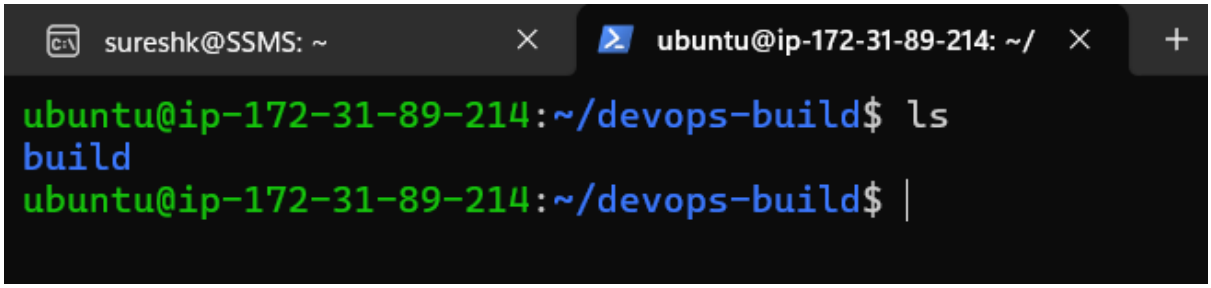
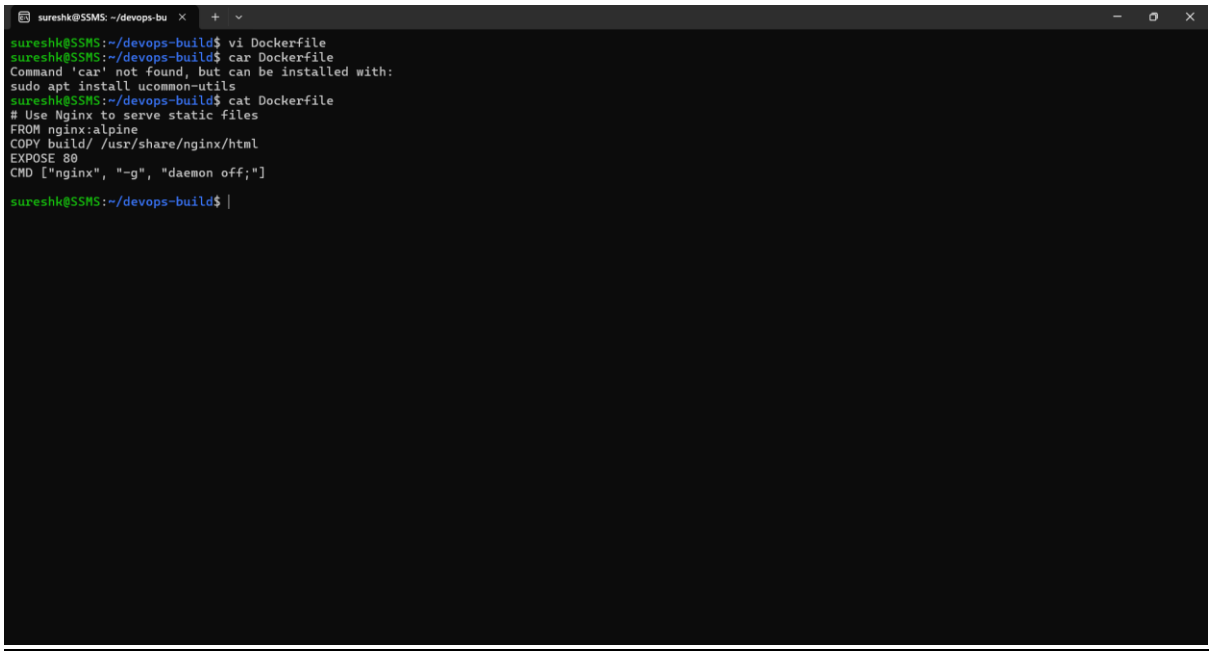
## Application Deployment

