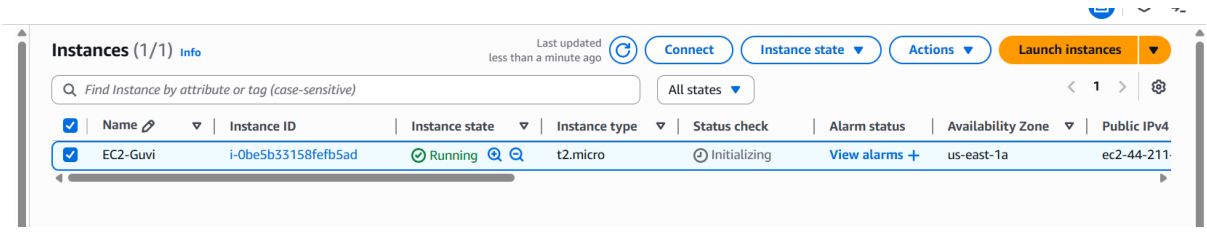
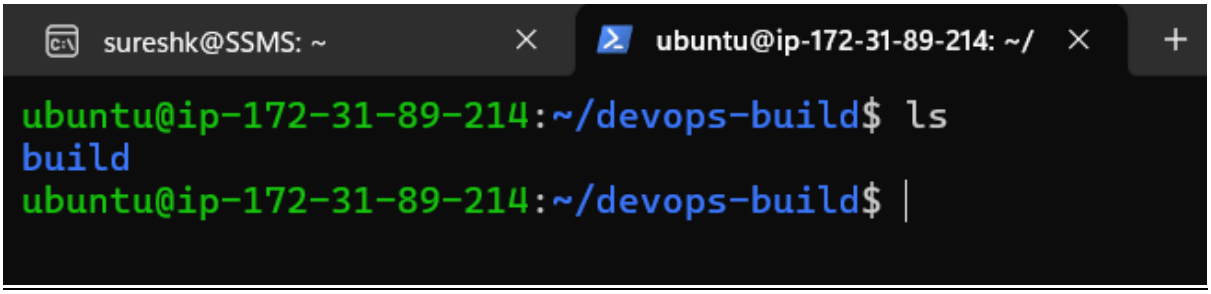
Application Deployment

(Deploy the given react application to a production ready state)

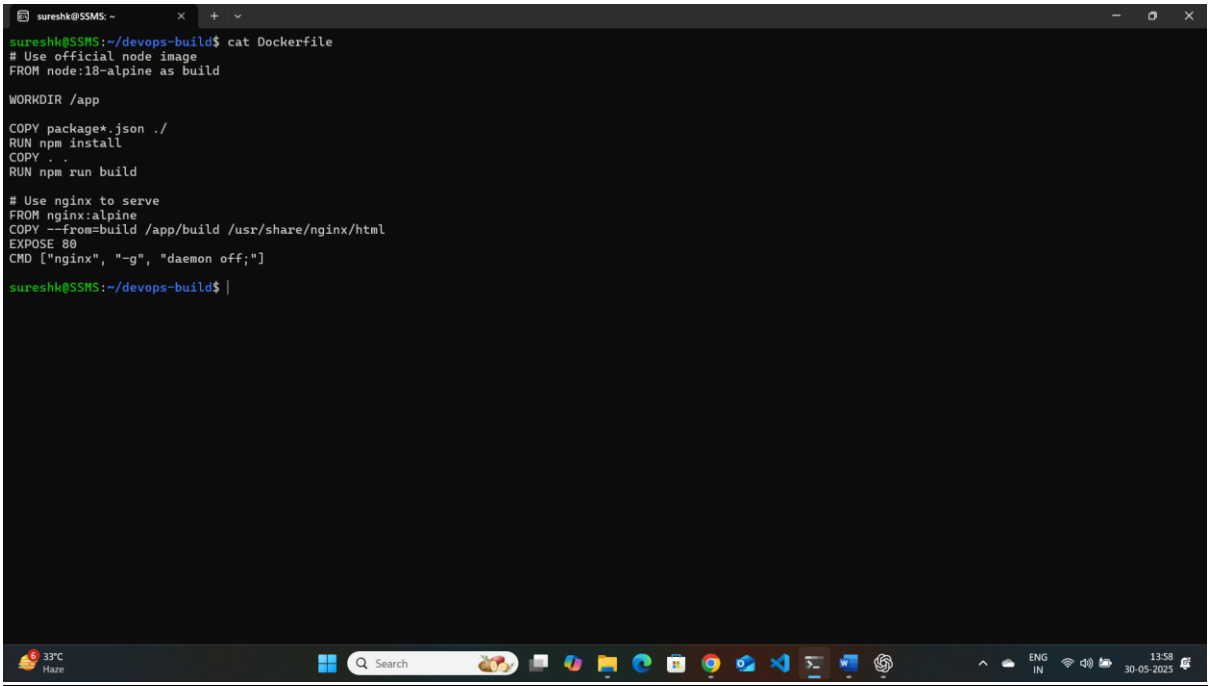
Creating EC2 Instance:

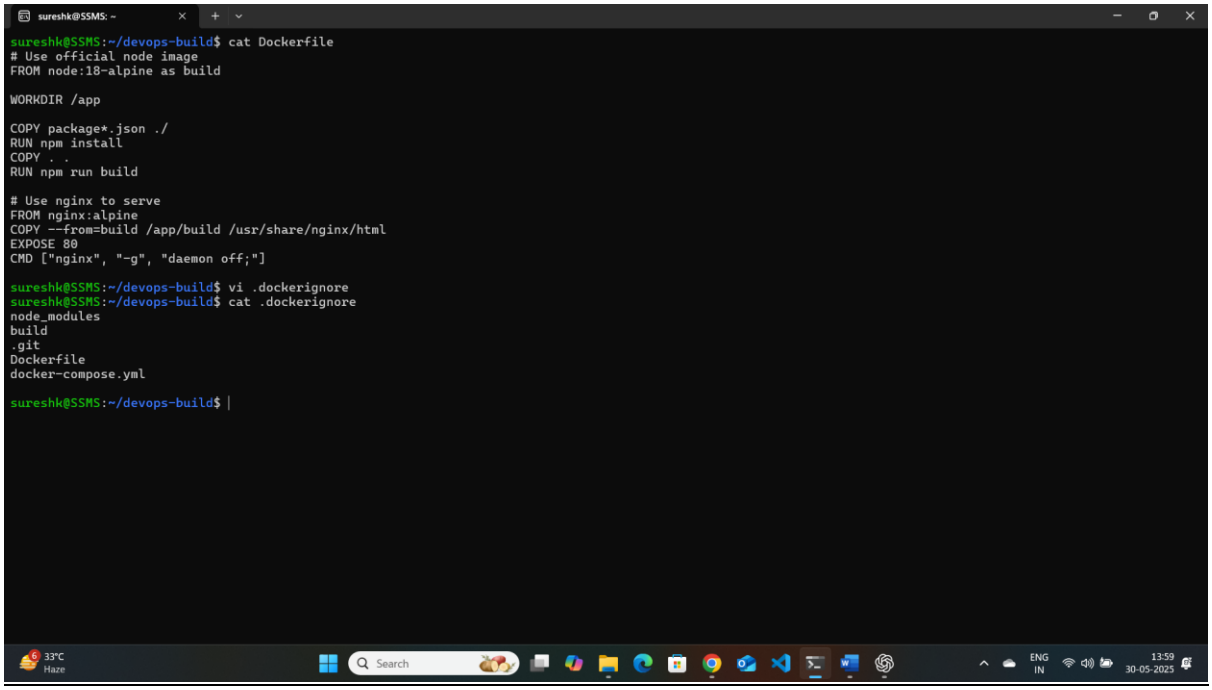


Cloning the Repo:

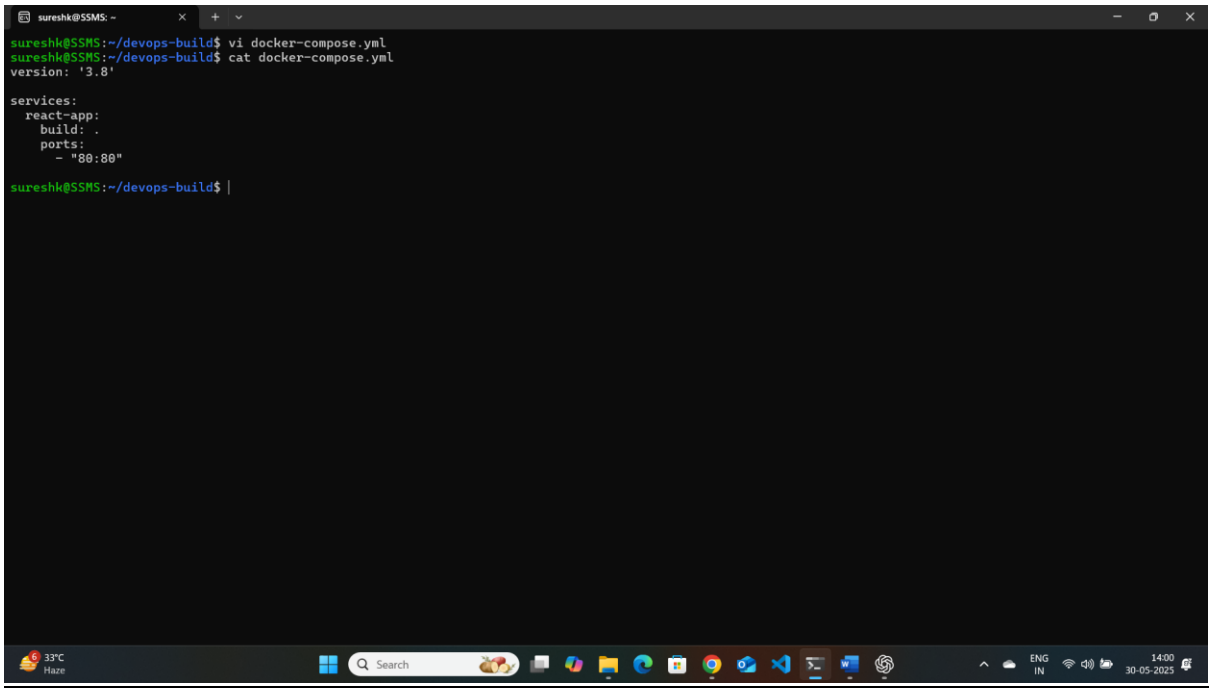


Dockerization:

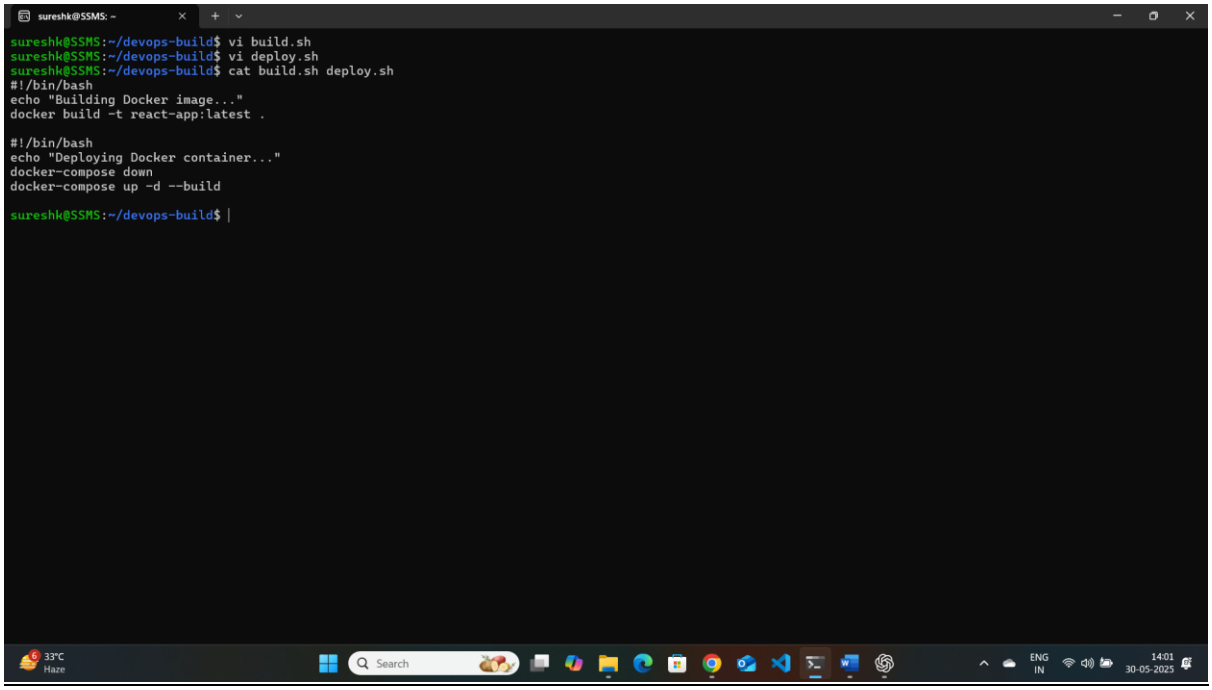




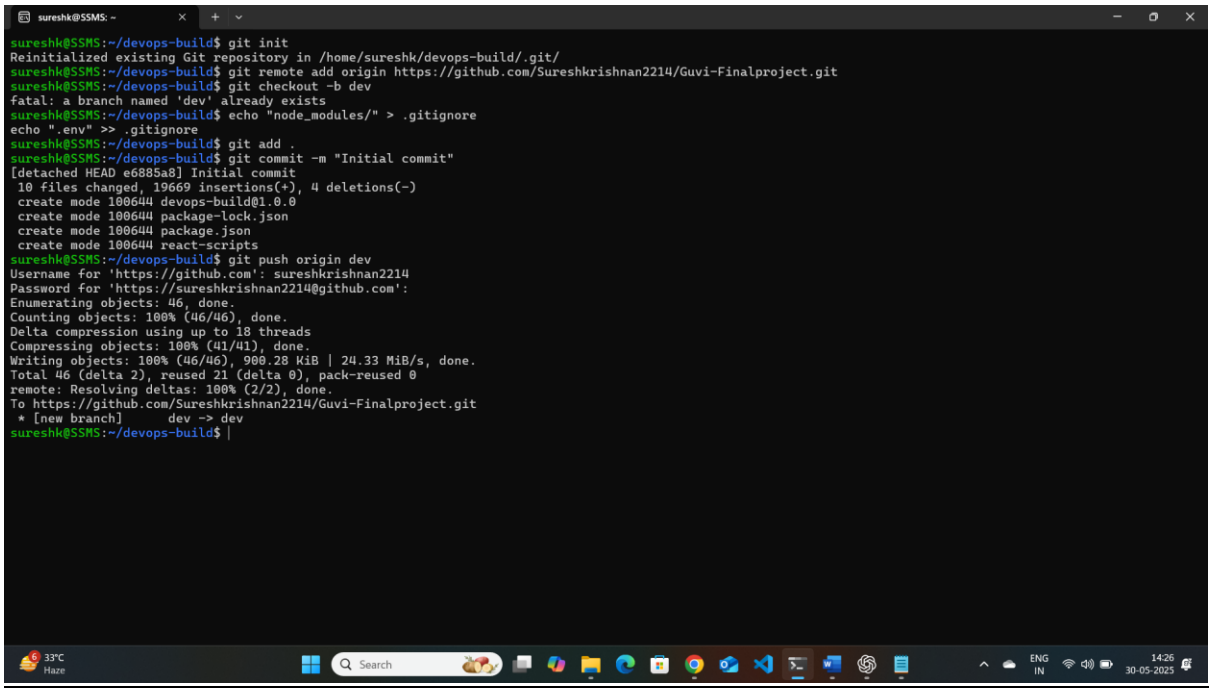
Creating Docker Compose:



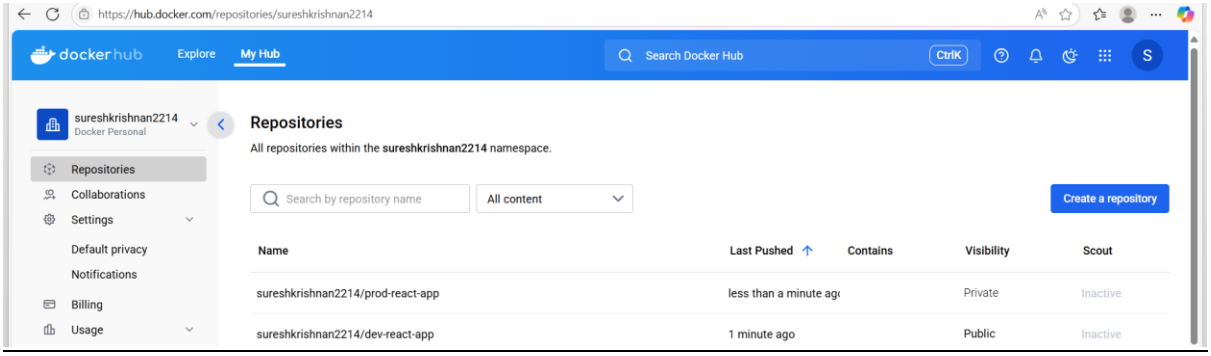
Creating Bash Scripts:



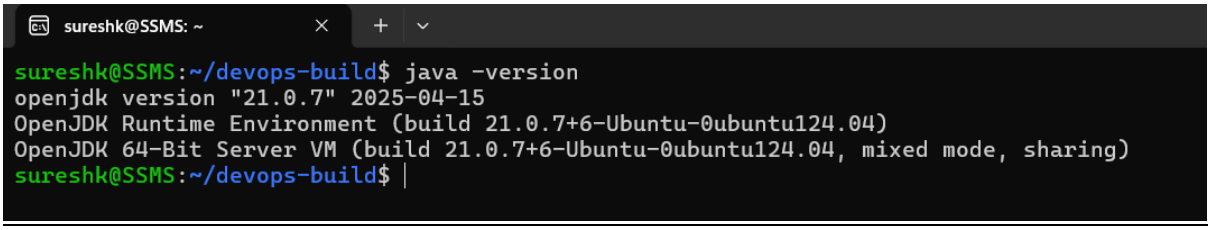
GitHub Version Control:

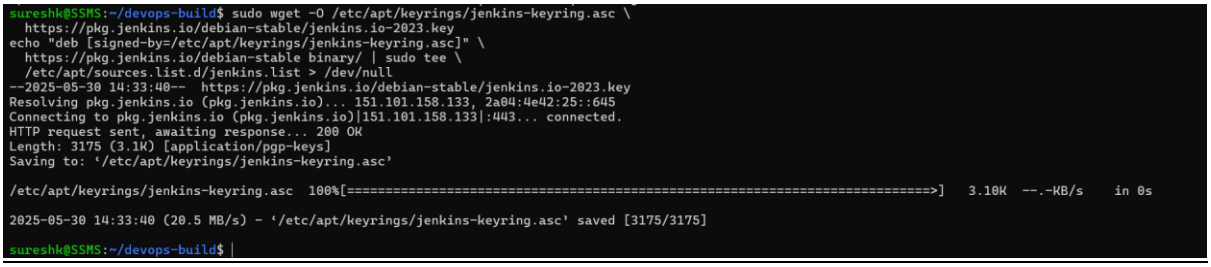


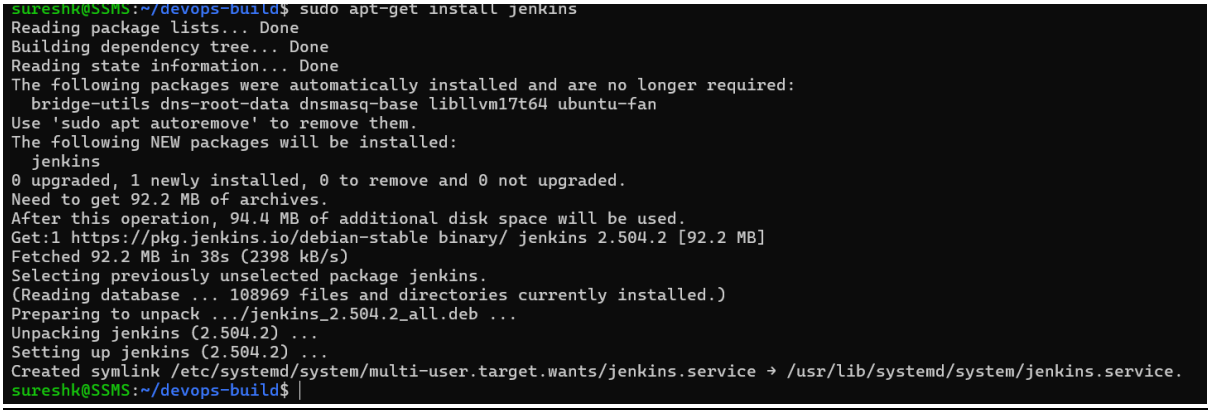
Creating Docker Hub:

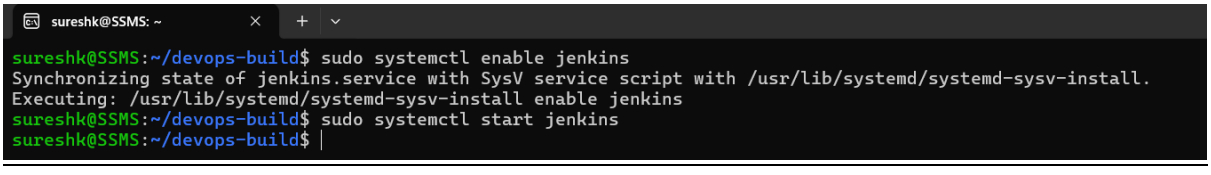


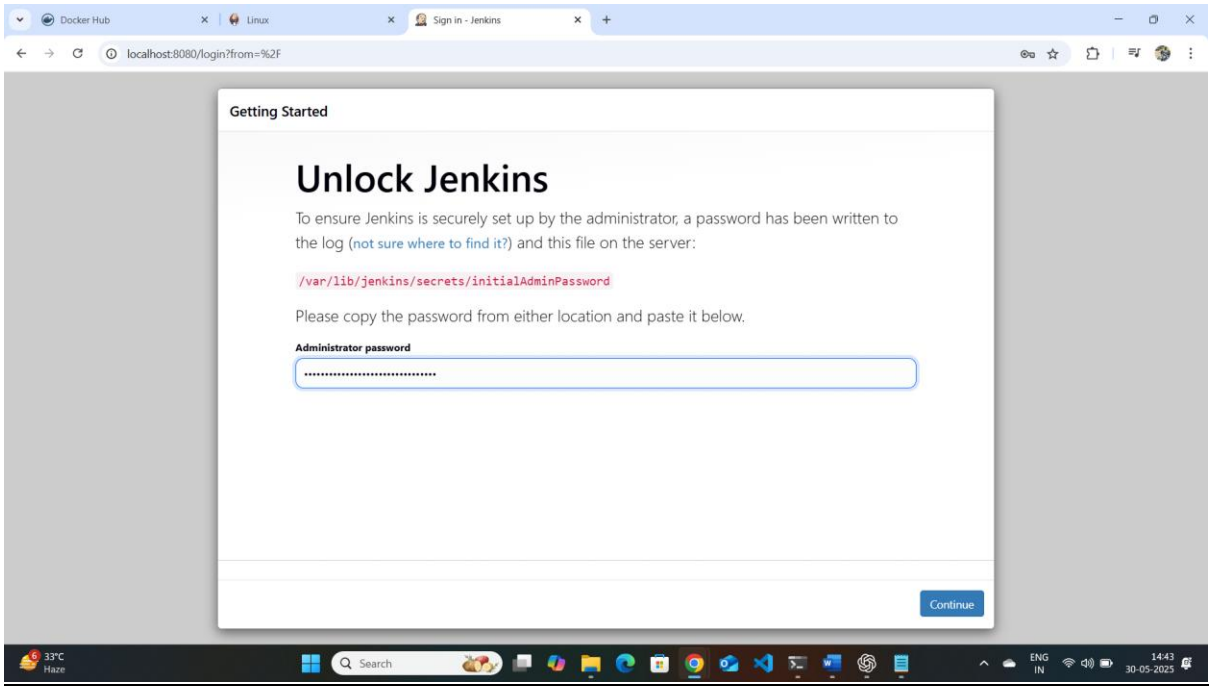
Installing Jenkins:

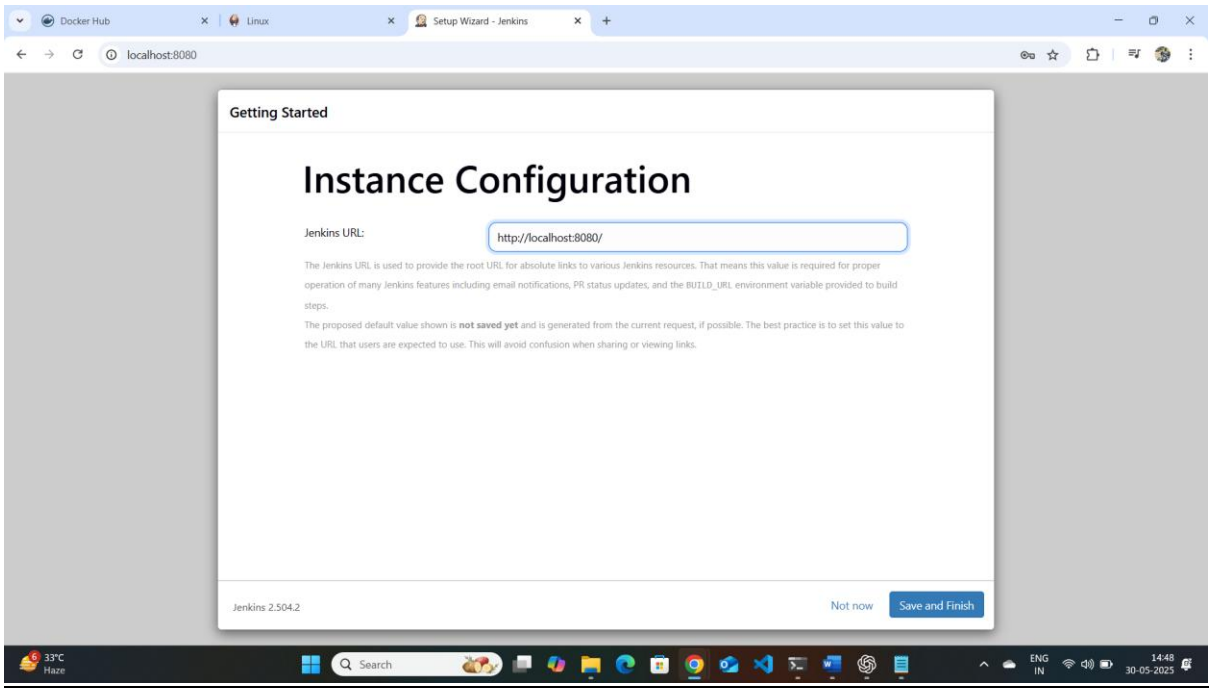


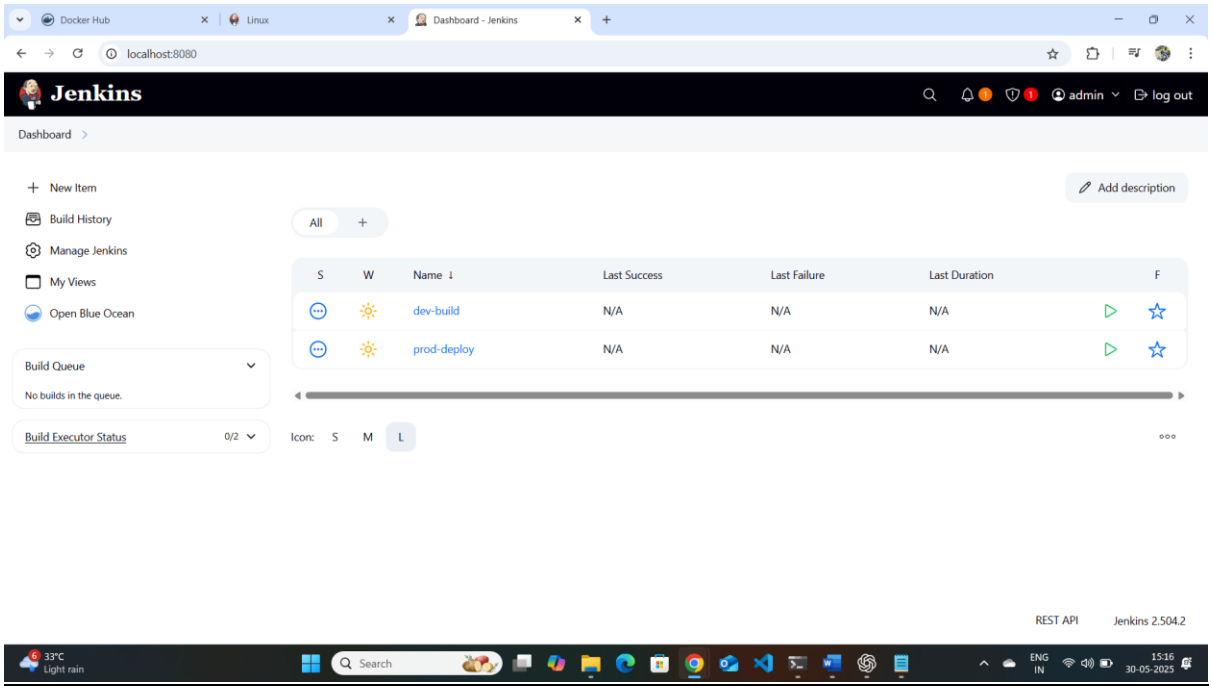




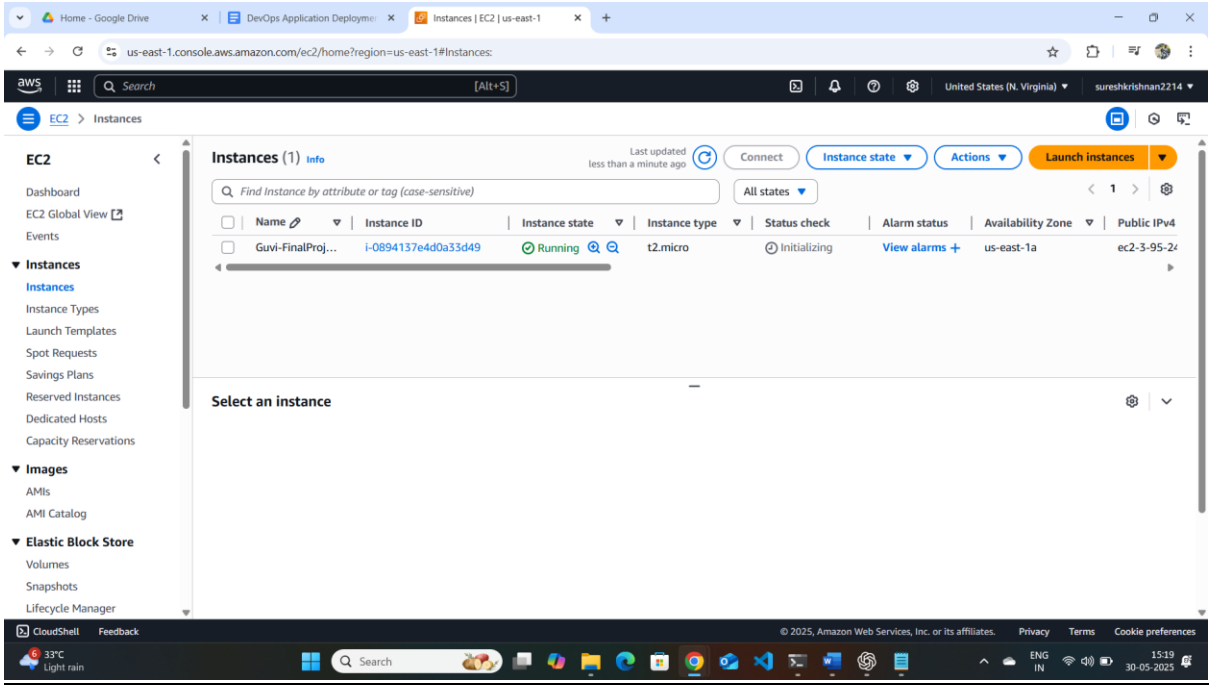



Docker Hub
Linux
Sign in - Jenkins
localhost:8080/login?from=%2F
Getting Started
Unlock Jenkins
To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:
/var/lib/jenkins/secrets/initialAdminPassword
Please copy the password from either location and paste it below.
Administrator password
Continue
33°C
Haze
Search
ENG
IN
14:43
30-05-2025

