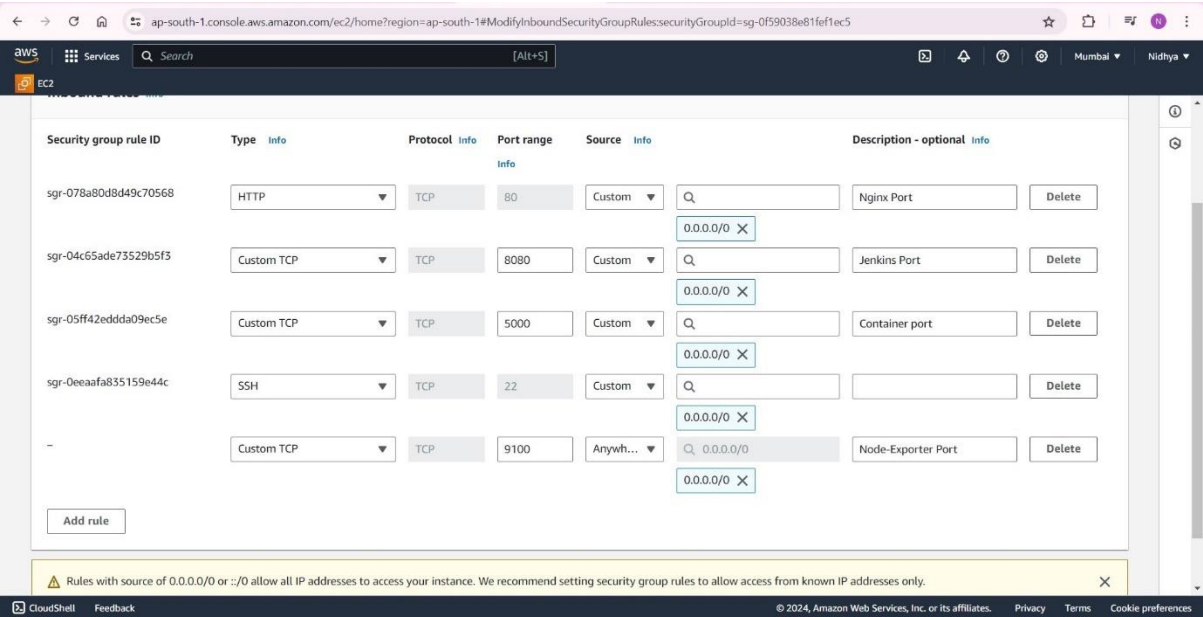
Private IPv4 addresses
172.31.13.185

Public IPv4 DNS
ec2-65-2-73-69.ap-south-1.compute.amazonaws.com | [open address](#)

