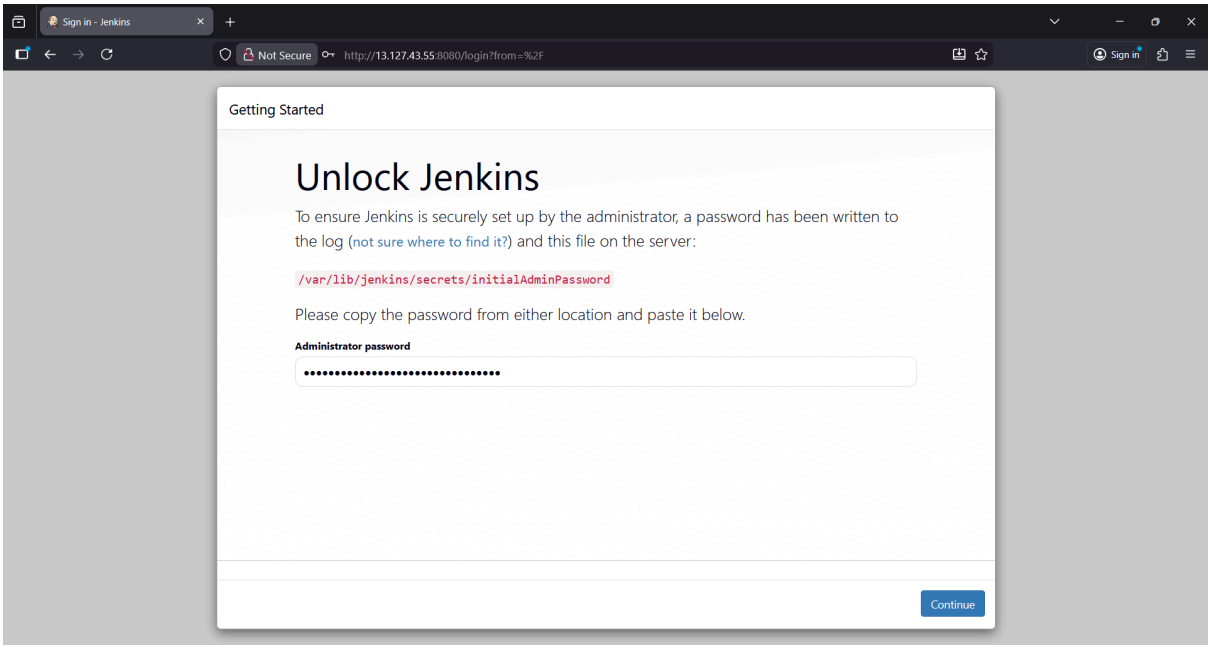
Application Deployment

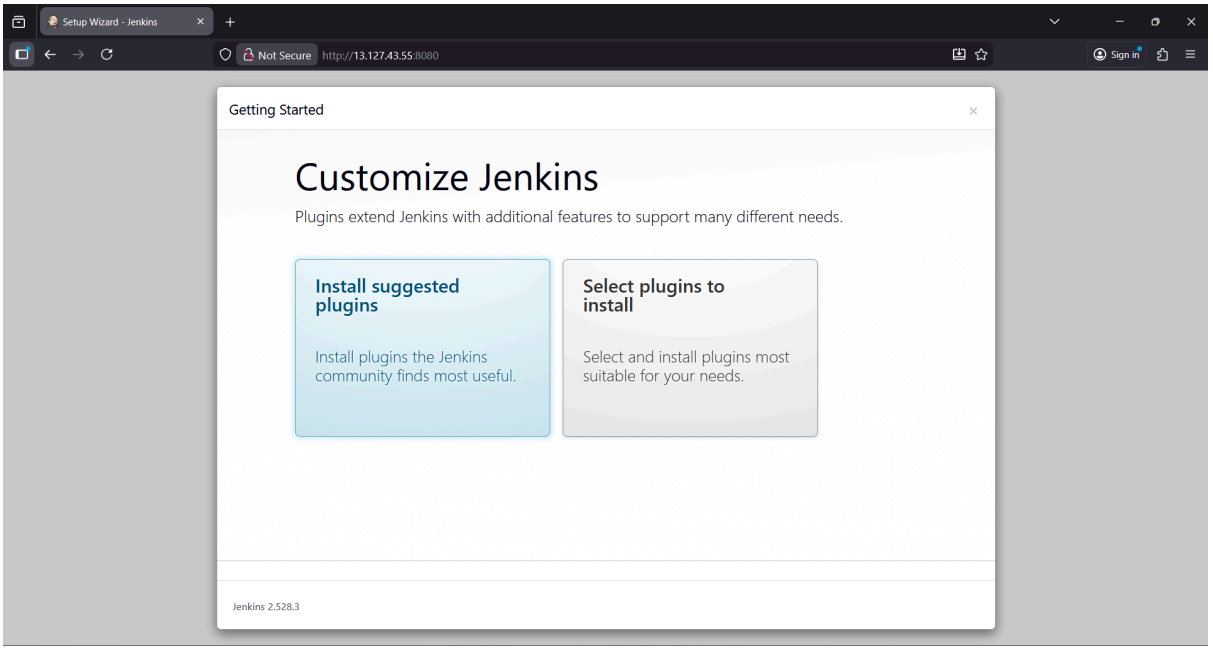
Jenkins :

