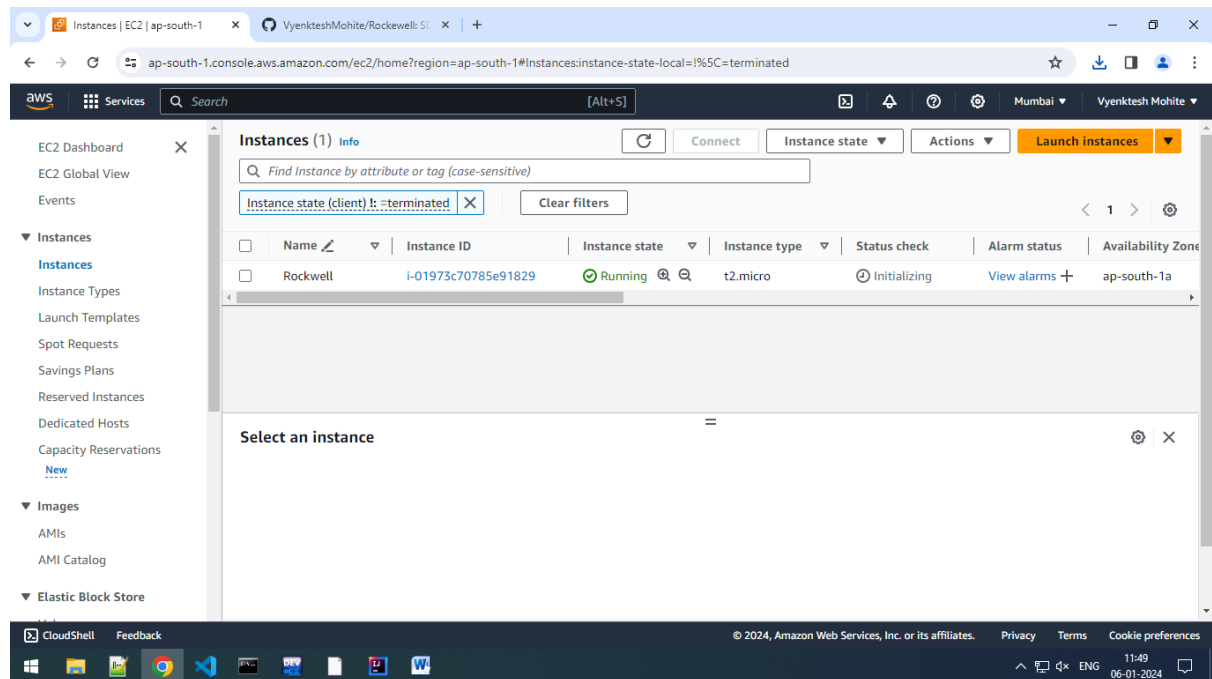


PRN=230945920111

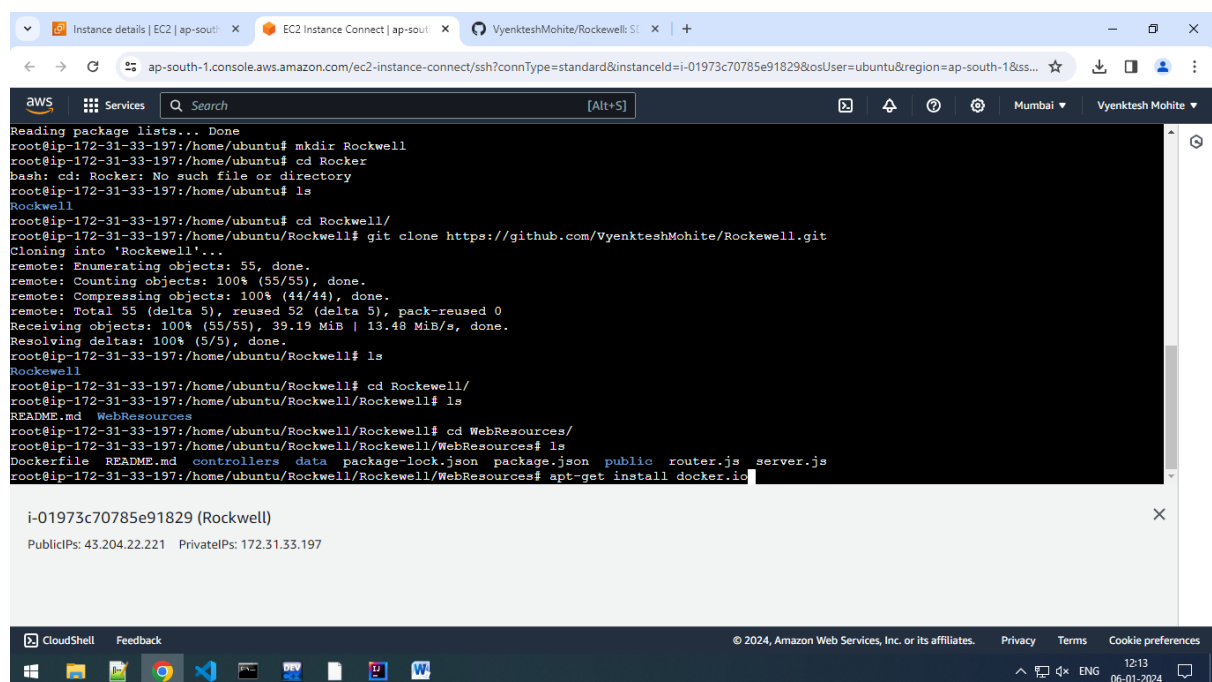
Name=Vyanktesh Vishwanath Mohite

Steps:-

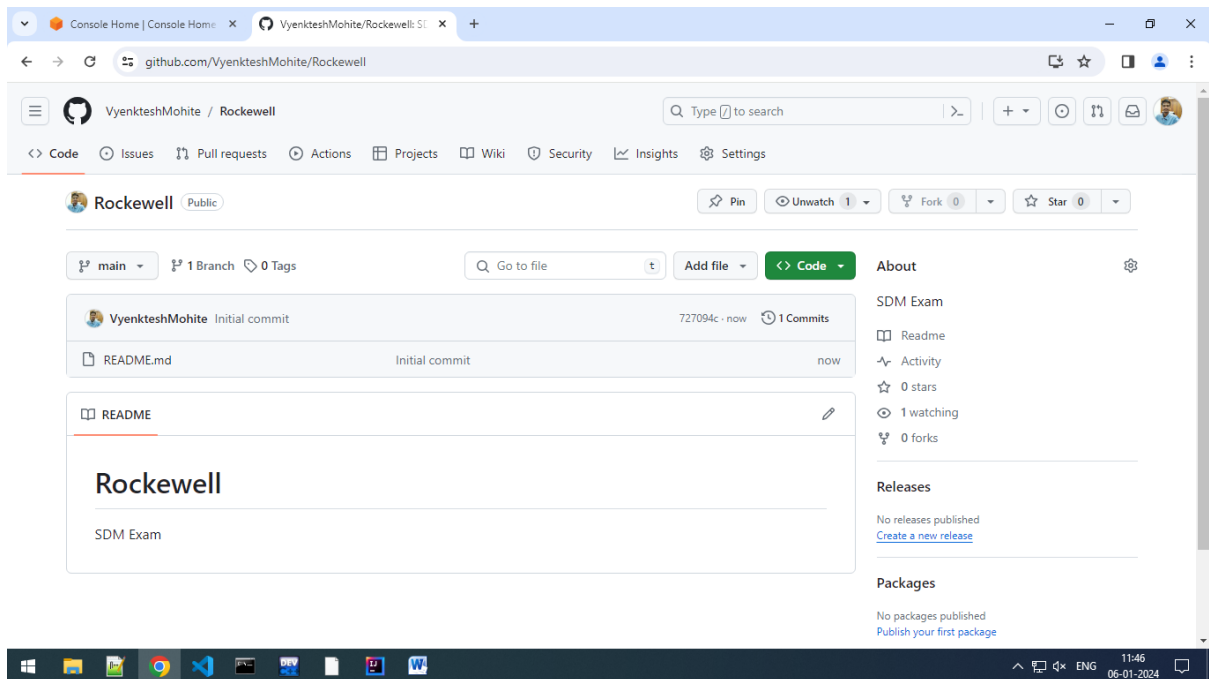
## 1.created VM EC2



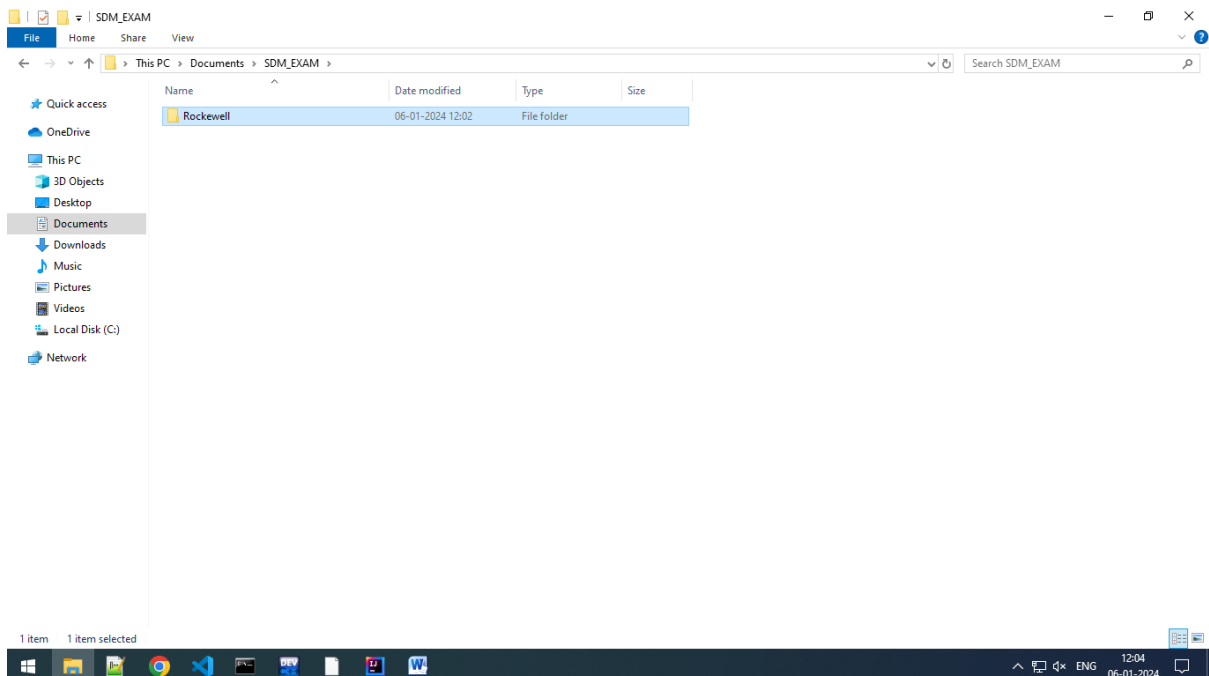
## 2. EC2 Engine newly created



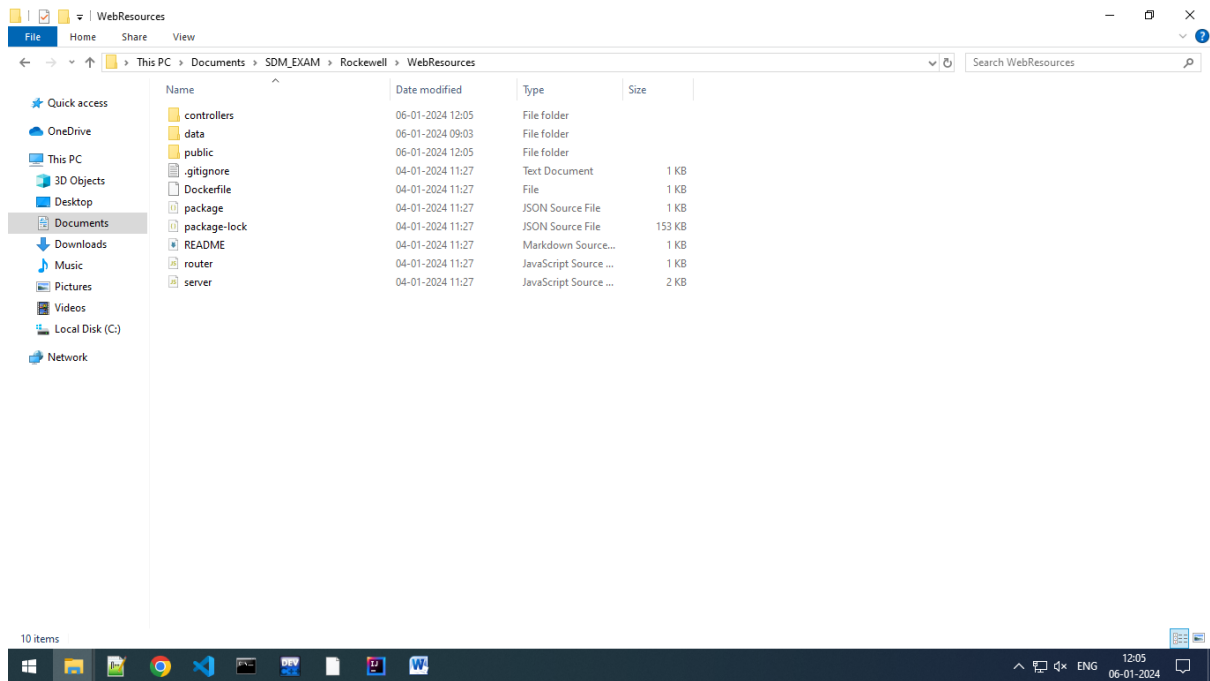
### 3. created git repo



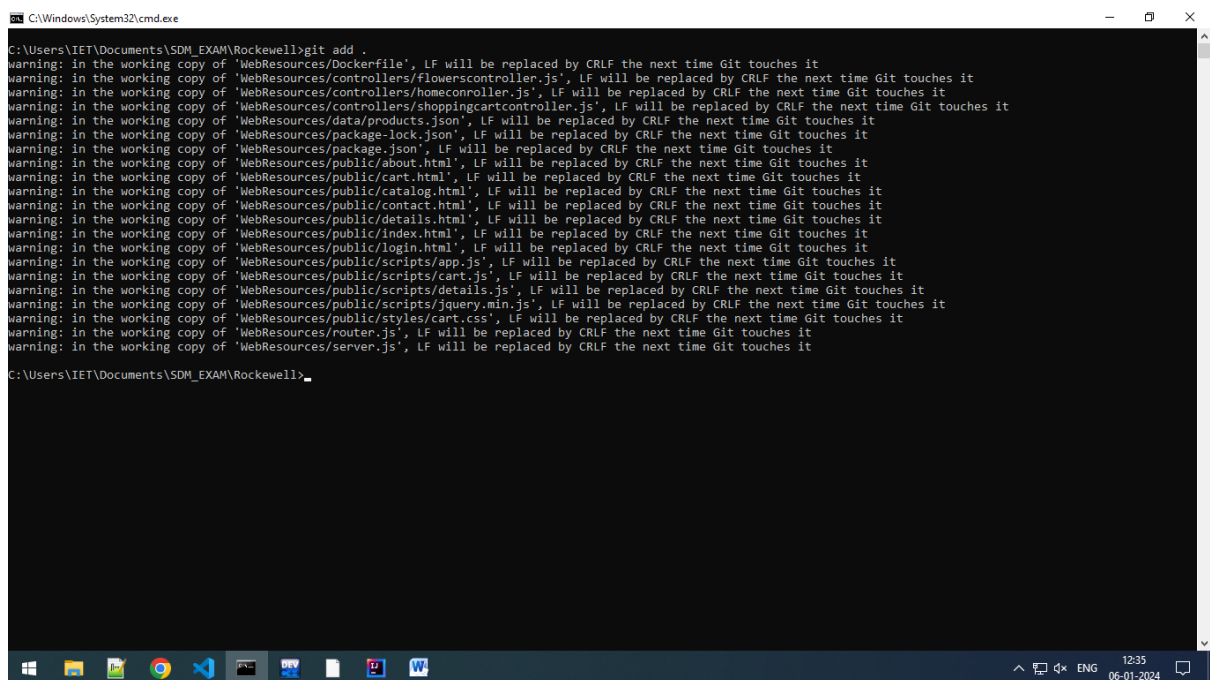
### 4. clone into local machine



#### 4.clone into local machine



#### 5.git add .



## 5. Git commit -m "message"

```
C:\Windows\System32\cmd.exe
C:\Users\IET\Documents\SDM_EXAM\Rockewell>git commit -m "updated docker files"
[main 31bf67e] updated docker files
44 files changed, 4357 insertions(+)
create mode 100644 WebResources/.gitignore
create mode 100644 WebResources/Dockerfile
create mode 100644 WebResources/README.md
create mode 100644 WebResources/controllers/flowerscontroller.js
create mode 100644 WebResources/controllers/homecontroller.js
create mode 100644 WebResources/controllers/shoppingcartcontroller.js
