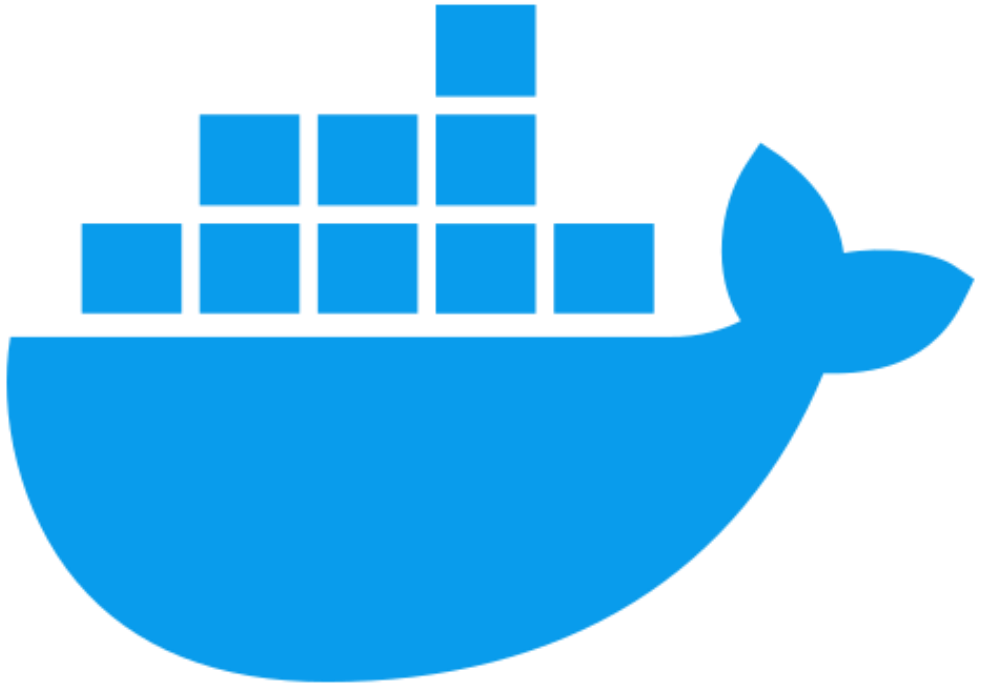


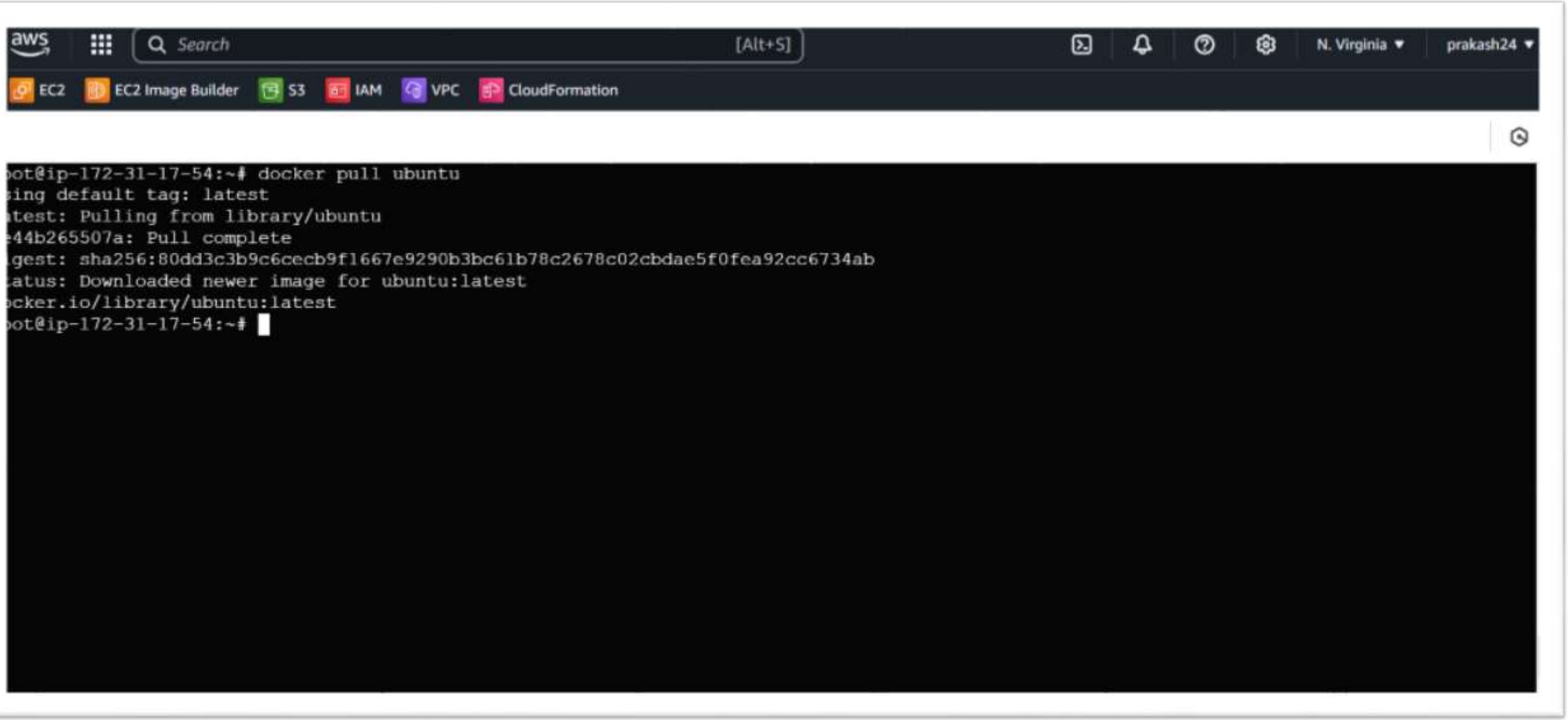
Module 3 Docker Assignment

Module 3 Docker Part 1
Assignment 1

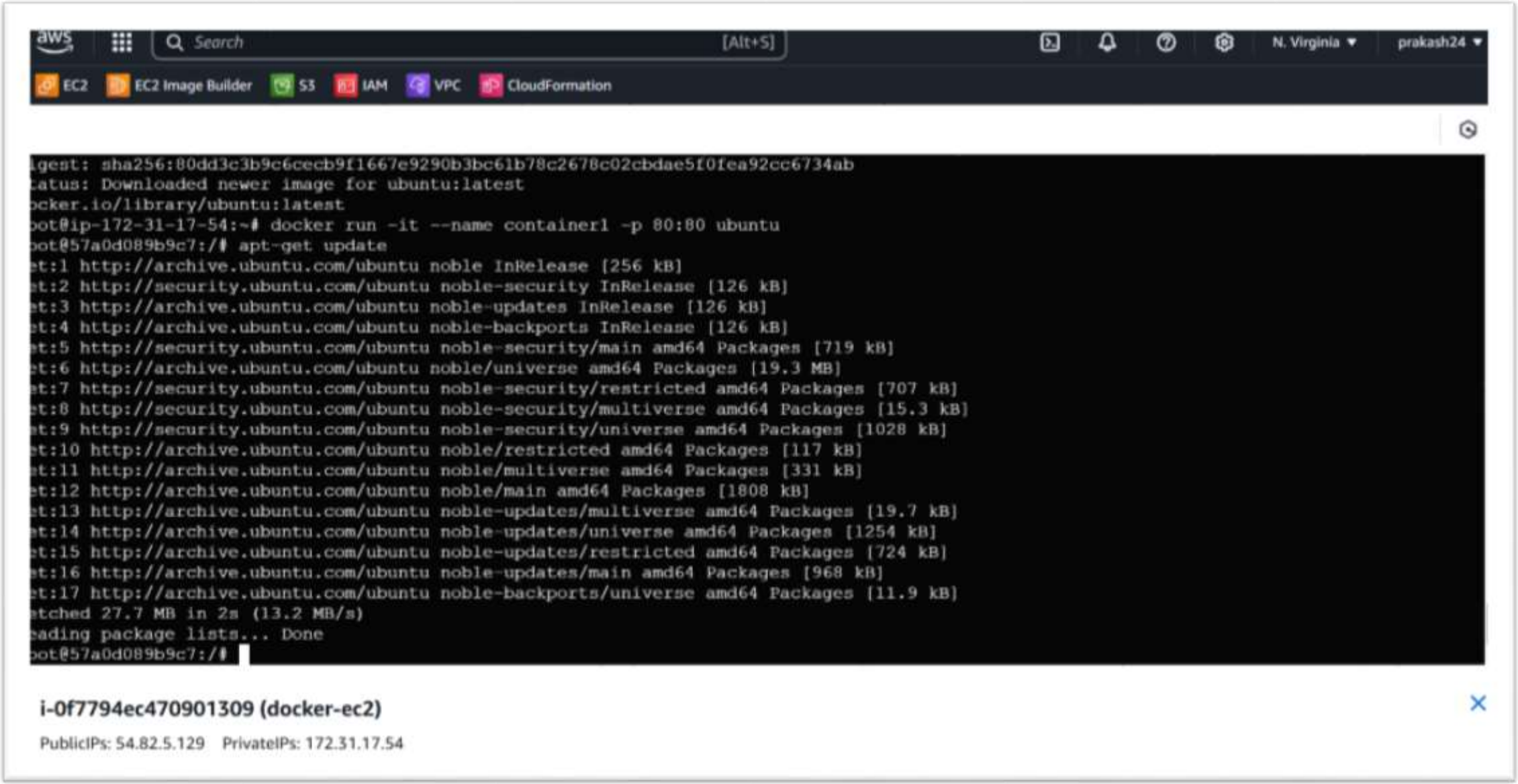
Tasks To Be Performed:

1. Pull Ubuntu container
2. Run this container and map port 80 on the local
3. Install Apache2 on this container
4. Check if you are able to access the Apache page on your browser

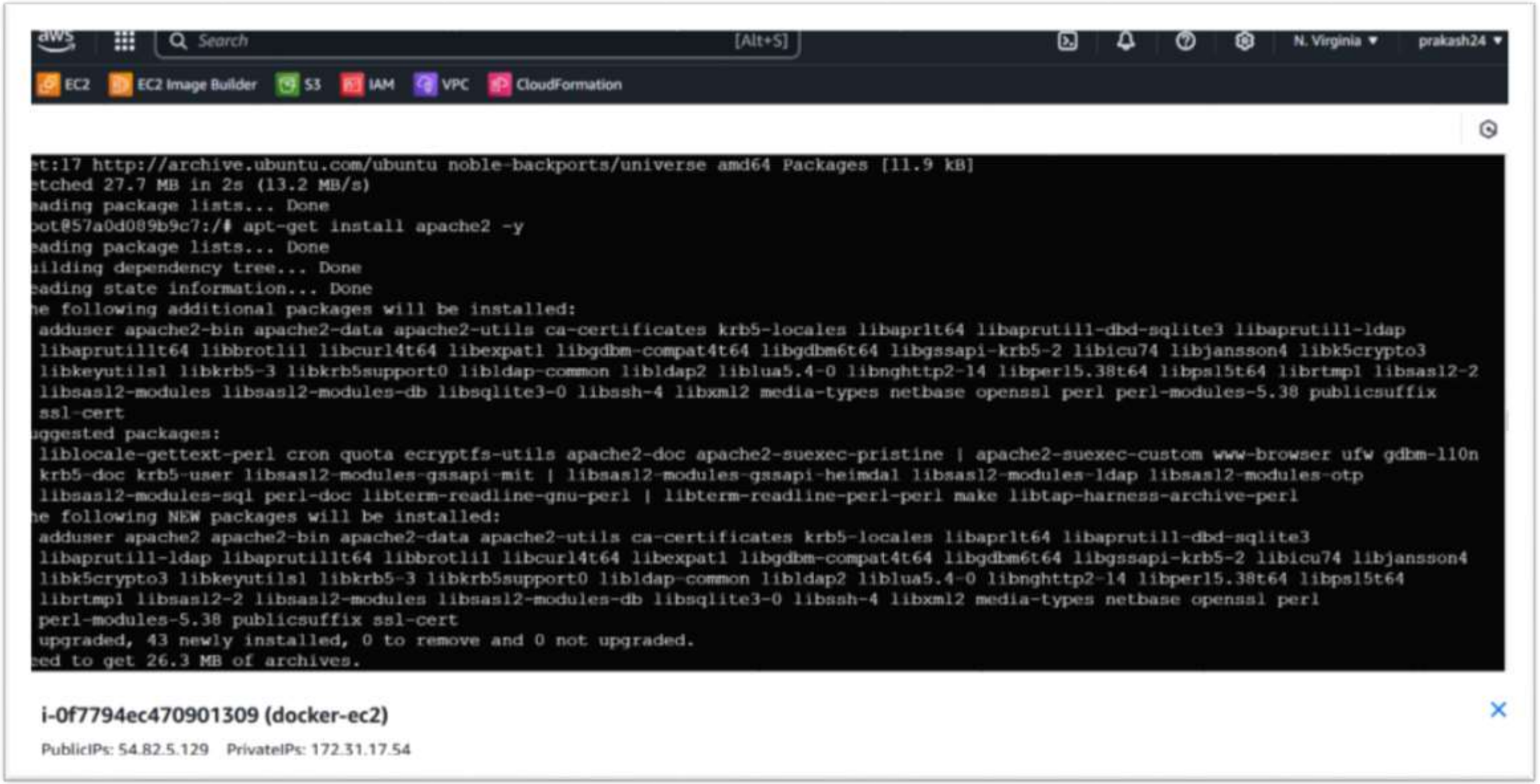
Pulling Ubuntu Image



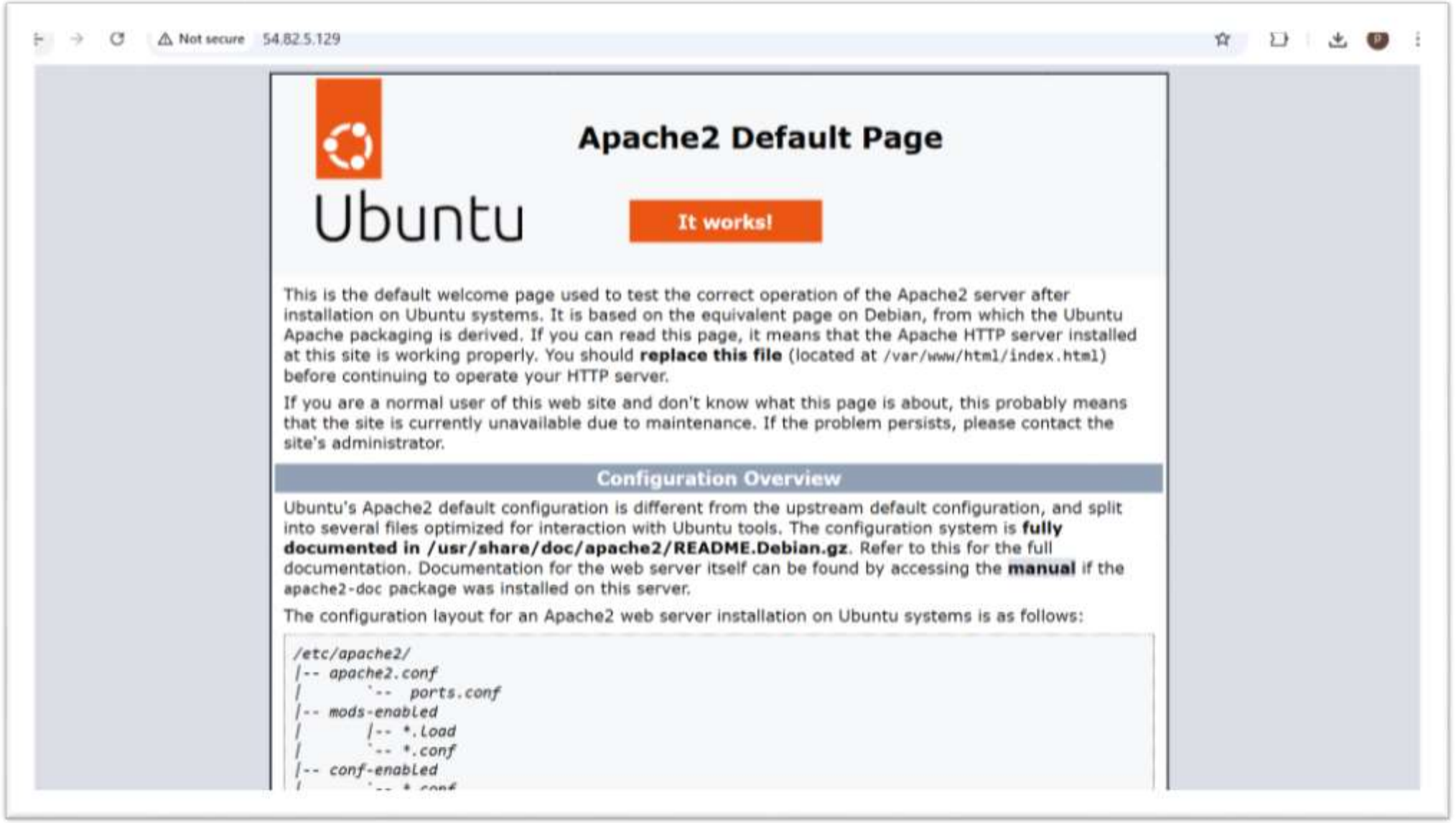
Running Ubuntu Container in port 80



Installing apache2 in Ubuntu Container



We can see apache2 home page running port 80 in Ubuntu Container