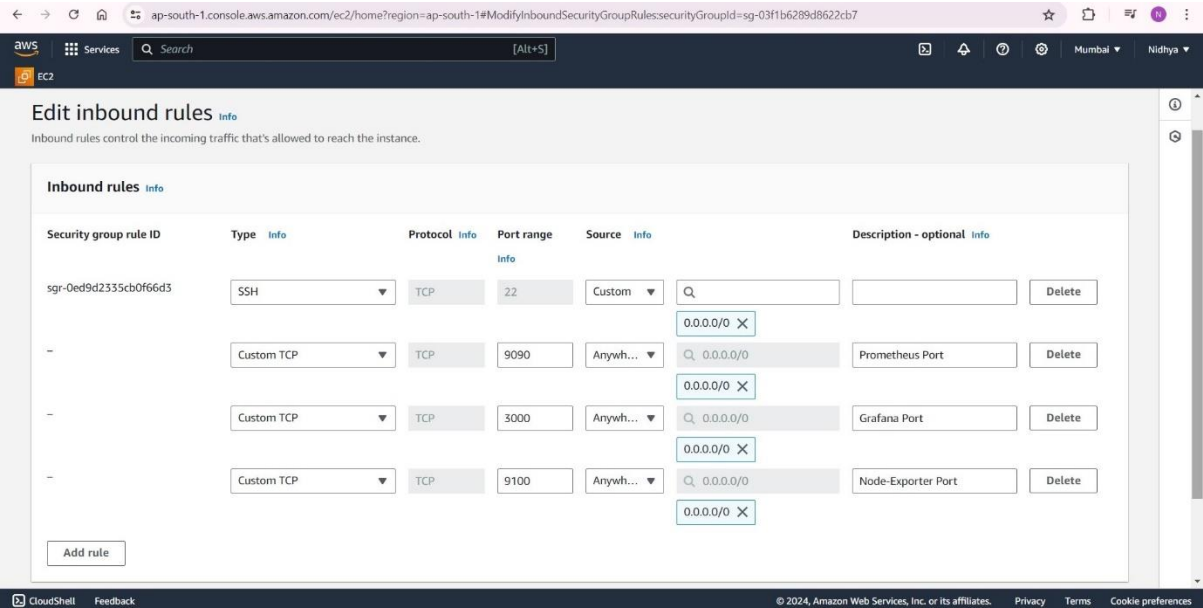
Elastic IP addresses

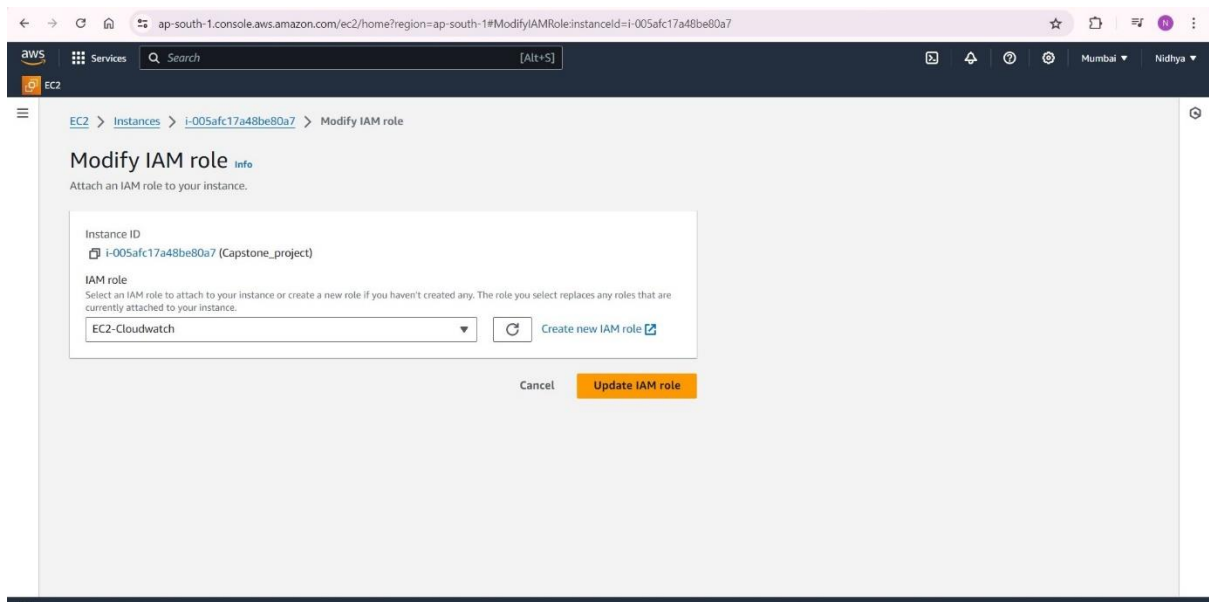
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Security Group Configuration:

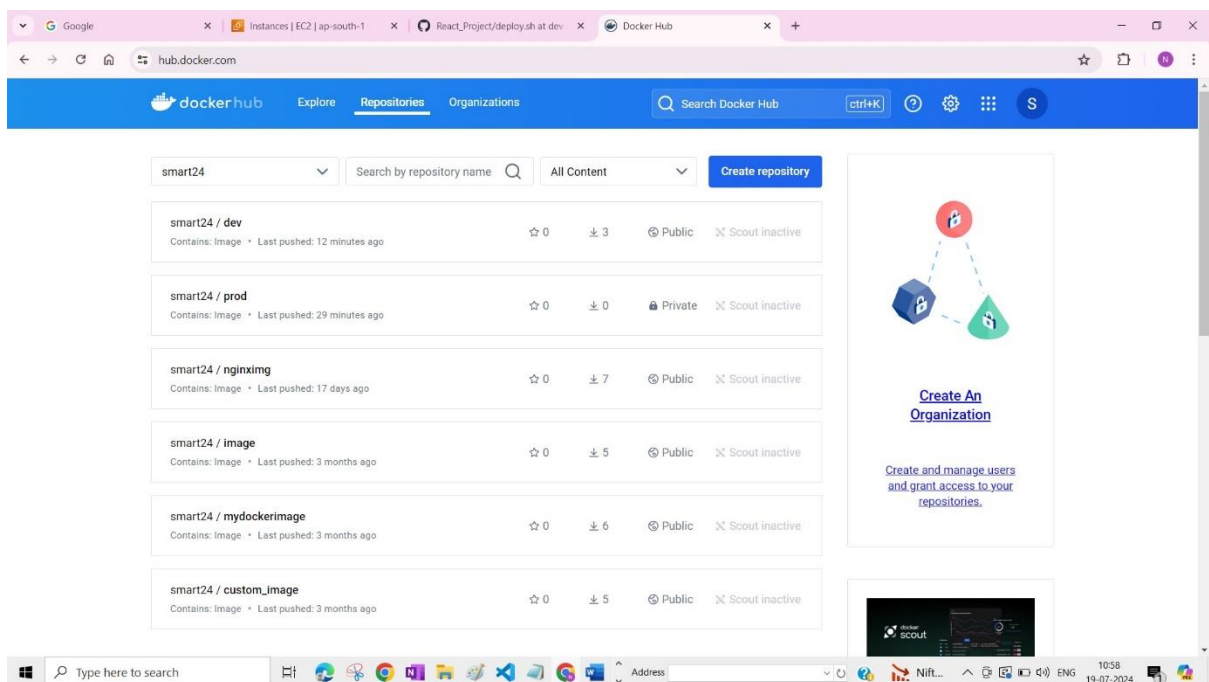


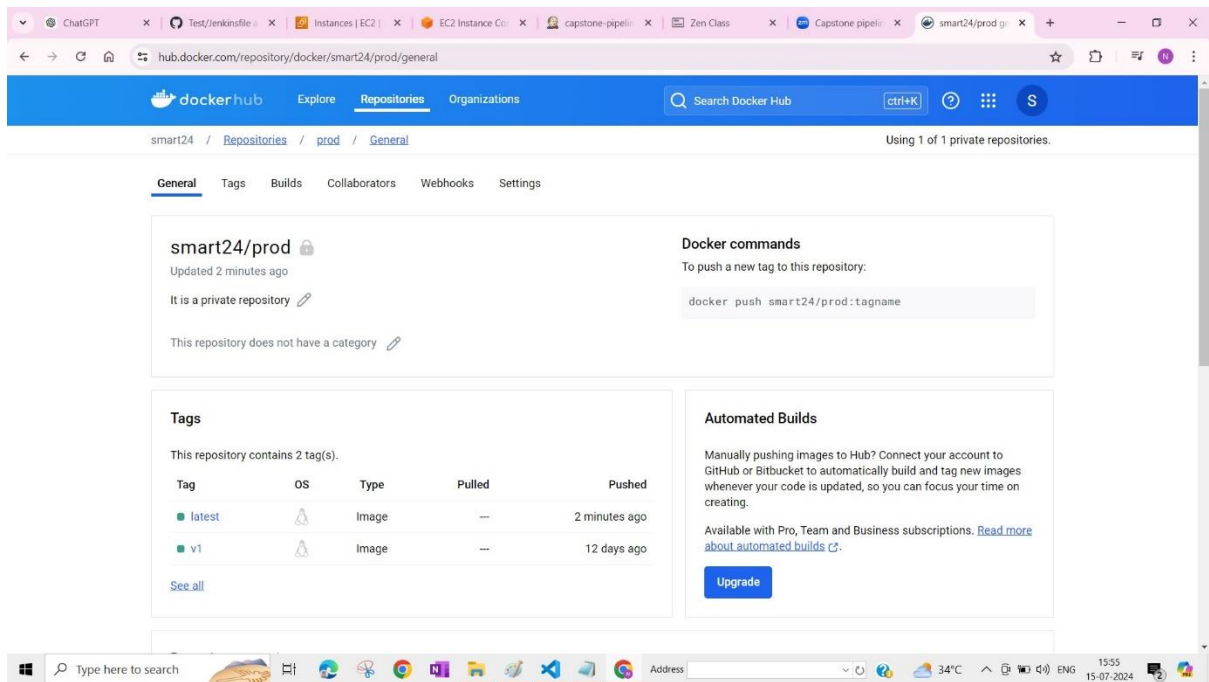
Security Group configuration for Monitoring Server:





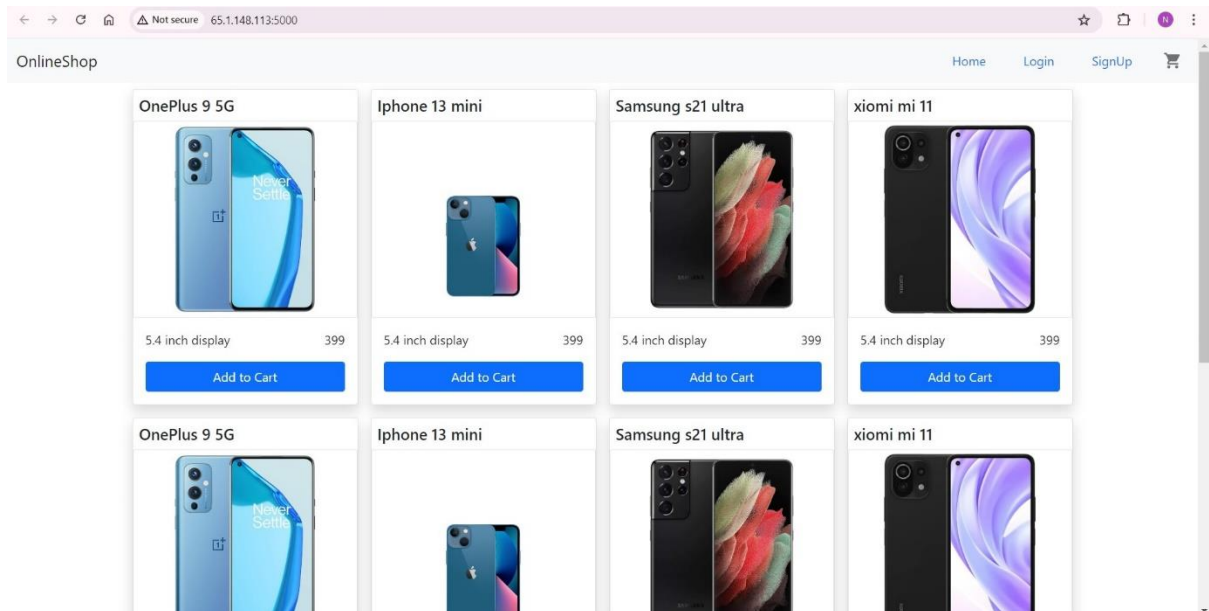
Dockerhub Registry showing images pushed into prod and dev repo:






Output:

Deployed site:



← → 🔍 📄 ⚠️ Not secure 65.1.148.113:5000/login ☆ 🗑️ ⓘ ⋮

OnlineShop Home Login **SignUp** 🛒



Login Into your account

Email address


Password

Login

Have an account? [Login In here](#)