create mode 100644 WebResources/data/products.json
create mode 100644 WebResources/package-lock.json
create mode 100644 WebResources/package.json
create mode 100644 WebResources/public/about.html
create mode 100644 WebResources/public/cart.html
create mode 100644 WebResources/public/catalog.html
create mode 100644 WebResources/public/contact.html
create mode 100644 WebResources/public/details.html
create mode 100644 WebResources/public/images/carnation.jpg
create mode 100644 WebResources/public/images/dahlia.jpg
create mode 100644 WebResources/public/images/flowers.jpg
create mode 100644 WebResources/public/images/gerbera.jpg
create mode 100644 WebResources/public/images/greenhouse/greenhouse1.jpg
create mode 100644 WebResources/public/images/greenhouse/greenhouse2.jpg
create mode 100644 WebResources/public/images/greenhouse/greenhouse3.jpg
create mode 100644 WebResources/public/images/greenhouse/greenhouse4.jpg
create mode 100644 WebResources/public/images/greenhouse/greenhouse5.jpg
create mode 100644 WebResources/public/images/greenhouse/greenhouse6.jpg
create mode 100644 WebResources/public/images/greenhouse/greenhouse7.jpg
create mode 100644 WebResources/public/images/greenhouse/greenhouse8.jpg
create mode 100644 WebResources/public/images/jasmine.jpg
create mode 100644 WebResources/public/images/lily.jpg
create mode 100644 WebResources/public/images/lotus.jpg
create mode 100644 WebResources/public/images/marigold.jpg
create mode 100644 WebResources/public/images/rose.jpg
create mode 100644 WebResources/public/images/transflower.png
create mode 100644 WebResources/public/images/transflowerfarm.jpg
create mode 100644 WebResources/public/index.html
create mode 100644 WebResources/public/login.html
create mode 100644 WebResources/public/register.html
create mode 100644 WebResources/public/scripts/app.js
create mode 100644 WebResources/public/scripts/cart.js
create mode 100644 WebResources/public/scripts/details.js
create mode 100644 WebResources/public/scripts/jquery.min.js
```