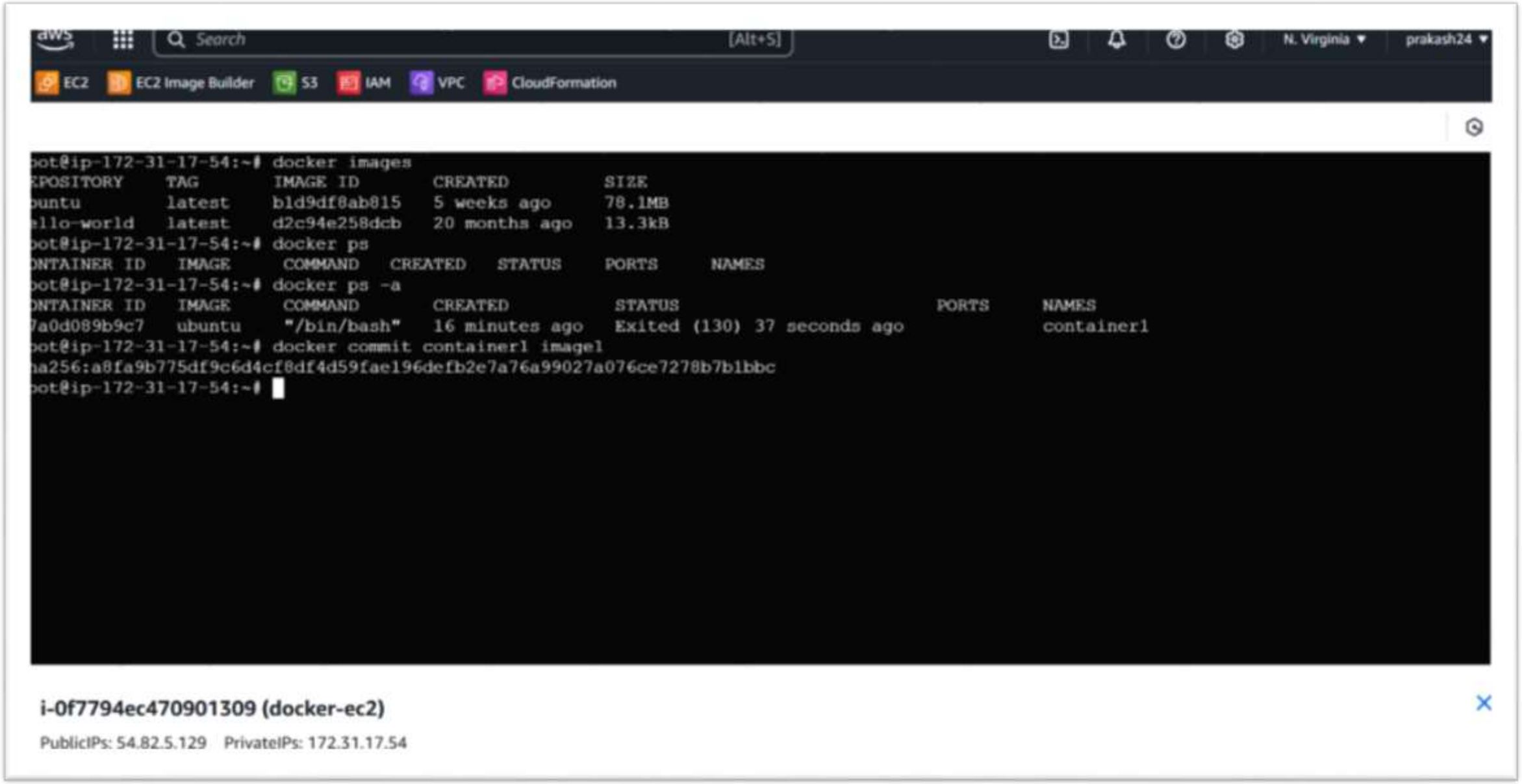


Module 3: Docker Part 1
Assignment - 2

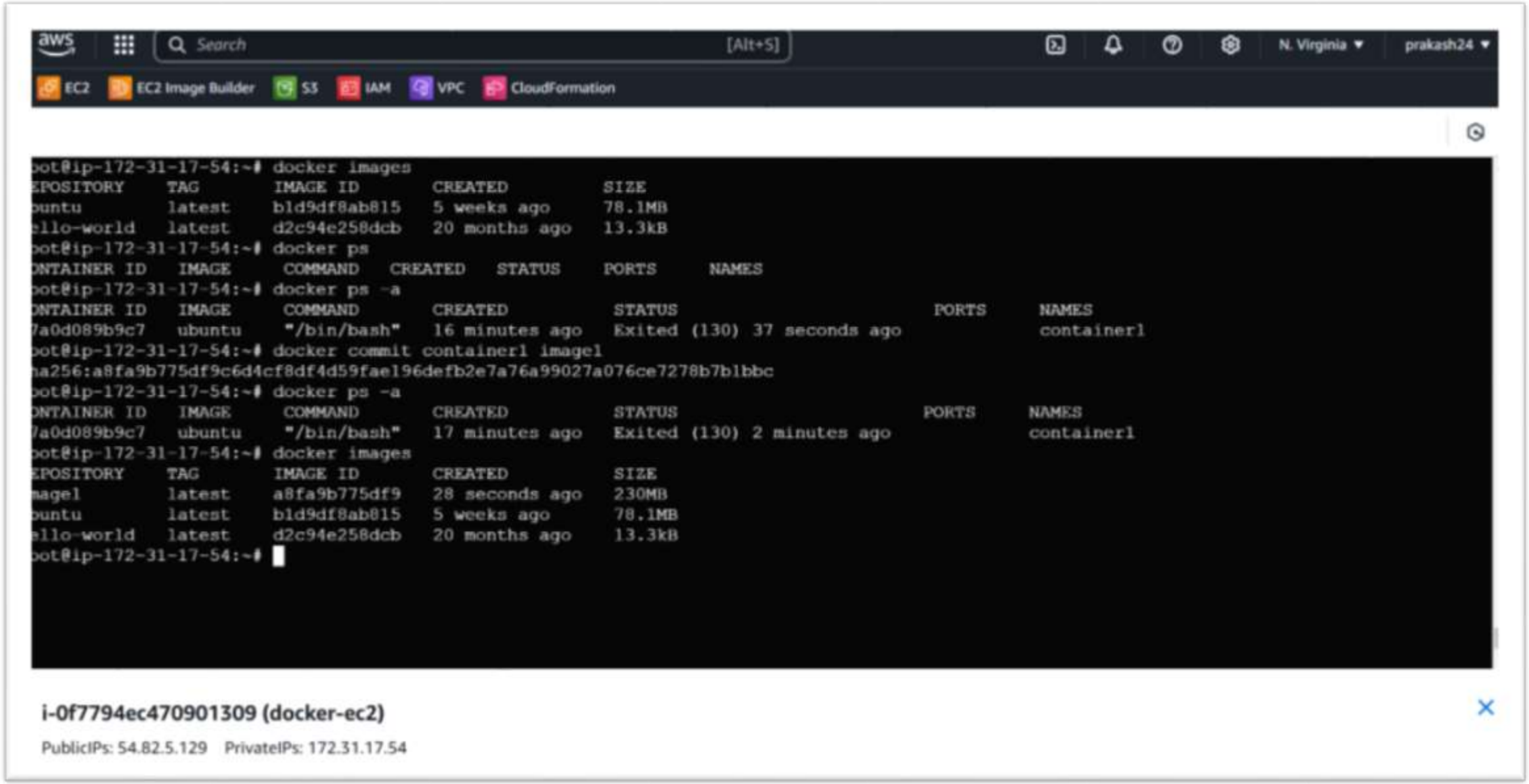
Tasks To Be Performed:

1. Save the image created in assignment 1 as a Docker image
2. Launch container from this new image and map the port to 81
3. Go inside the container and start the Apache2 service
4. Check if you are able to access it on the browser