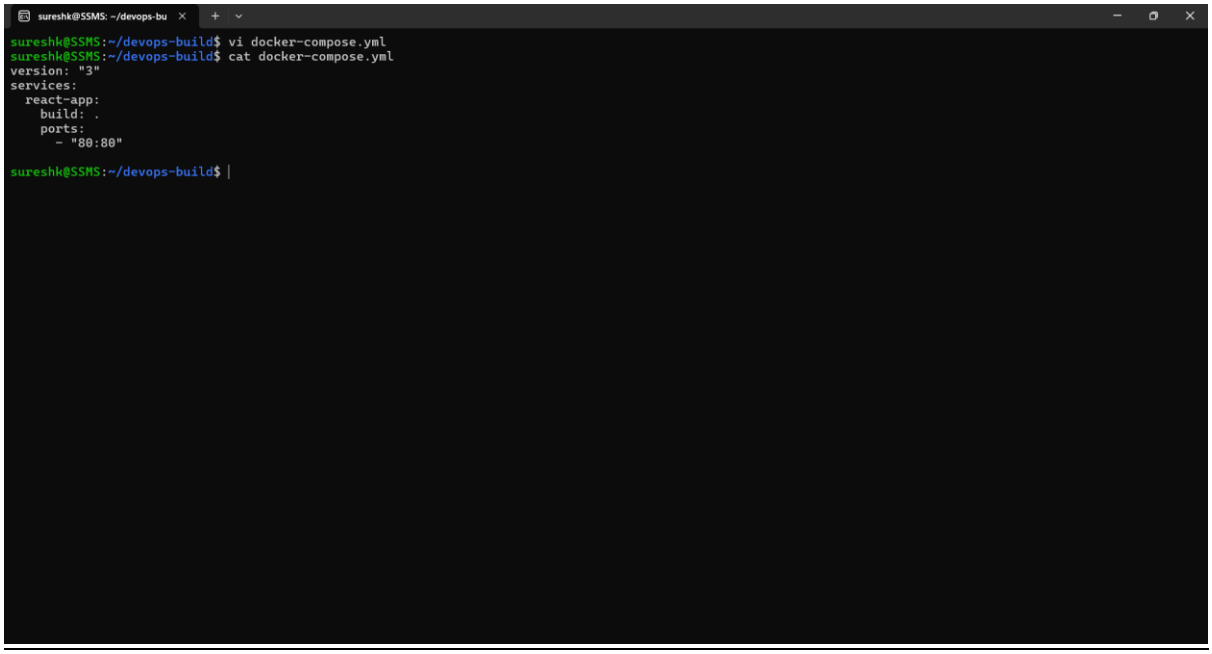
## (Deploy the given react application to a production ready state)