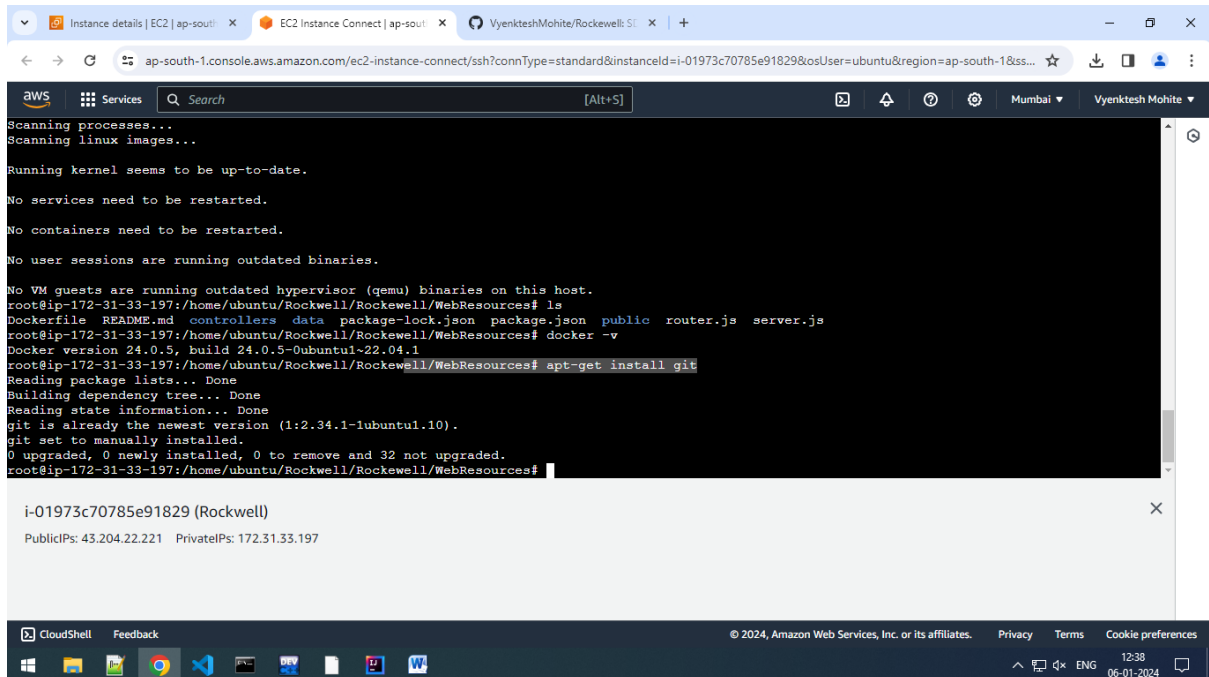
## 6. Git push

```
C:\Windows\System32\cmd.exe
create mode 100644 WebResources/public/images/jasmine.jpg
create mode 100644 WebResources/public/images/lily.jpg
create mode 100644 WebResources/public/images/lotus.jpg
create mode 100644 WebResources/public/images/marigold.jpg
create mode 100644 WebResources/public/images/rose.jpg
create mode 100644 WebResources/public/images/transflower.png
create mode 100644 WebResources/public/images/transflowerfarm.jpg
create mode 100644 WebResources/public/index.html
create mode 100644 WebResources/public/login.html
create mode 100644 WebResources/public/register.html
create mode 100644 WebResources/public/scripts/app.js
create mode 100644 WebResources/public/scripts/cart.js
create mode 100644 WebResources/public/scripts/details.js
create mode 100644 WebResources/public/scripts/jquery.min.js
create mode 100644 WebResources/public/styles/cart.css
create mode 100644 WebResources/public/styles/style.css
create mode 100644 WebResources/router.js
create mode 100644 WebResources/server.js

C:\Users\IET\Documents\SDM_EXAM\Rockewell>git push
Enumerating objects: 53, done.
Counting objects: 100% (53/53), done.
Delta compression using up to 4 threads
Compressing objects: 100% (48/48), done.
Writing objects: 100% (52/52), 39.19 MiB | 1.13 MiB/s, done.
Total 52 (delta 5), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (5/5), done.
To https://github.com/VyenkteshMohite/Rockewell.git
   e1474c4..31bf67e  main -> main

C:\Users\IET\Documents\SDM_EXAM\Rockewell>
```

## 7.Updated /install git in aws vm



The screenshot shows the AWS CloudShell interface with a terminal window. The terminal output indicates that the system is up-to-date and that git is already installed at version 1:2.34.1-1ubuntu1.10. The user has manually installed it, and the system shows 0 upgraded, 0 newly installed, and 0 to remove and 32 not upgraded.

```
Scanning processes...
Scanning linux images...

Running kernel seems to be up-to-date.

No services need to be restarted.

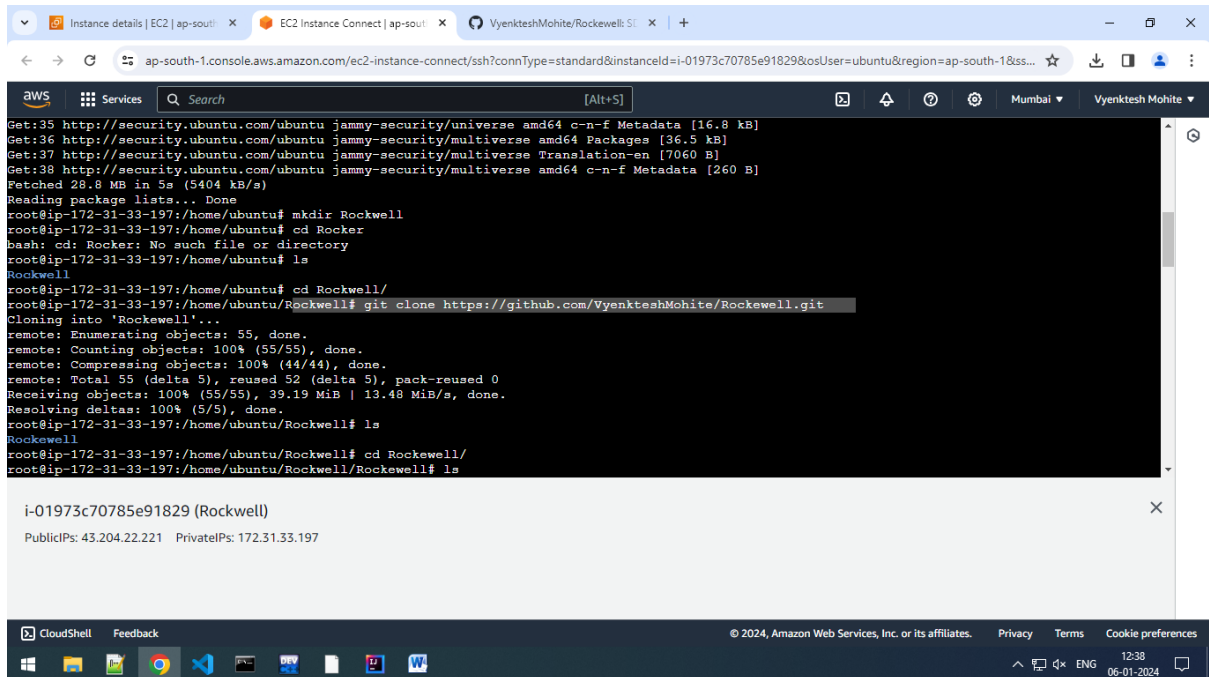
No containers need to be restarted.

No user sessions are running outdated binaries.

No VM guests are running outdated hypervisor (qemu) binaries on this host.
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources# ls
Dockerfile README.md controllers data package-lock.json package.json public router.js server.js
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources# docker --v
Docker version 24.0.5, build 24.0.5-0ubuntu1-22.04.1
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources# apt-get install git
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
git is already the newest version (1:2.34.1-1ubuntu1.10).
git set to manually installed.
0 upgraded, 0 newly installed, 0 to remove and 32 not upgraded.
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources#
```