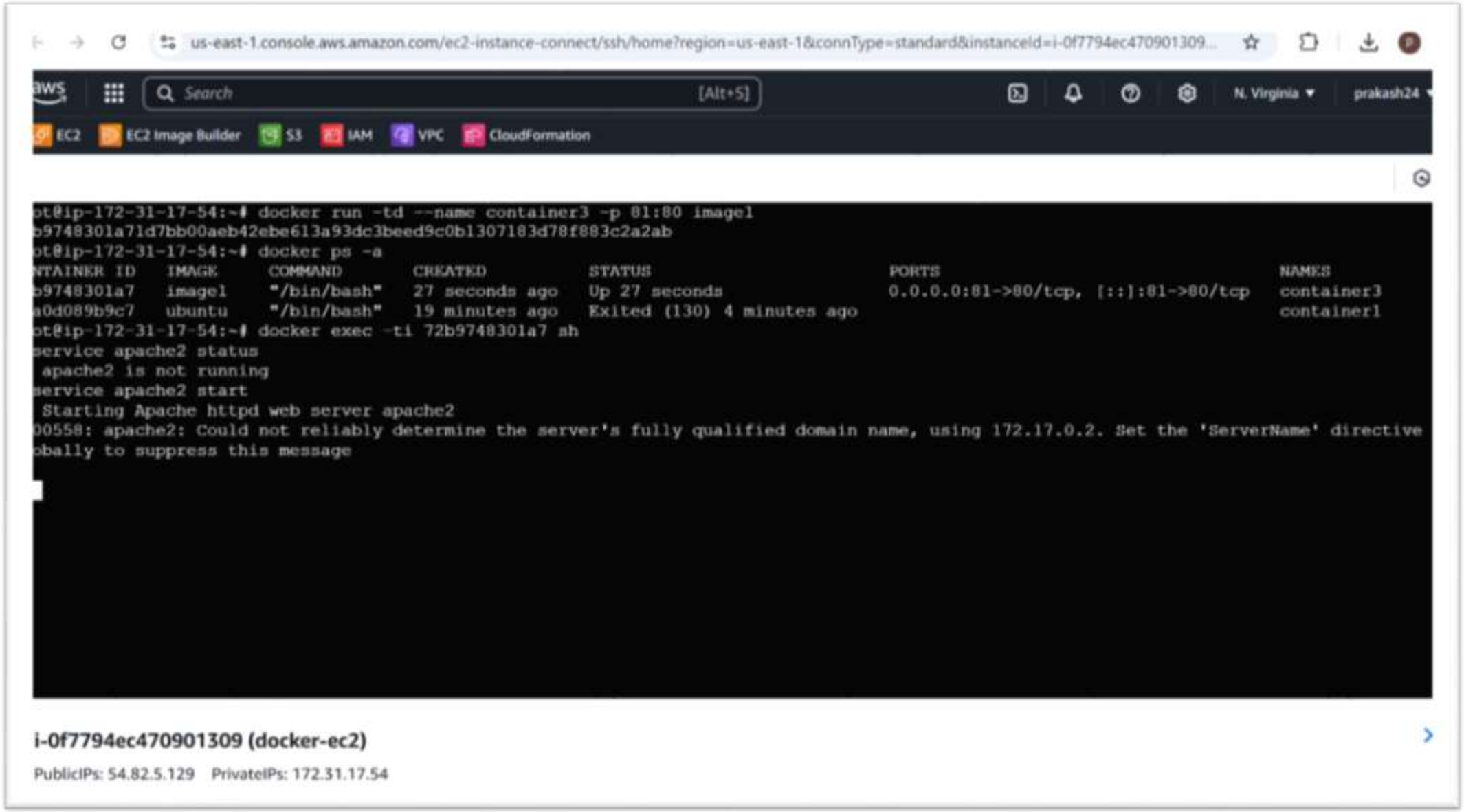
List of Docker images & container



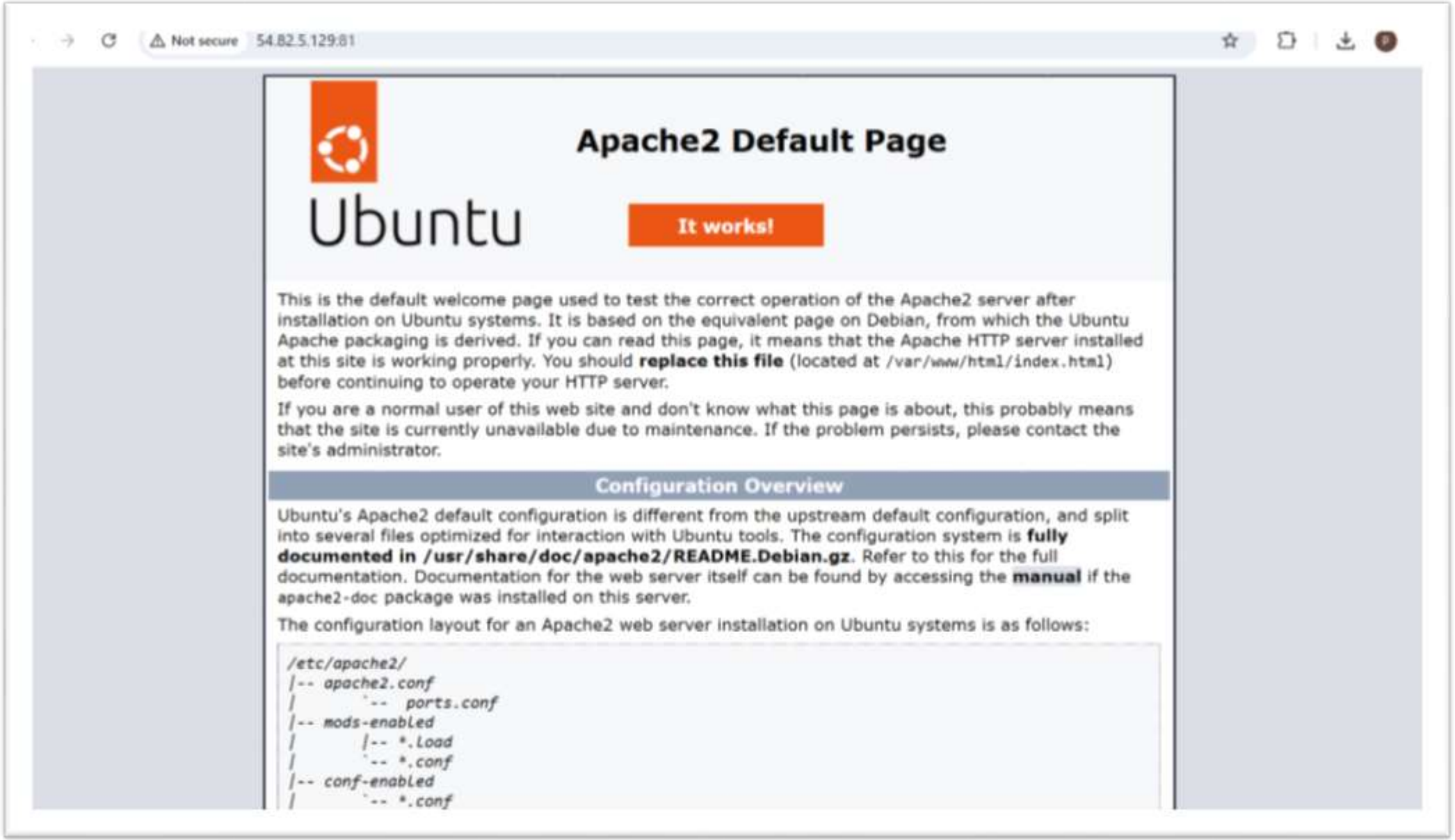
Commit as new container



Running new container in port 81



We can see apache2 home page running port 81 in Ubuntu Container

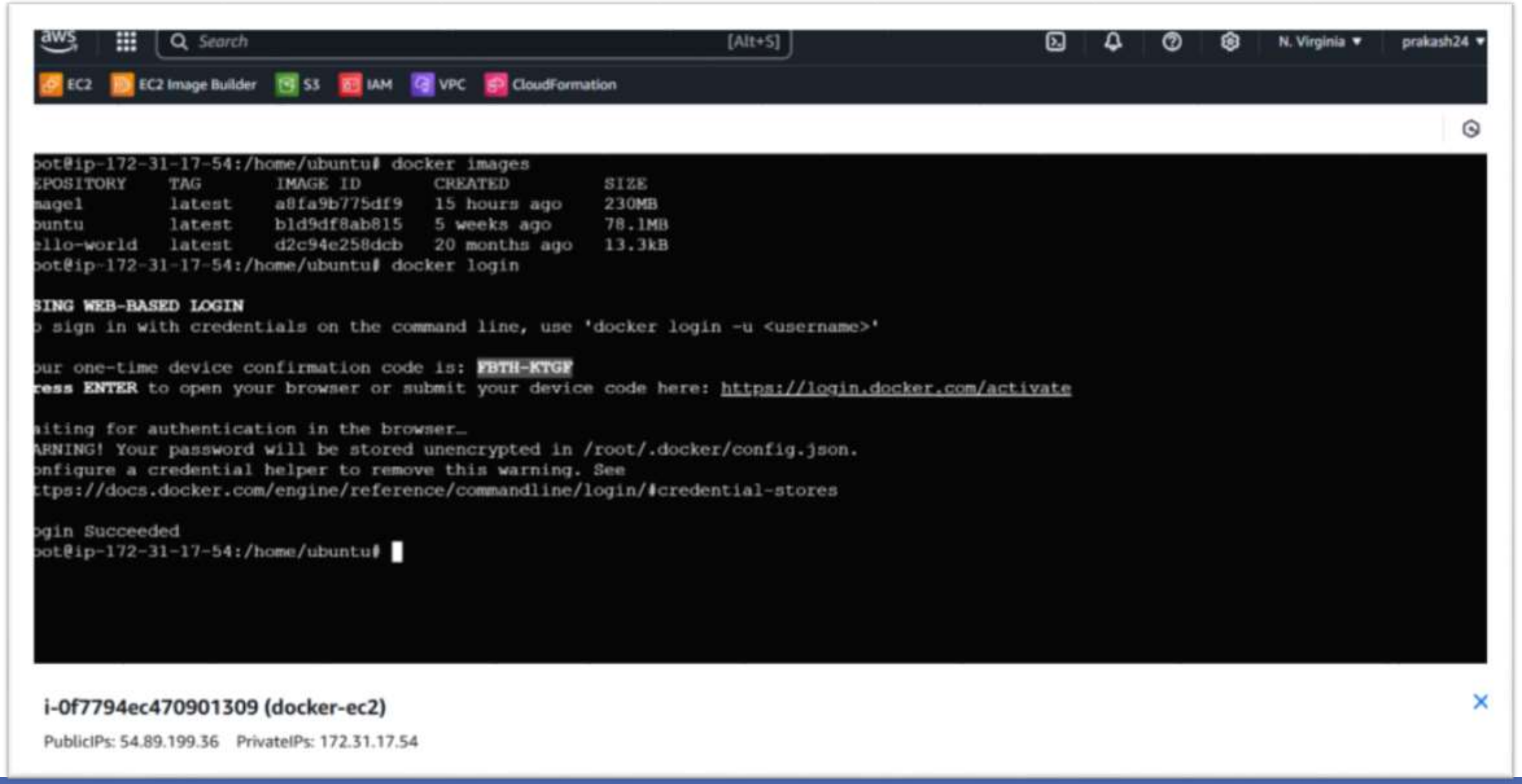


Module 3: Docker Part 1
Assignment - 3

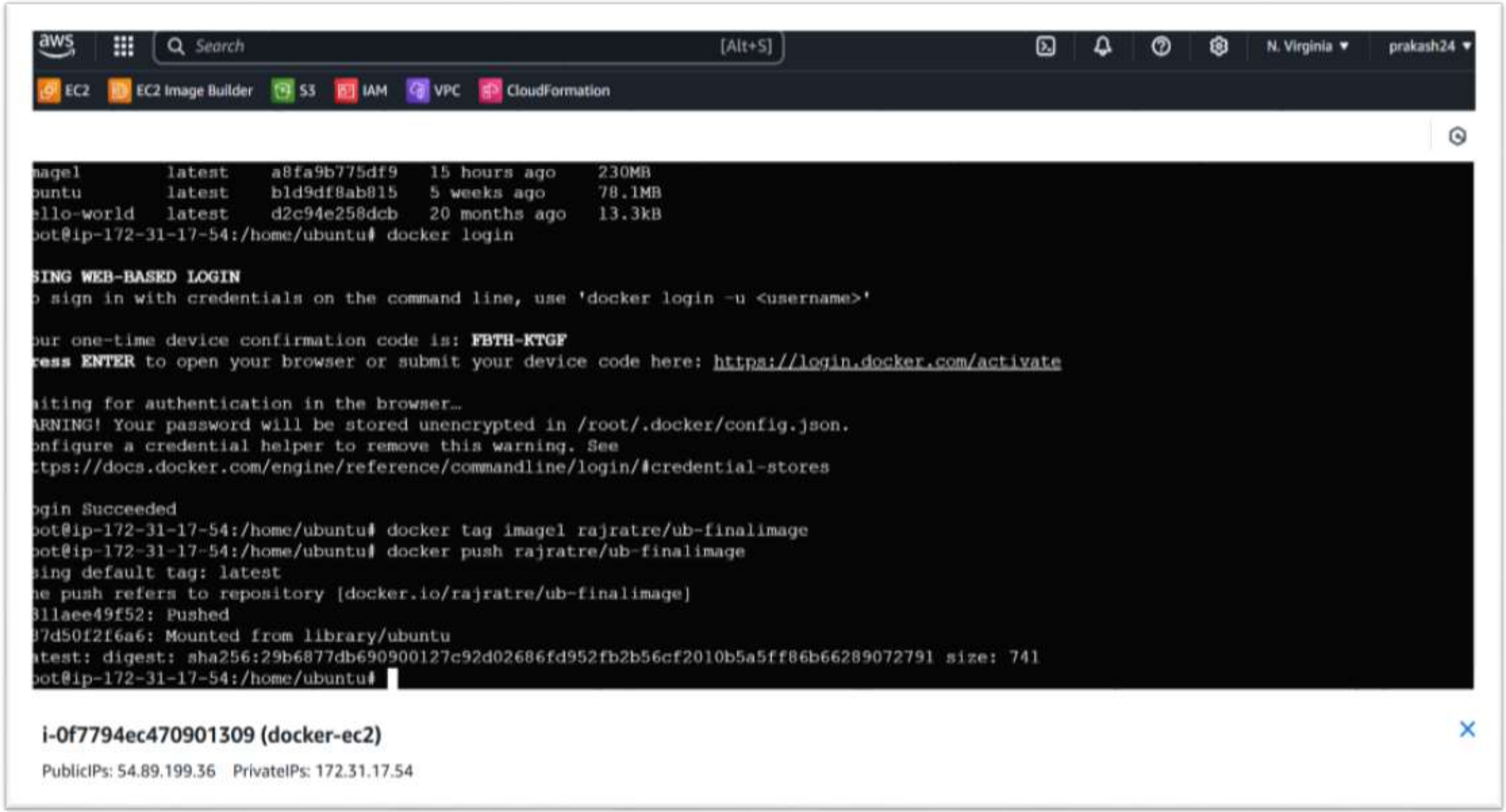