JENKINS UI ACCESS & INITIAL UNLOCK

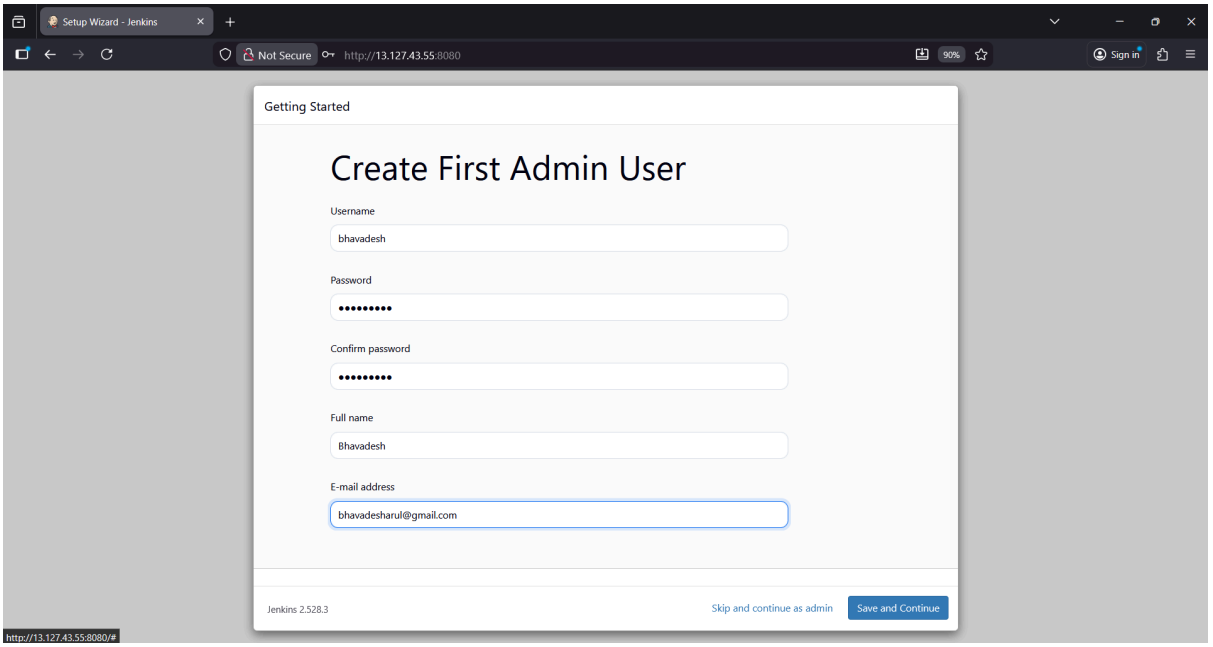



```
[ec2-user@ip-172-31-0-234 ~]$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
c1fb0aff543640bfa5386c2cae9bdc72
```