i-01973c70785e91829 (Rockwell)  
PublicIPs: 43.204.22.221 PrivateIPs: 172.31.33.197

## 8.Clone git repo

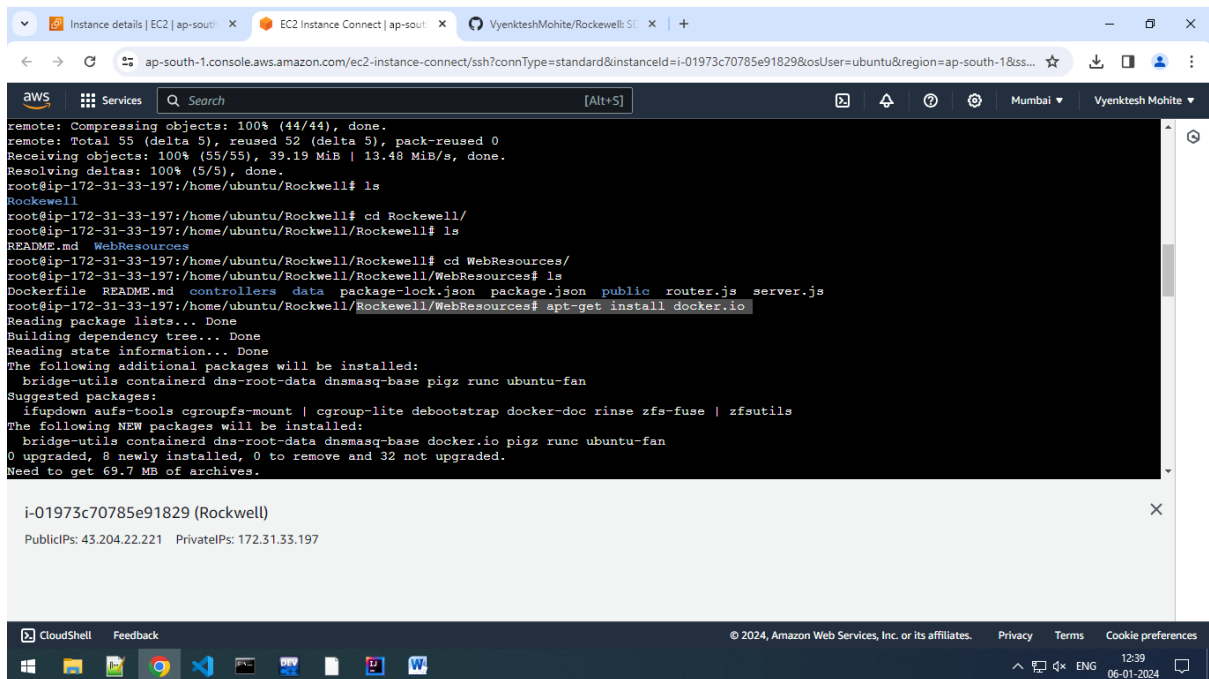


The screenshot shows the AWS CloudShell interface with a terminal window. The terminal output shows the cloning of a git repository from GitHub. The repository is successfully cloned into the 'Rockwell' directory, and the user is now in the 'Rockwell' directory.

```
Get:35 http://security.ubuntu.com/ubuntu jammy-security/universe amd64 c-n-f Metadata [16.8 kB]
Get:36 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 Packages [36.5 kB]
Get:37 http://security.ubuntu.com/ubuntu jammy-security/multiverse Translation-en [7060 B]
Get:38 http://security.ubuntu.com/ubuntu jammy-security/multiverse amd64 c-n-f Metadata [260 B]
Fetched 28.8 MB in 5s (5404 kB/s)
Reading package lists... Done
root@ip-172-31-33-197:/home/ubuntu# mkdir Rockwell
root@ip-172-31-33-197:/home/ubuntu# cd Rocker
bash: cd: Rocker: No such file or directory
root@ip-172-31-33-197:/home/ubuntu# ls
Rockwell
root@ip-172-31-33-197:/home/ubuntu# cd Rockwell/
root@ip-172-31-33-197:/home/ubuntu/Rockwell# git clone https://github.com/VyenkteshMohite/Rockwell.git
Cloning into 'Rockwell'...
remote: Enumerating objects: 55, done.
remote: Counting objects: 100% (55/55), done.
remote: Compressing objects: 100% (44/44), done.
remote: Total 55 (delta 5), reused 52 (delta 5), pack-reused 0
Receiving objects: 100% (55/55), 39.19 MiB | 13.48 MiB/s, done.
Resolving deltas: 100% (5/5), done.
root@ip-172-31-33-197:/home/ubuntu/Rockwell# ls
Rockwell
root@ip-172-31-33-197:/home/ubuntu/Rockwell# cd Rockwell/
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell# ls
```

i-01973c70785e91829 (Rockwell)  
PublicIPs: 43.204.22.221 PrivateIPs: 172.31.33.197