Tasks To Be Performed:

1. Use the saved image in the previous assignment
2. Upload this image on Docker Hub
3. On a separate machine pull this Docker Hub image and launch it on port 80
4. Start the Apache2 service
5. Verify if you are able to see the Apache2 service

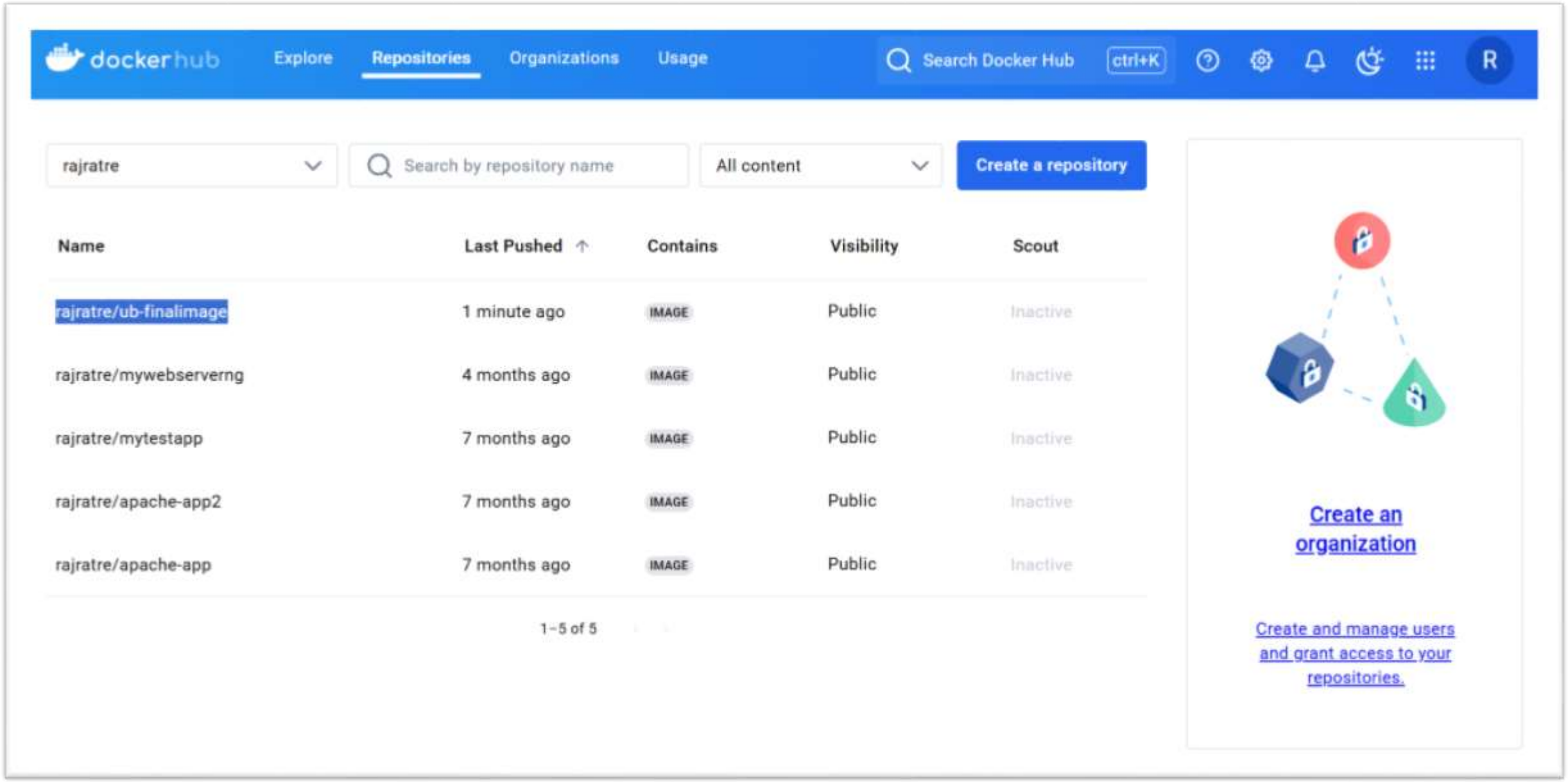
Login in docker hub to build and push image in docker hub



