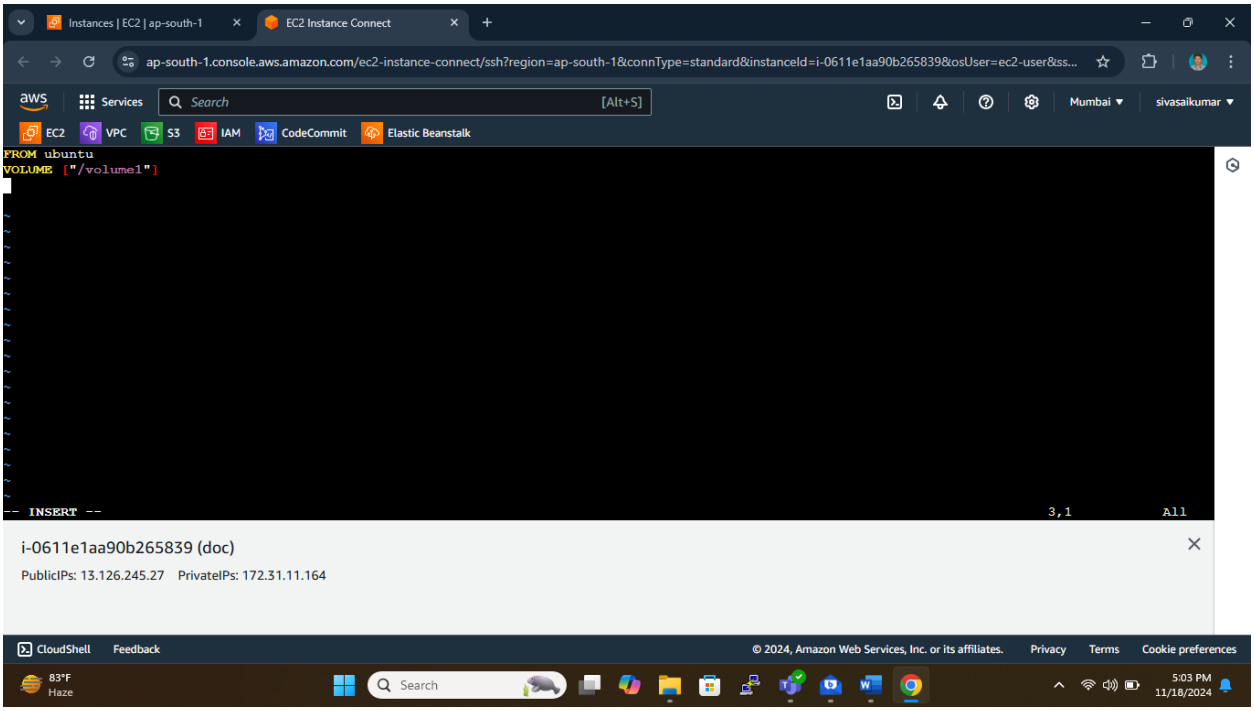
CREATION OF VOLUMES IN DOCKER

To create volumes in a docker there are 3 ways we:

1) **Using the Dockerfile**
2) **Create a volume will create a container using command**
3) **Creating a local volume and mount it to the container**

1) using the Dockerfile:

To create a volume using a Dockerfile is a method in which we create Dockerfile and build it as an image using that image creating a container, In the Dockerfile using components we can create a volume always remember that in Dockerfile starting letter ‘d’ will be always upper case.