### Cloning the Repo:

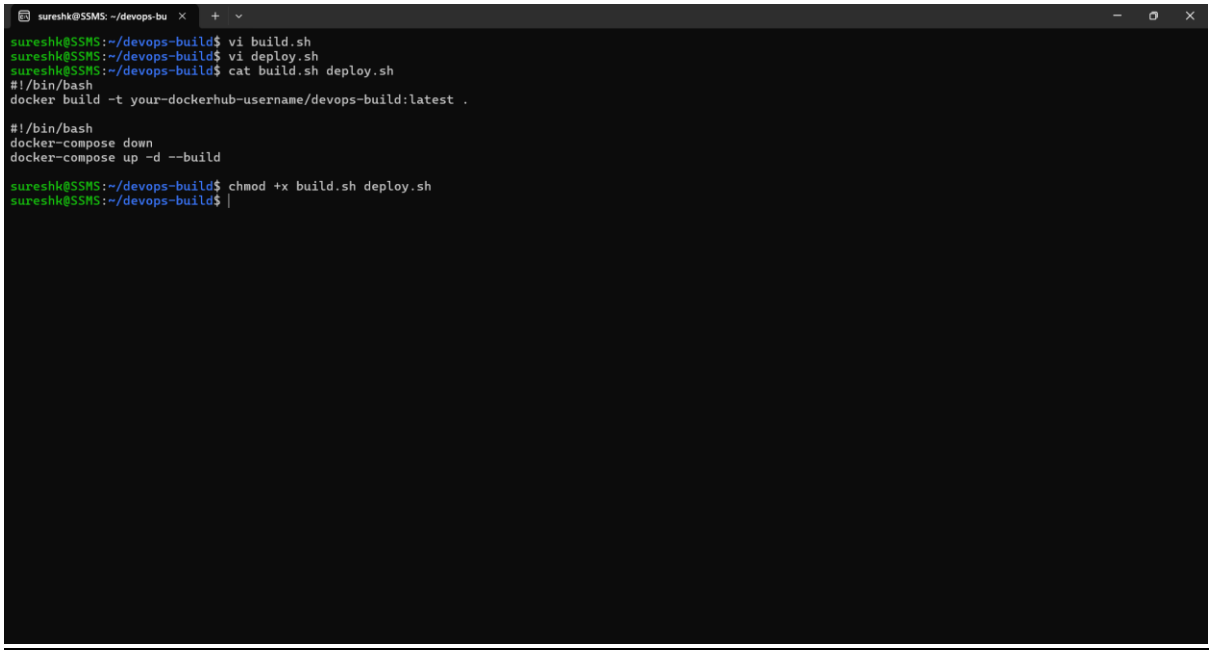



### Dockerization:

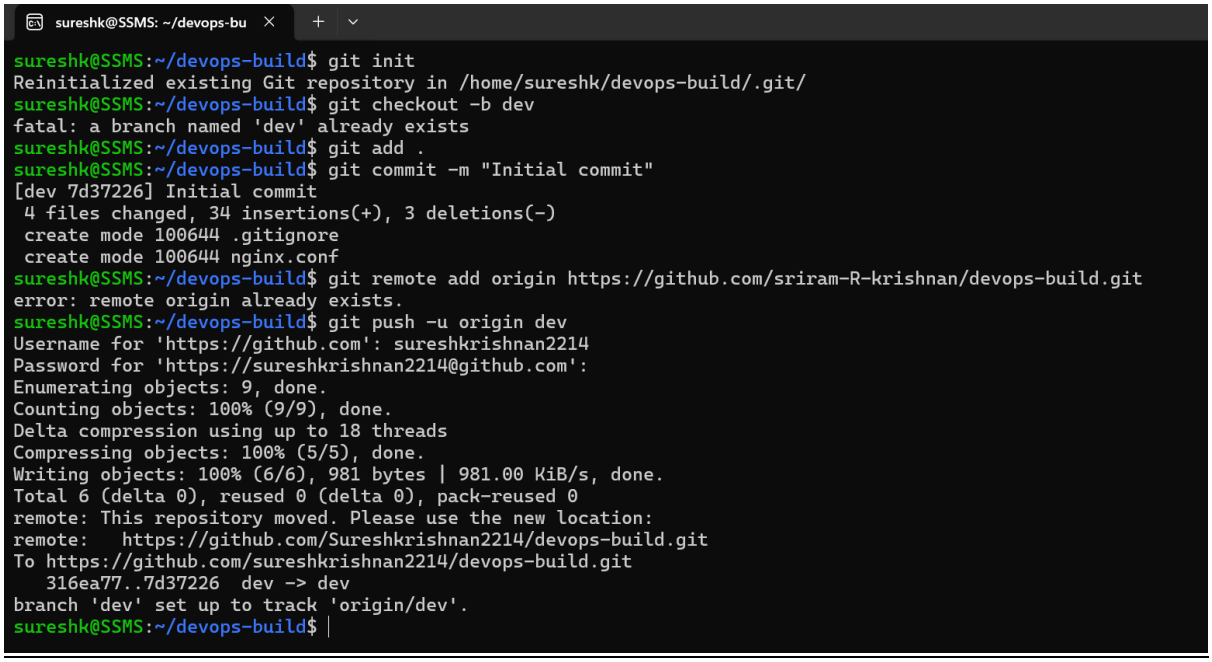


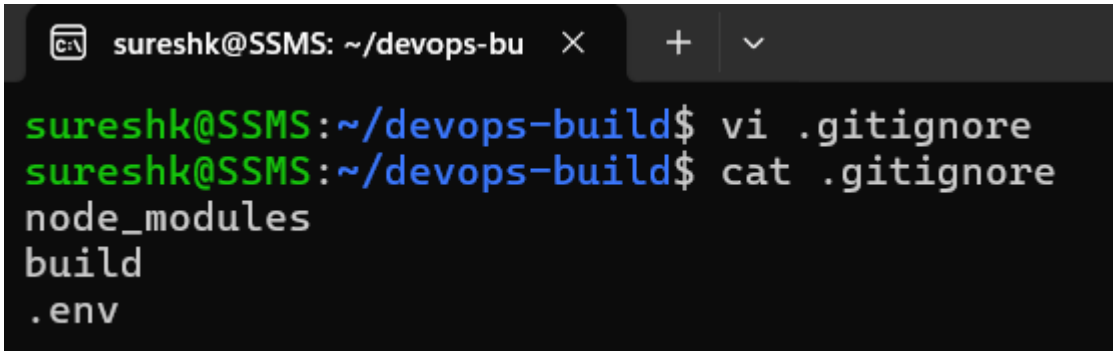


## Creating Bash scripts:



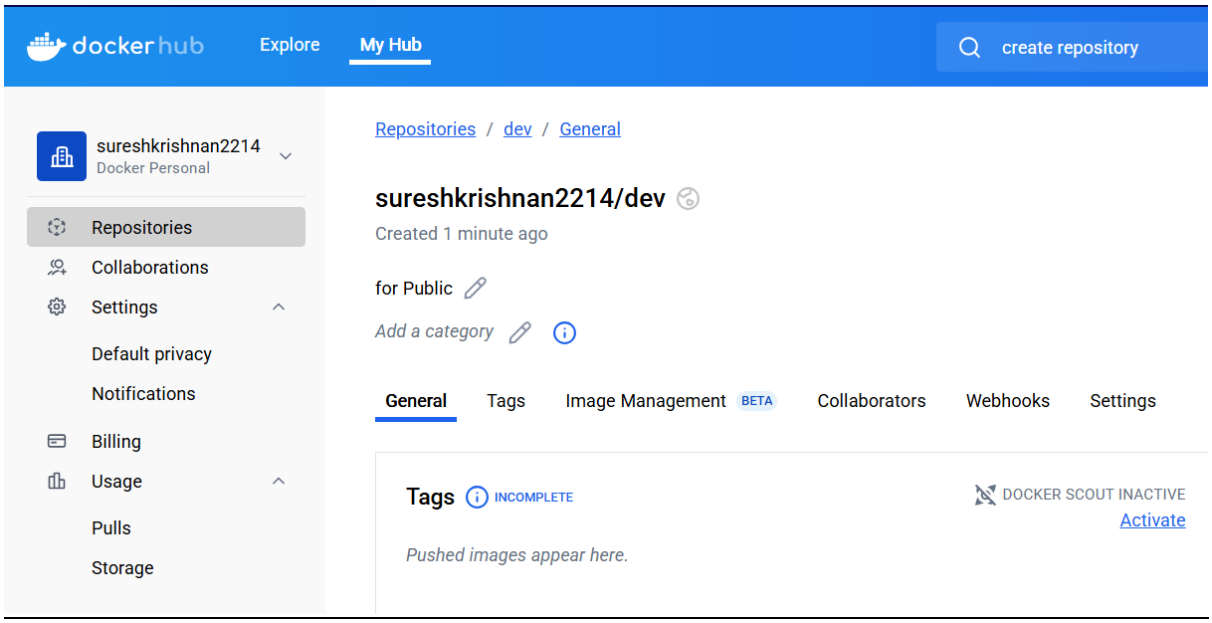

## Git Version Control:



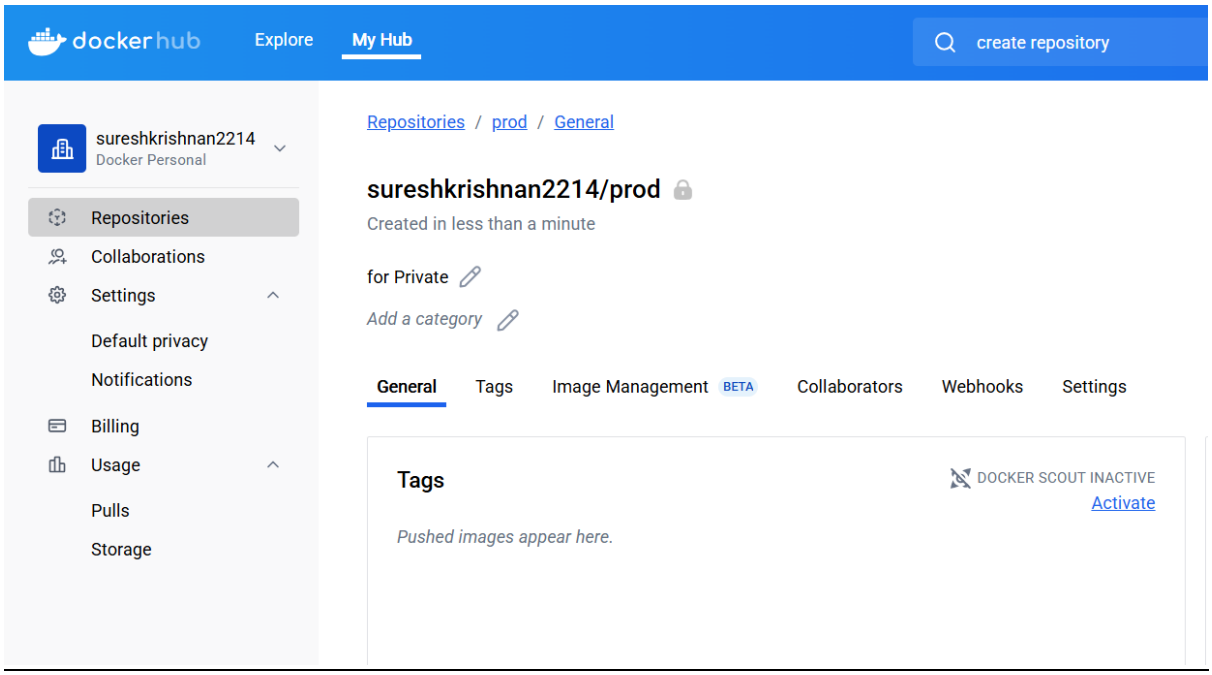



## Docker Hub Setup

## Creating Dev Repo (Public):



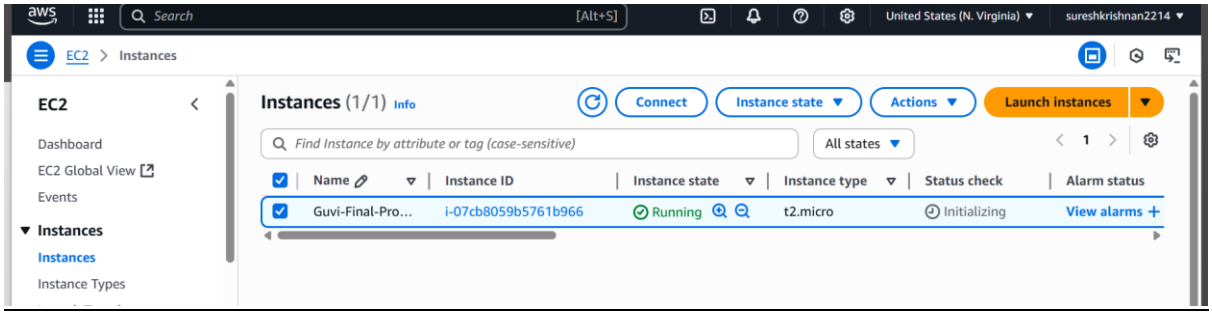