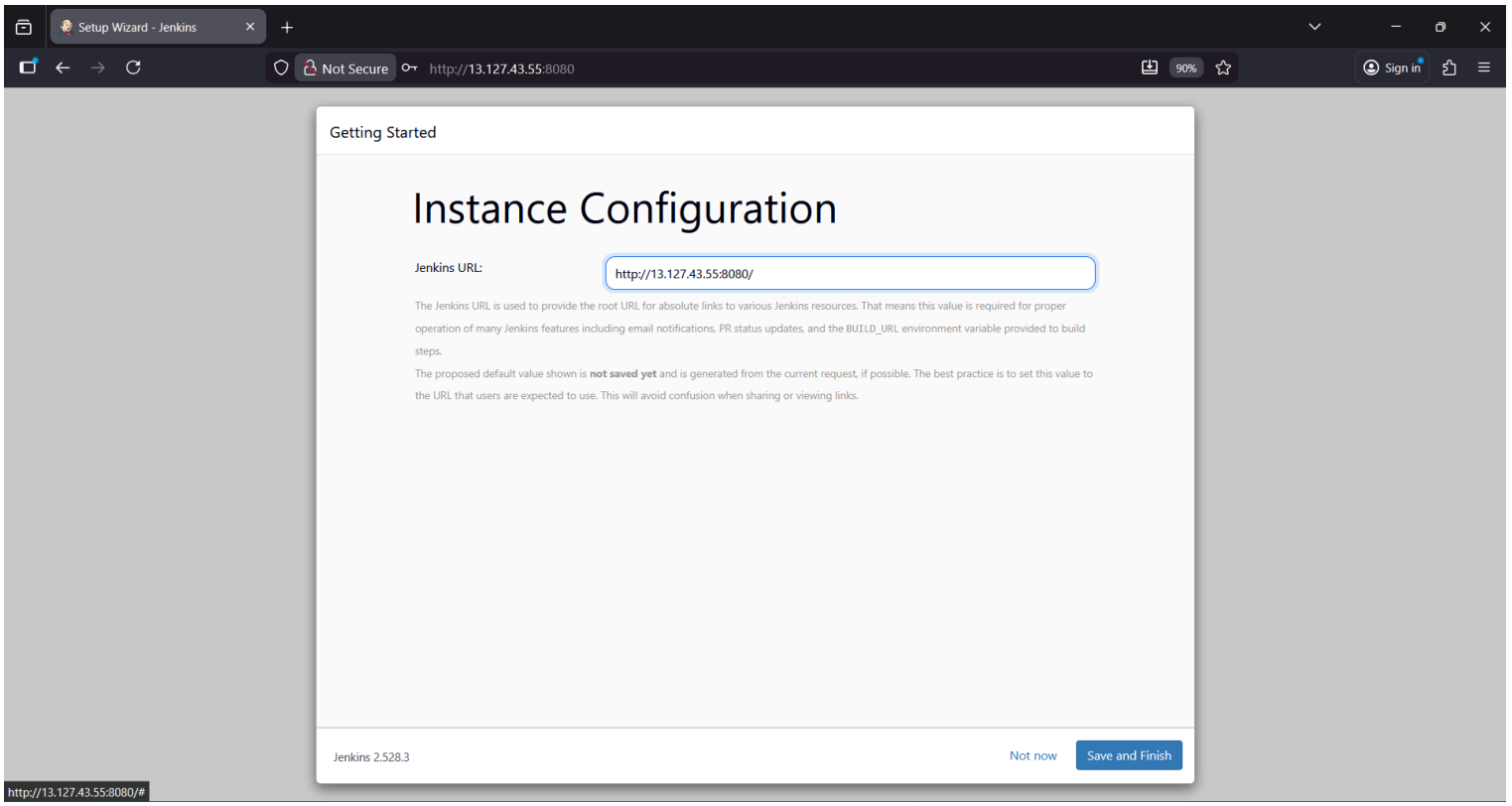
Install Plugins-Jenkins

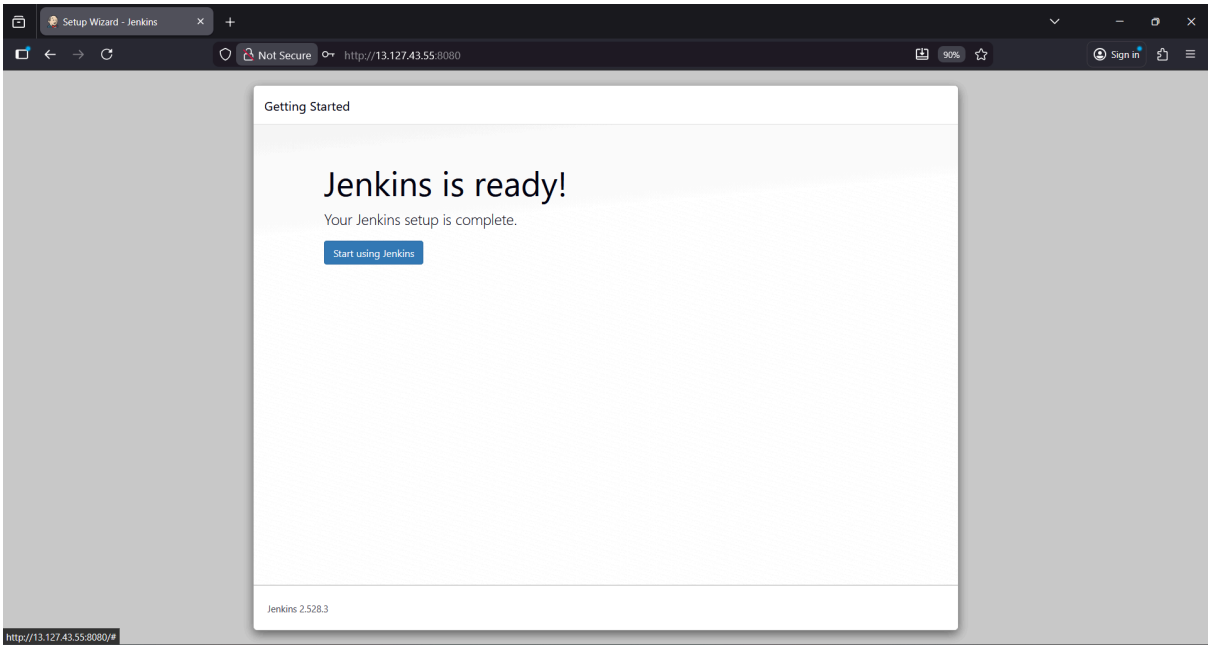


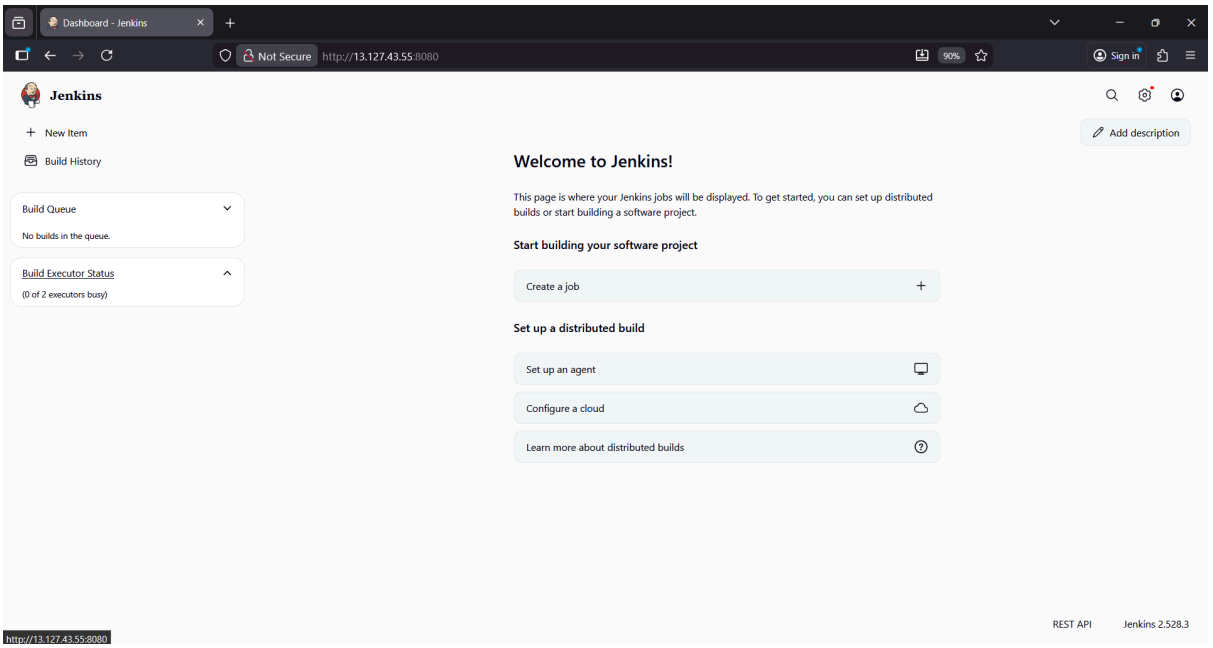
Create First Admin User



Instance Configuration

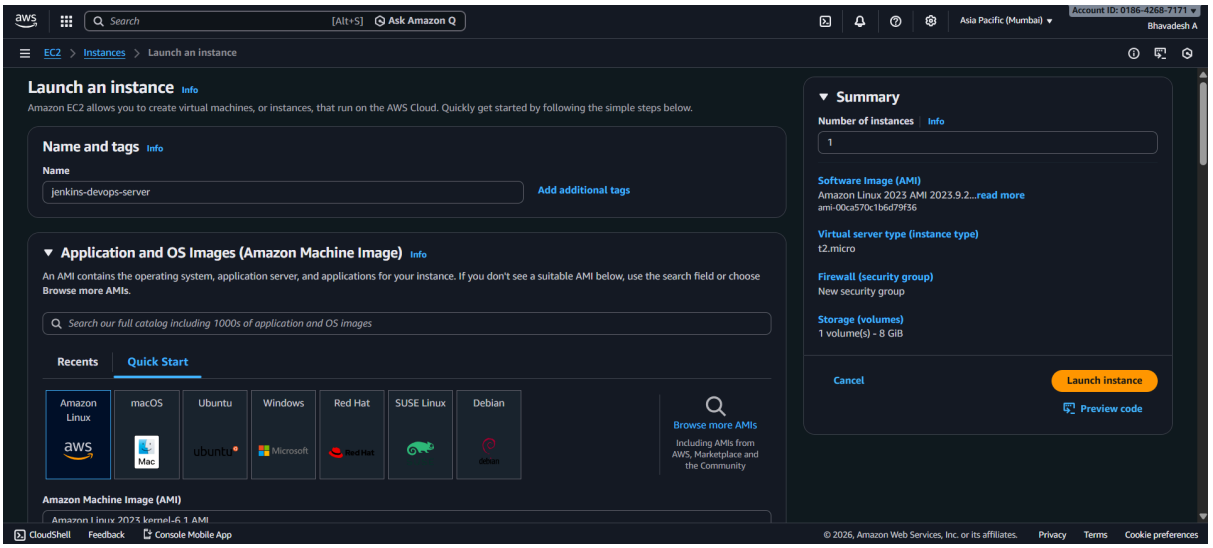


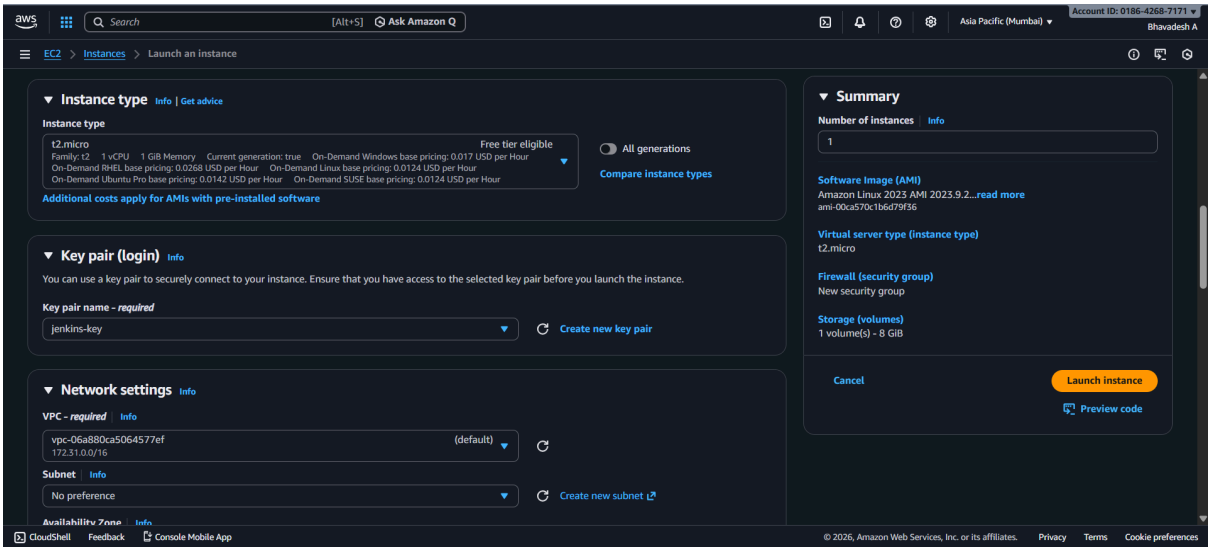

Setup Wizard - Jenkins
Not Secure
http://13.127.43.55:8080