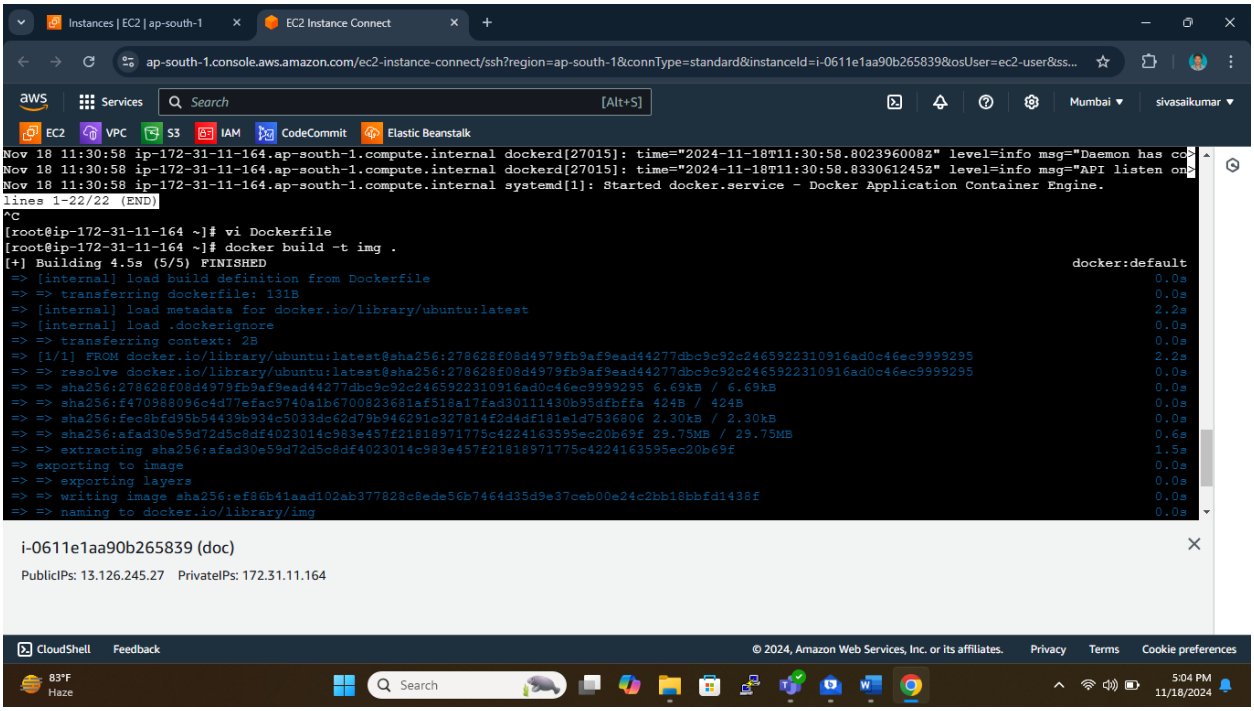
The above image is the script of Dockerfile description of components:

FROM: it is main component in Dockerfile using this only the image will be built

VOLUME: it is component that is used to create a volume will create a container after this component the name of the container will be provide in [“/*”] place of star

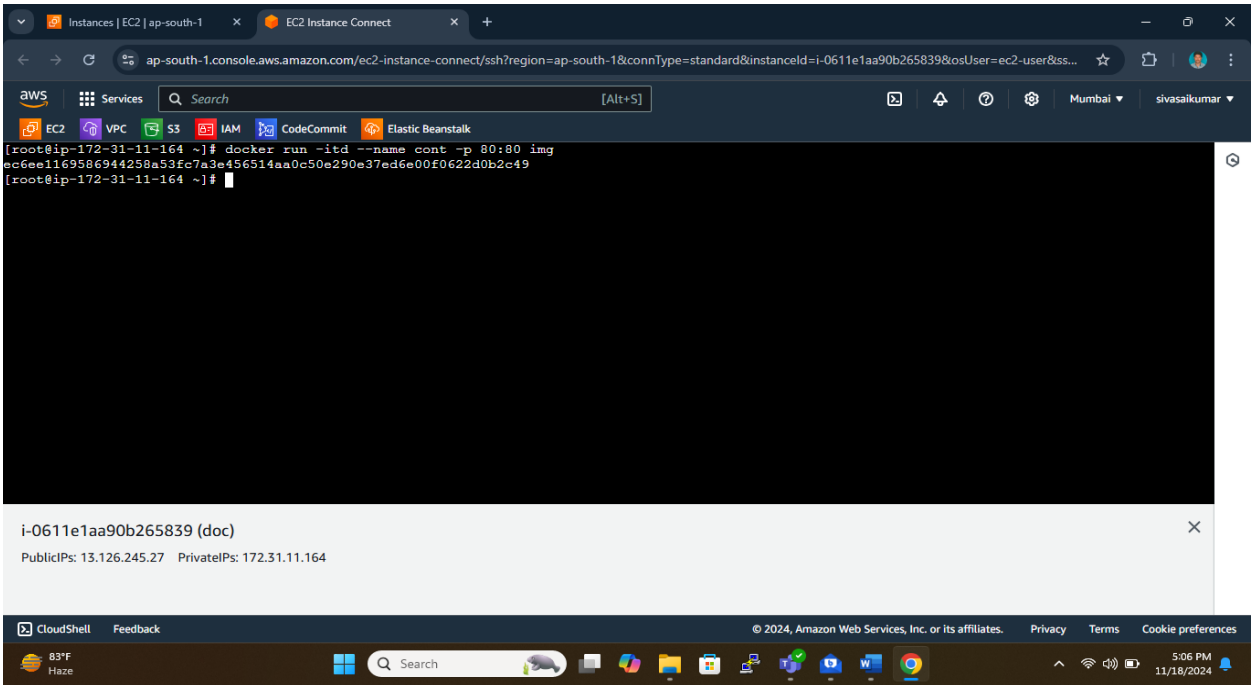
After creating this file execute this command to build the image using that file