## Creating Prod Repo( Private):

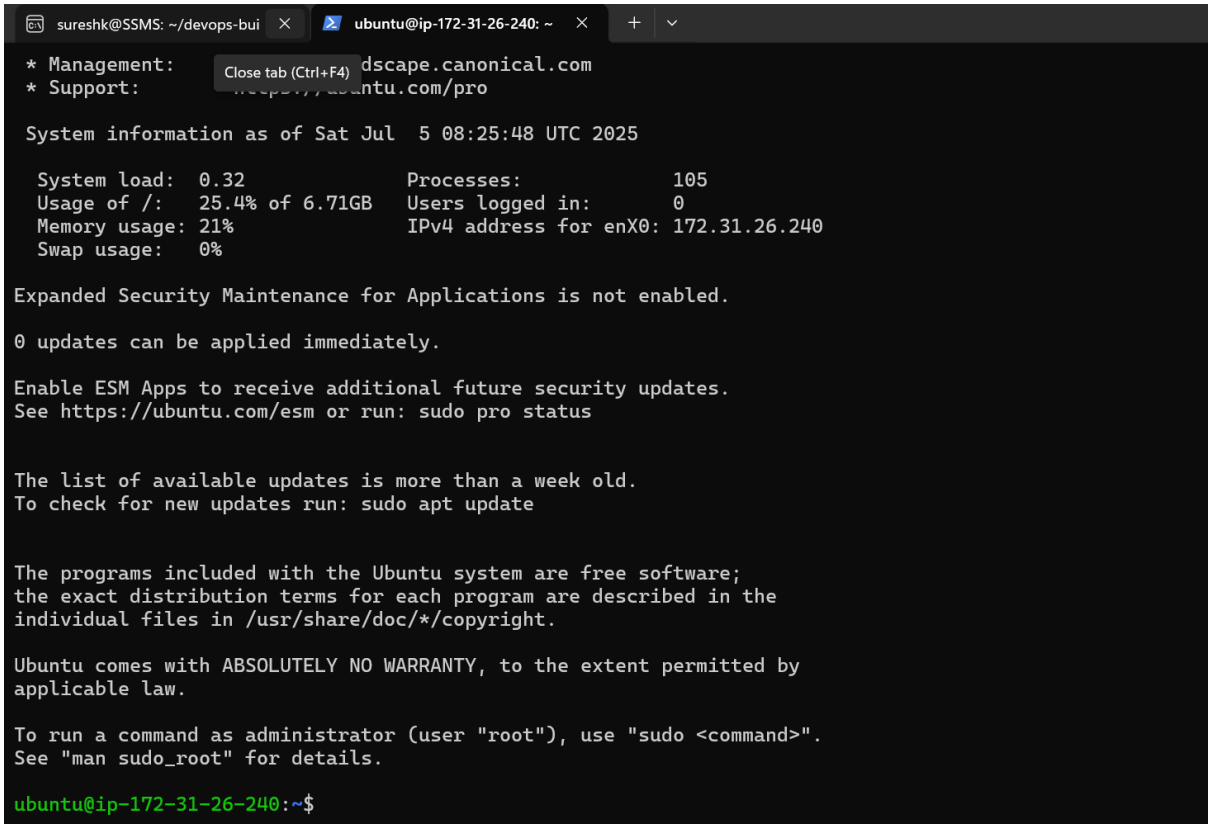



## Jenkins Setup:

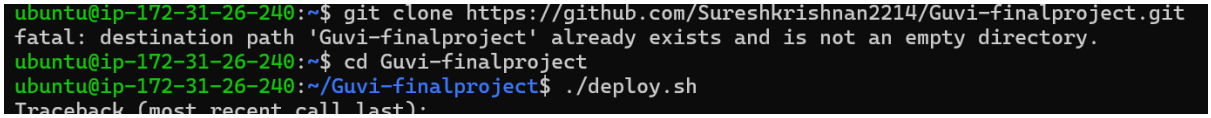
```
sureshk@SSMS: ~/devops-bu
sureshk@SSMS:~/devops-build$ sudo apt install jenkins -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following packages were automatically installed and are no longer required:
  bridge-utils dns-root-data dnsmasq-base libllvm17t64 ubuntu-fan
Use 'sudo apt autoremove' to remove them.