90%
Sign in
Getting Started
Jenkins is ready!
Your Jenkins setup is complete.
Start using Jenkins
Jenkins 2.528.3
http://13.127.43.55:8080/#

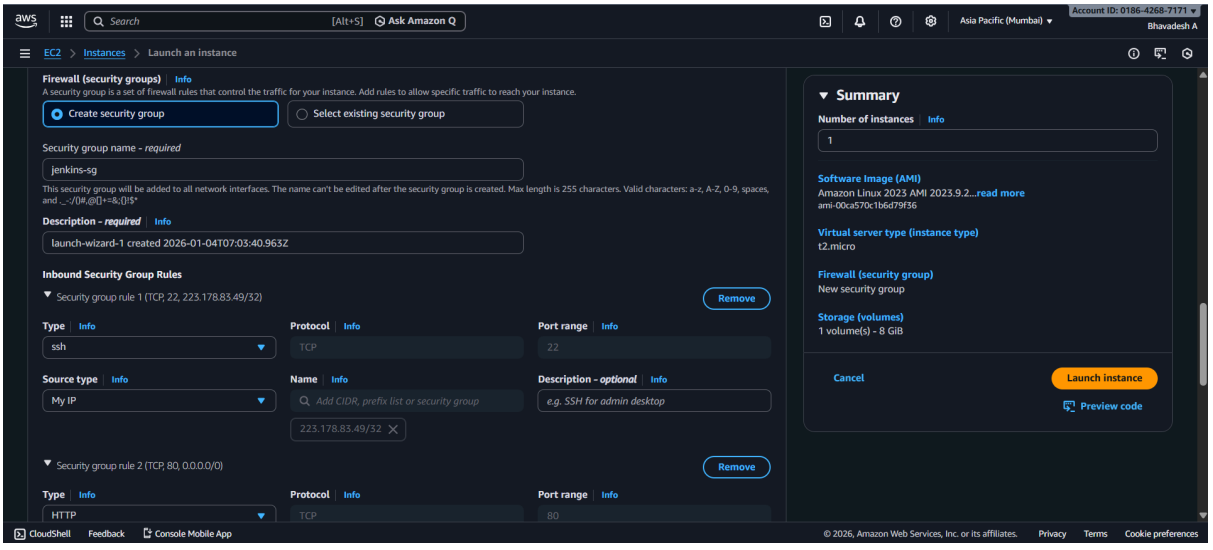

Dashboard - Jenkins
Not Secure
http://13.127.43.55:8080
90%
Sign in
Jenkins
New Item
Build History
Build Queue
No builds in the queue.
Build Executor Status
(0 of 2 executors busy)
Add description
Welcome to Jenkins!
This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.
Start building your software project
Create a job
Set up a distributed build
Set up an agent
Configure a cloud
Learn more about distributed builds
REST API
Jenkins 2.528.3
http://13.127.43.55:8080