docker build -t img .

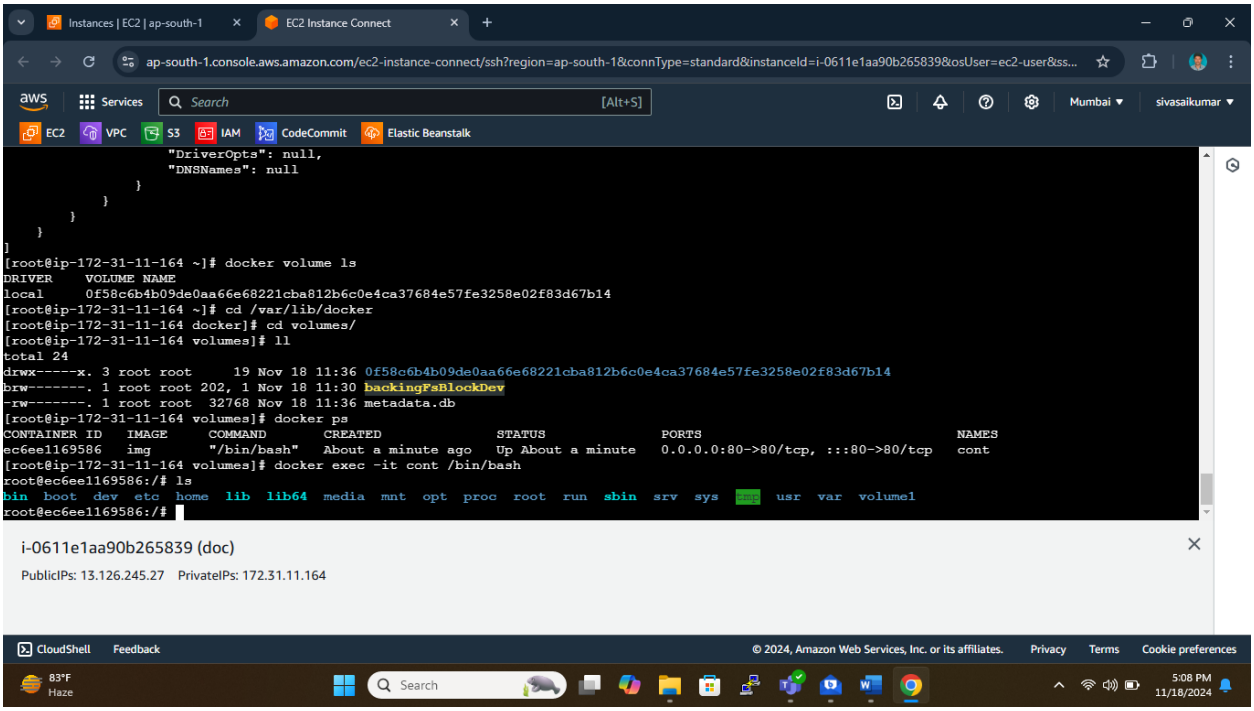


Now create container using the newly created image by execute this command

docker run -itd –name cont -p 80:80 img

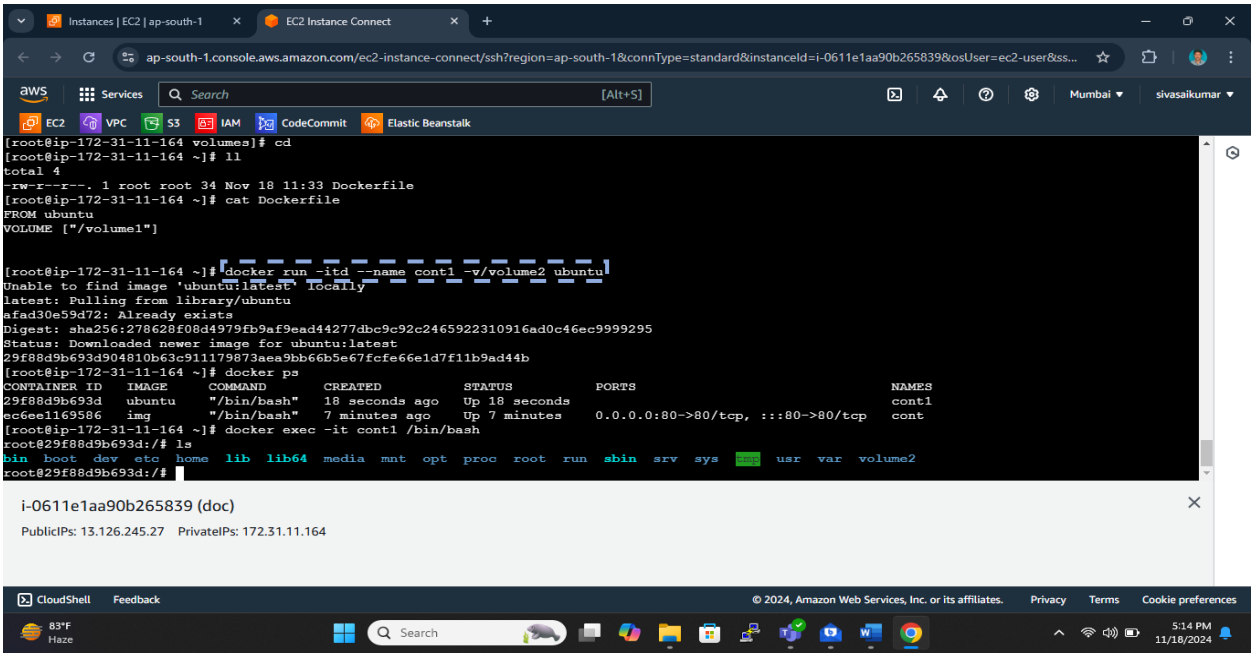