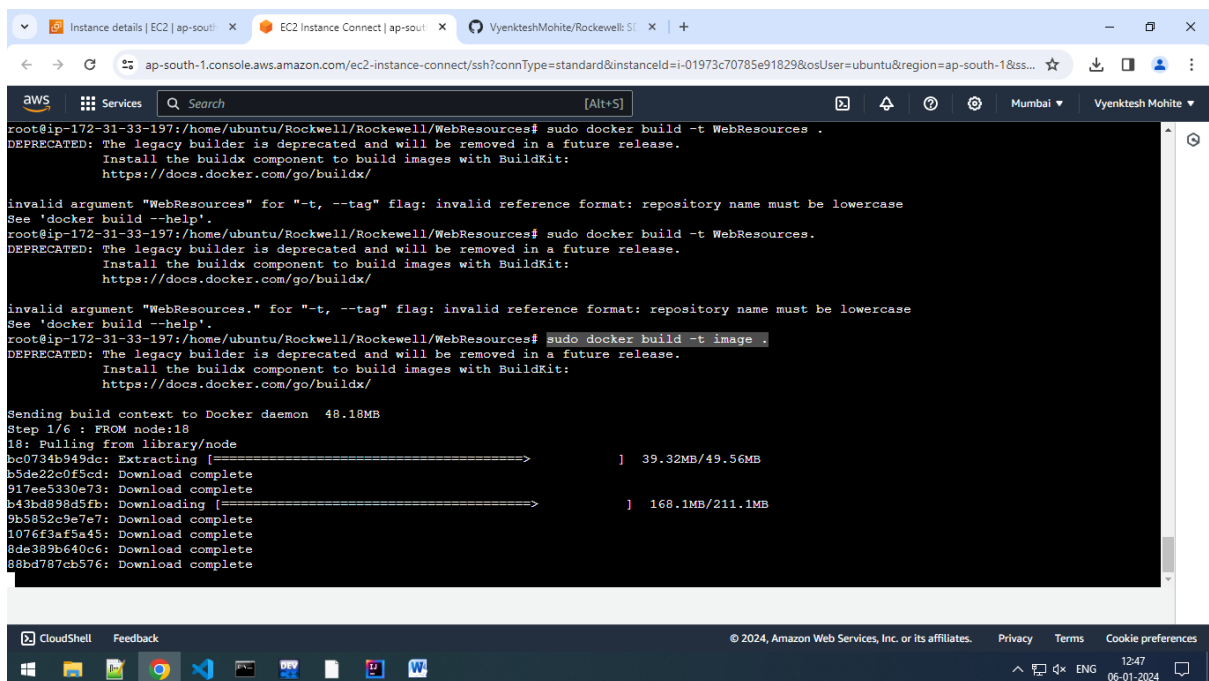
## 9. Install docker into the repo



The screenshot shows an AWS CloudShell terminal window. The user is in a directory named 'Rockwell' and has run 'ls' showing 'README.md' and 'WebResources'. They then run 'cd WebResources/' and 'ls' showing 'Dockerfile', 'README.md', 'controllers', 'data', 'package-lock.json', 'package.json', 'public', 'router.js', and 'server.js'. Finally, they run 'apt-get install docker.io'. The terminal output shows the package list being read, dependencies being resolved, and the installation of 'docker.io' along with several other packages like 'bridge-utils', 'containerd', 'dns-root-data', 'dnsmasq-base', 'pigz', 'runc', and 'ubuntu-fan'. The total size of the packages to be installed is 69.7 MB.

```
remote: Compressing objects: 100% (44/44), done.
remote: Total 55 (delta 5), reused 52 (delta 5), pack-reused 0
Receiving objects: 100% (55/55), 39.19 MiB | 13.48 MiB/s, done.
Resolving deltas: 100% (5/5), done.
root@ip-172-31-33-197: /home/ubuntu/Rockwell# ls
Rockwell
root@ip-172-31-33-197: /home/ubuntu/Rockwell# cd Rockwell/
root@ip-172-31-33-197: /home/ubuntu/Rockwell/Rockwell# ls
README.md  WebResources
root@ip-172-31-33-197: /home/ubuntu/Rockwell/Rockwell# cd WebResources/
root@ip-172-31-33-197: /home/ubuntu/Rockwell/Rockwell/WebResources# ls
Dockerfile  README.md  controllers  data  package-lock.json  package.json  public  router.js  server.js
root@ip-172-31-33-197: /home/ubuntu/Rockwell/Rockwell/WebResources# apt-get install docker.io
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base pigz runc ubuntu-fan
Suggested packages:
  ifupdown aufs-tools cgroupfs-mount | cgroup-lite debootstrap docker-doc rinse zfs-fuse | zfsutils
The following NEW packages will be installed:
  bridge-utils containerd dns-root-data dnsmasq-base docker.io pigz runc ubuntu-fan
0 upgraded, 8 newly installed, 0 to remove and 32 not upgraded.
Need to get 69.7 MB of archives.
```

## 10. Sudo Docker build -t image .



The screenshot shows the same AWS CloudShell terminal window. The user runs 'sudo docker build -t WebResources .' and receives a deprecation warning. They then run 'sudo docker build -t WebResources.' and receive another deprecation warning. Finally, they run 'sudo docker build -t image .' and the build process begins. The terminal output shows the build context being sent to the Docker daemon, the progress of pulling the 'node' image from the library, and the download progress of various files.

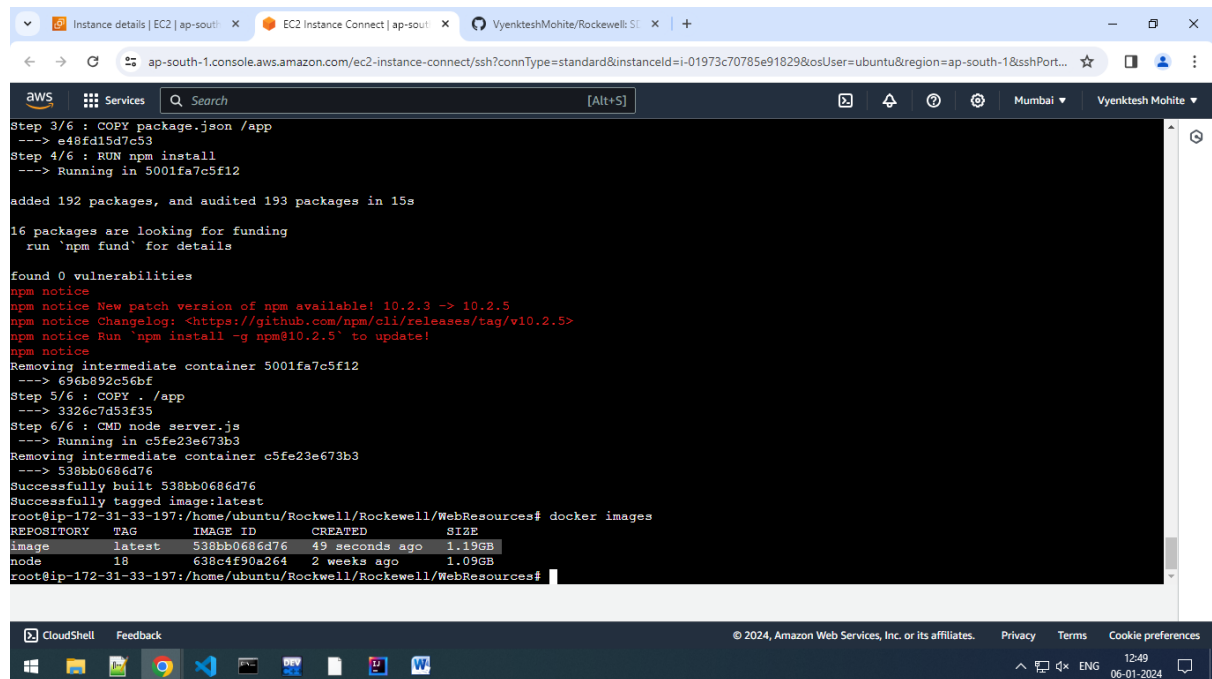
```
root@ip-172-31-33-197: /home/ubuntu/Rockwell/Rockwell/WebResources# sudo docker build -t WebResources .
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
Install the buildx component to build images with BuildKit:
https://docs.docker.com/go/buildx/

invalid argument "WebResources" for "-t, --tag" flag: invalid reference format: repository name must be lowercase
See 'docker build --help'.
root@ip-172-31-33-197: /home/ubuntu/Rockwell/Rockwell/WebResources# sudo docker build -t WebResources.
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/

invalid argument "WebResources." for "-t, --tag" flag: invalid reference format: repository name must be lowercase
See 'docker build --help'.
root@ip-172-31-33-197: /home/ubuntu/Rockwell/Rockwell/WebResources# sudo docker build -t image .
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 48.18MB
Step 1/6 : FROM node:18
18: Pulling from library/node
bc0734b949dc: Extracting [=====] 39.32MB/49.56MB
b5de22c0f5cd: Download complete
917ee5330e73: Download complete
b43bd898d5fb: Downloading [=====] 168.1MB/211.1MB
9b5852c9e7e7: Download complete
1076f3af5a45: Download complete
8de389b640c6: Download complete
88bd4787cb576: Download complete
```

## 11. Check docker images == docker images



The screenshot shows an AWS CloudShell terminal window. The terminal output displays the steps for installing Docker on an Ubuntu instance. It includes commands for copying package.json, running npm install, and listing Docker images. The output shows that Docker is installed successfully and the 'latest' image is available.

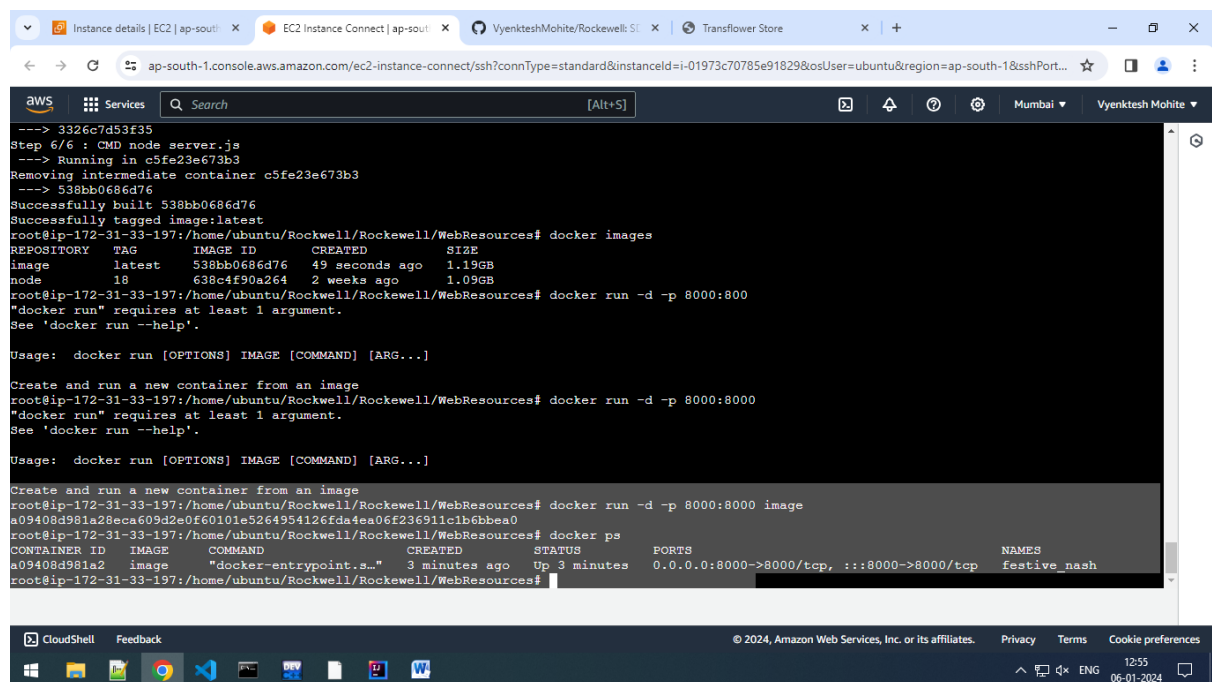
```
Step 3/6 : COPY package.json /app
----> e48fd15d7c53
Step 4/6 : RUN npm install
----> Running in 5001fa7c5f12

added 192 packages, and audited 193 packages in 15s

16 packages are looking for funding
  run `npm fund` for details

found 0 vulnerabilities
npm notice
npm notice New patch version of npm available! 10.2.3 -> 10.2.5
npm notice Changelog: <https://github.com/npm/cli/releases/tag/v10.2.5>
npm notice Run `npm install -g npm@10.2.5` to update!
npm notice
Removing intermediate container 5001fa7c5f12
----> 696b892c56bf
Step 5/6 : COPY . /app
----> 3326c7d53f35
Step 6/6 : CMD node server.js
----> Running in c5fe23e673b3
Removing intermediate container c5fe23e673b3
----> 538bb0686d76
Successfully built 538bb0686d76
Successfully tagged image:latest
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources# docker images
REPOSITORY   TAG       IMAGE ID       CREATED        SIZE
image        latest    538bb0686d76   49 seconds ago 1.19GB
node         18        638c4f90a264   2 weeks ago    1.09GB
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources#
```

## 12. Run image == docker run -d -p 8000:8000



The screenshot shows an AWS CloudShell terminal window. The terminal output displays the steps for running the Docker image. It includes commands for running the image with the -d flag and -p 8000:8000, and then checking the status of the container. The output shows that the container is running successfully.

```
----> 3326c7d53f35
Step 6/6 : CMD node server.js
----> Running in c5fe23e673b3
Removing intermediate container c5fe23e673b3
----> 538bb0686d76
Successfully built 538bb0686d76
Successfully tagged image:latest
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources# docker images
REPOSITORY   TAG       IMAGE ID       CREATED        SIZE
image        latest    538bb0686d76   49 seconds ago 1.19GB
node         18        638c4f90a264   2 weeks ago    1.09GB
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources# docker run -d -p 8000:8000
"docker run" requires at least 1 argument.
See 'docker run --help'.

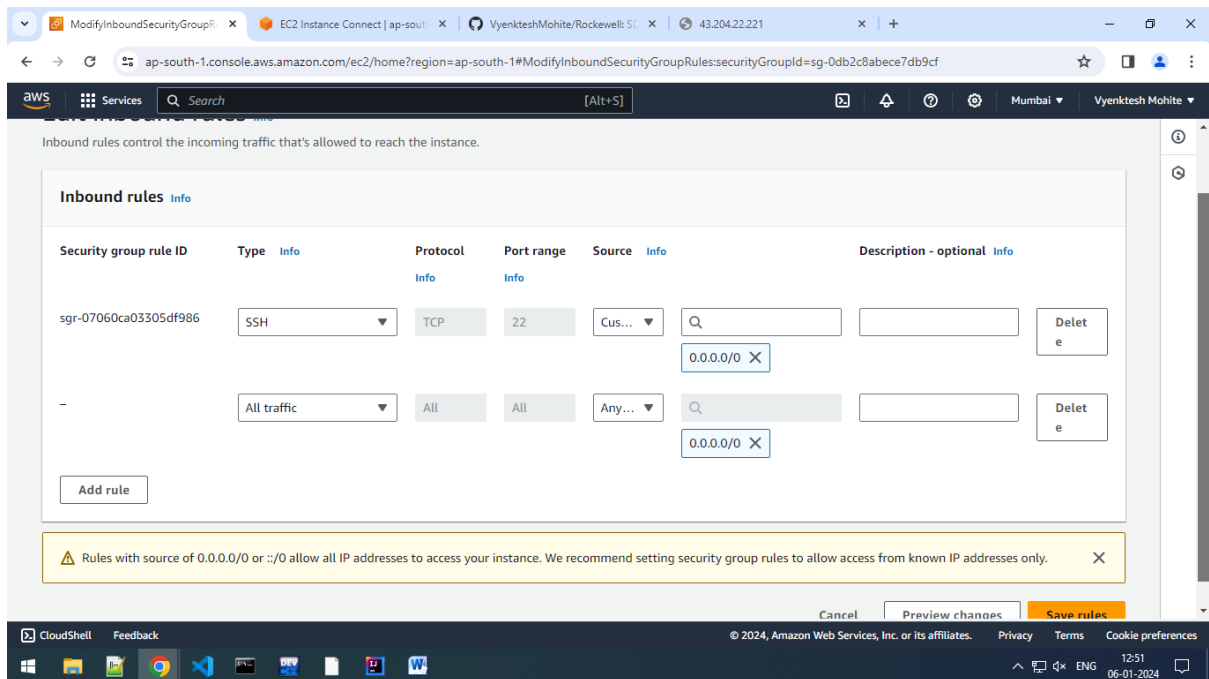
Usage:  docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Create and run a new container from an image
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources# docker run -d -p 8000:8000
"docker run" requires at least 1 argument.
See 'docker run --help'.

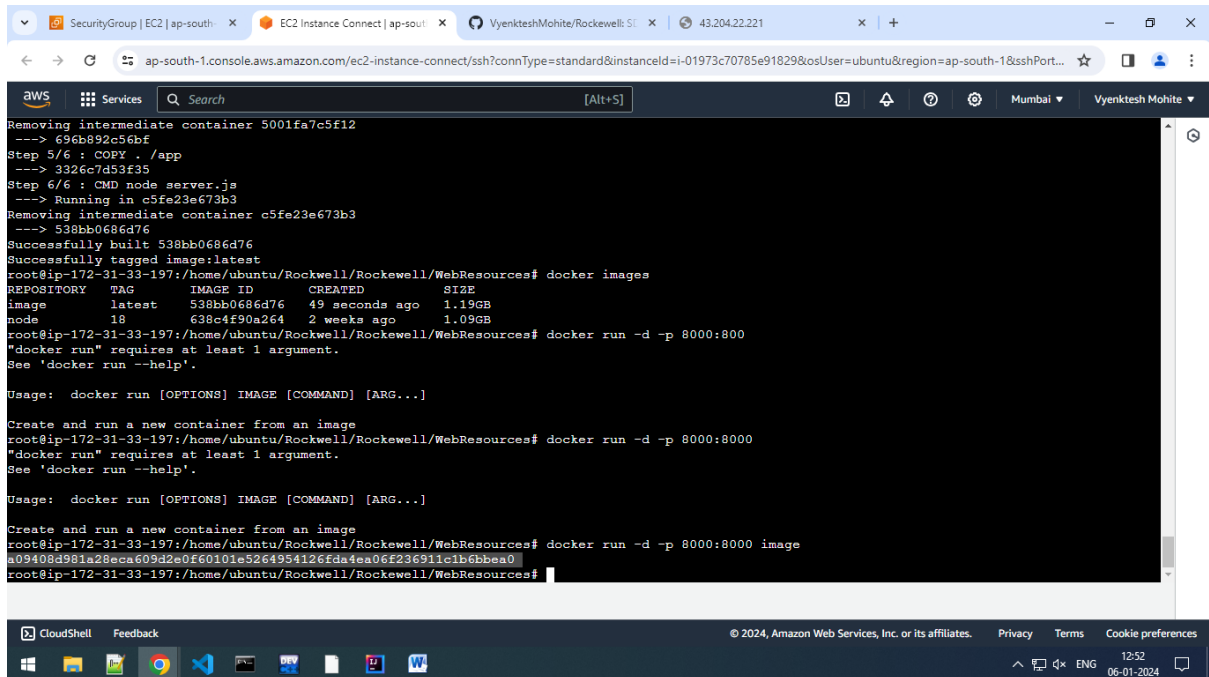
Usage:  docker run [OPTIONS] IMAGE [COMMAND] [ARG...]

Create and run a new container from an image
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources# docker run -d -p 8000:8000 image
a09408d981a28eca609d2e0f60101e5264954126fda4ea06f236911c1b6bbea0
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources# docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
a09408d981a2   image         "docker-entrypoint.s..." 3 minutes ago  Up 3 minutes  0.0.0.0:8000->8000/tcp, :::8000->8000/tcp  festive_nash
root@ip-172-31-33-197:/home/ubuntu/Rockwell/Rockwell/WebResources#
```

### 13. Enabling the all traffic from security and add security inbound rules



### 14. Running images id





## 15.OUTPUT:==