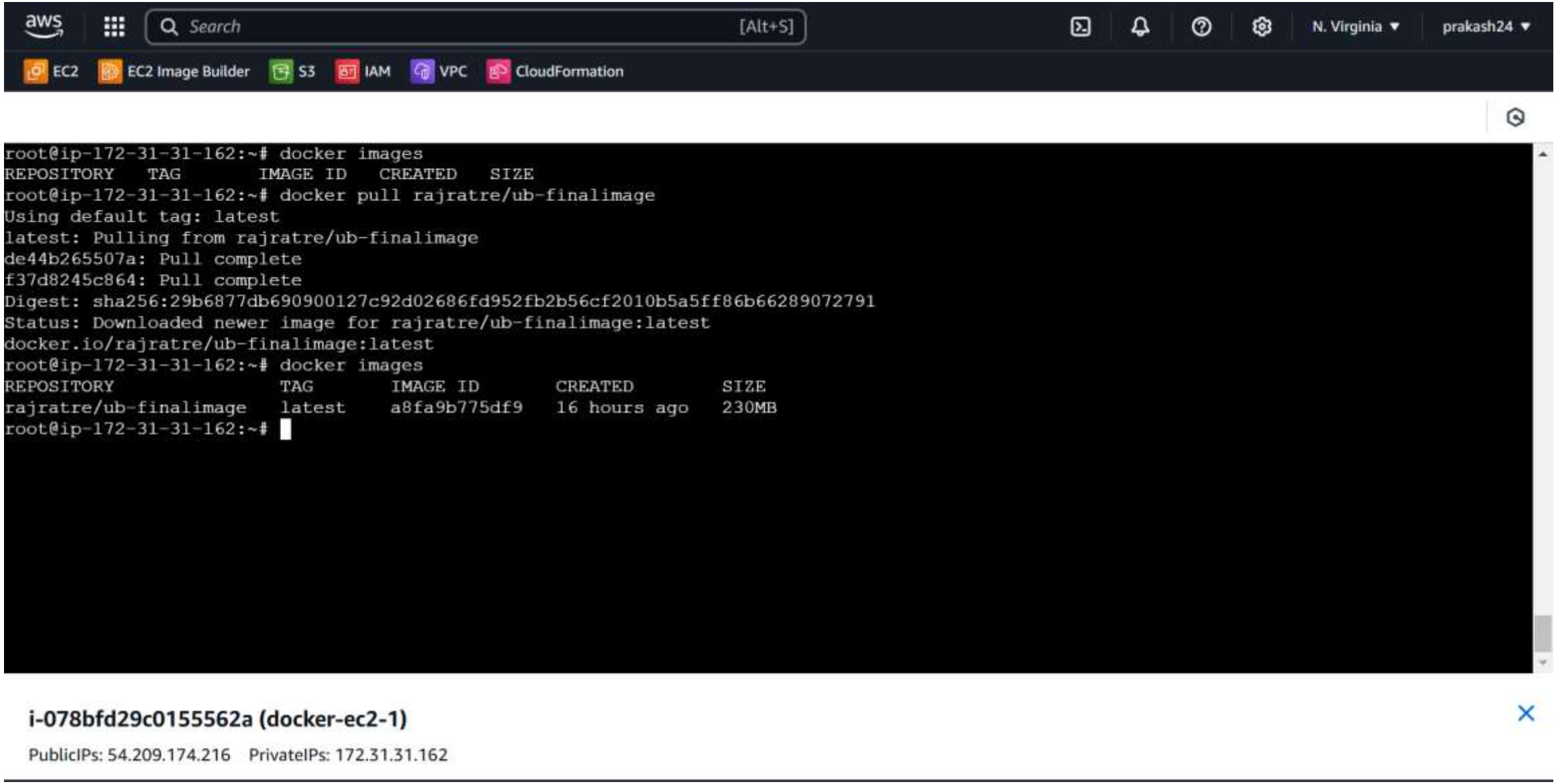
Building & Pushing docker images in docker hub