now go in to the container using exec command and go to root directory there use the command ‘ls’ you will see the created volume as a directory as shown in the below image



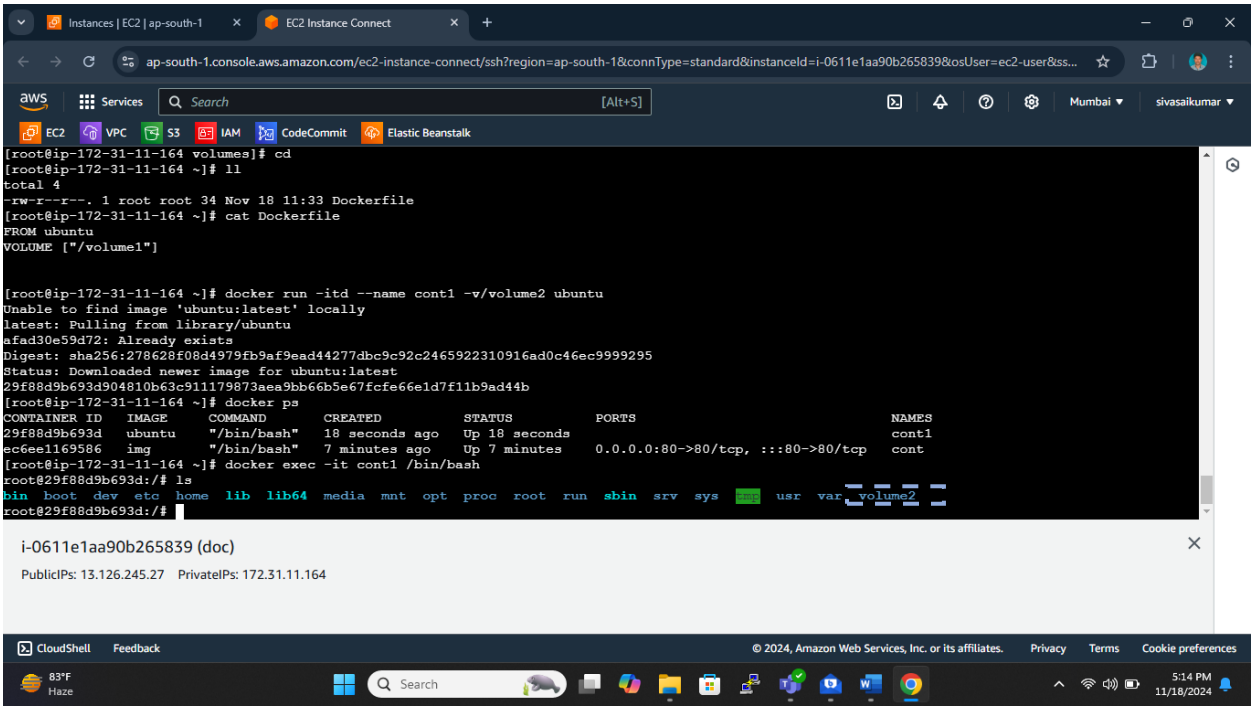
2) Create a volume will create a container using commands:

In this method we use a simple command to create a volume using any of the required base image



Docker run -itd –name cont1 -v/volume2 unbuntu

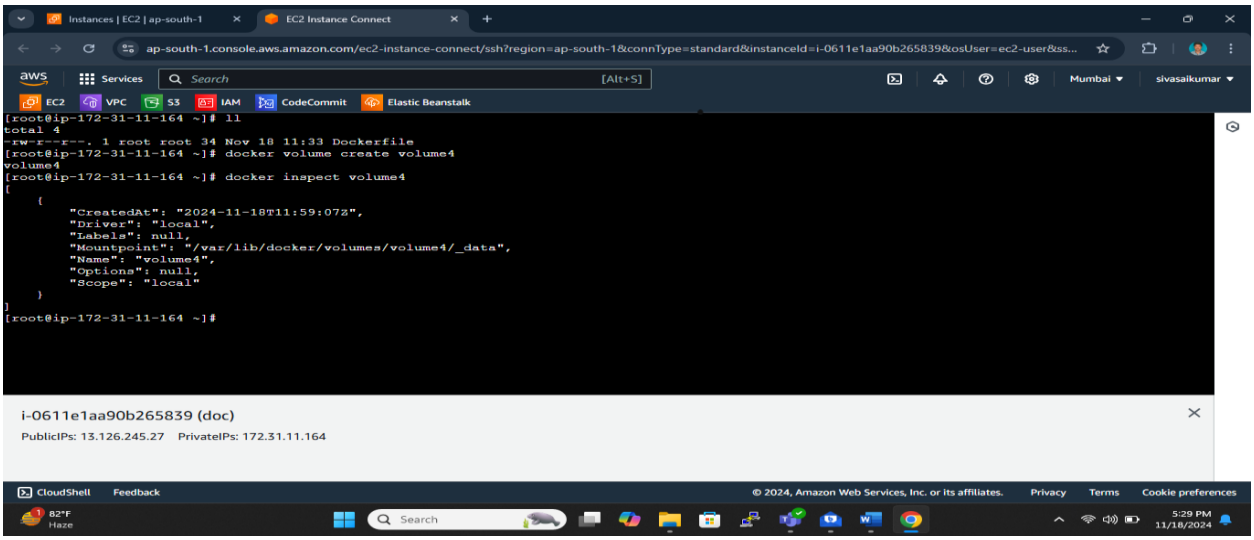
after executing the above command go in to the container using exec command and go to root directory there use the command ‘ls’ you will see the created volume as a directory as shown in the below image



3) Creating a local volume and mount it to the container:

In this method first we create a local volume using the command

docker volume create volume 4



After that execute the below command to mount the created volume and to create container.

docker run –itd –name cont3 --mount source=volume4,destination=/volume4 ubuntu

after executing the above command go in to the container using exec command and go to root directory there use the command ‘ls’ you will see the created volume as a directory as shown in the below image