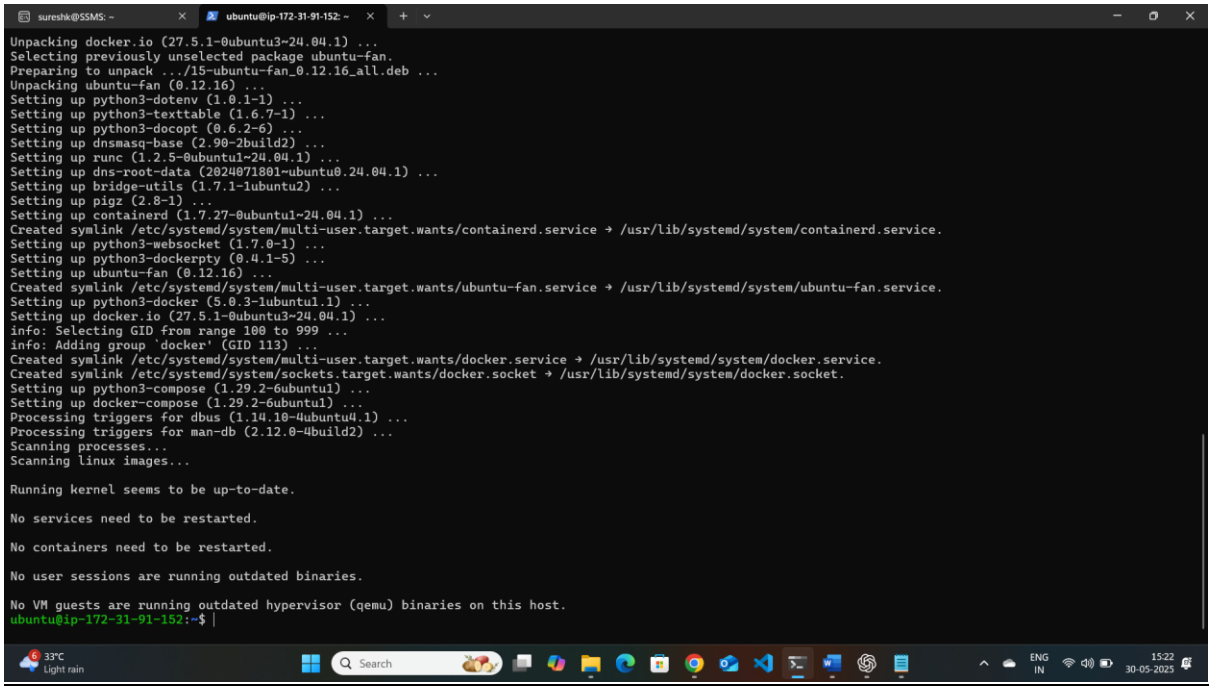

Docker Hub
Linux
Setup Wizard - Jenkins
localhost:8080
Getting Started
Instance Configuration
Jenkins URL:
http://localhost:8080/
The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD_URL environment variable provided to build steps.
The proposed default value shown is not saved yet and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.
Jenkins 2.504.2
Not now
Save and Finish
33°C
Haze
Search
ENG
IN
14:48
30-05-2025

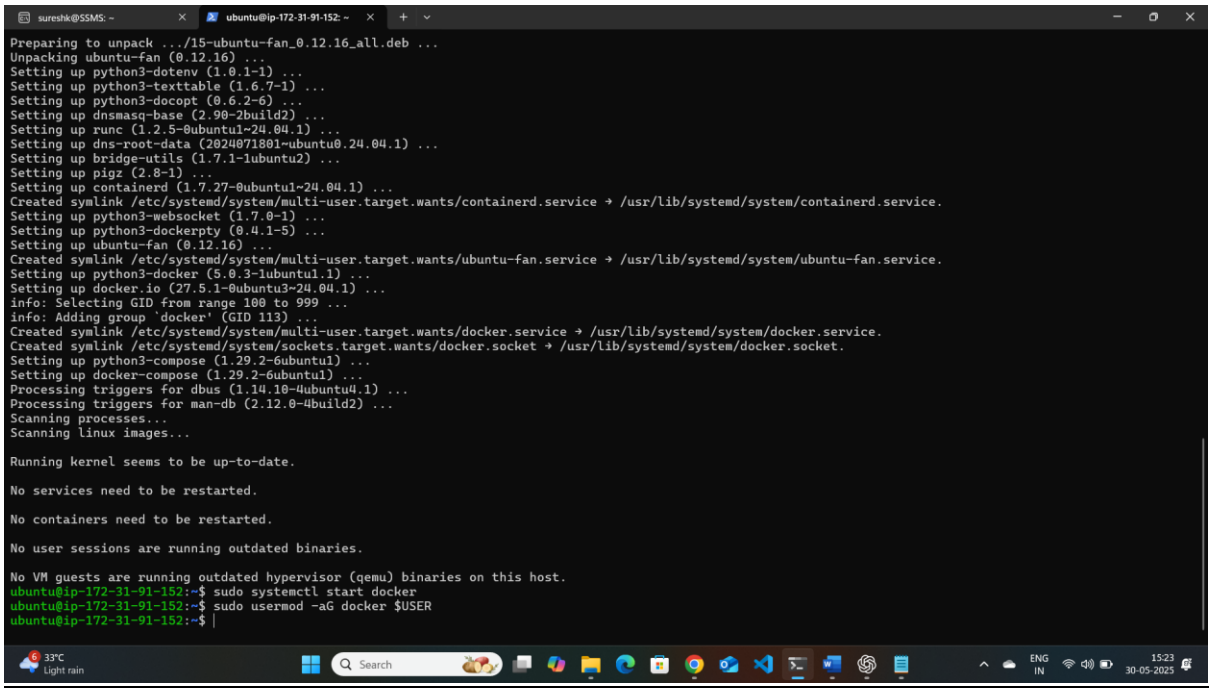


Creating EC2 Instance:

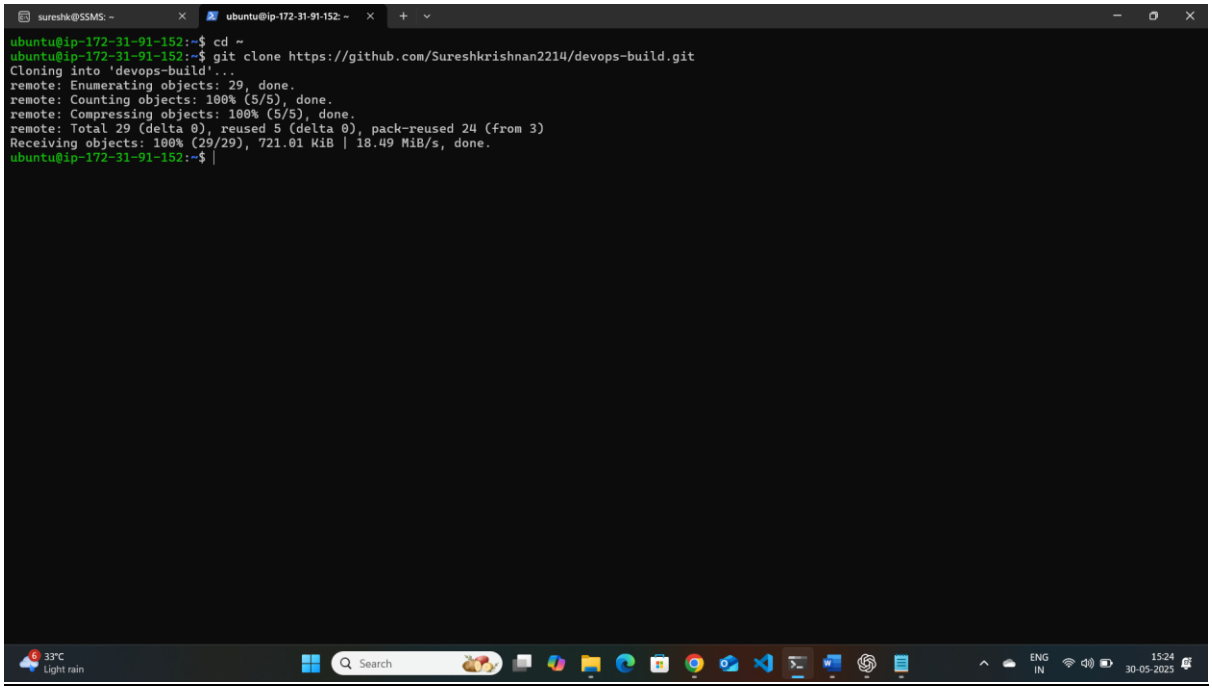


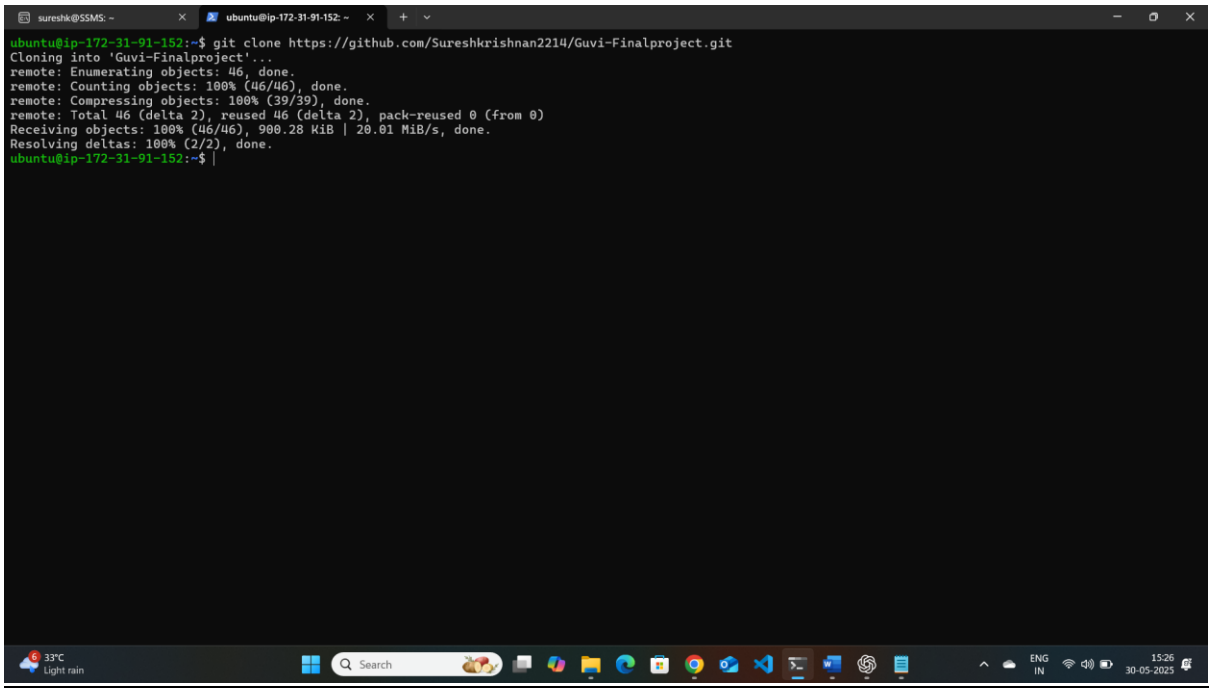
Installing Docker(Inside the EC2):

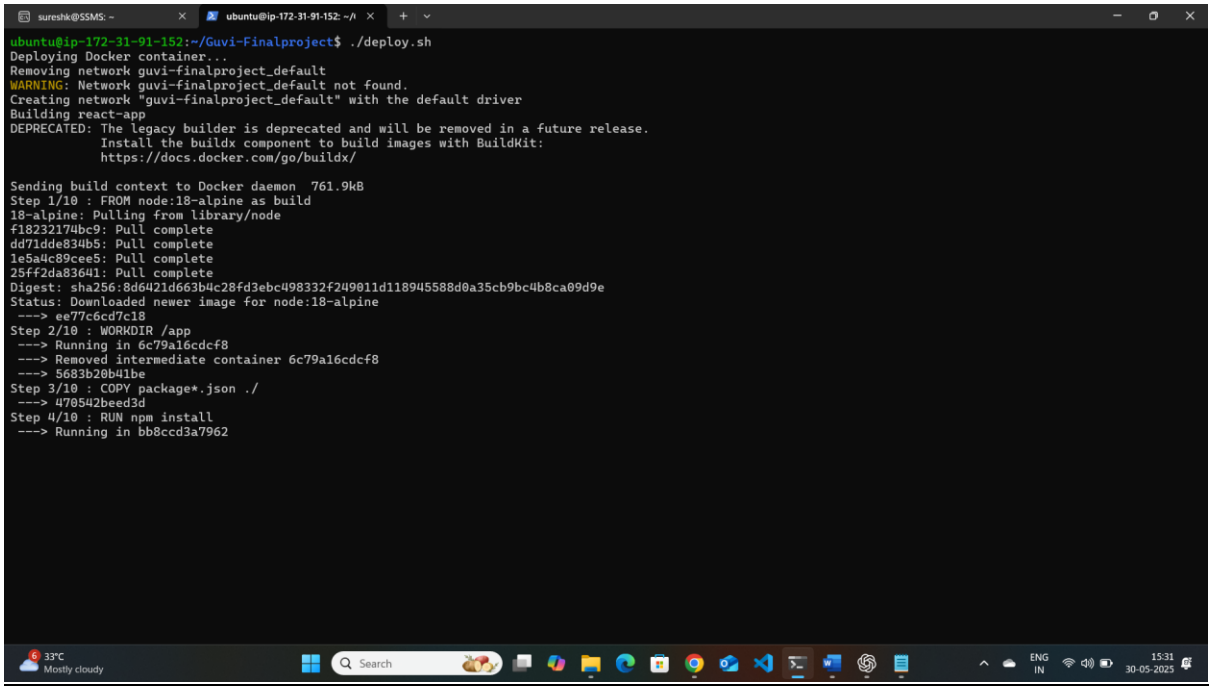


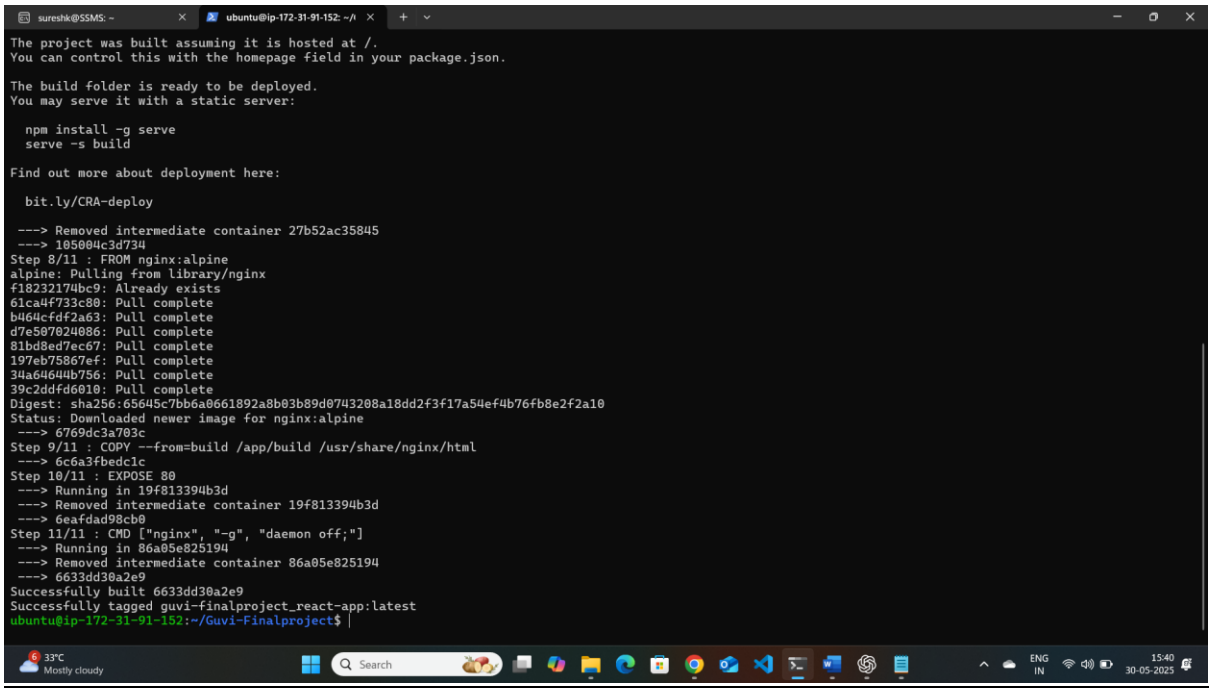


Cloning the Repo inside the EC2:

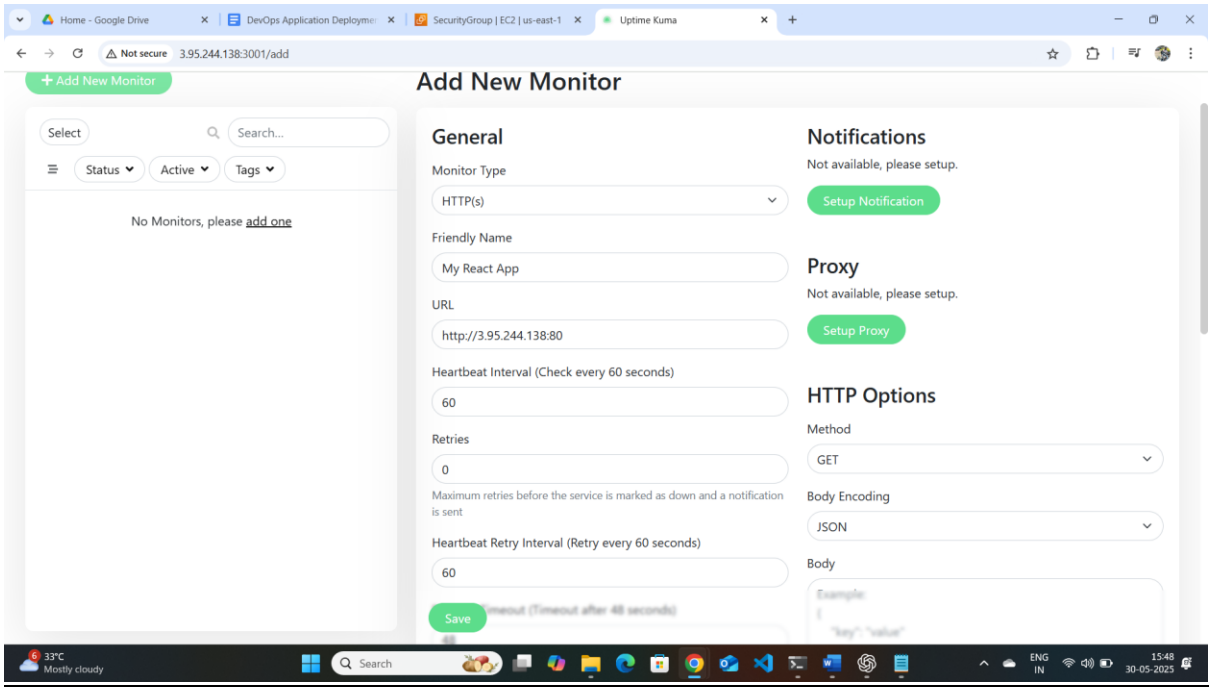

sureshk@SSMS: ~
ubuntu@ip-172-31-91-152: ~
ubuntu@ip-172-31-91-152:~$ cd ~
ubuntu@ip-172-31-91-152:~$ git clone https://github.com/Sureshkrishnan2214/devops-build.git
Cloning into 'devops-build'...
remote: Enumerating objects: 29, done.
remote: Counting objects: 100% (5/5), done.
remote: Compressing objects: 100% (5/5), done.
remote: Total 29 (delta 0), reused 5 (delta 0), pack-reused 24 (from 3)
Receiving objects: 100% (29/29), 721.01 KiB | 18.49 MiB/s, done.
ubuntu@ip-172-31-91-152:~$
33°C
Light rain
Search
ENG
IN
15:24
30-05-2025

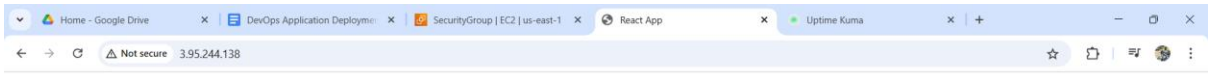

sureshk@SSMS: ~
ubuntu@ip-172-31-91-152: ~
ubuntu@ip-172-31-91-152:~$ git clone https://github.com/Sureshkrishnan2214/Guvi-Finalproject.git
Cloning into 'Guvi-Finalproject'...
remote: Enumerating objects: 46, done.
remote: Counting objects: 100% (46/46), done.
remote: Compressing objects: 100% (39/39), done.
remote: Total 46 (delta 2), reused 46 (delta 2), pack-reused 0 (from 0)
Receiving objects: 100% (46/46), 900.28 KiB | 20.01 MiB/s, done.
Resolving deltas: 100% (2/2), done.
ubuntu@ip-172-31-91-152:~$
33°C
Light rain
Search
ENG
IN
15:26
30-05-2025


sureshk@SSMS: ~
ubuntu@ip-172-31-91-152: ~/
ubuntu@ip-172-31-91-152:~/Guvi-Finalproject$ ./deploy.sh
Deploying Docker container...
Removing network guvi-finalproject_default
WARNING: Network guvi-finalproject_default not found.
Creating network "guvi-finalproject_default" with the default driver
Building react-app
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/
Sending build context to Docker daemon 761.9kB
Step 1/10 : FROM node:18-alpine as build
18-alpine: Pulling from library/node
f18232174bc9: Pull complete
dd71dde834b5: Pull complete
1e5a4c89cee5: Pull complete
25ff2da83641: Pull complete
Digest: sha256:8d6421d663b4c28fd3ebc498332f249011d118945588d0a35cb9bc4b8ca09d9e
Status: Downloaded newer image for node:18-alpine
---> ee77c6cd7c18
Step 2/10 : WORKDIR /app
---> Running in 6c79a16cdcf8
---> Removed intermediate container 6c79a16cdcf8
---> 5683b20b41be
Step 3/10 : COPY package*.json ./
---> 470542beed3d
Step 4/10 : RUN npm install
---> Running in bb8ccd3a7962
33°C
Mostly cloudy
Search
ENG
IN
15:31
30-05-2025

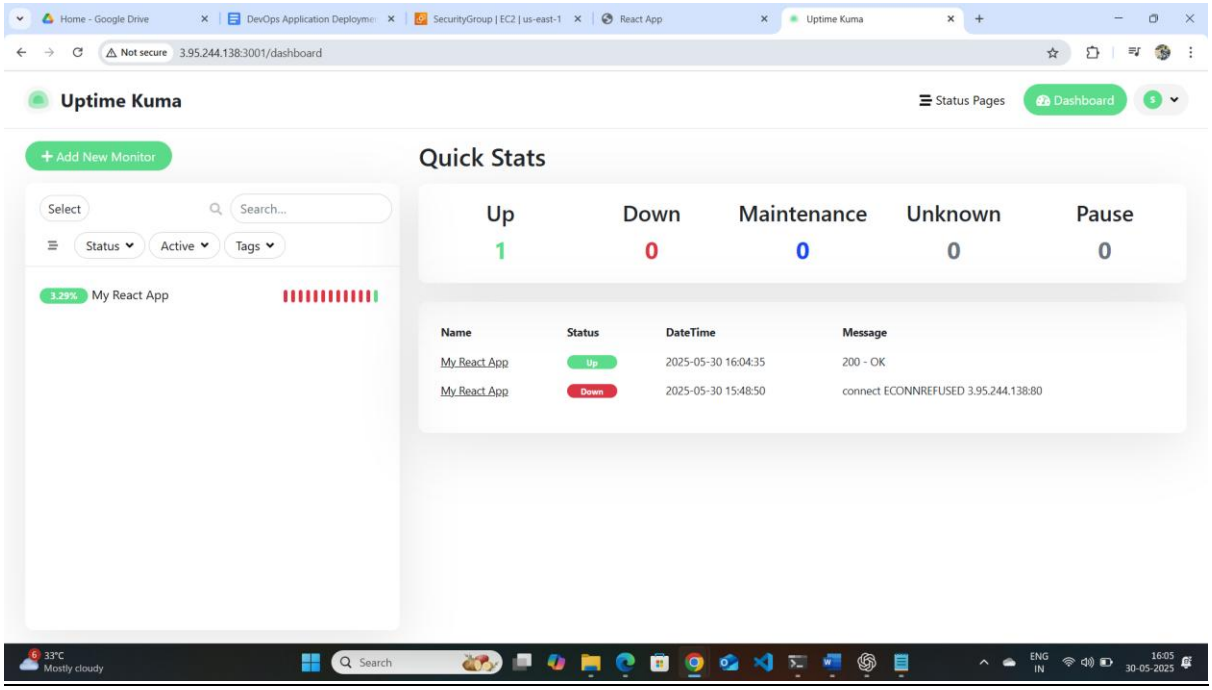

sureshk@SSMS: ~
ubuntu@ip-172-31-91-152: ~/
The project was built assuming it is hosted at /.
You can control this with the homepage field in your package.json.
The build folder is ready to be deployed.
You may serve it with a static server:
npm install -g serve
serve -s build
Find out more about deployment here:
bit.ly/CRA-deploy
---> Removed intermediate container 27b52ac35845
---> 105004c3d734
Step 8/11 : FROM nginx:alpine
alpine: Pulling from library/nginx
f18232174bc9: Already exists
61ca4f733c80: Pull complete
b464cfdf2a63: Pull complete
d7e507024086: Pull complete
81bd8ed7ec67: Pull complete
197eb75867ef: Pull complete
34a64644b756: Pull complete
39c2ddfd6010: Pull complete
Digest: sha256:65645c7bb6a0661892a8b03b89d0743208a18dd2f3f17a54ef4b76fb8e2f2a10
Status: Downloaded newer image for nginx:alpine
---> 6769dc3a703c
Step 9/11 : COPY --from=build /app/build /usr/share/nginx/html
---> 6c6a3fbedc1c
Step 10/11 : EXPOSE 80
---> Running in 19f813394b3d
---> Removed intermediate container 19f813394b3d
---> 6eafdad98cb0
Step 11/11 : CMD ["nginx", "-g", "daemon off;"]
---> Running in 86a05e825194
---> Removed intermediate container 86a05e825194
---> 6633dd30a2e9
Successfully built 6633dd30a2e9
Successfully tagged guvi-finalproject_react-app:latest
ubuntu@ip-172-31-91-152:~/Guvi-Finalproject$
33°C
Mostly cloudy
Search
ENG
IN
15:40
30-05-2025

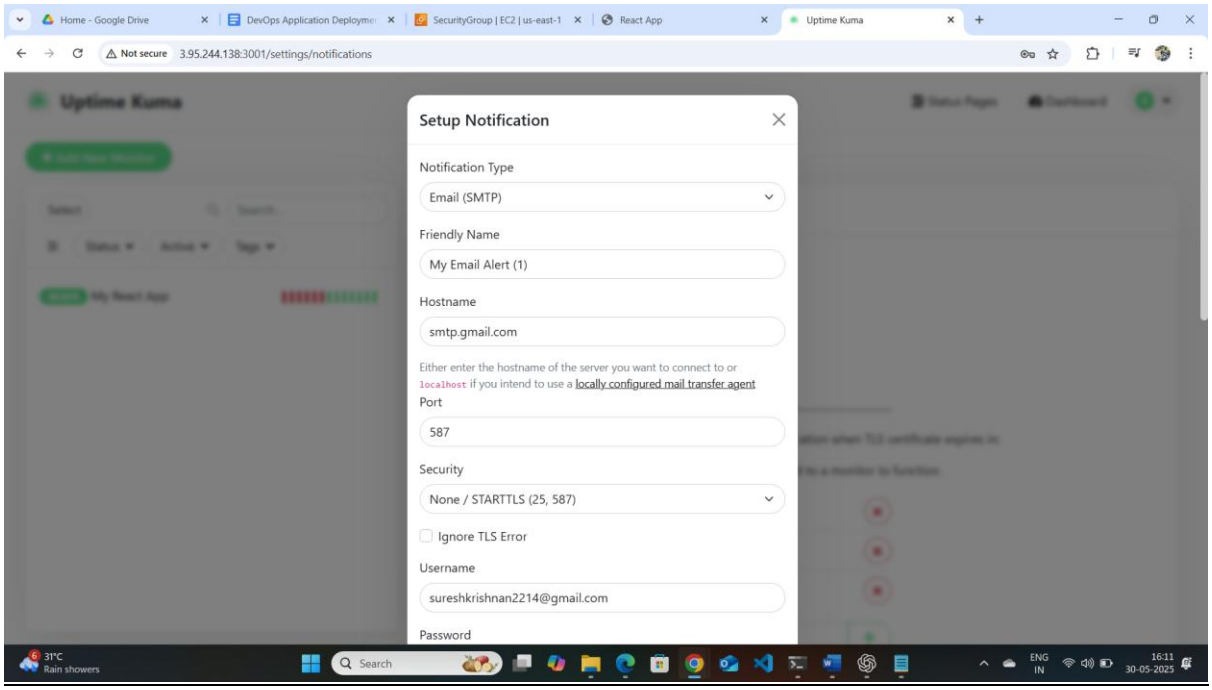
```
ubuntu@ip-172-31-91-152:~/Guvi-Finalproject$ docker volume create uptime-kuma
uptime-kuma
ubuntu@ip-172-31-91-152:~/Guvi-Finalproject$ docker run -d \
  --restart=always \
  -p 3001:3001 \
  -v uptime-kuma:/app/data \
  --name uptime-kuma \
  louislam/uptime-kuma
Unable to find image 'louislam/uptime-kuma:latest' locally
latest: Pulling from louislam/uptime-kuma
b338562f40a7: Pull complete
874bf4d93720: Pull complete
b16337721583: Pull complete
7d955db85b85: Pull complete
2c706596bd17: Pull complete
88a5c59ed14f: Pull complete
5a1d0a896c33: Pull complete
e68c2f25b946: Pull complete
2e6c90f010d6: Pull complete
ff15b10fabb8: Pull complete
4f4fb700ef54: Pull complete
d2a400cc8adb: Pull complete
Digest: sha256:431fee3be822b04861cf0e35daf4beef6b7cb37391c5f26c3ad6e12ce280fe18
Status: Downloaded newer image for louislam/uptime-kuma:latest
326ef775dcb594367dfaa57766a20f6d90b2e1c9a97ca97db945c7d1ee807fc7
ubuntu@ip-172-31-91-152:~/Guvi-Finalproject$
```

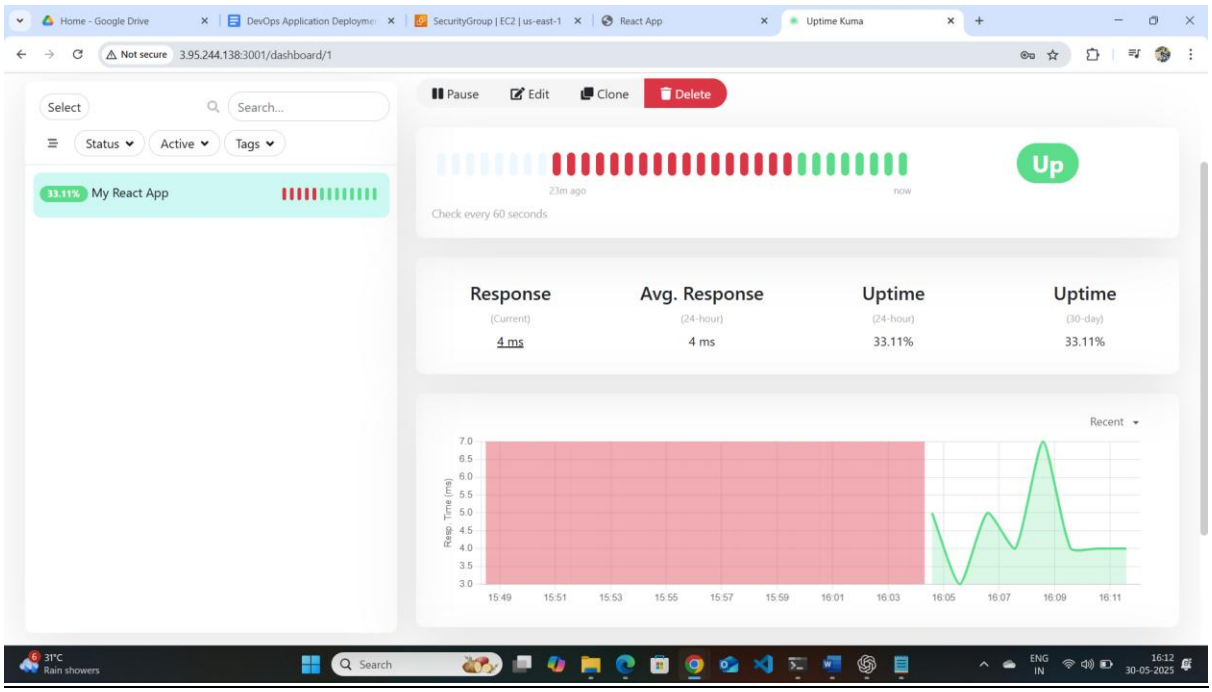




Hello from React!




Uptime Kuma
Setup Notification
Notification Type
Email (SMTP)
Friendly Name
My Email Alert (1)
Hostname
smtp.gmail.com
Either enter the hostname of the server you want to connect to or localhost if you intend to use a locally configured mail transfer agent
Port
587
Security
None / STARTTLS (25, 587)
Ignore TLS Error
Username
sureshkrishnan2214@gmail.com
Password


Select
Search...
Status
Active
Tags
33.11% My React App
Pause
Edit
Clone
Delete
Up
23m ago
now
Check every 60 seconds
Response
(Current)
4 ms
Avg. Response
(24-hour)
4 ms
Uptime
(24-hour)
33.11%
Uptime
(30-day)
33.11%
Recent
Resp. Time (ms)