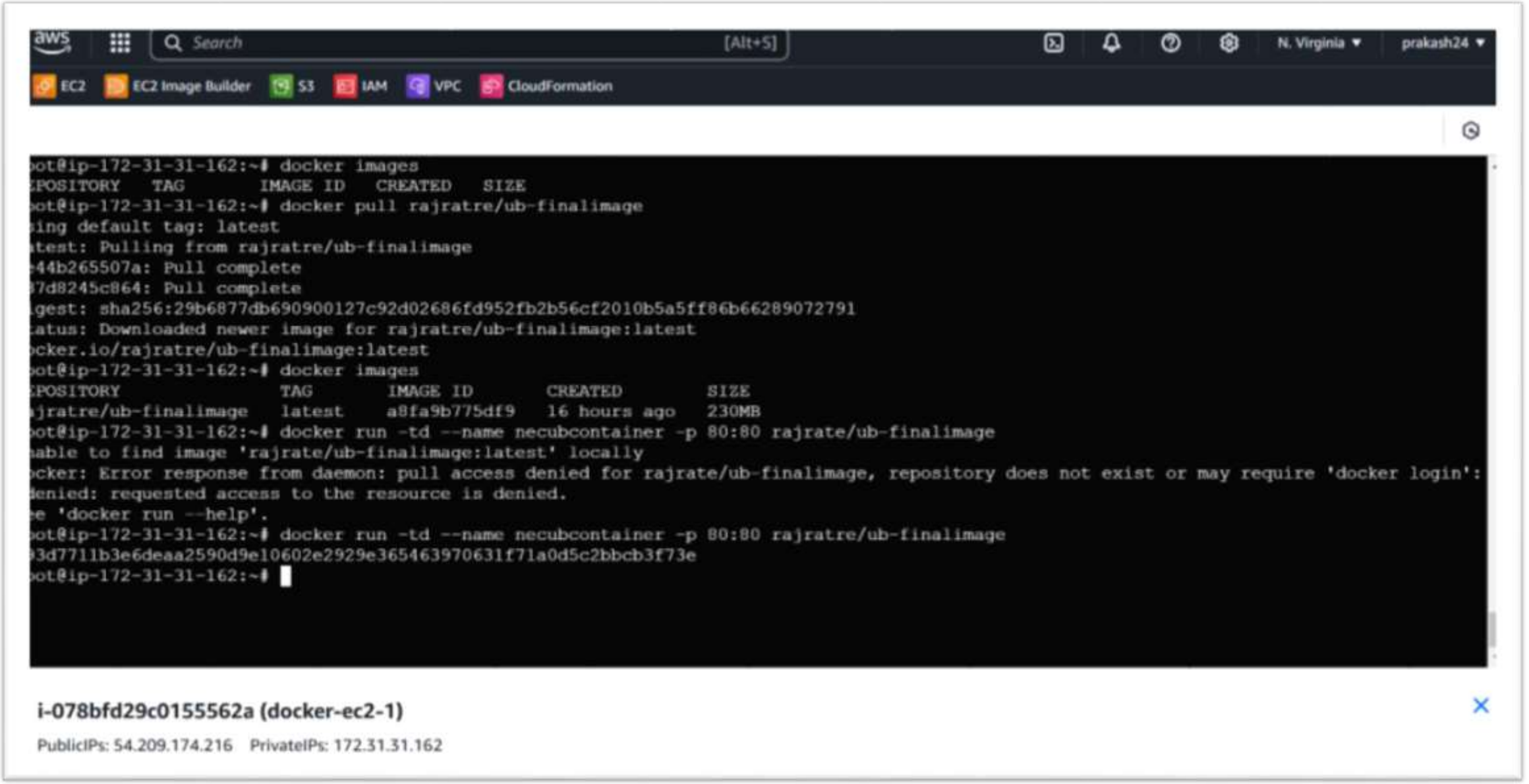
We can see the image in docker hub



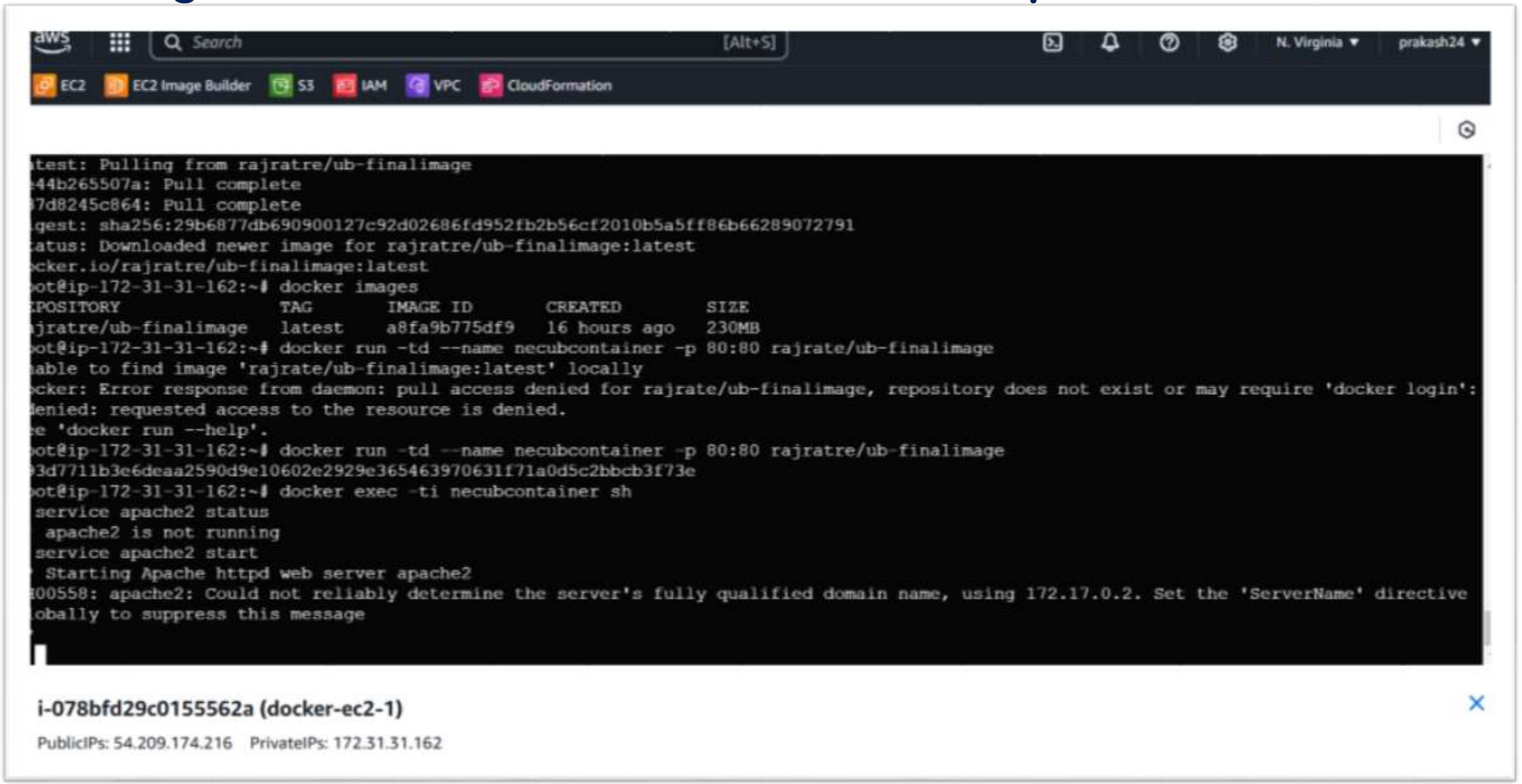
Pulling docker image form docker hub



Running docker container in other ec2 machine in port 80



Running docker container in other ec2 machine in port 80



We can see apache2 home page in new ec2 machine on port 80

Module 3: Docker Part 1
Assignment - 4

Tasks To Be Performed:

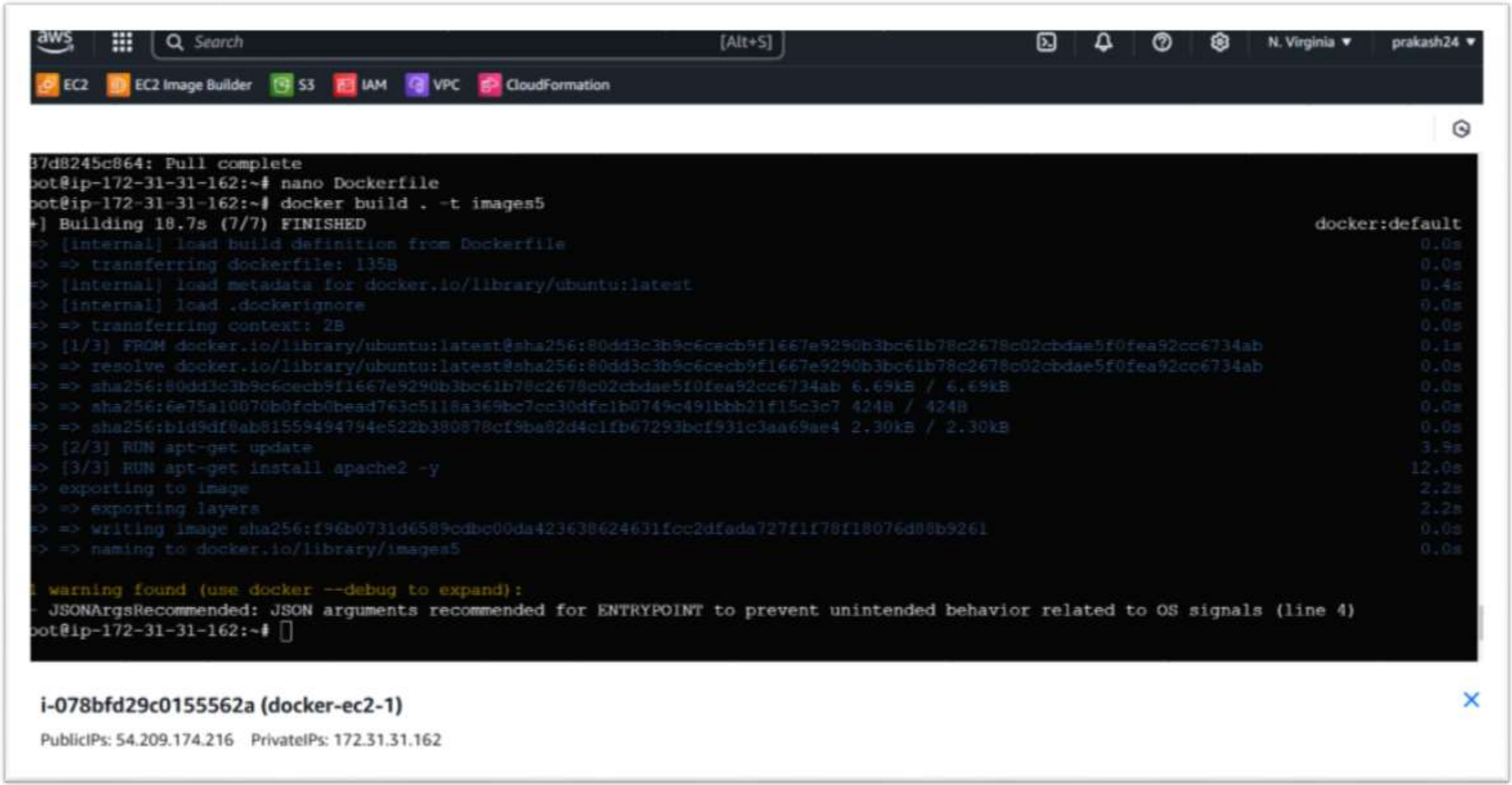
1. Create a Dockerfile with the following specs:
    - Ubuntu container
    - Apache2 installed
    - Apache2 should automatically run once the container starts

