Capstone project (reactjs)
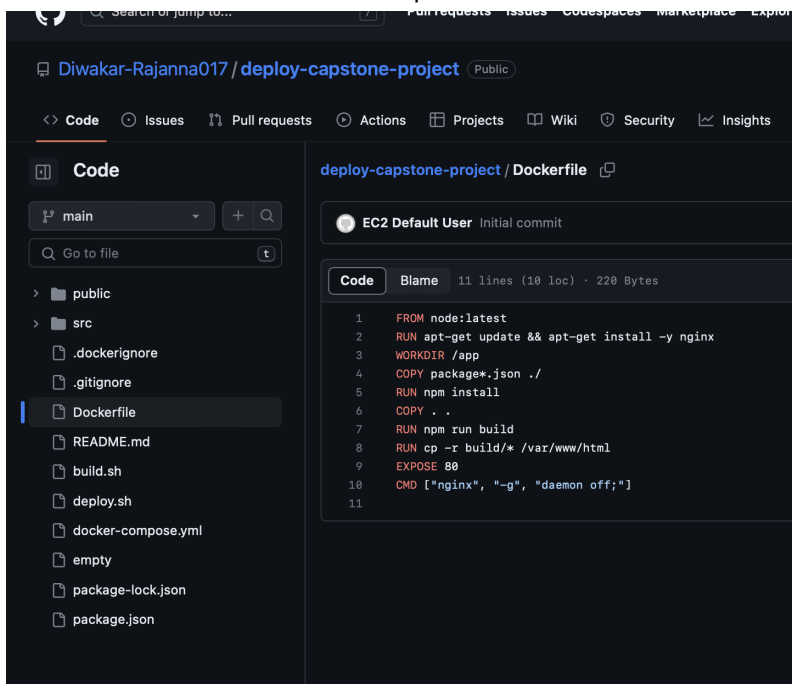
Docker hub url - https://hub.docker.com/repositories/diwakarrajanna
Github url - https://github.com/Diwakar-Rajanna017/deploy-capstone-project.git
Deployed application server -01 : http://3.140.198.2
Deployed application server -02 : http://3.129.24.215

- Clone : https://github.com/rvsp/reactis-demo to a ec2 machine to work on

- Wrote a dockerfile and docker compose file

Wrote build.sh and deploy.sh file - tused this sh script were used to check via ec2 (path can been change according to ur requirement where u have clone ur repo and what type of machine u using)

deploy-capstone-project / **build.sh**

Diwakar-Rajanna017 adding build and deploy script

Code | Blame   24 lines (16 loc) · 480 Bytes

```bash
#!/bin/bash

TAG=${1:-"latest"}

if [ -z "$1" ]; then
    echo "No version number provided. Using 'latest' as the default tag."
fi

IMAGE_NAME="my-capstone-app"

echo "Building Docker image ${IMAGE_NAME}:${TAG}"

docker build -t "${IMAGE_NAME}:${TAG}" /home/ec2-user/reactjs-demo

if [ "$?" -eq 0 ]; then
    echo "Docker image ${IMAGE_NAME}:${TAG} built successfully."
else
    echo "Error: Docker image build failed."
    exit 1
fi

echo "List of Docker images:"
docker images
```
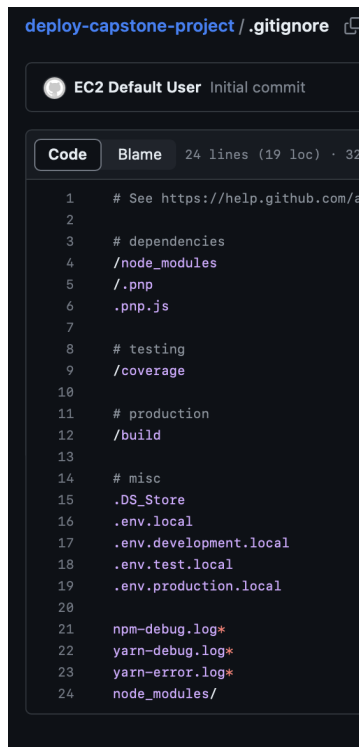
deploy-capstone-project / **deploy.sh**

Diwakar-Rajanna017 updated file for deploy and docker compose file

Code | Blame   5 lines (3 loc) · 96 Bytes

```bash
#!/bin/bash

docker-compose -f /home/ec2-user/reactjs-demo/docker-compose.yml up -d

docker ps
```
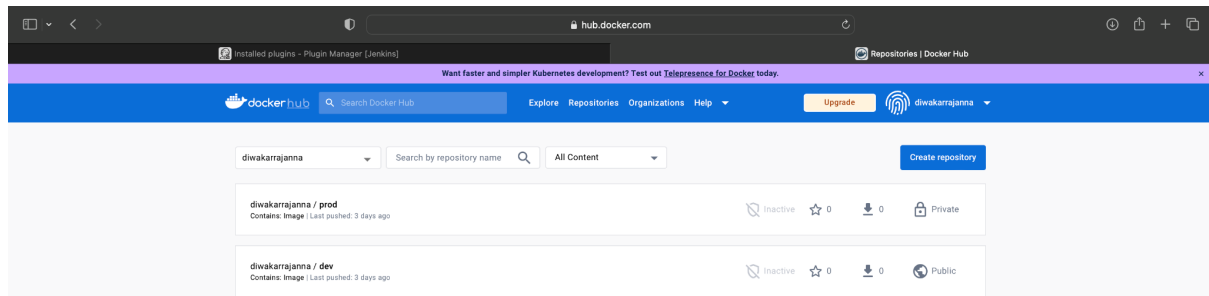
Create two file of .gitignore and .dockerignore to avoid pushing of unwanted file to central repo and i have declare node_modules inside it
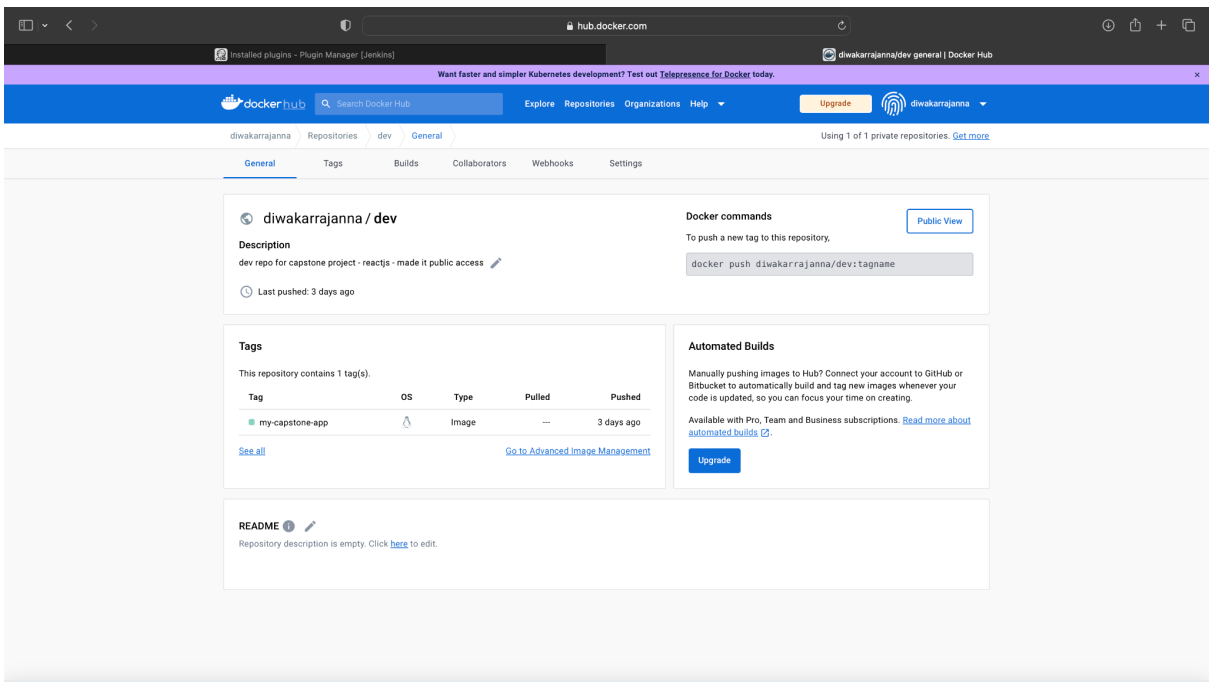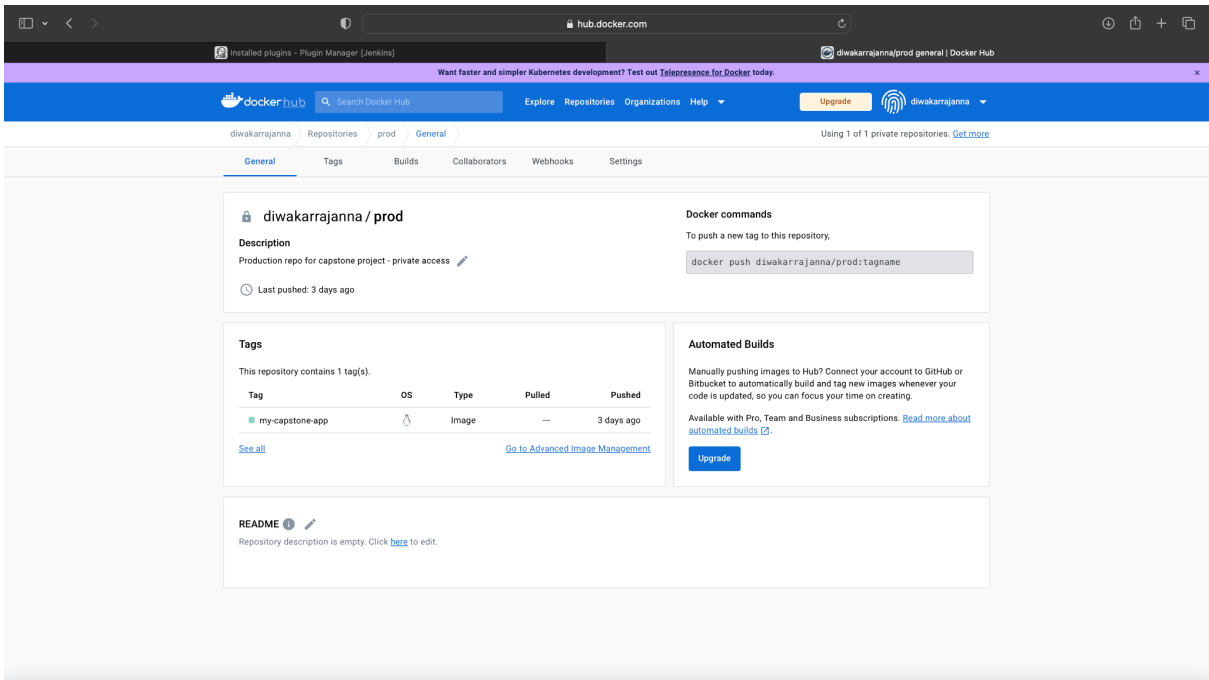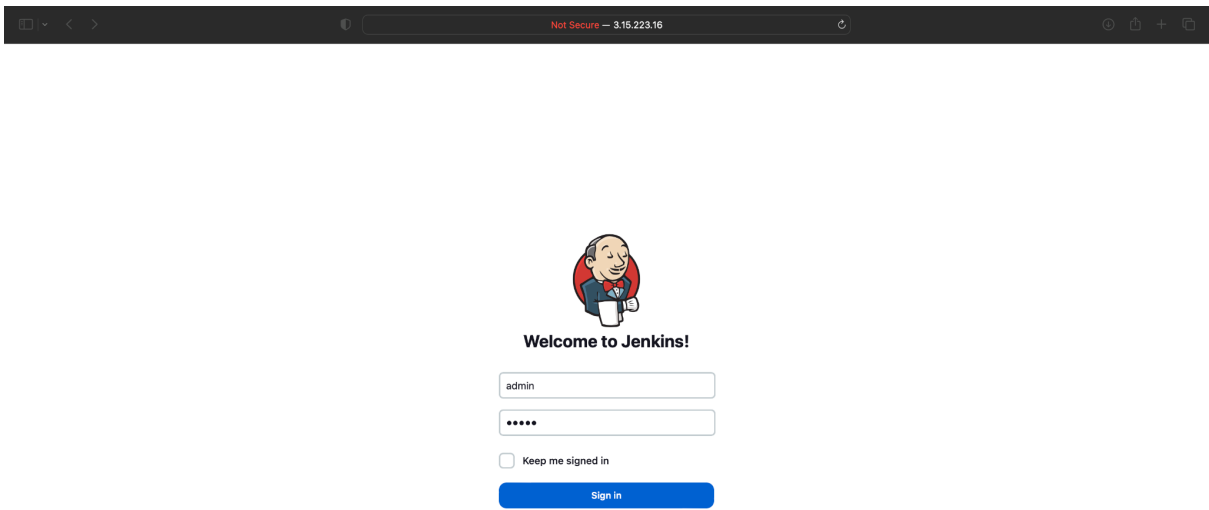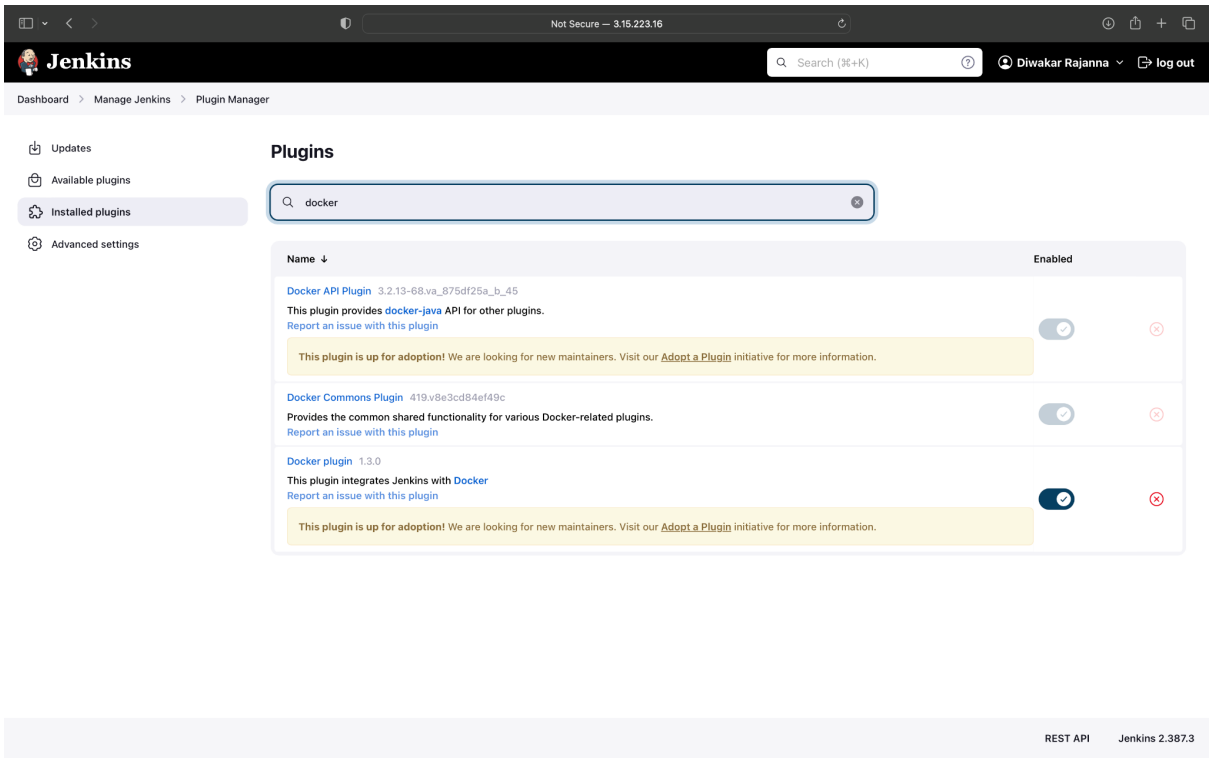

Created a docker hub repo

And repo for pushing the code maintained two repo dev and prod - prod made it private and dev public repo

Want faster and simpler Kubernetes development? Test out **Telepresence for Docker** today.   ✕

🐳 **docker**hub   🔍 Search Docker Hub   Explore   Repositories   Organizations   Help ⌄   Upgrade   👤 diwakarrajanna ⌄

diwakarrajanna ＞ Repositories ＞ prod ＞ General   Using 1 of 1 private repositories. Get more

General   Tags   Builds   Collaborators   Webhooks   Settings

🔒 diwakarrajanna / **prod**

Description
Production repo for capstone project - private access ✏

🕐 Last pushed: 3 days ago

Docker commands
To push a new tag to this repository,

`docker push diwakarrajanna/prod:tagname`

Tags
This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
🟢 my-capstone-app	🐧	Image	---	3 days ago

See all   Go to Advanced Image Management

Automated Builds
Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

Available with Pro, Team and Business subscriptions. Read more about automated builds ↗.

Upgrade

README ⓘ ✏
Repository description is empty. Click here to edit.

How likely are you to recommend Docker Hub to another developer?   ✕
Not at all likely   0 1 2 3 4 5 6 7 8 9 10   Extremely likely
powered by InMoment

Want faster and simpler Kubernetes development? Test out **Telepresence for Docker** today.   ✕

🐳 **docker**hub   🔍 Search Docker Hub   Explore   Repositories   Organizations   Help ⌄   Upgrade   👤 diwakarrajanna ⌄

diwakarrajanna ＞ Repositories ＞ dev ＞ General   Using 1 of 1 private repositories. Get more

General   Tags   Builds   Collaborators   Webhooks   Settings

🌐 diwakarrajanna / **dev**

Description
dev repo for capstone project - reactjs - made it public access ✏

🕐 Last pushed: 3 days ago

Docker commands   Public View
To push a new tag to this repository,

`docker push diwakarrajanna/dev:tagname`

Tags
This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
🟢 my-capstone-app	🐧	Image	---	3 days ago

See all   Go to Advanced Image Management

Automated Builds
Manually pushing images to Hub? Connect your account to GitHub or Bitbucket to automatically build and tag new images whenever your code is updated, so you can focus your time on creating.

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Installed a jenkins a instance

Installed docker plugin to perform docker operation and git was already installed

Configuration of jenkins pipeline job

Used webhook to trigger the jenkins job

Configure

- General
- Advanced Project Options
- Pipeline

Build Triggers

- [ ] Build after other projects are built ?
- [ ] Build periodically ?
- [x] GitHub hook trigger for GITScm polling ?
- [ ] Poll SCM ?
- [ ] Quiet period ?
- [ ] Trigger builds remotely (e.g., from scripts) ?

Advanced Project Options

Advanced ⌄

Pipeline

Definition

Pipeline script ⌄

Script ?

```
 1  pipeline {
 2      agent {
 3          label 'capstone-test-ec2'
 4      }
 5
 6      environment {
 7          DOCKER_USERNAME = credentials('docker-hub-password')
 8          DOCKER_PASSWORD = credentials('docker-hub-password')
 9      }
10
11      stages {
12          stage('Clone') {
```

[Save] [Apply]

Configure

- General
- Advanced Project Options
- Pipeline

Script ?

```
 1  pipeline {
 2      agent {
 3          label 'capstone-test-ec2'
 4      }
 5
 6      environment {
 7          DOCKER_USERNAME = credentials('docker-hub-password')
 8          DOCKER_PASSWORD = credentials('docker-hub-password')
 9      }
10
11      stages {
12          stage('Clone') {
13              steps {
14                  checkout([$class: 'GitSCM', branches: [[name: 'origin/dev'], [name: 'origin/master']], doGenerateSubmoduleConfigurations: fo
15              }
16          }
17
18          stage('Build Image') {
19              steps {
20                  sh 'docker build -t myapp:latest .'
21              }
22          }
23
24          stage('Push and Deploy') {
25              steps {
26                  script {
27                      def registry
28                      def tag
29
30                      if (env.CHANGE_TARGET == 'origin/dev') {
31                          registry = 'diwakarrajanna/dev'
32                          tag = 'latest'
33                      } else if (env.CHANGE_TARGET == 'origin/master') {
34                          registry = 'diwakarrajanna/prod'
35                          tag = 'latest'
36                      } else {
37                          error "Invalid branch"
38                      }
39
40                      if (registry && tag) {
41                          withCredentials([usernamePassword(credentialsId: 'docker-hub-creds', usernameVariable: 'DOCKER_USERNAME', passwordVc
42                              sh 'docker login -u $DOCKER_USERNAME -p $DOCKER_PASSWORD'
43                              sh "docker tag myapp:latest ${registry}:${tag}"
44                              sh "docker push ${registry}:${tag}"
45                          }
46                          sh "docker-compose up -d"
47                      } else {
48                          error "Missing configuration for branch: ${env.CHANGE_TARGET}"
49                      }
50                  }
51              }
52          }
```
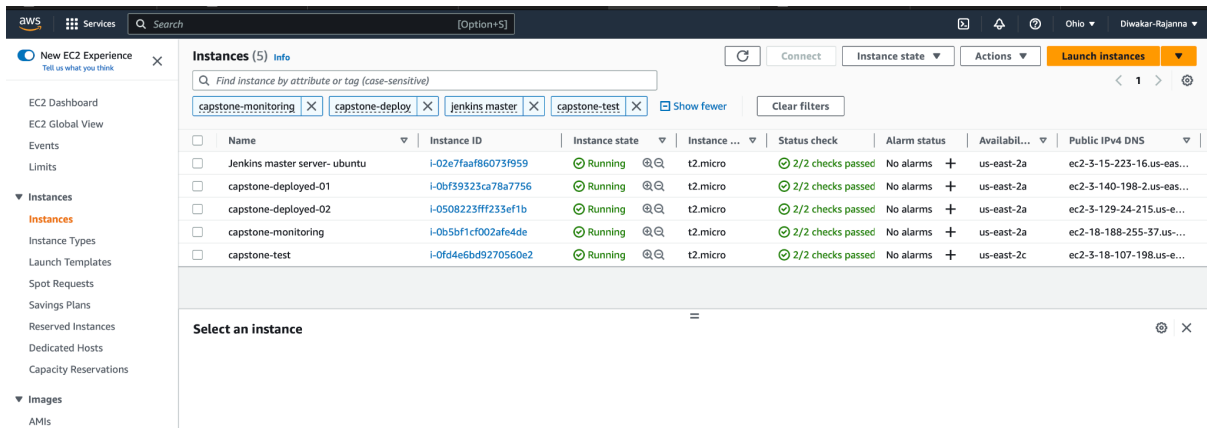
[Save] [Apply]

Deployed a application on two instance

#	Name

React App | React App

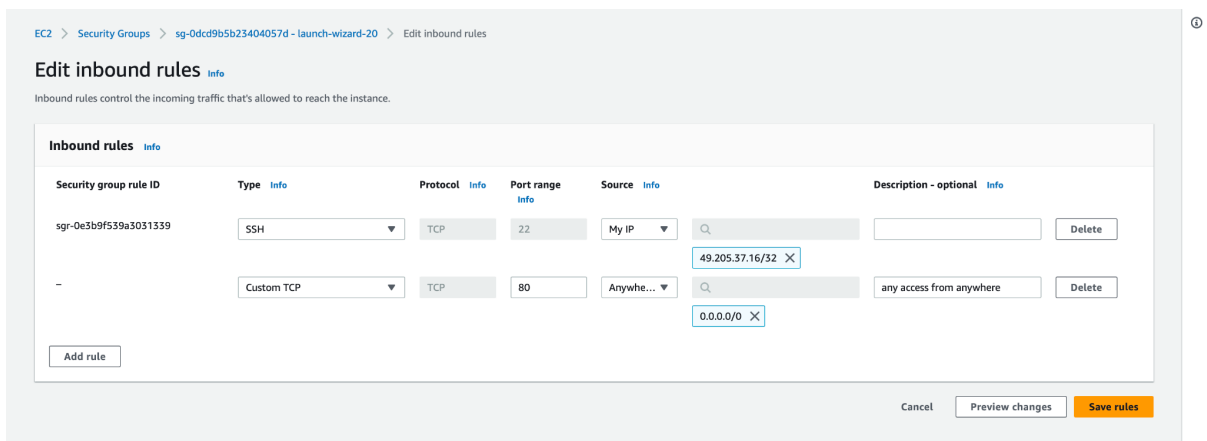| #	Name

Aws server used for this project

And SG to ssh only from my ip and to access web application if u have a IP address

IP of the deployed web application (Deployed application server -01 : http://3.140.198.2
Deployed application server -02 : http://3.129.24.215)

Docker hub url - https://hub.docker.com/repositories/diwakarrajanna
Github url - https://github.com/Diwakar-Rajanna017/deploy-capstone-project.git

Monitoring tool - working on it