← → 🔍 📄 ⚠️ Not secure 65.1.148.113:5000/signup ☆ 🗑️ ⓘ ⋮

OnlineShop Home Login **SignUp** 🛒



Sign Up your account

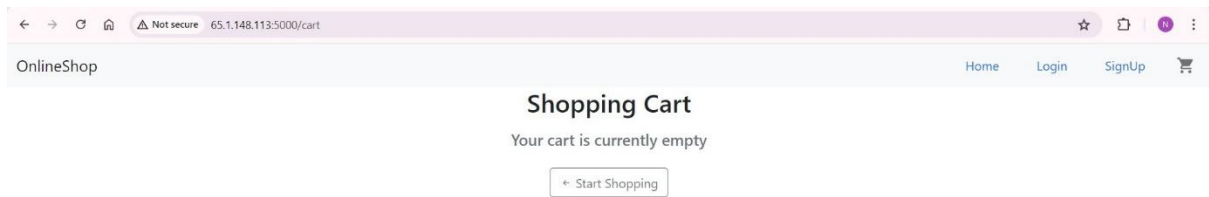
User Name

Email address

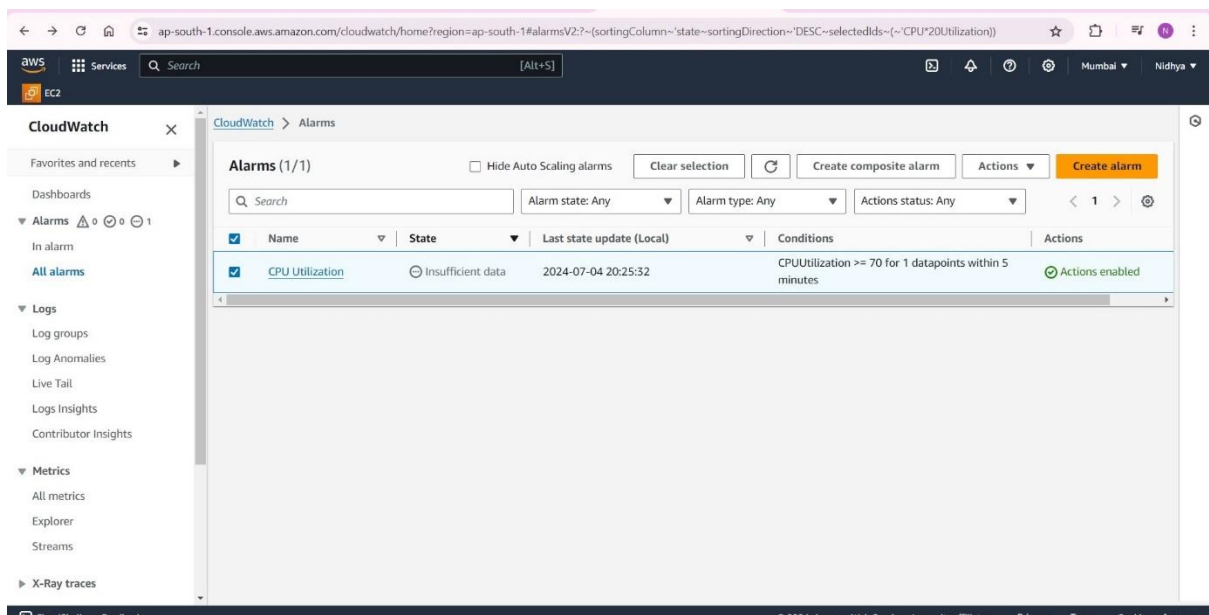
Password

Sign Up

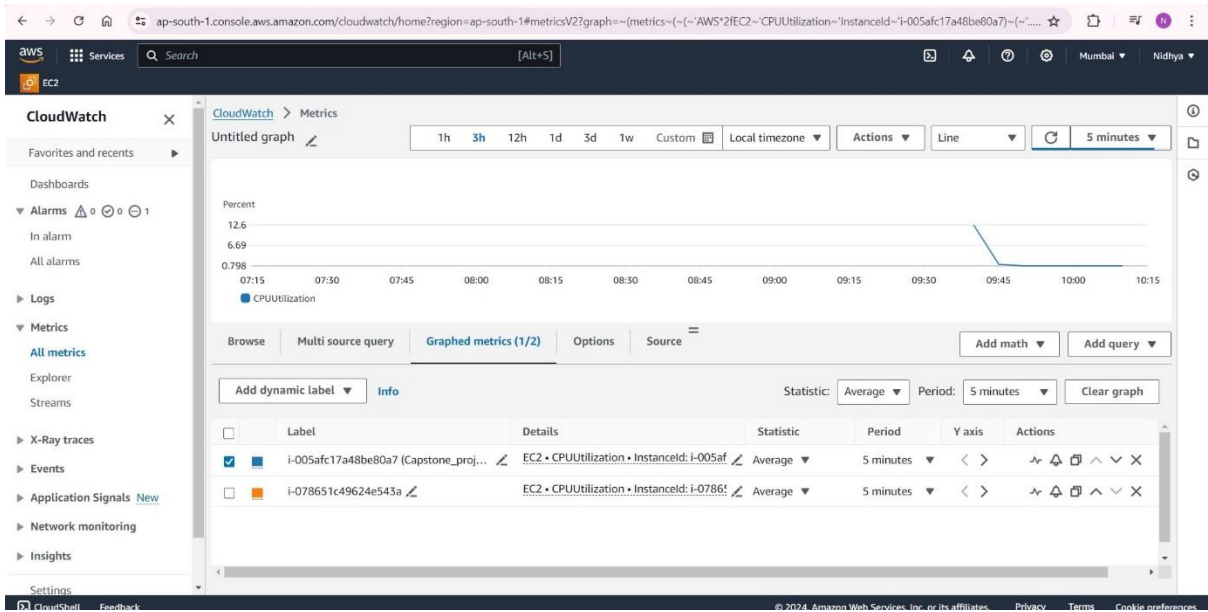
Have an account? [Login In here](#)