2. Submit the Dockerfile for assignment completion

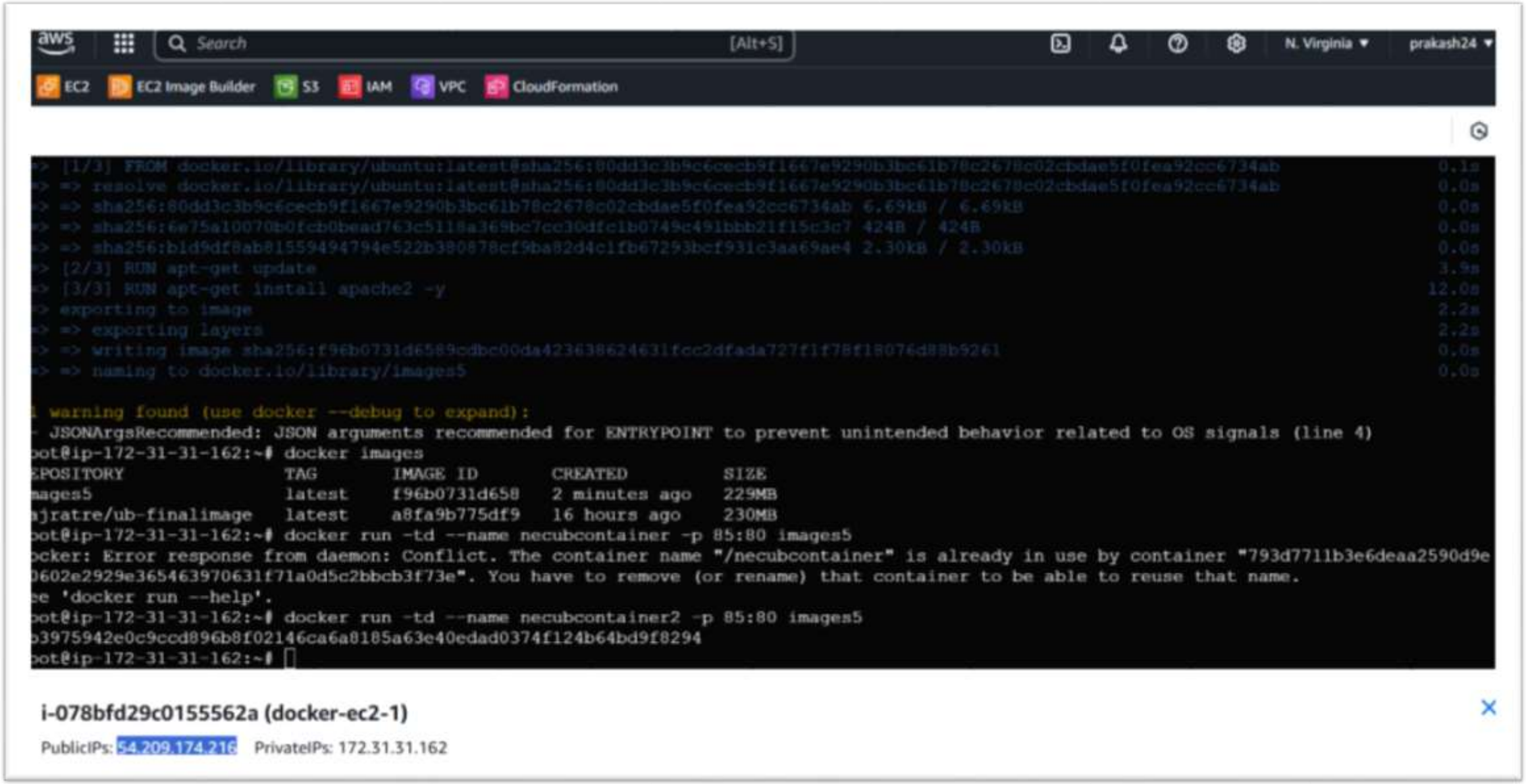
Dockerfile


GNU nano 6.2 Dockerfile
FROM ubuntu
RUN apt-get update
RUN apt-get install apache2 -y
ENTRYPOINT apachectl -D FOREGROUND
[Read 4 lines]
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location M-U Undo M-A Set Mark
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line M-E Redo M-6 Copy
i-078bfd29c0155562a (docker-ec2-1)
PublicIPs: 54.209.174.216 PrivateIPs: 172.31.31.162

Building a docker images using a docker file



Running docker container using docker image build by a docker file



We can see apache2 home page in docker port 85

Module 3: Docker Part 1
Assignment - 5

Tasks To Be Performed:

1. Create a sample HTML file
2. Use the Dockerfile from the previous task
3. Replace this sample HTML file inside the Docker container with the default page

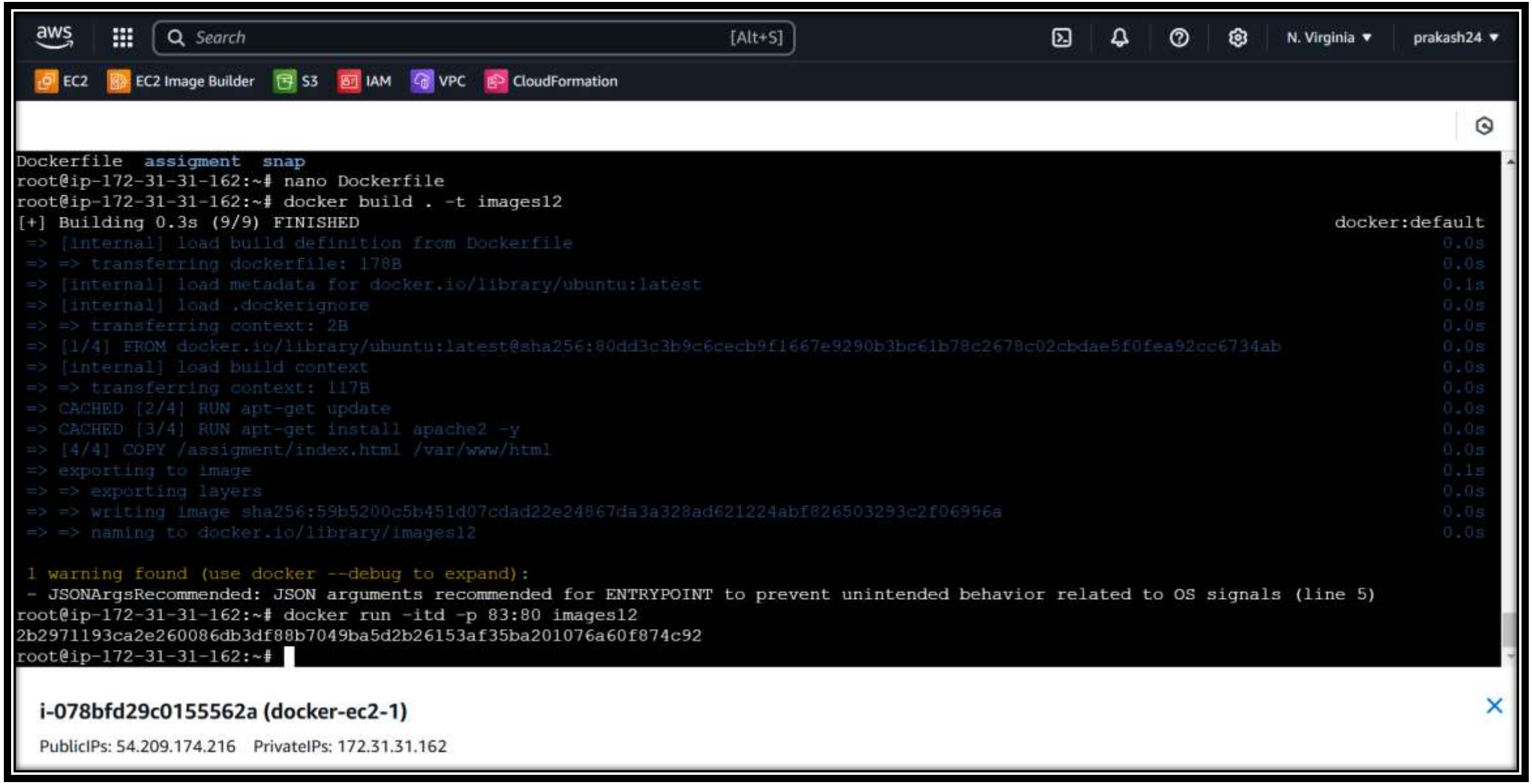
We added a index html file and copying & replacing in apache2 home page by docker file

```
FROM ubuntu
RUN apt-get update
RUN apt-get install apache2 -y
COPY /assigment/index.html /var/www/html
ENTRYPOINT apachectl -D FOREGROUND
```

docker file


aws
Search
[Alt+S]
N. Virginia
prakash24
EC2
EC2 Image Builder
S3
IAM
VPC
CloudFormation
GNU nano 6.2
Dockerfile
FROM ubuntu
RUN apt-get update
RUN apt-get install apache2 -y
COPY /assigment/index.html /var/www/html
ENTRYPOINT apachectl -D FOREGROUND
[Read 5 lines]
^G Help
^O Write Out
^W Where Is
^K Cut
^T Execute
^C Location
M-U Undo
M-A Set Mark
^X Exit
^R Read File
^\ Replace
^U Paste
^J Justify
^/ Go To Line
M-E Redo
M-6 Copy
i-078bfd29c0155562a (docker-ec2-1)
PublicIPs: 54.209.174.216 PrivateIPs: 172.31.31.162

Building a new docker images using modified docker file & running container



We can see index page in new container running port no 83