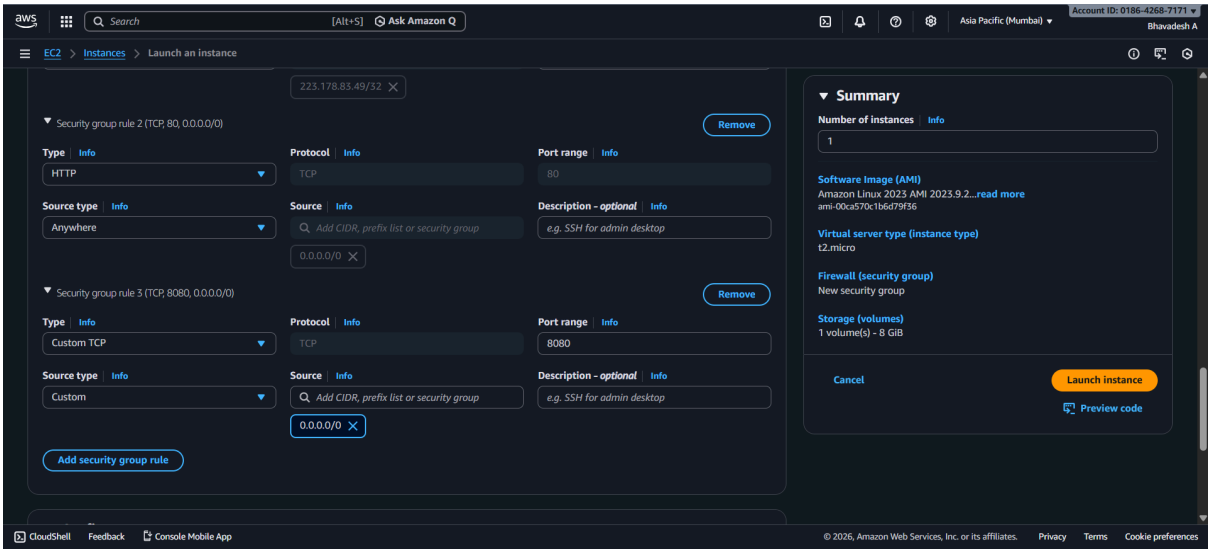
AWS EC2 & Security Group :

Ec2 setup-1

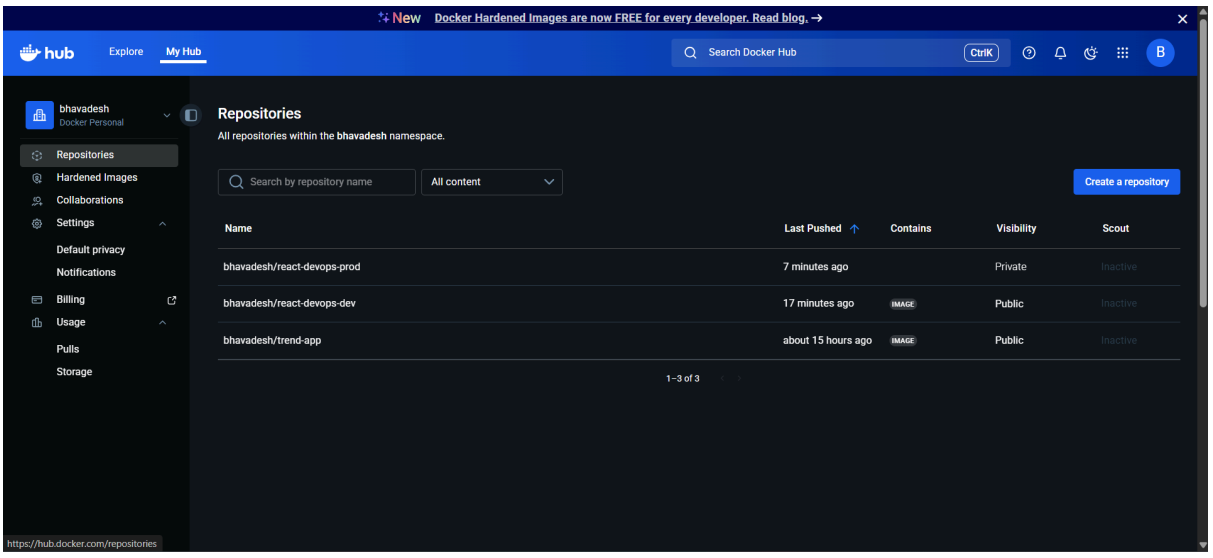


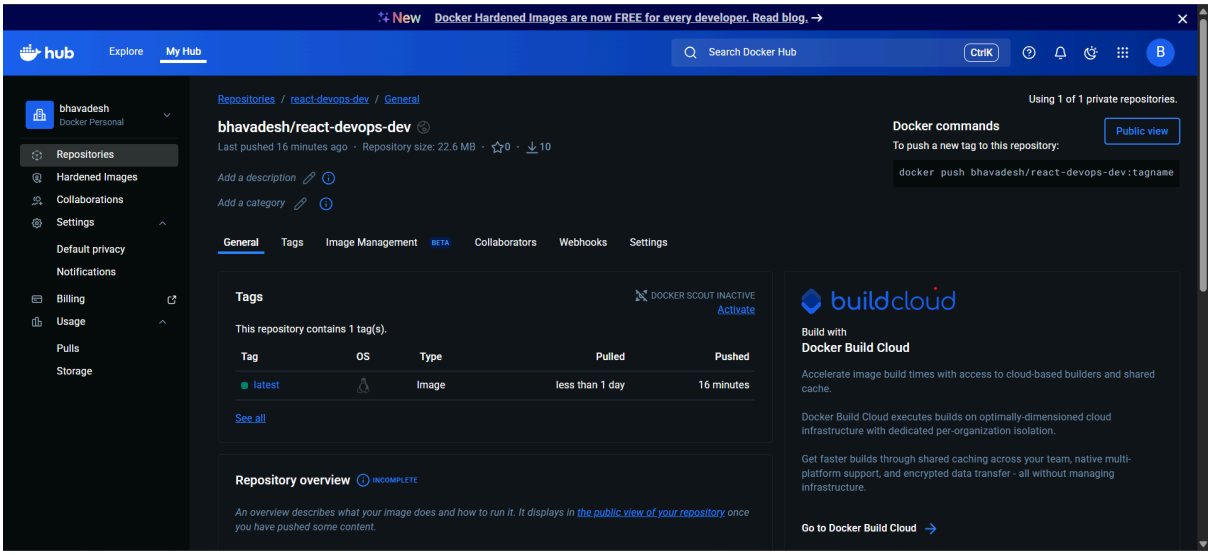






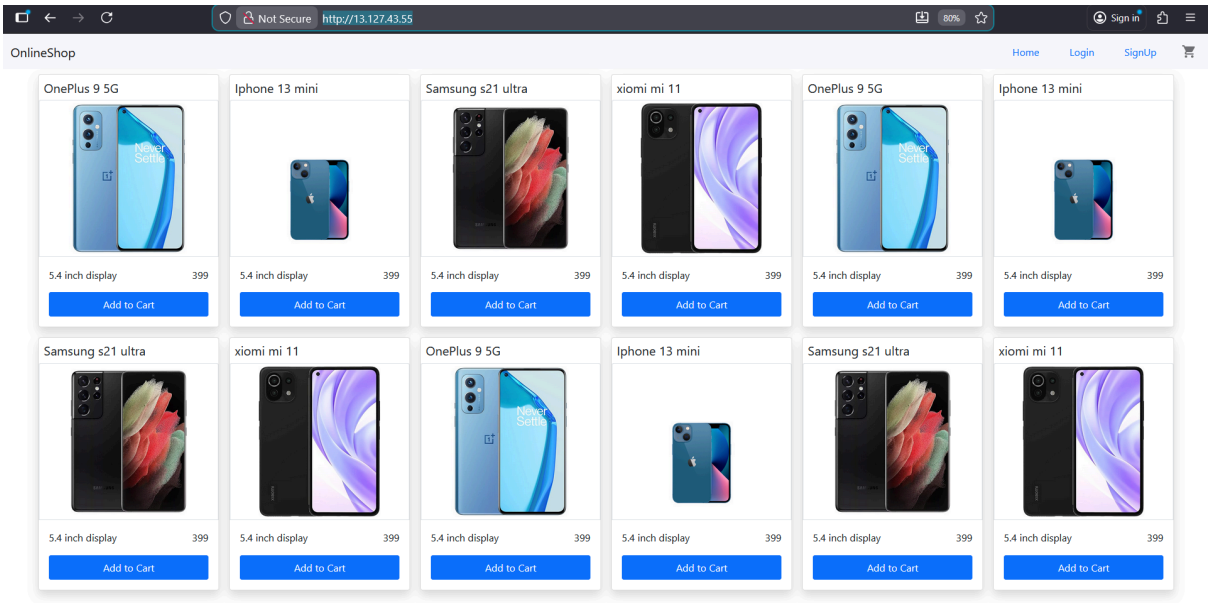
Docker Hub : Repo - dev (public) - Prod (private)



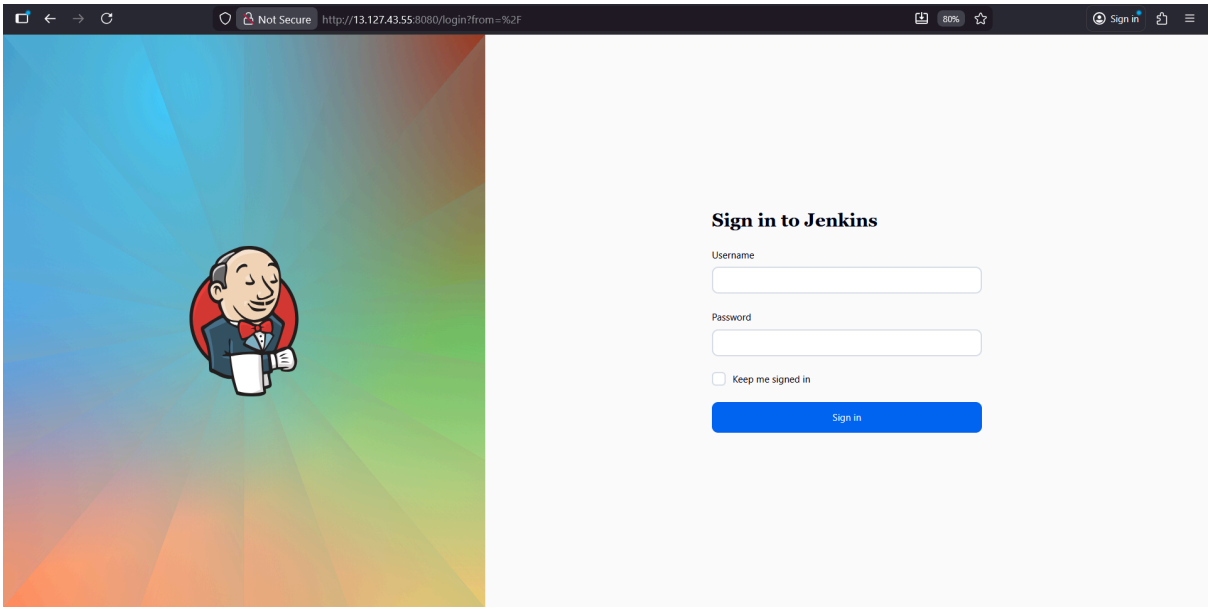


Deployed Application :

http://13.127.43.55/



Accessing Jenkins: http://13.127.43.55:8080/



Monitoring :

```
[ec2-user@ip-172-31-0-234 react-devops-pipeline]$ sudo vim /opt/app_health_check.sh
[ec2-user@ip-172-31-0-234 react-devops-pipeline]$ sudo chmod +x /opt/app_health_check.sh
[ec2-user@ip-172-31-0-234 react-devops-pipeline]$ cat /opt/app_health_check.sh
#!/bin/bash

APP_URL="http://localhost"
STATUS_CODE=$(curl -o /dev/null -s -w "%{http_code}" $APP_URL)

if [ "$STATUS_CODE" -ne 200 ]; then
    echo "❌ Application DOWN at $(date)" >> /var/log/app_health.log
else
    echo "✅ Application UP at $(date)" >> /var/log/app_health.log
fi

[ec2-user@ip-172-31-0-234 react-devops-pipeline]$
```

```
PROBLEMS  OUTPUT  DEBUG CONSOLE  TERMINAL  PORTS  GITLENS

* * * * * /bin/bash /opt/app_health_check.sh
~
~
~
~
~
~
~
~
~
~
~
```

```
[ec2-user@ip-172-31-0-234 react-devops-pipeline]$ sudo tail -n 10 /var/log/app_health.log
✅ Application UP at Sun Jan  4 16:55:01 UTC 2026
✅ Application UP at Sun Jan  4 16:56:01 UTC 2026
✅ Application UP at Sun Jan  4 16:57:02 UTC 2026
✅ Application UP at Sun Jan  4 16:58:01 UTC 2026
✅ Application UP at Sun Jan  4 16:59:01 UTC 2026
✅ Application UP at Sun Jan  4 17:00:02 UTC 2026
✅ Application UP at Sun Jan  4 17:01:01 UTC 2026
✅ Application UP at Sun Jan  4 17:02:02 UTC 2026
✅ Application UP at Sun Jan  4 17:03:01 UTC 2026
✅ Application UP at Sun Jan  4 17:04:01 UTC 2026
```

Full project execution screenshots are available here :🔗 Clink Me - 😄