The following packages will be upgraded:
  jenkins
1 upgraded, 0 newly installed, 0 to remove and 14 not upgraded.
Need to get 87.1 MB of archives.
After this operation, 6815 kB disk space will be freed.
Get:1 https://pkg.jenkins.io/debian binary/ jenkins 2.517 [87.1 MB]
Fetched 87.1 MB in 1min 45s (827 kB/s)
(Reading database ... 110211 files and directories currently installed.)
Preparing to unpack .../archives/jenkins_2.517_all.deb ...
Unpacking jenkins (2.517) over (2.504.2) ...
Setting up jenkins (2.517) ...
sureshk@SSMS:~/devops-build$ sudo systemctl start jenkins
sureshk@SSMS:~/devops-build$ sudo systemctl enable jenkins
Synchronizing state of jenkins.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable jenkins
sureshk@SSMS:~/devops-build$
```

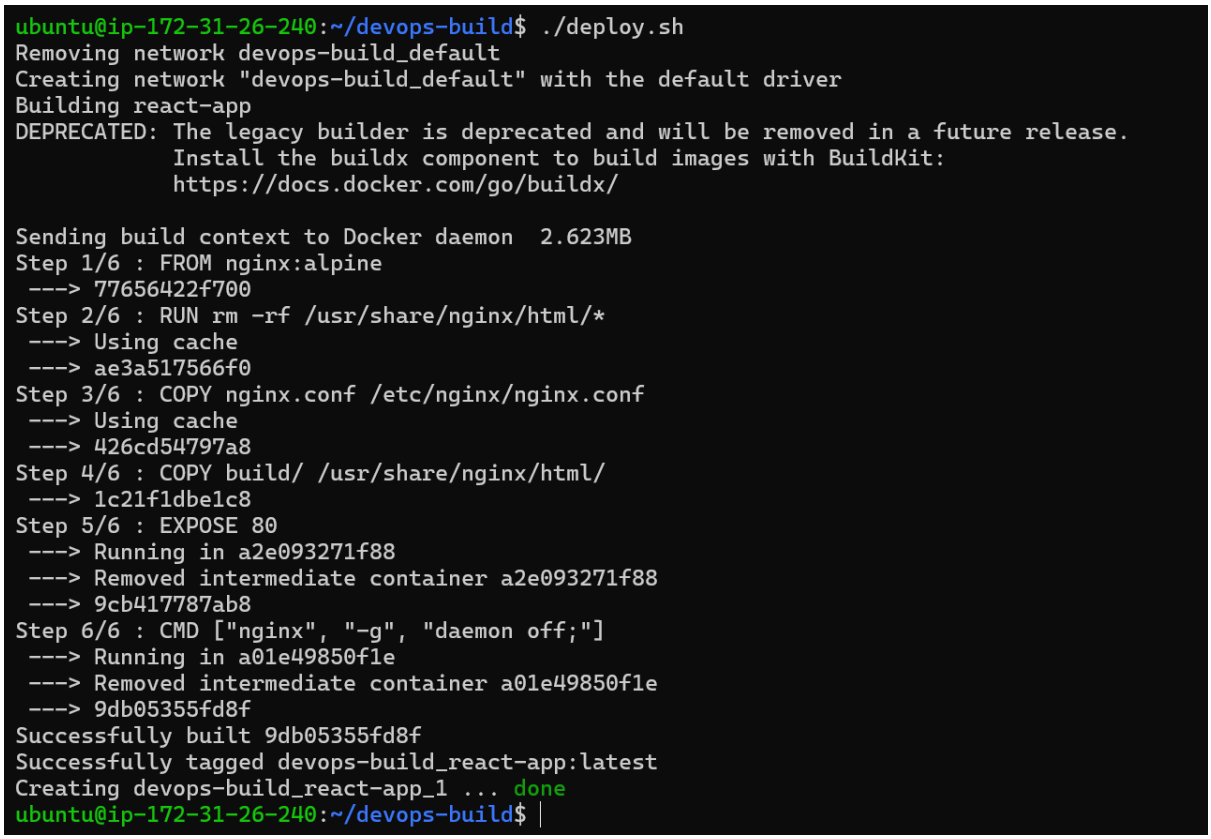
## Creating EC2 Instance:



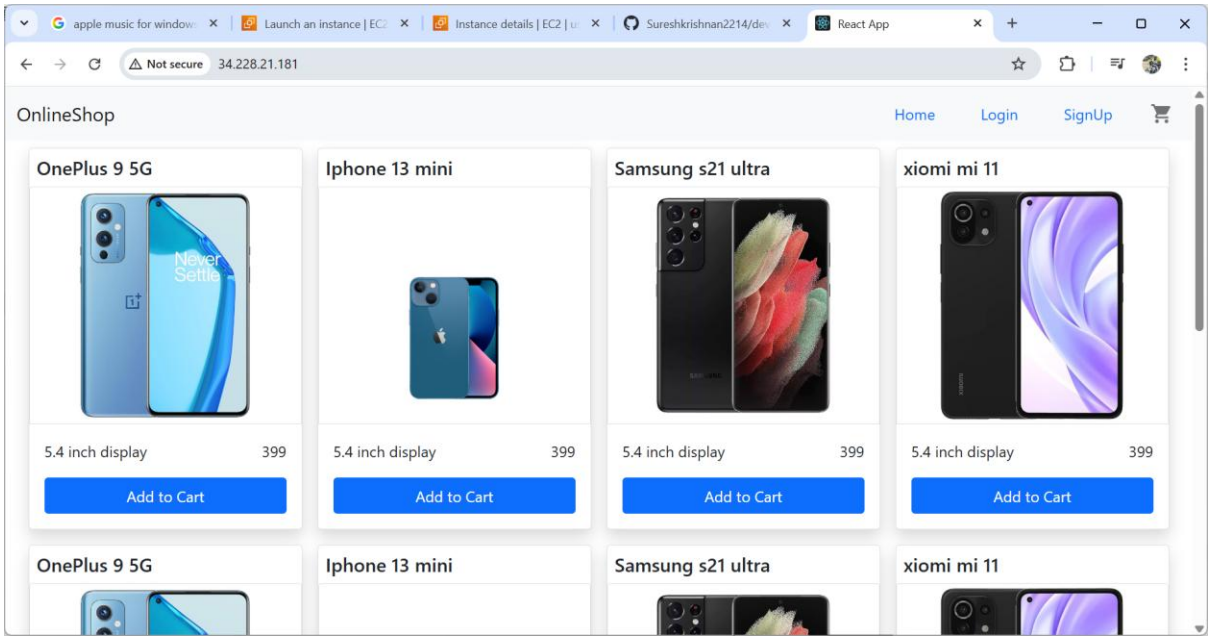



Deploying Project:



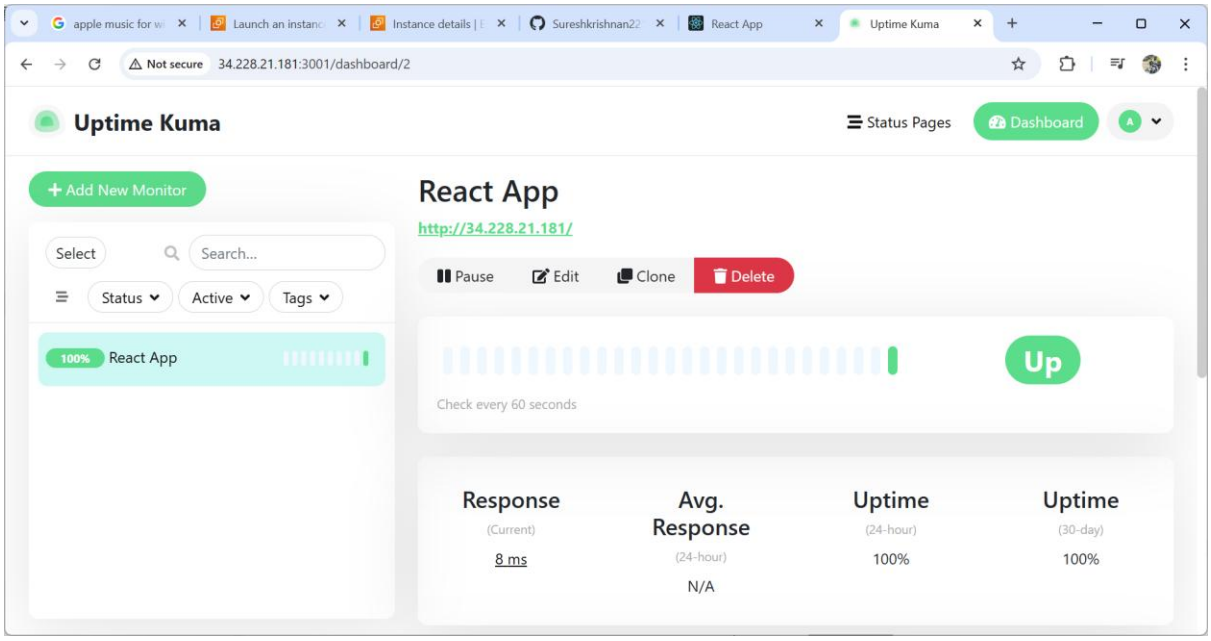



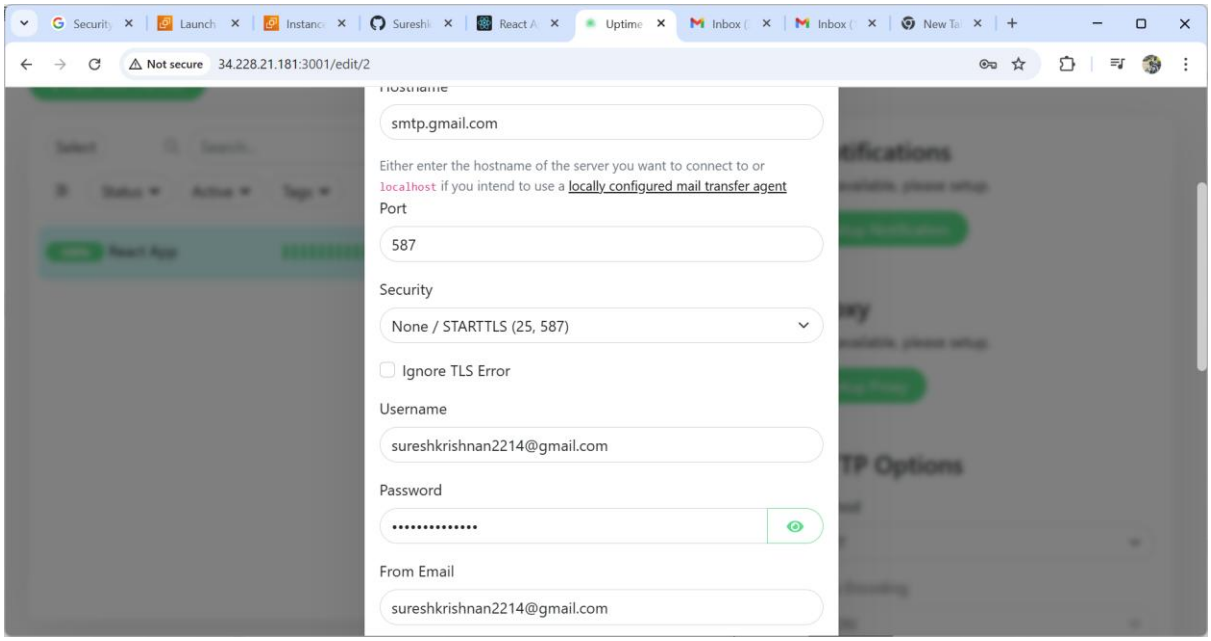
Output:




Monitoring:

```
ubuntu@ip-172-31-26-240:~/devops-build$ docker volume create uptime-kuma
uptime-kuma
ubuntu@ip-172-31-26-240:~/devops-build$ 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
340bf62762f37c75dabc3f11dc0336404912a950a5852efc23c4ee3d1e84c8be
```


Not secure 34.228.21.181:3001/dashboard/2
Uptime Kuma
Status Pages
Dashboard
+ Add New Monitor
Select
Search...
Status
Active
Tags
100% React App
React App
http://34.228.21.181/
Pause
Edit
Clone
Delete
Up
Check every 60 seconds
Response
(Current)
8 ms
Avg. Response
(24-hour)
N/A
Uptime
(24-hour)
100%
Uptime
(30-day)
100%


Not secure 34.228.21.181:3001/edit/2
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
From Email
sureshkrishnan2214@gmail.com