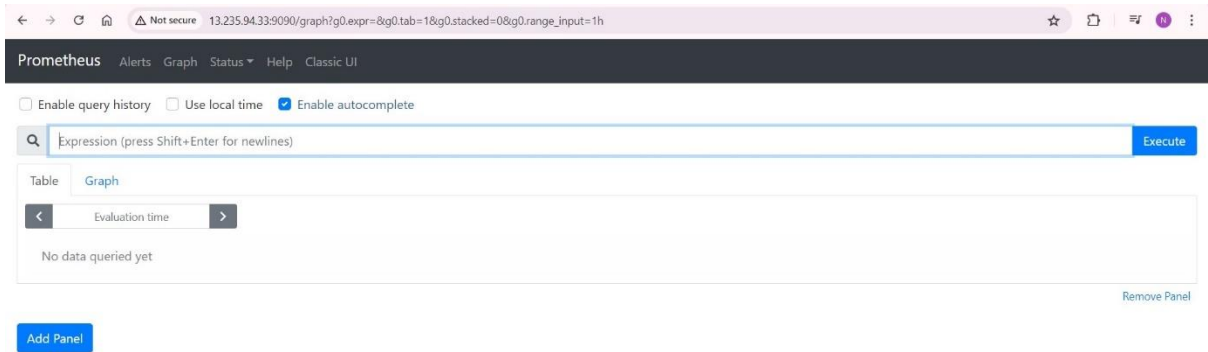
Monitoring Status: Cloudwatch Alarm:



Cloudwatch Metrics:



Prometheus and Grafana Status:



← → ↻ 🔒 Not secure 13.235.94.33:9090/service-discovery ☆ 🗑️ 🗒️ ⓘ ⋮

Prometheus Alerts Graph Status ▾ Help Classic UI

Service Discovery

• prometheus (1 / 1 active targets)

prometheus [Show logs](#)

Discovered Labels

[address="65.0.6.238:9100"](#)
[metrics_path="/metrics"](#)
[scheme="http"](#)
[job="prometheus"](#)

Target Labels

[instance="65.0.6.238:9100"](#)
[job="prometheus"](#)

Target Server in which Application is running:

← → ↻ 🔒 Not secure 13.235.94.33:9090/targets ☆ 🗑️ 🗒️ ⓘ ⋮

Prometheus Alerts Graph Status ▾ Help Classic UI

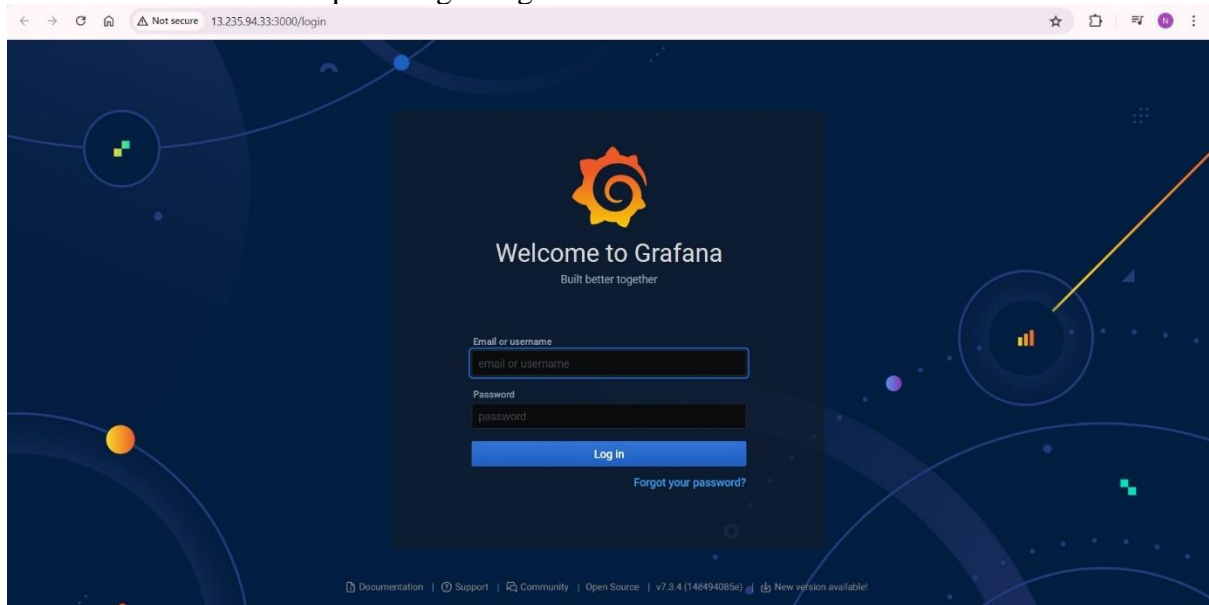
Targets

[All](#) [Unhealthy](#)

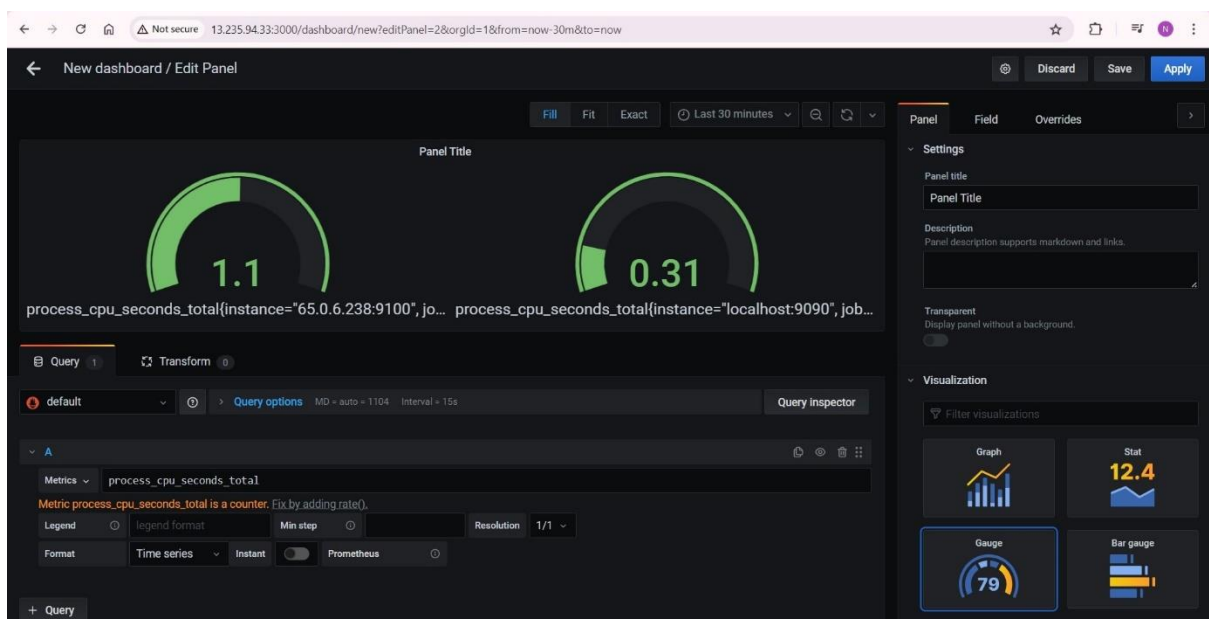
prometheus (1/1 up) [Show logs](#)

Endpoint	State	Labels	Last Scrape	Scrape Duration	Error
http://65.0.6.238:9100/metrics	UP	instance="65.0.6.238:9100" job="prometheus"	-2.294s	30.226ms	

Grafana Visualization Report: Login Page:



CPU Utilization:



Memory Utilization:

