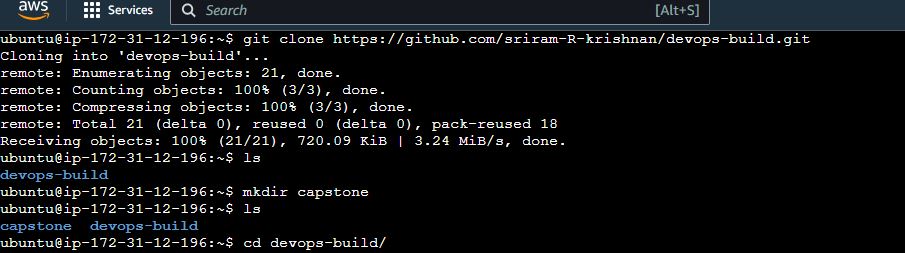
**Capstone-Project**

**Application:**

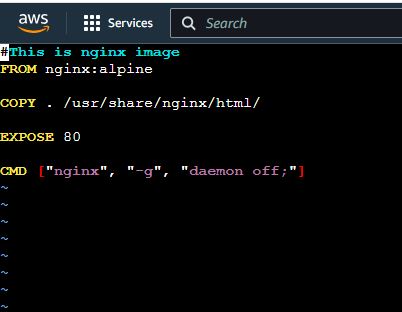
Clone the below mentioned repo and deploy the application. (Run the application in Port 80 HTTP)



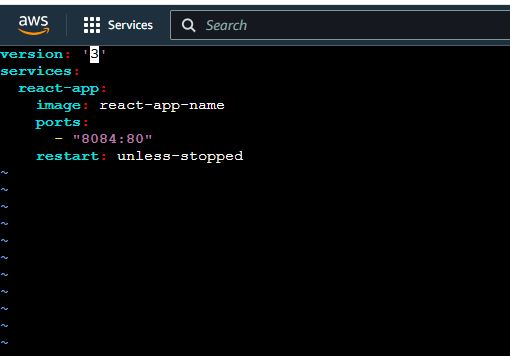
**Docker:**

Dockerise the Application by creating Docker file.

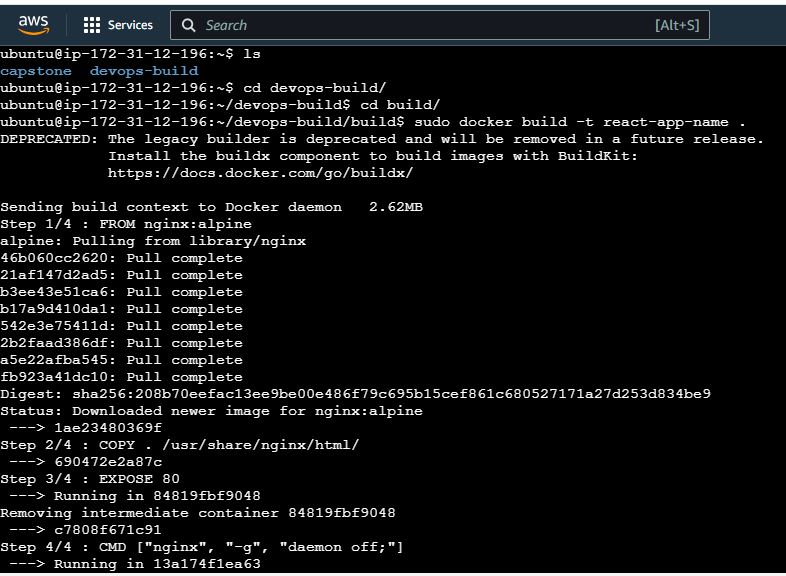
Docker File:



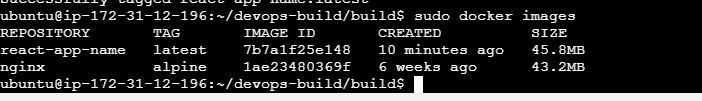
Docker compose File:



Build Docker file:



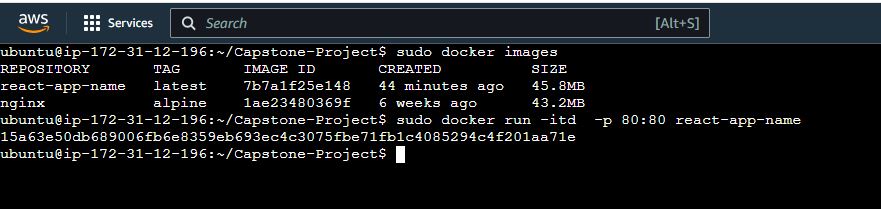
Docker images:



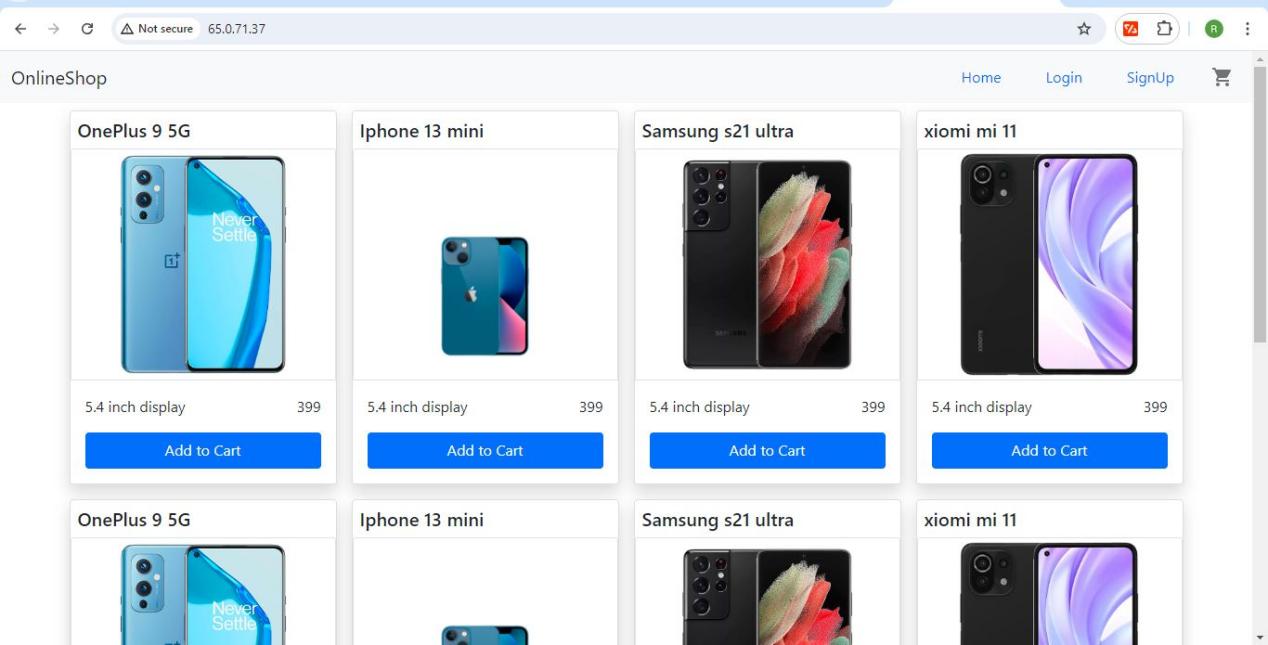
Container ID and Port configuration details:



Run the Container



Run the site using Port 80:



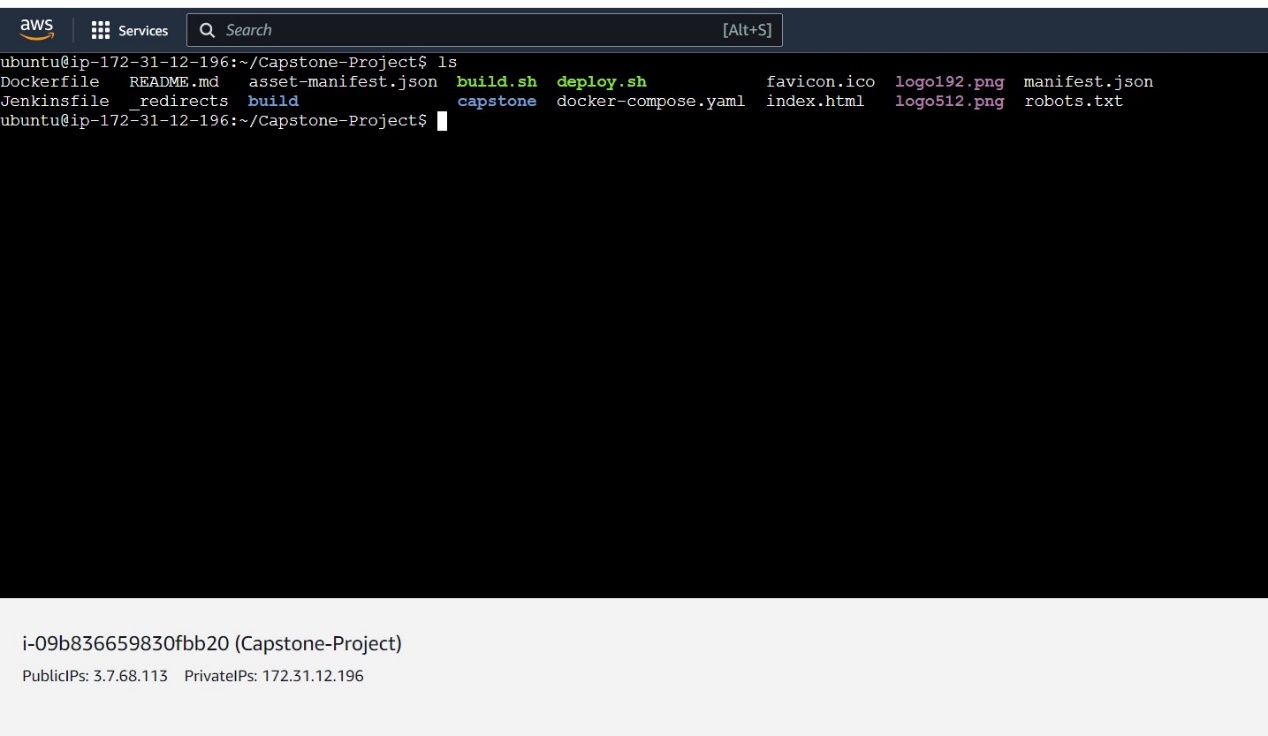
**Bash Scripting:**

Created two Bash script files build.sh and deploy.sh

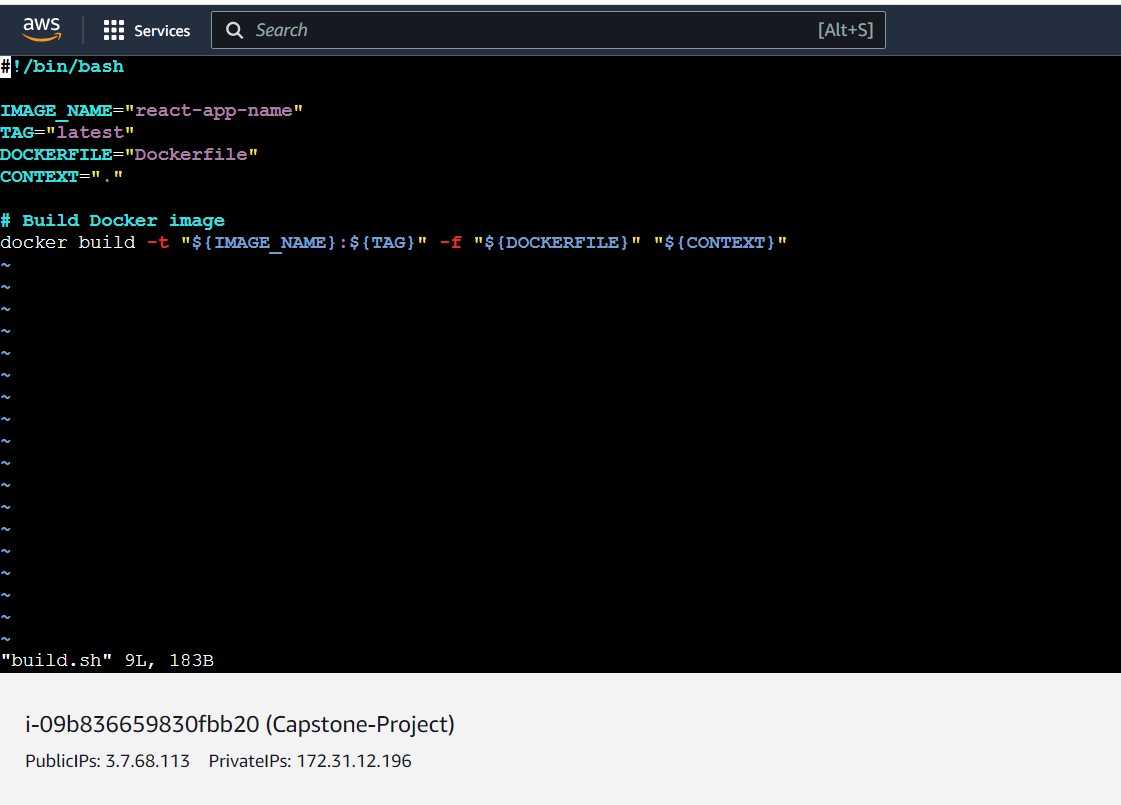
Build.sh 🡪 For building docker images

Deploy.sh 🡪 For deploying the image to the server

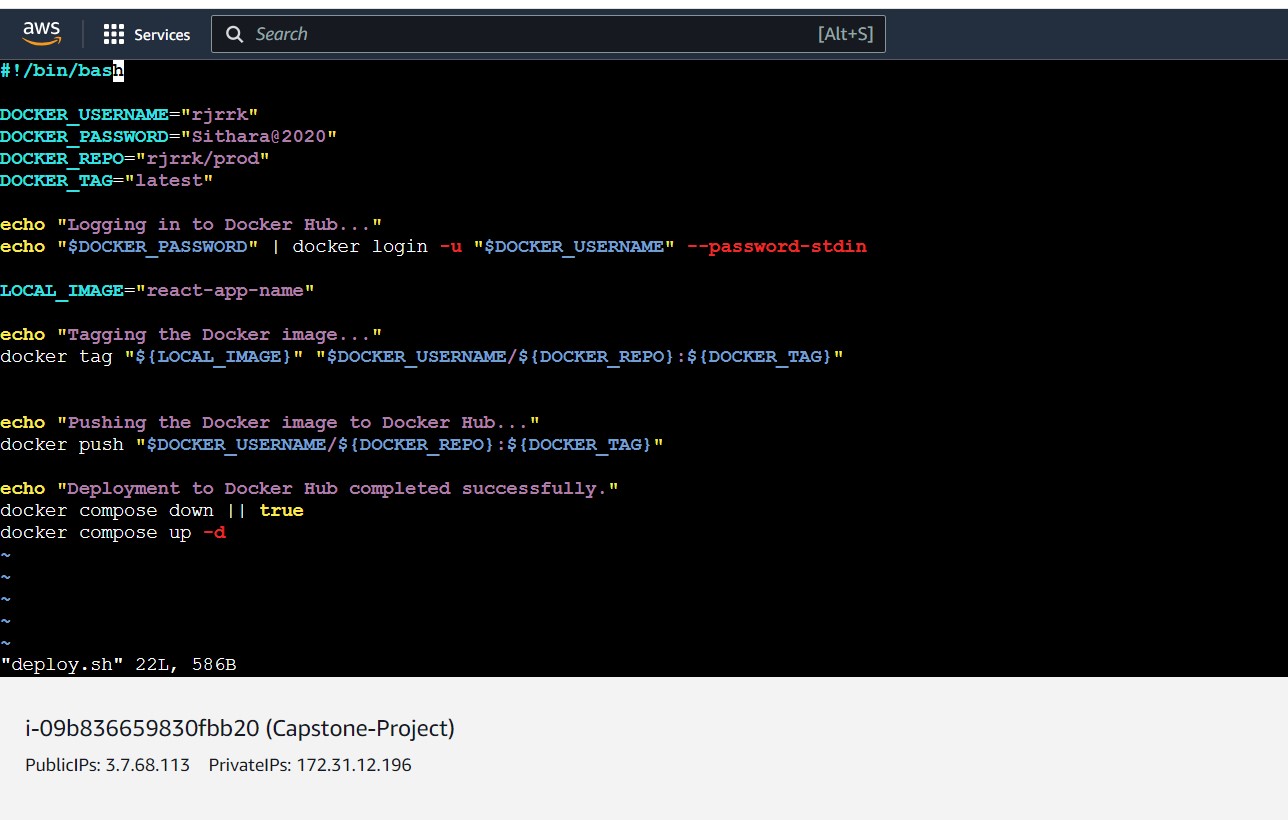
Capstone-Project directory details:



Build.sh:

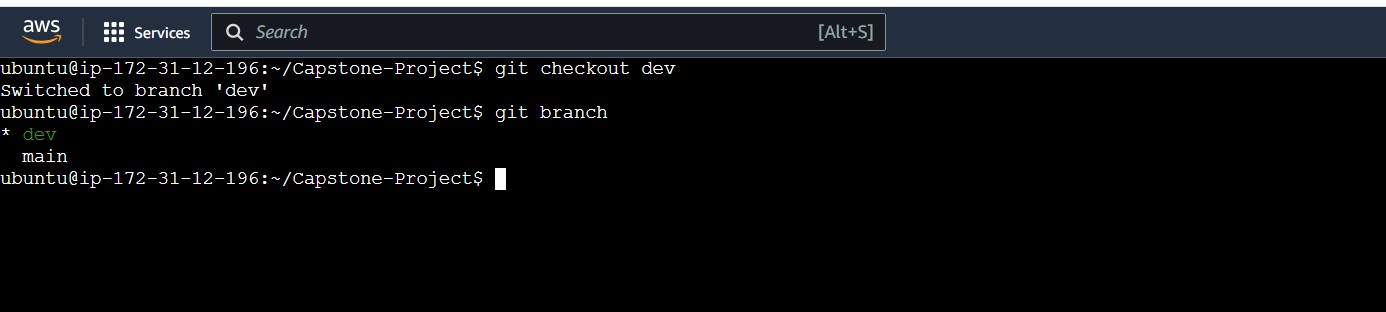


Deploy.sh:

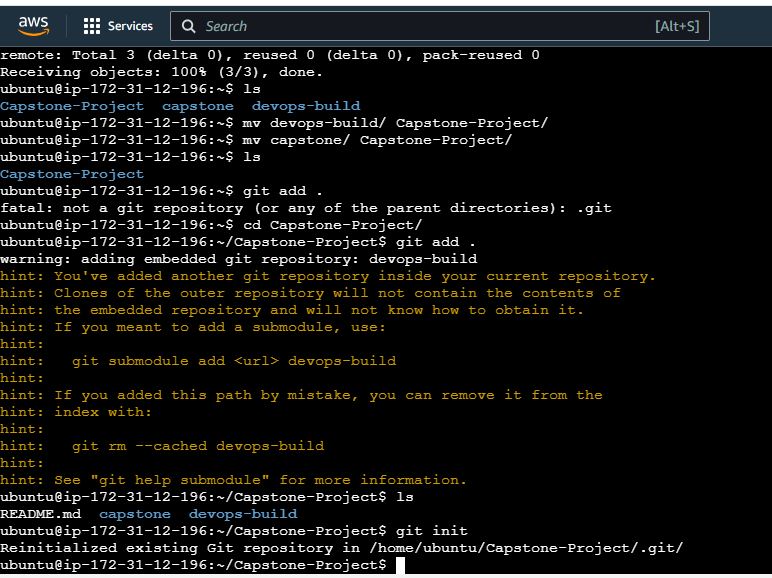


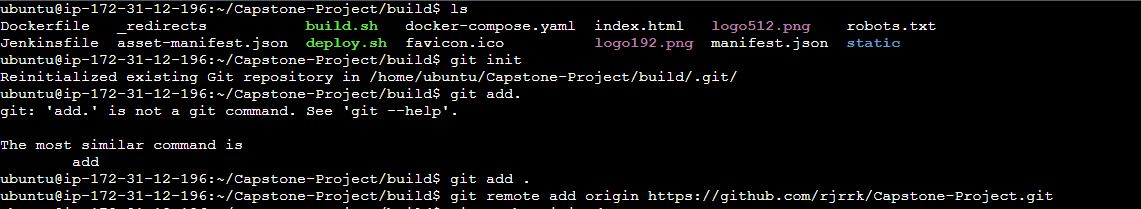
**Github URL:** [**https://github.com/rjrrk/Capstone-Project.git**](https://github.com/rjrrk/Capstone-Project.git)

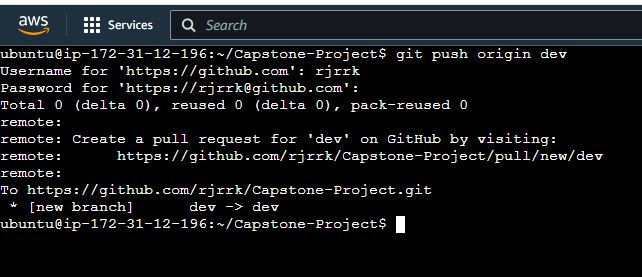
Git Branch:



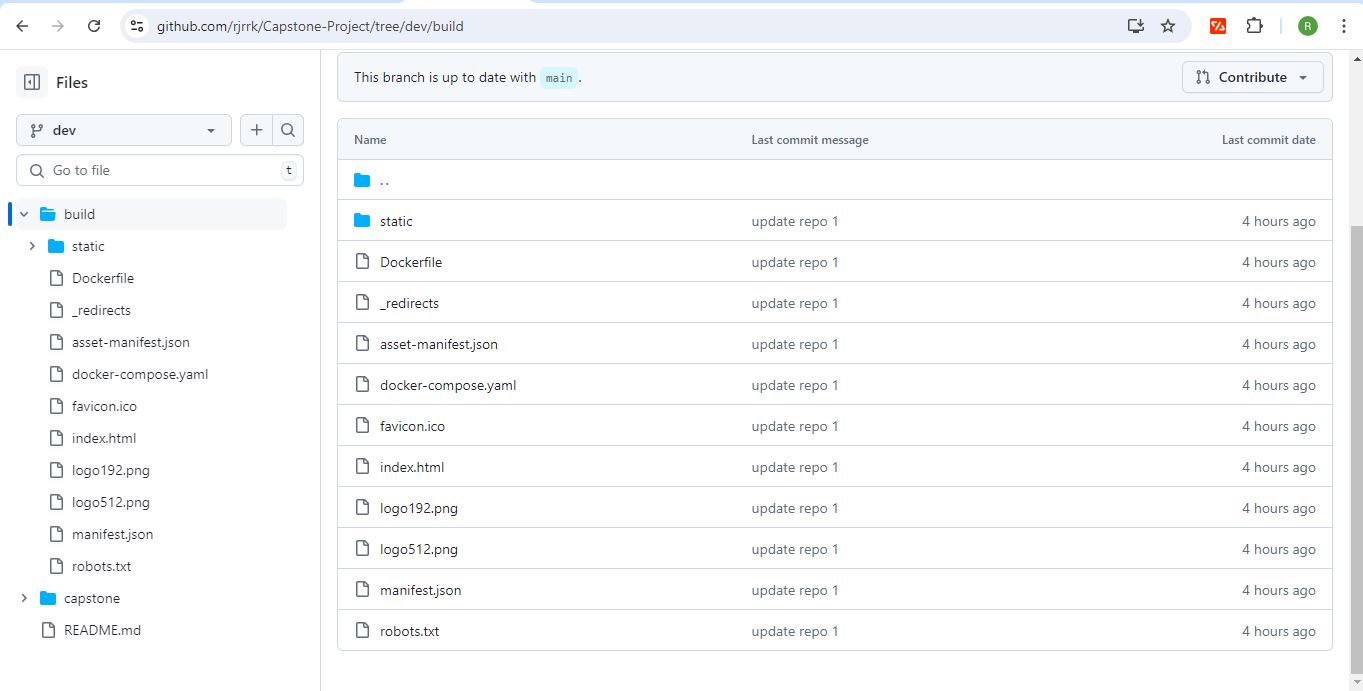
Adding the details to dev branch:







Github Page:



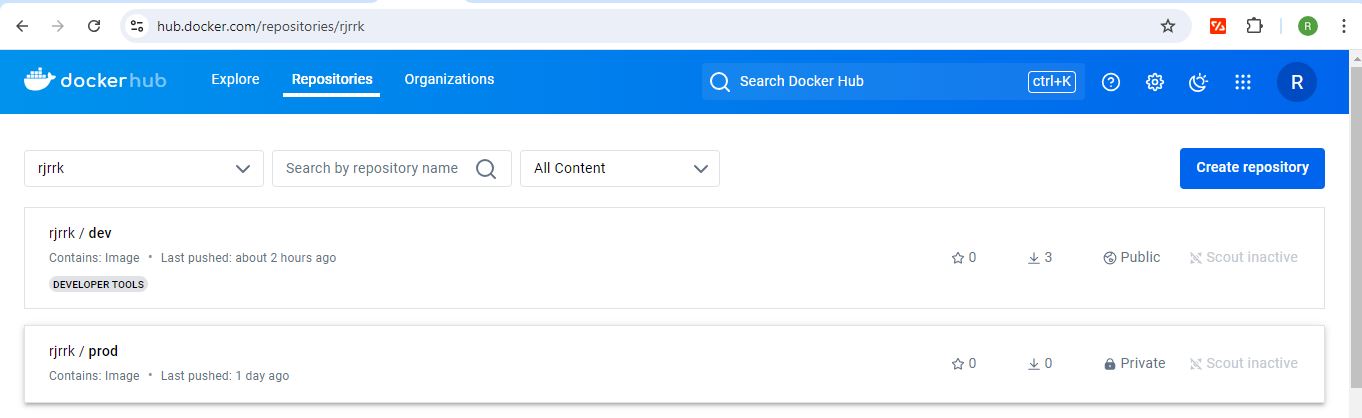
**Docker HUB:**

Created two repositories Prod and Dev:

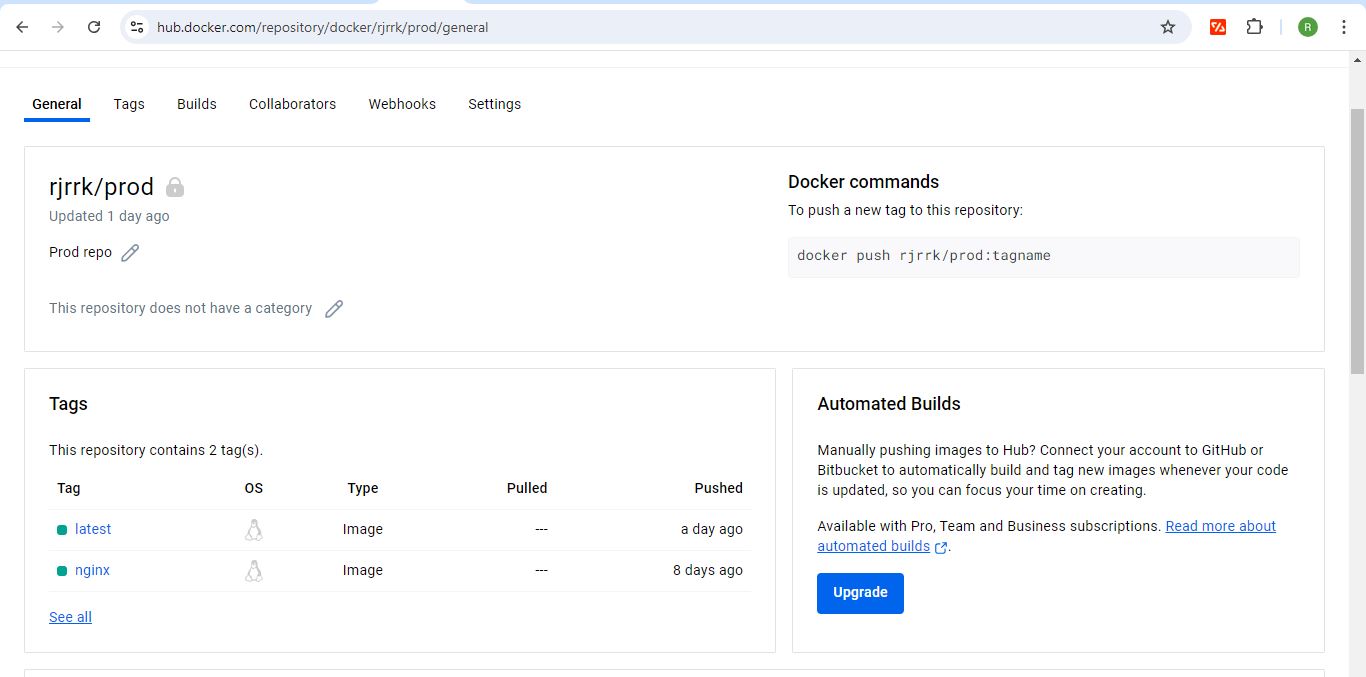
Prod 🡪 Private repo

Dev 🡪 Public repo

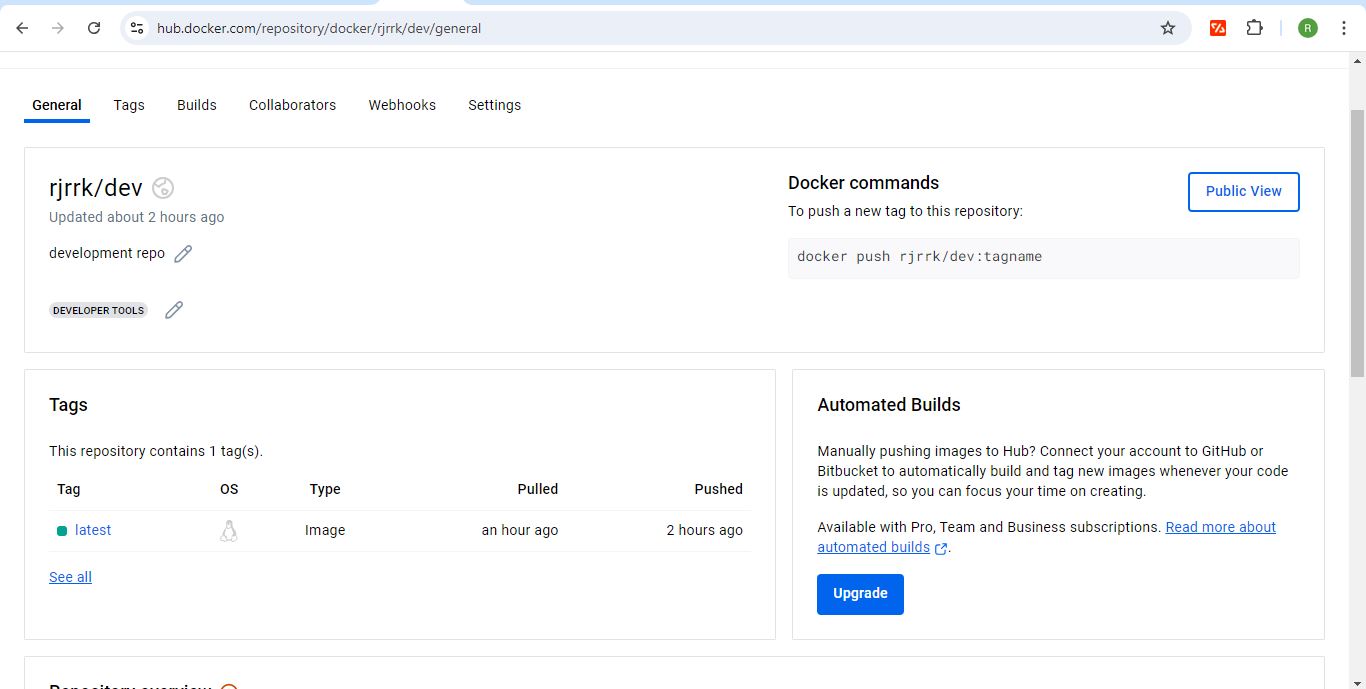
Docker HUB URL: <https://hub.docker.com/repositories/rjrrk>



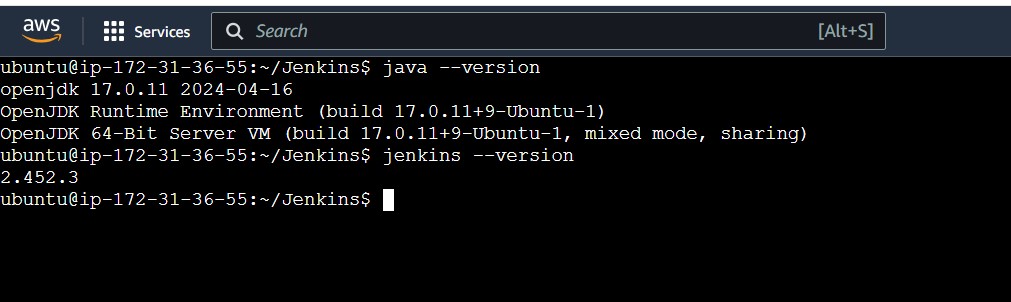
Prod repo:



Dev repo:



**Jenkins:**

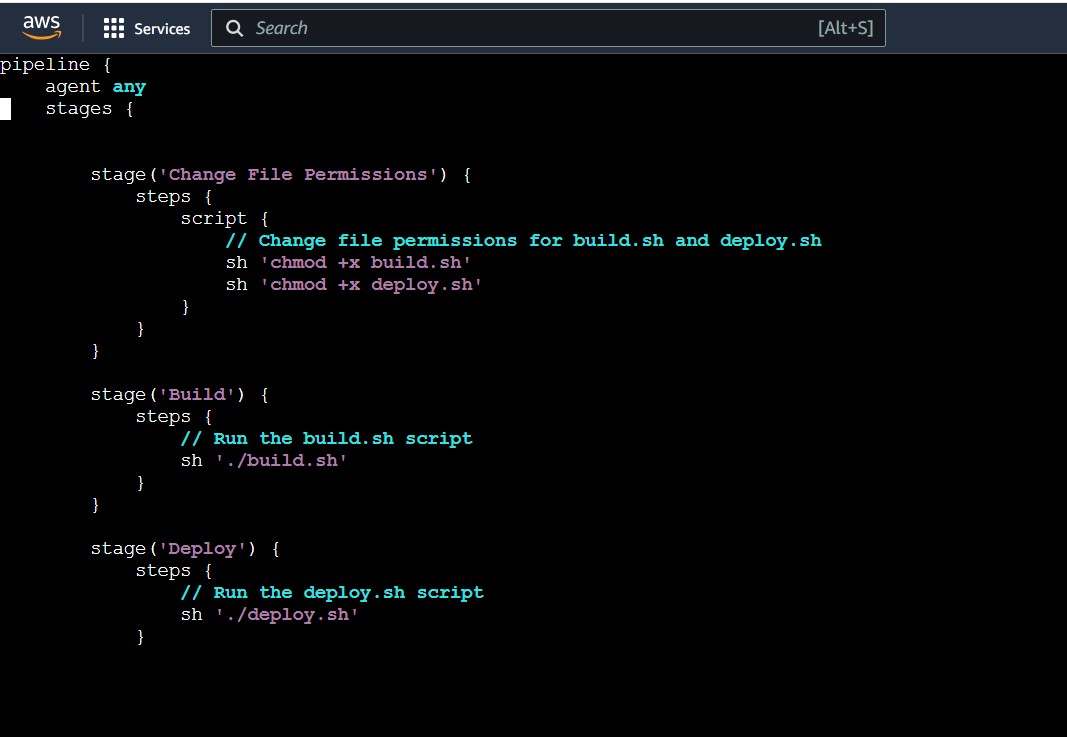


Git log 🡪 Merged dev branch with the main branch to push the image into docker hub Prod repository:

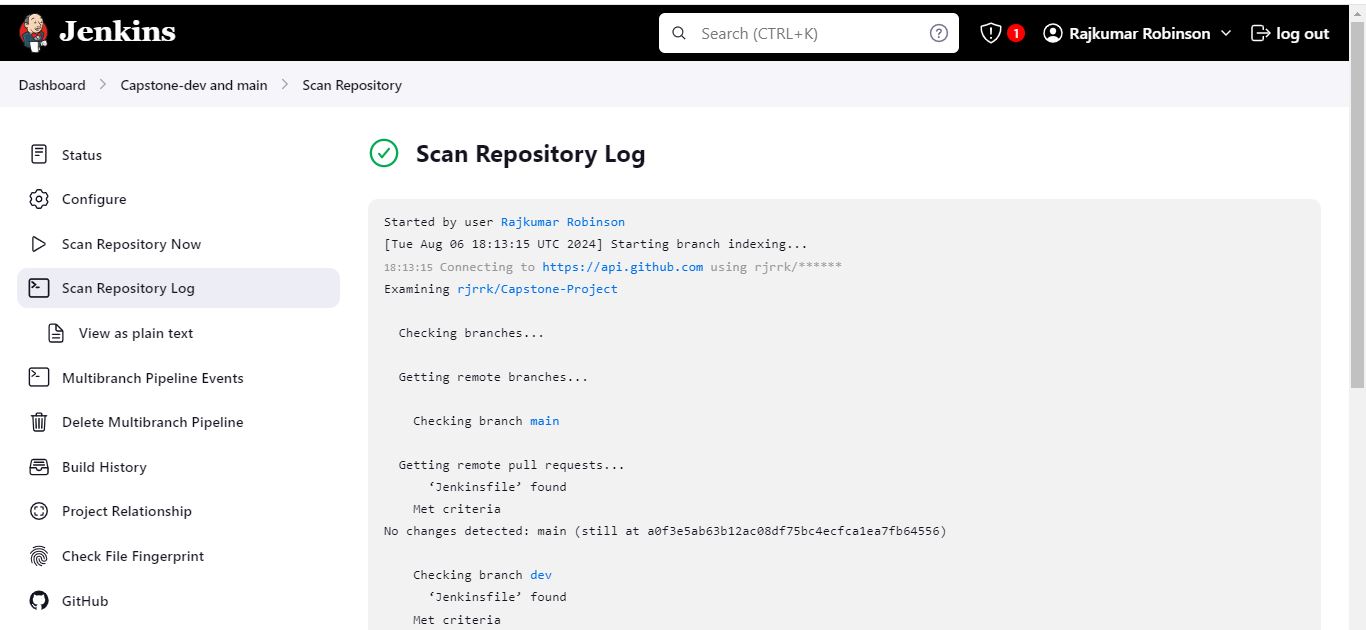


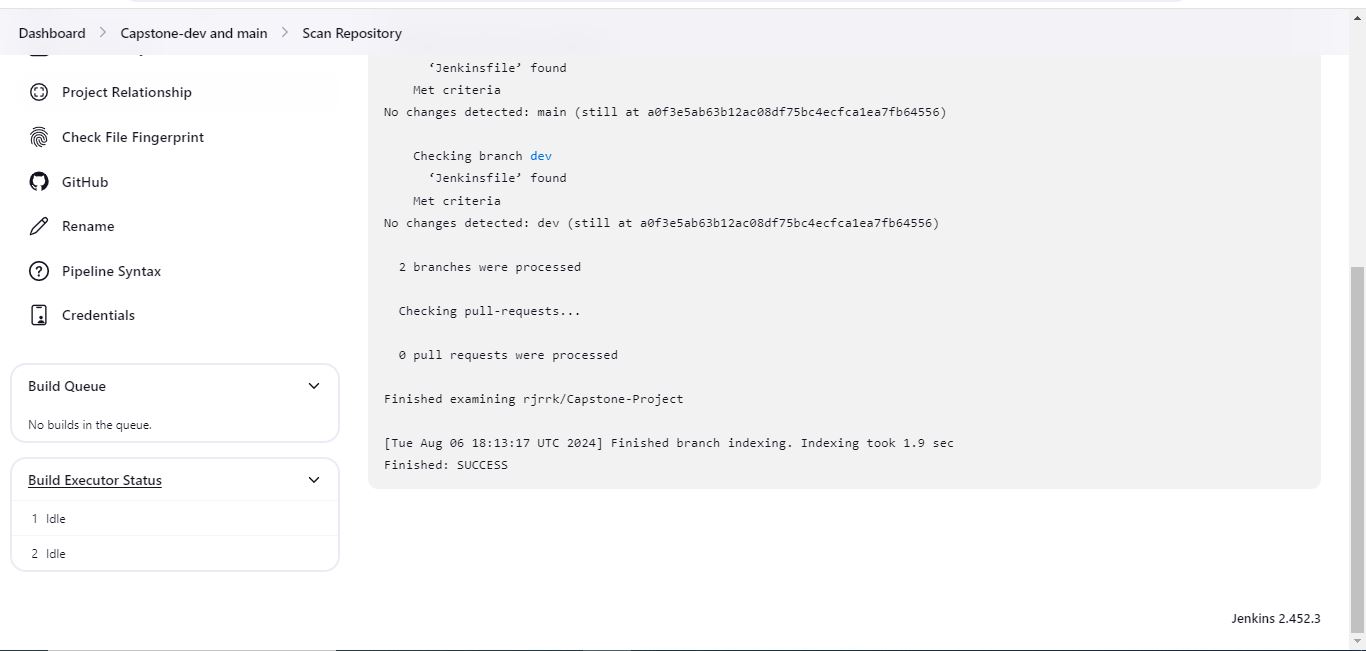
Create a Jenkins file and push the Jenkins file in the dev and main branch for the Multibranch pipeline project:

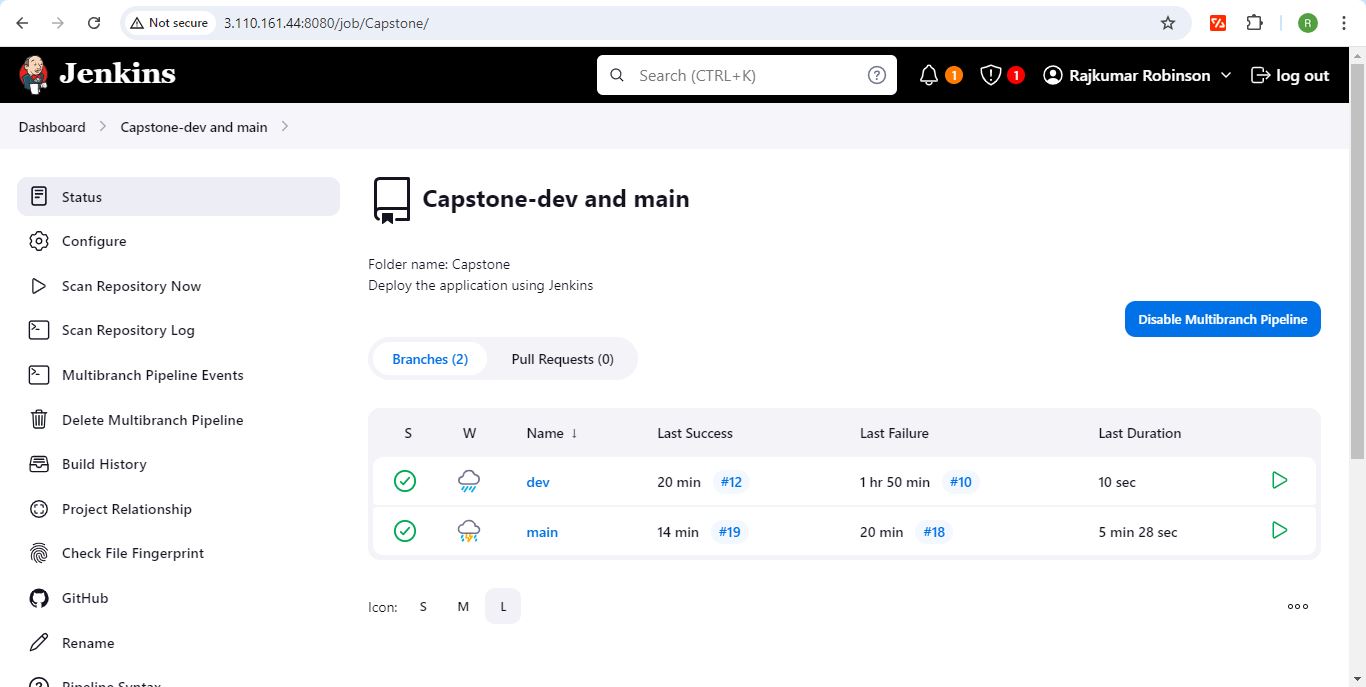
Jenkins File:



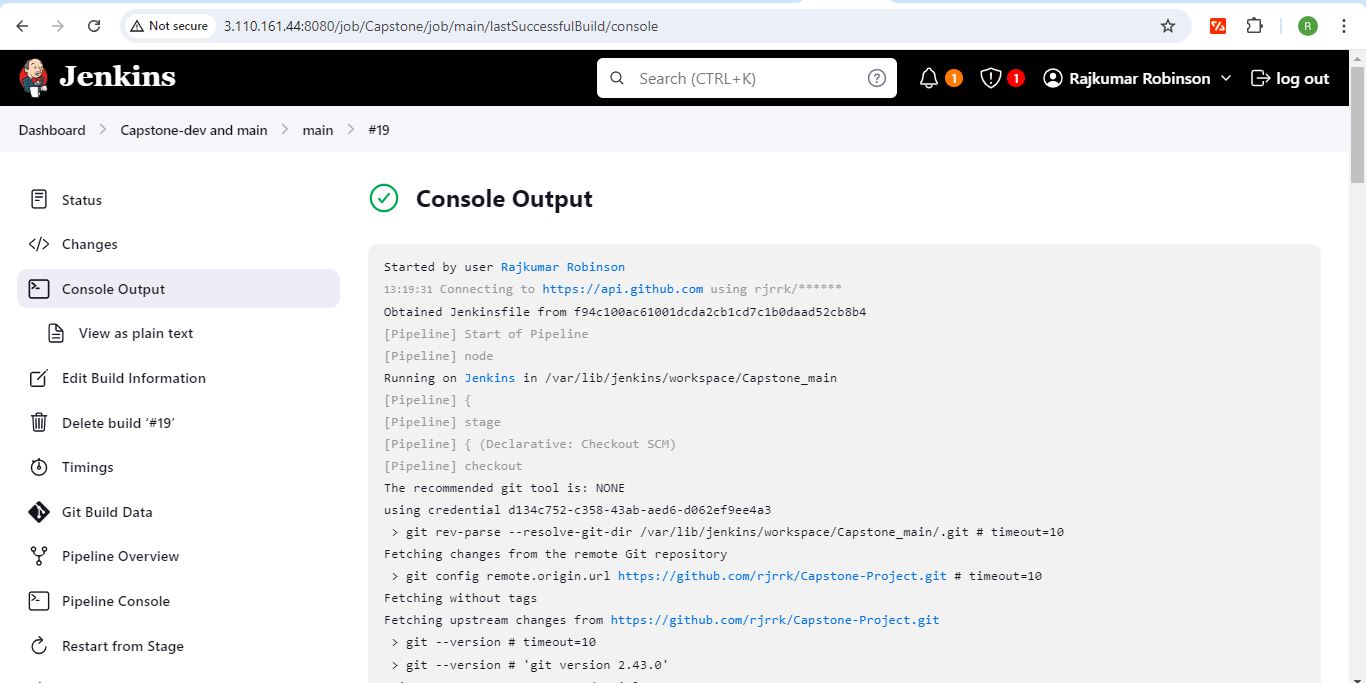
Build output:

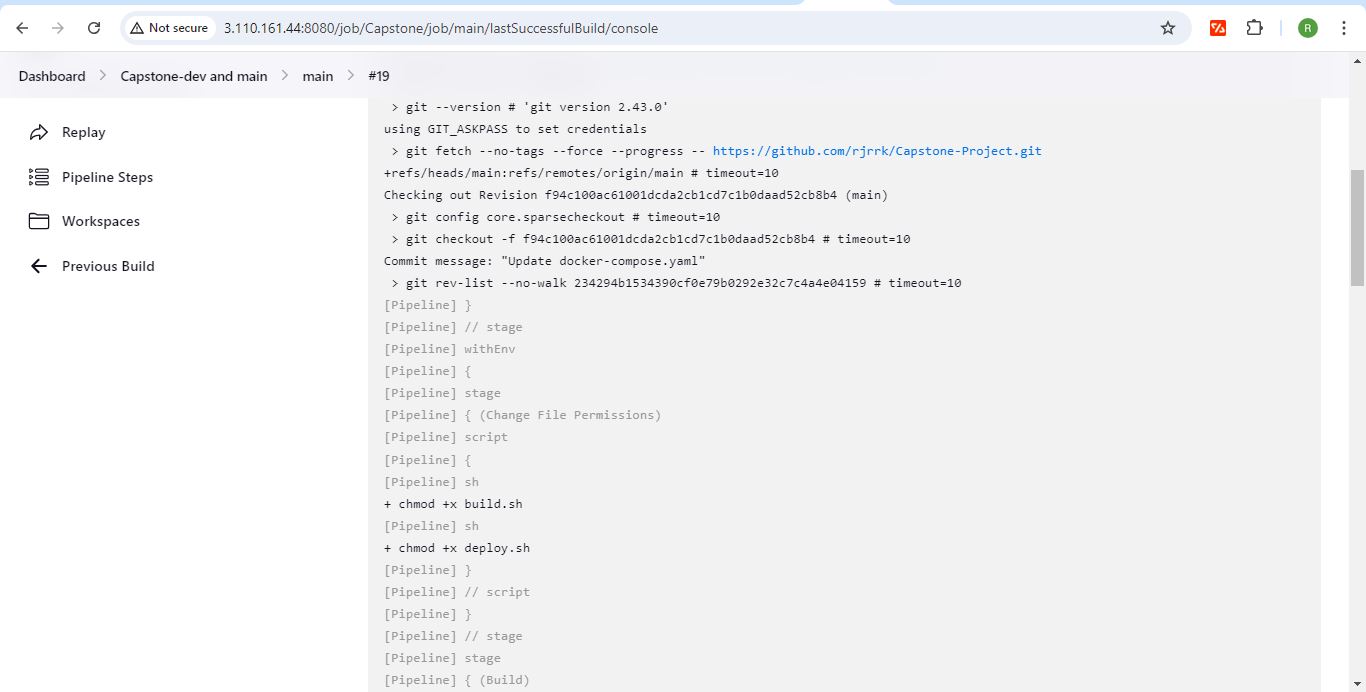


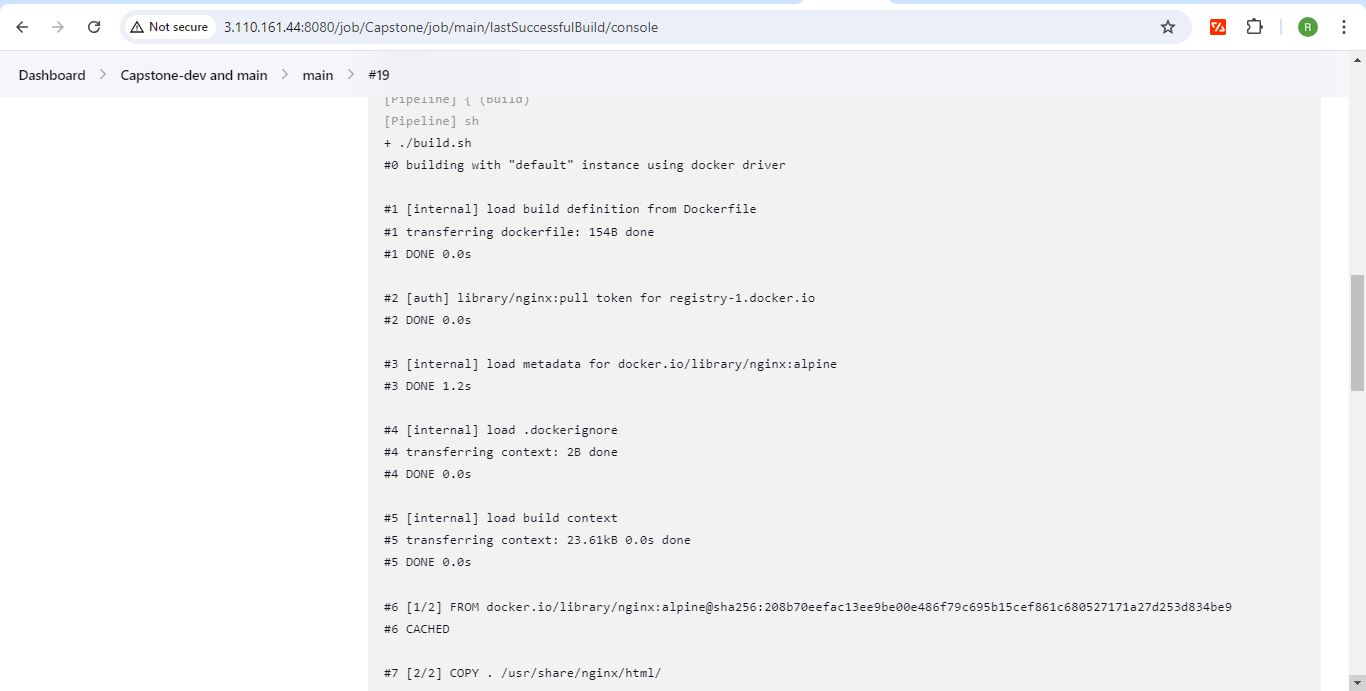


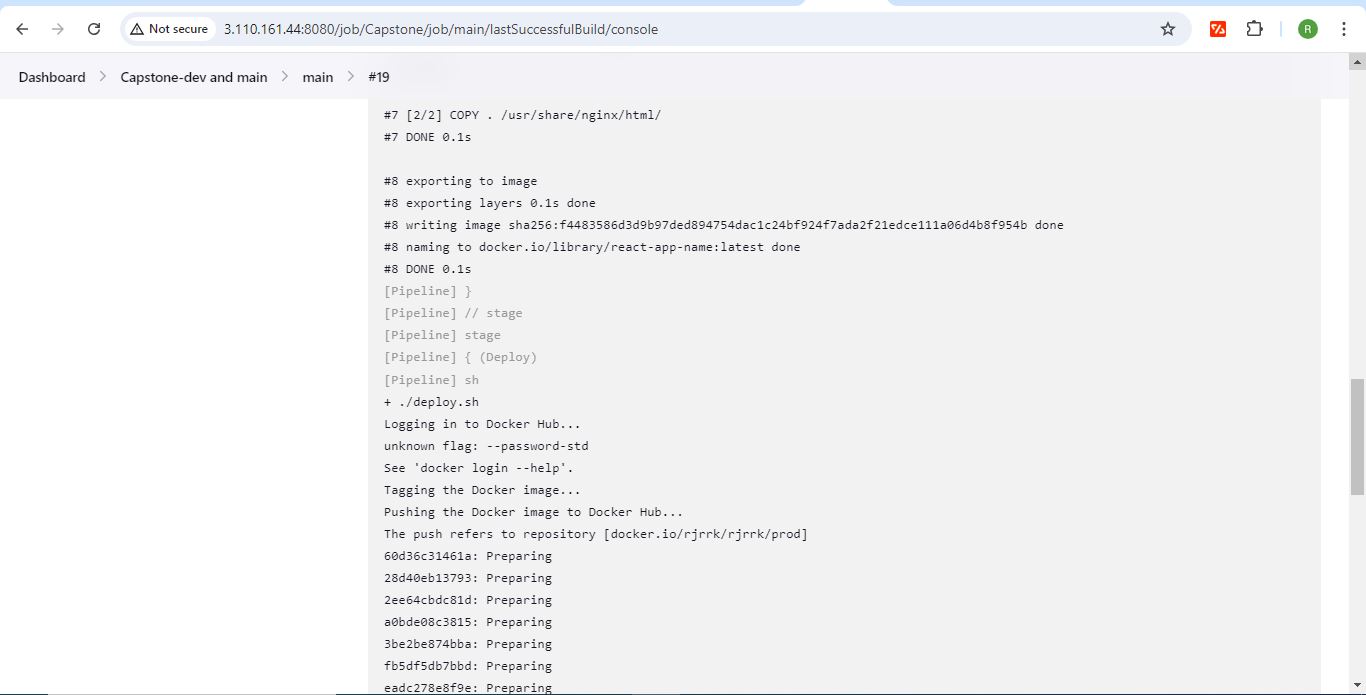


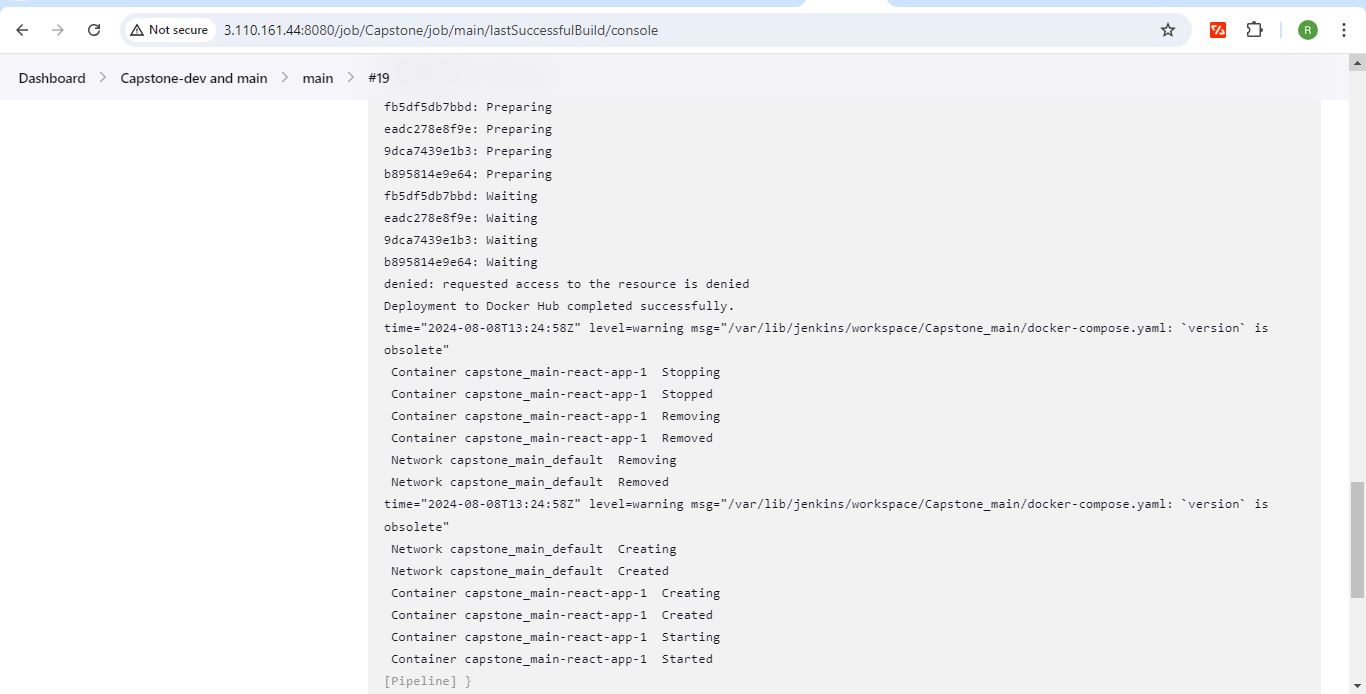
Console Output:

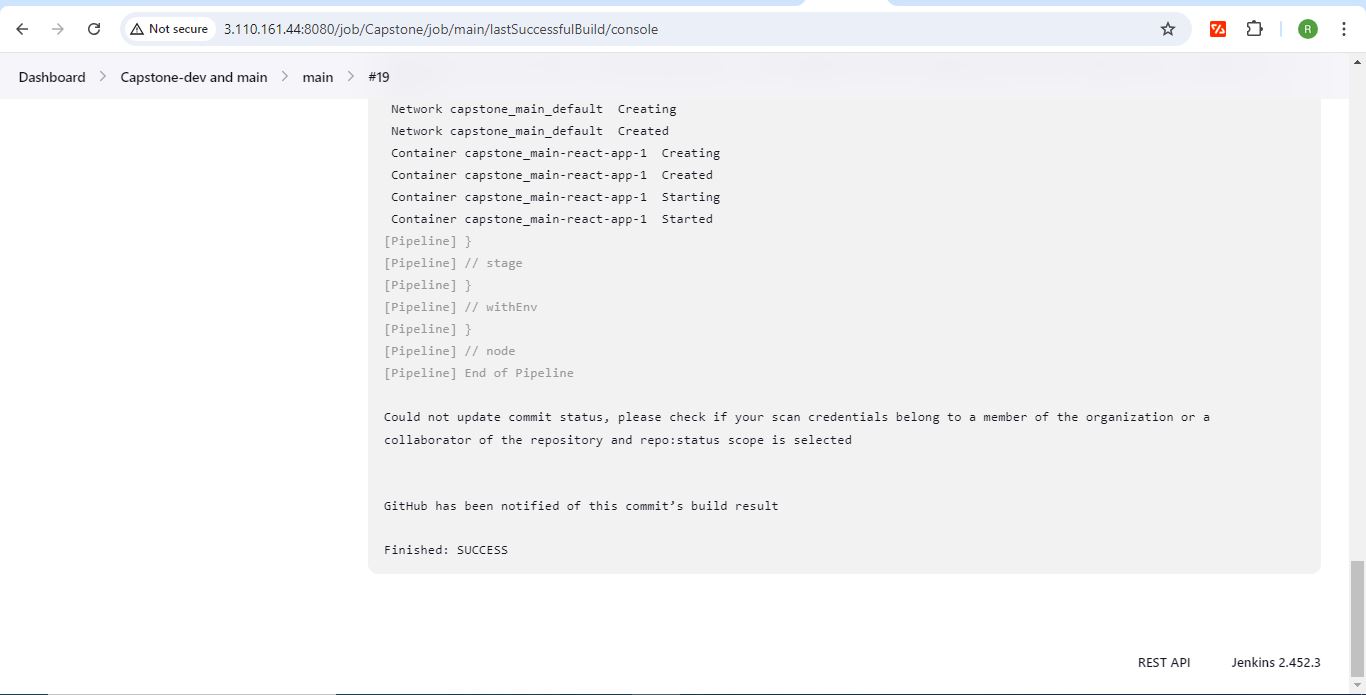








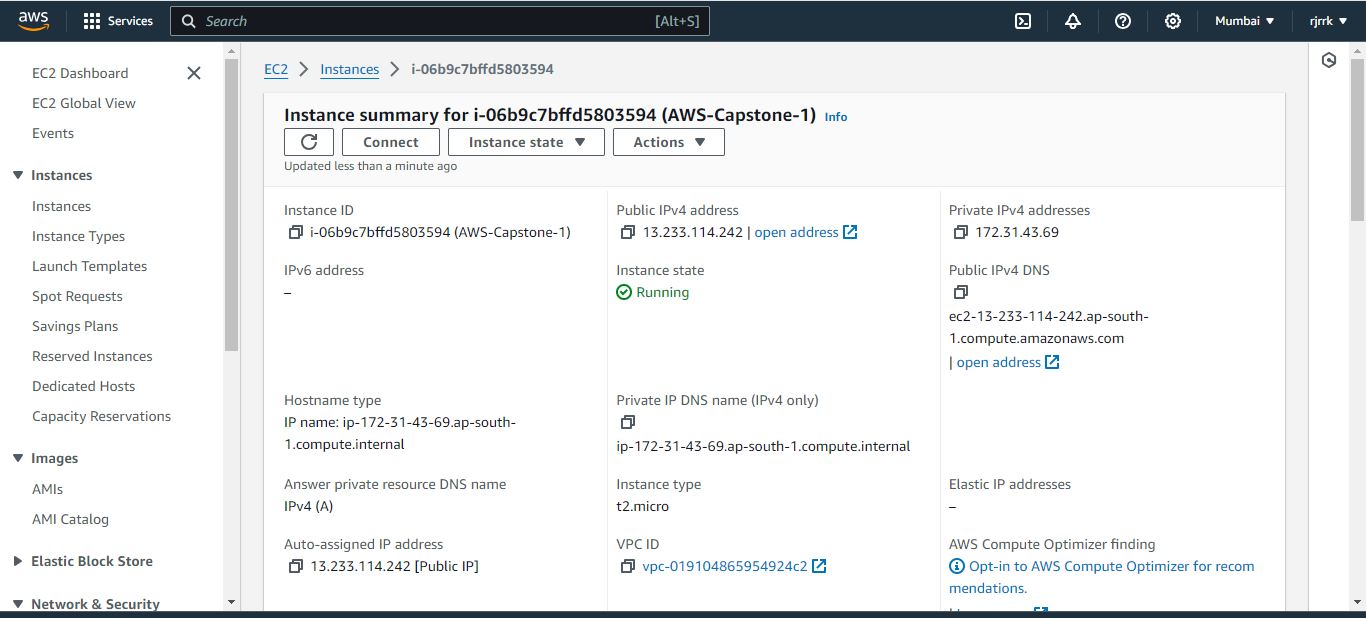


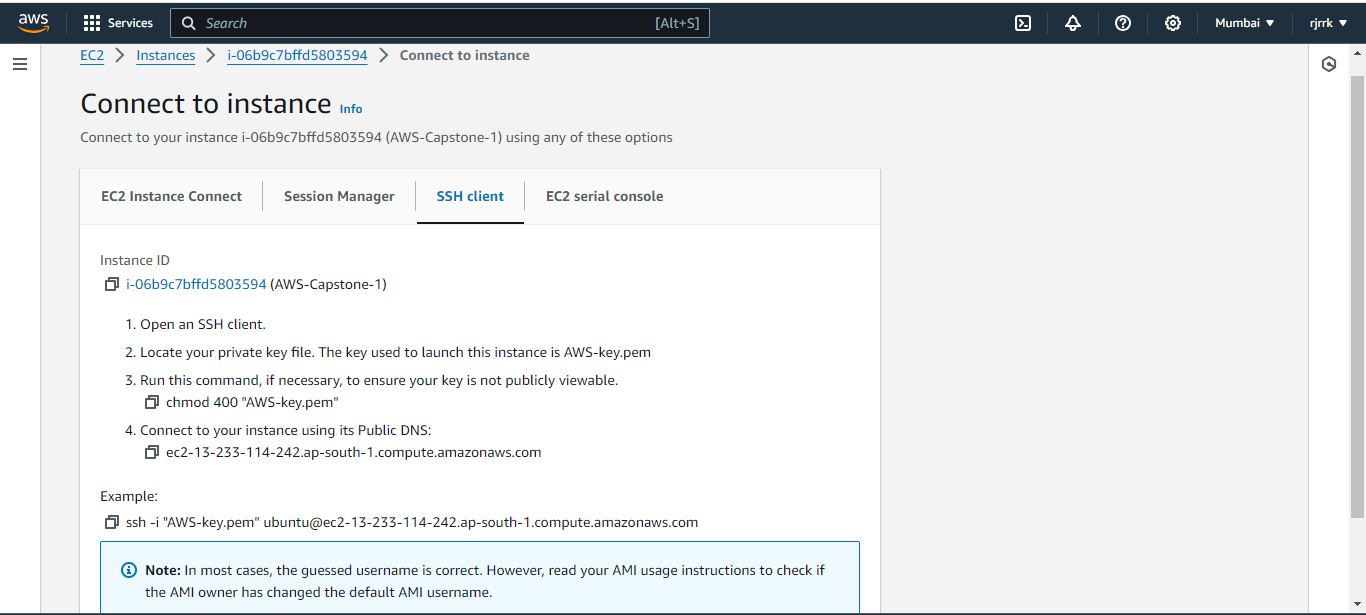


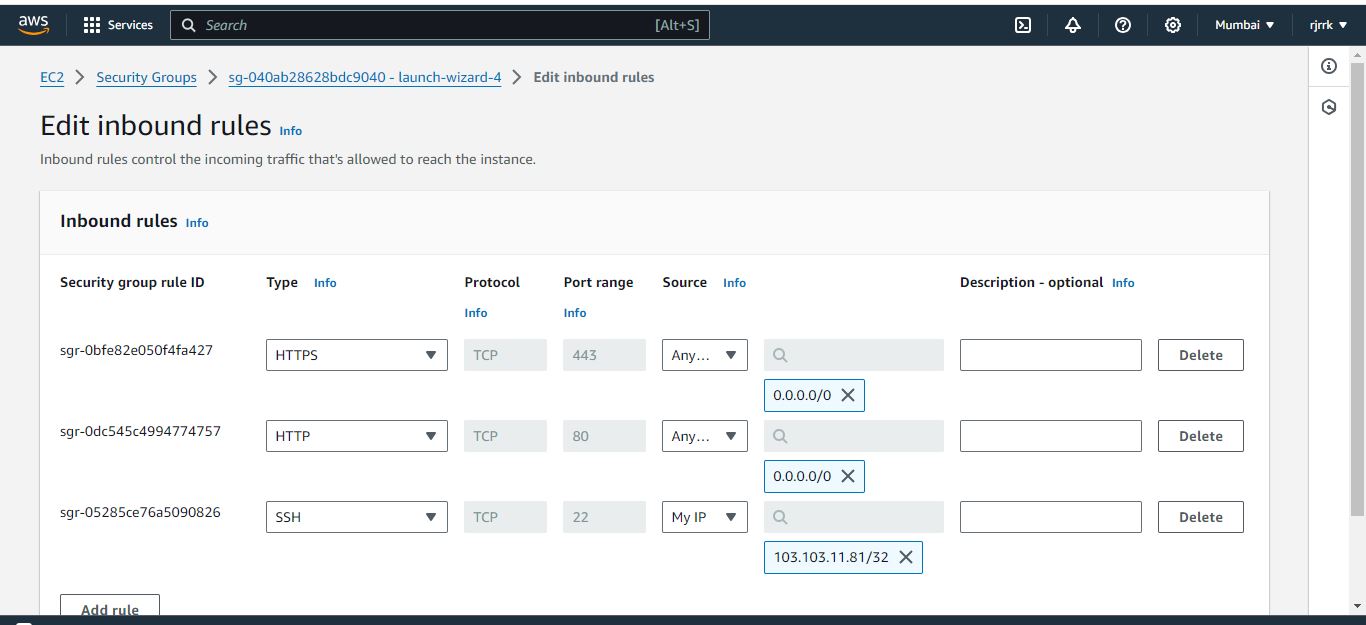
**AWS:**

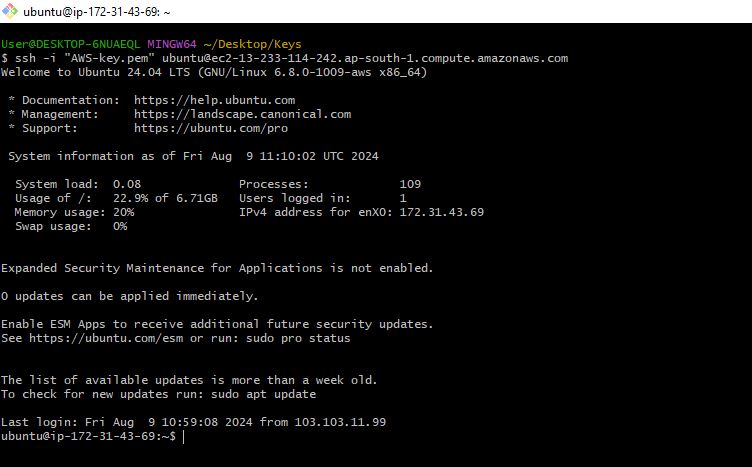
Launch a t2.micro instance and deploy the application

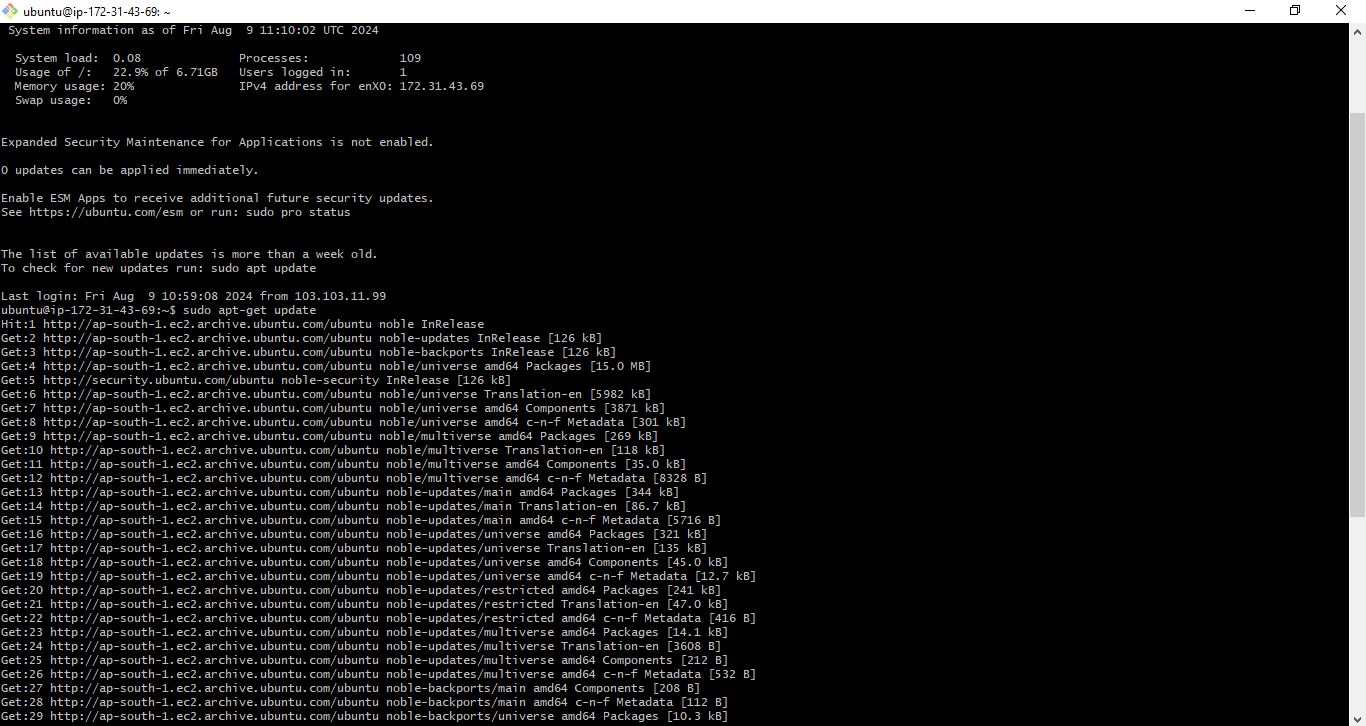
* Log in to the server should be made only by my IP address.
* Whoever has the IP address can access the application.

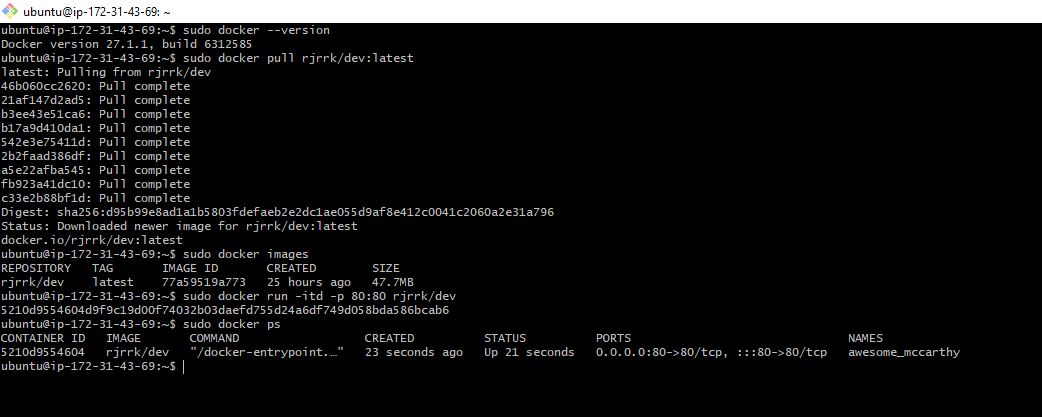


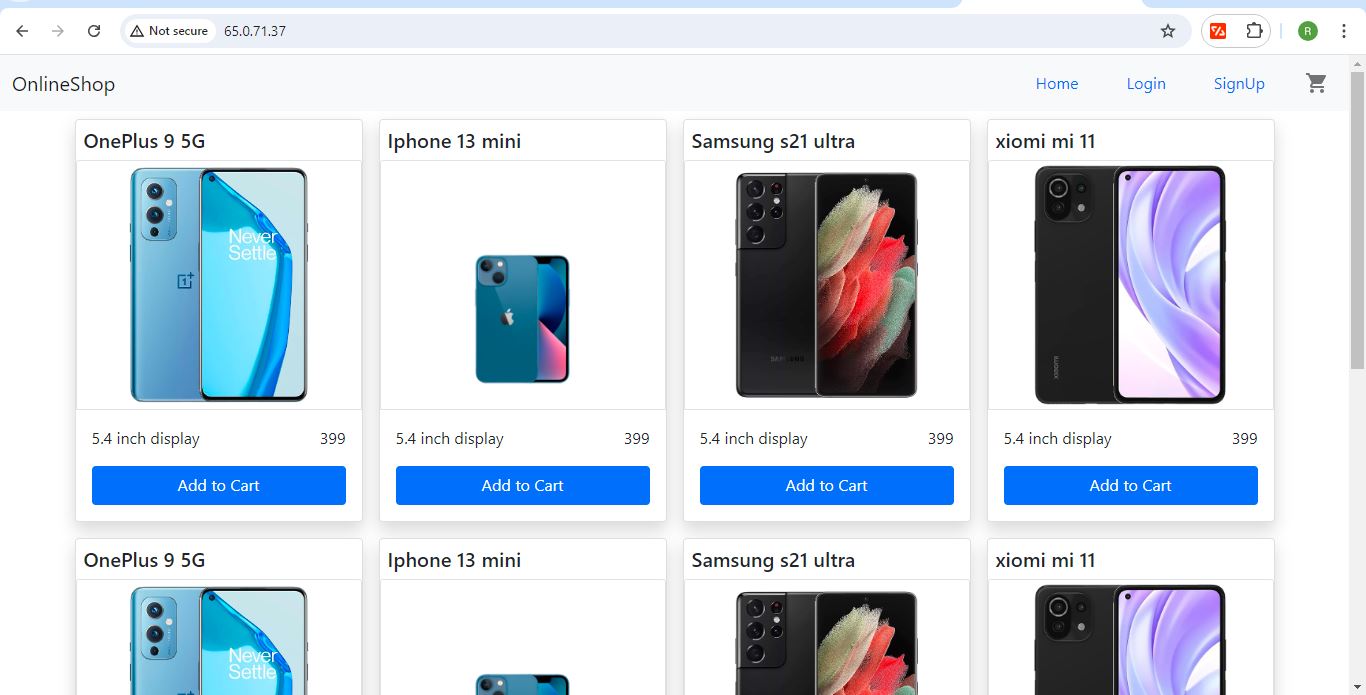






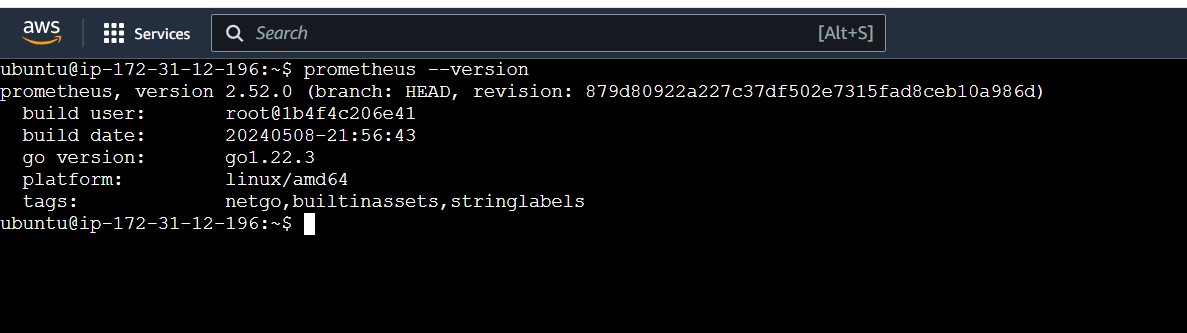
s

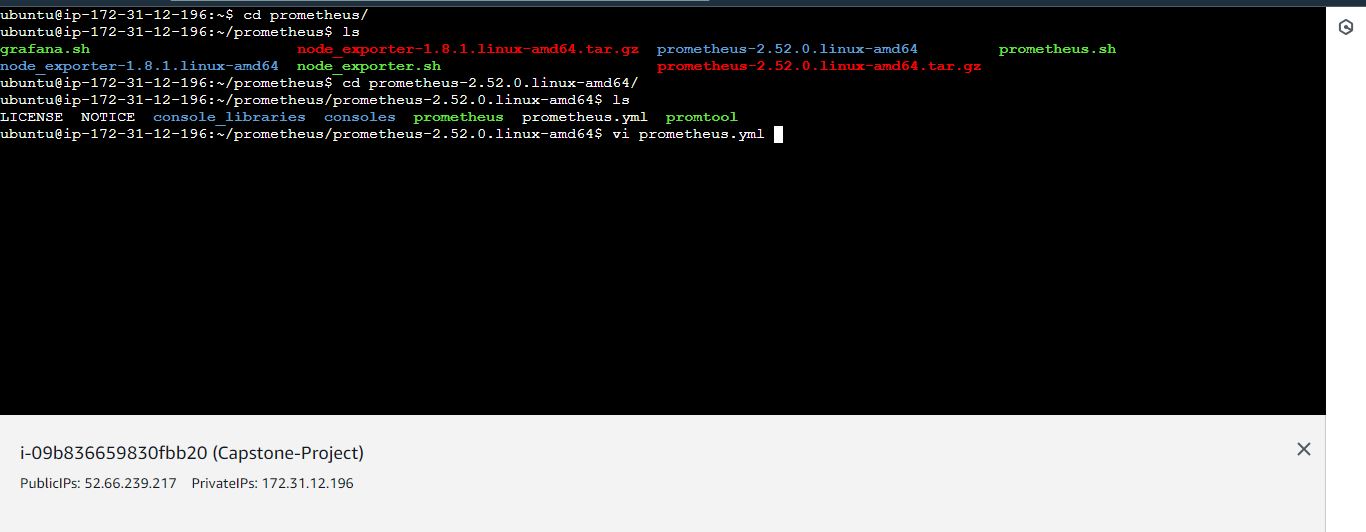




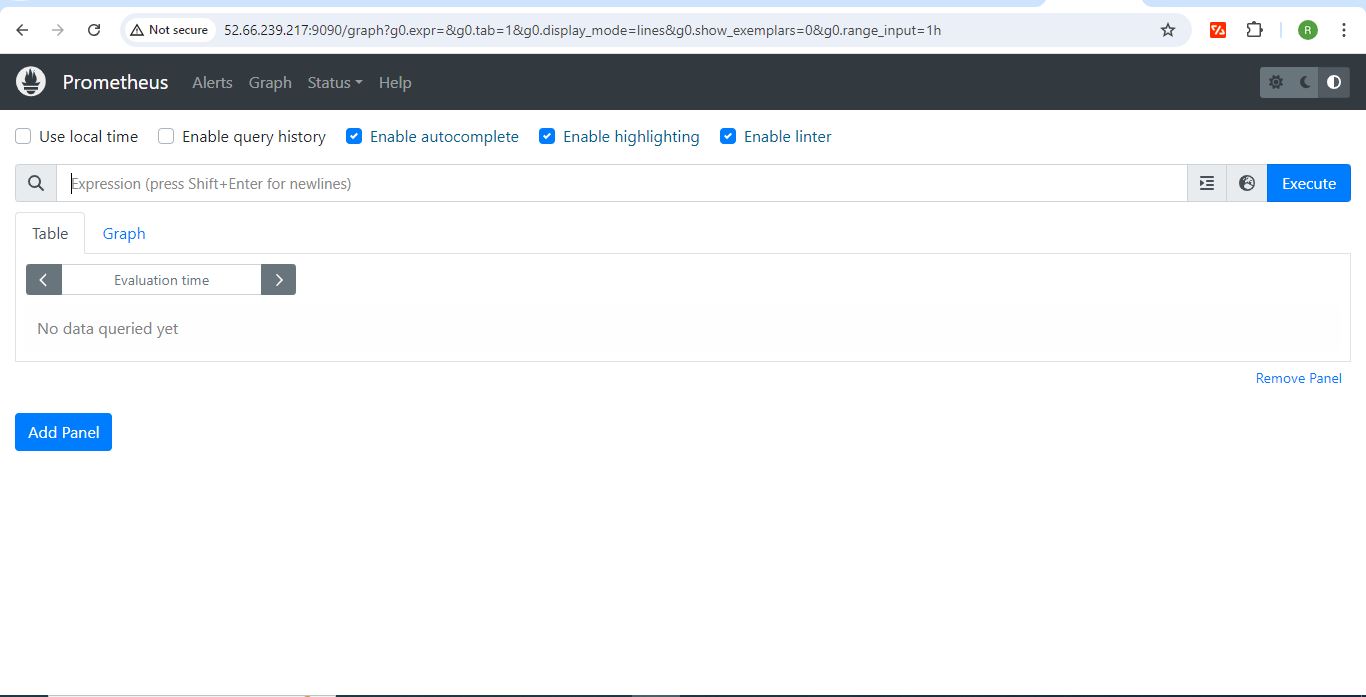
**Monitoring:**

* Set up a monitoring system to check the health status of the server





Prometheus



Grafana:

