**Web Page Hosting on Docker Container using AWS**

In this Project I deploy the static website in docker container using AWS Instance

Technologies Used - Docker, AWS-EC2, Apache2, Git & Github.

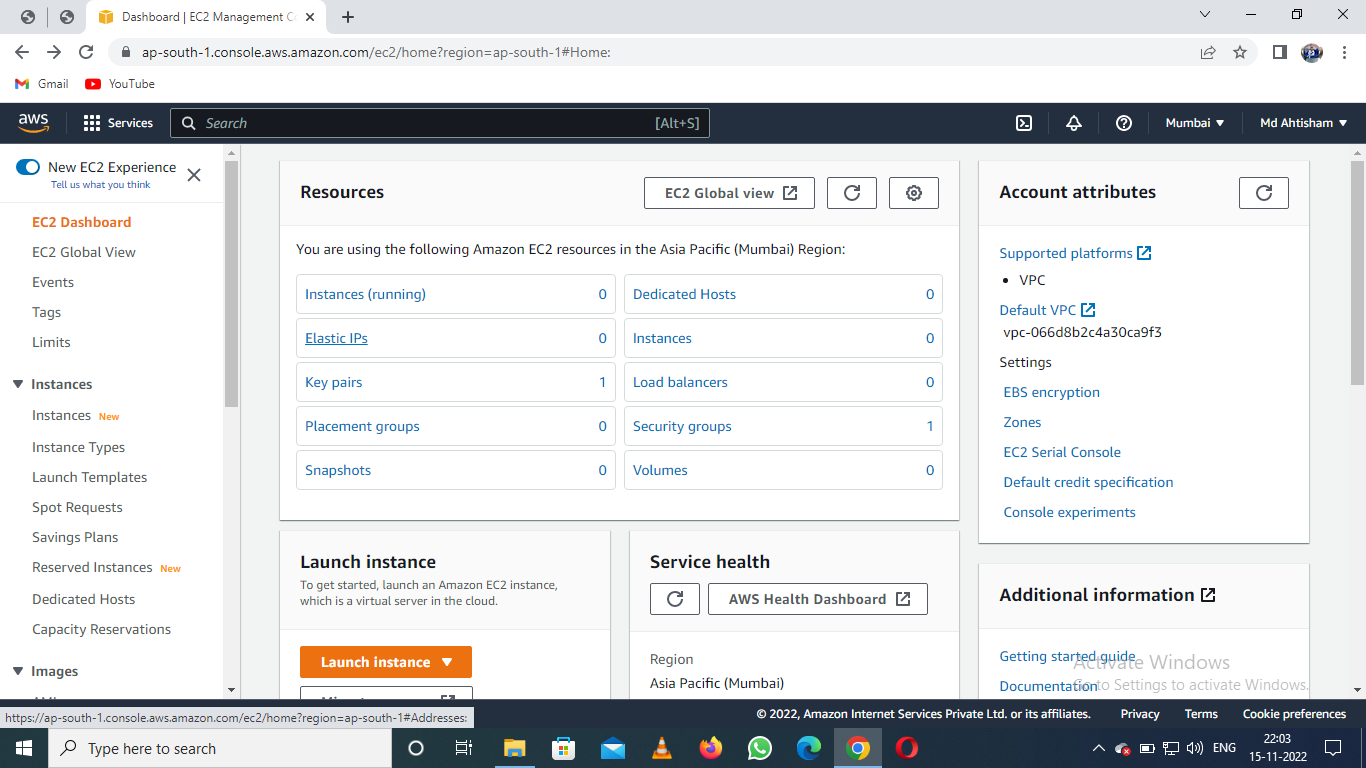
***All Steps in details with Commands:-***

**AWS EC2 Instance**

* Click on EC2 service

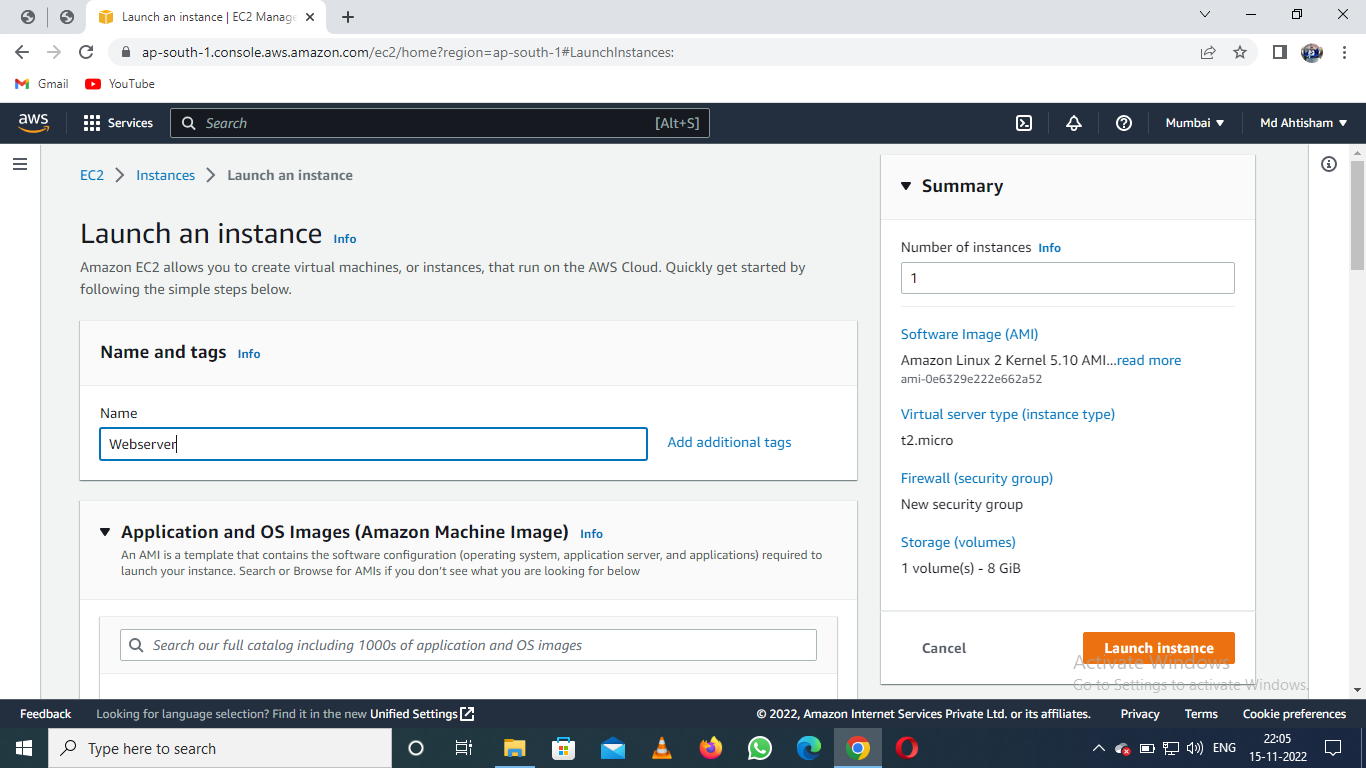


* Click on the Launch Instance



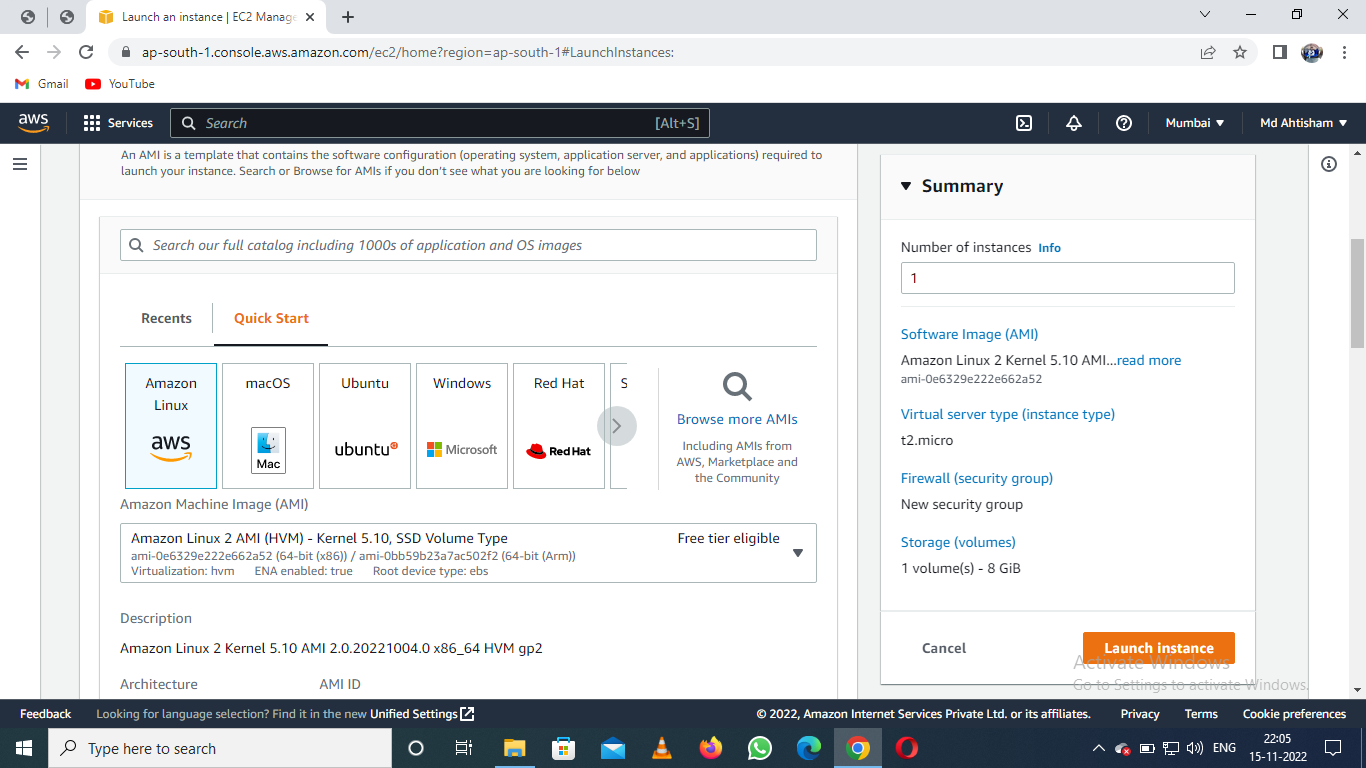
* Name and tags

Webserver



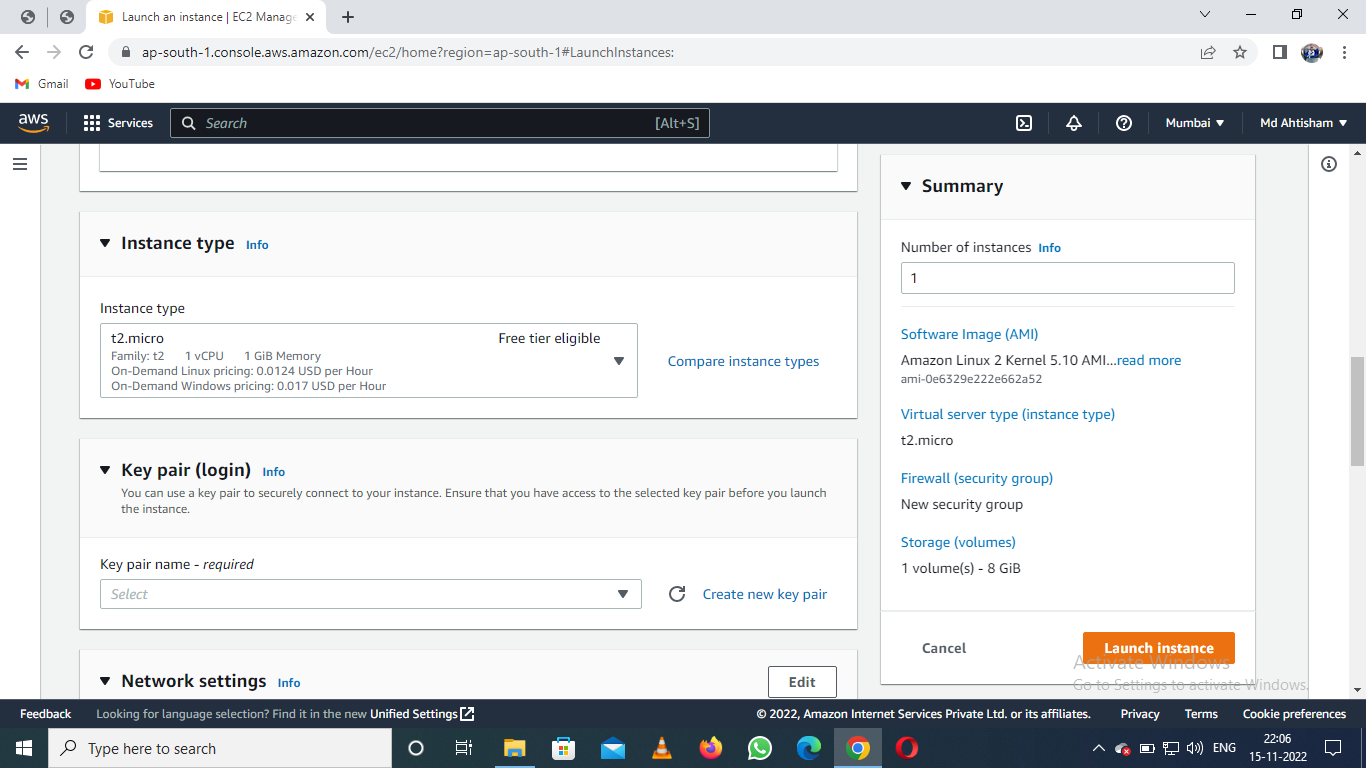
* Choose an Amazon Machine image

Amazonlinux



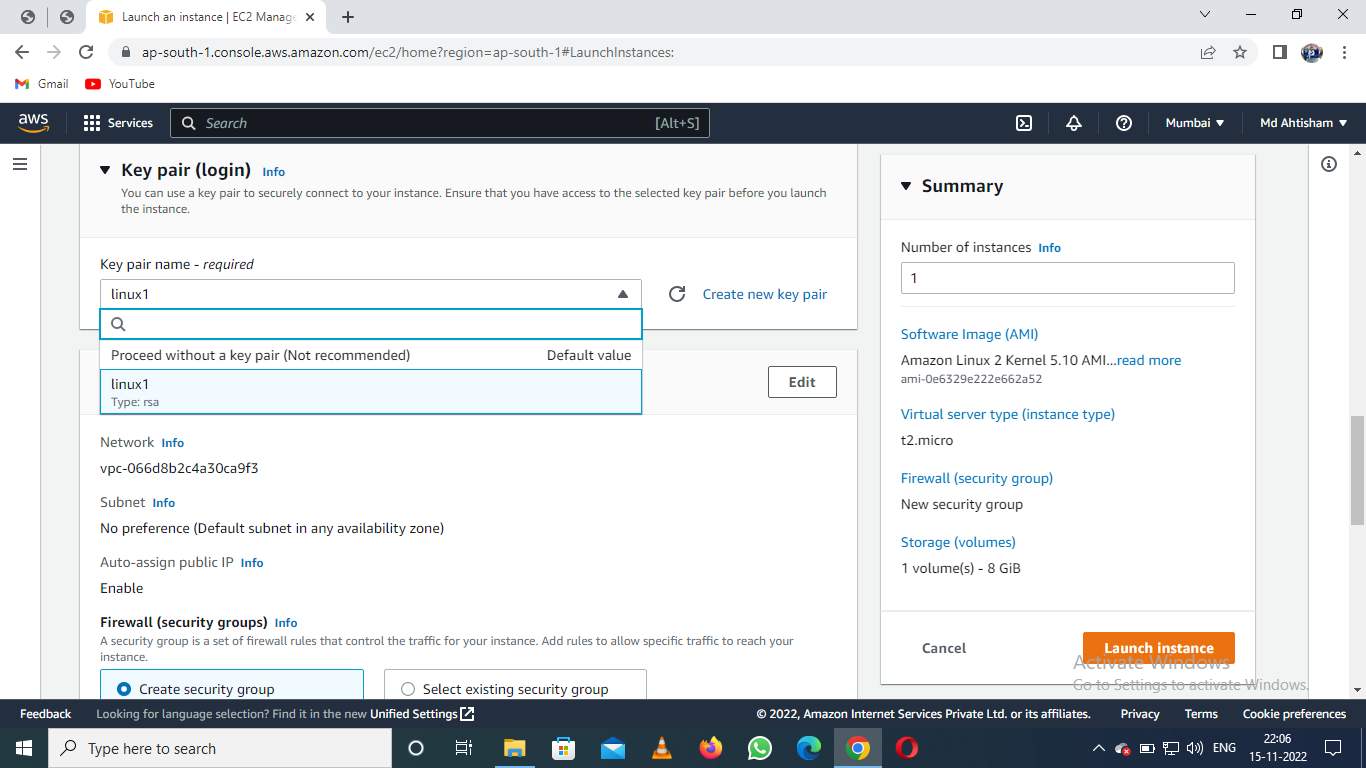
* Instance Type

t2.micro



* Create a new Key Pair and Type Name

linux1

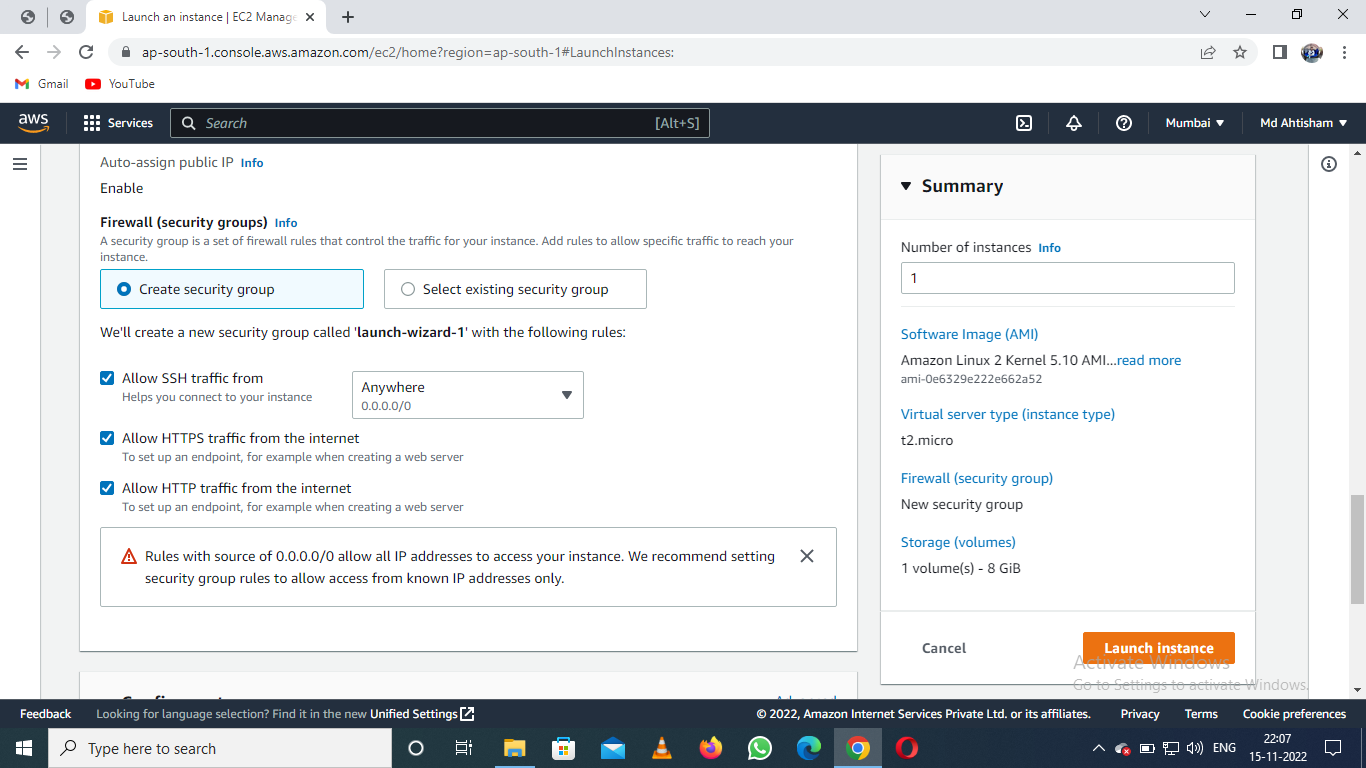


* Create the Security Group

Select - Create a new security group

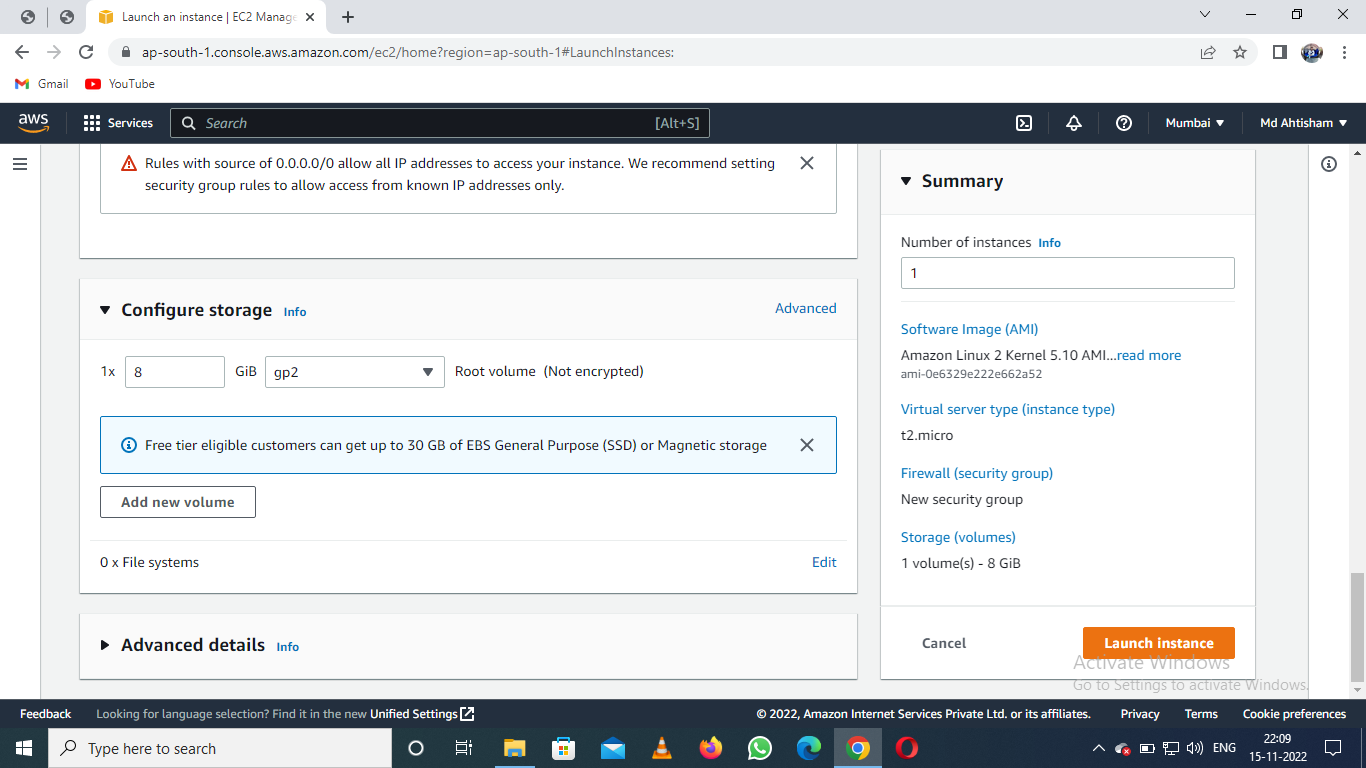
Security group name = sg-webserver

*Allow HTTPS or HTTP traffic from the internet*

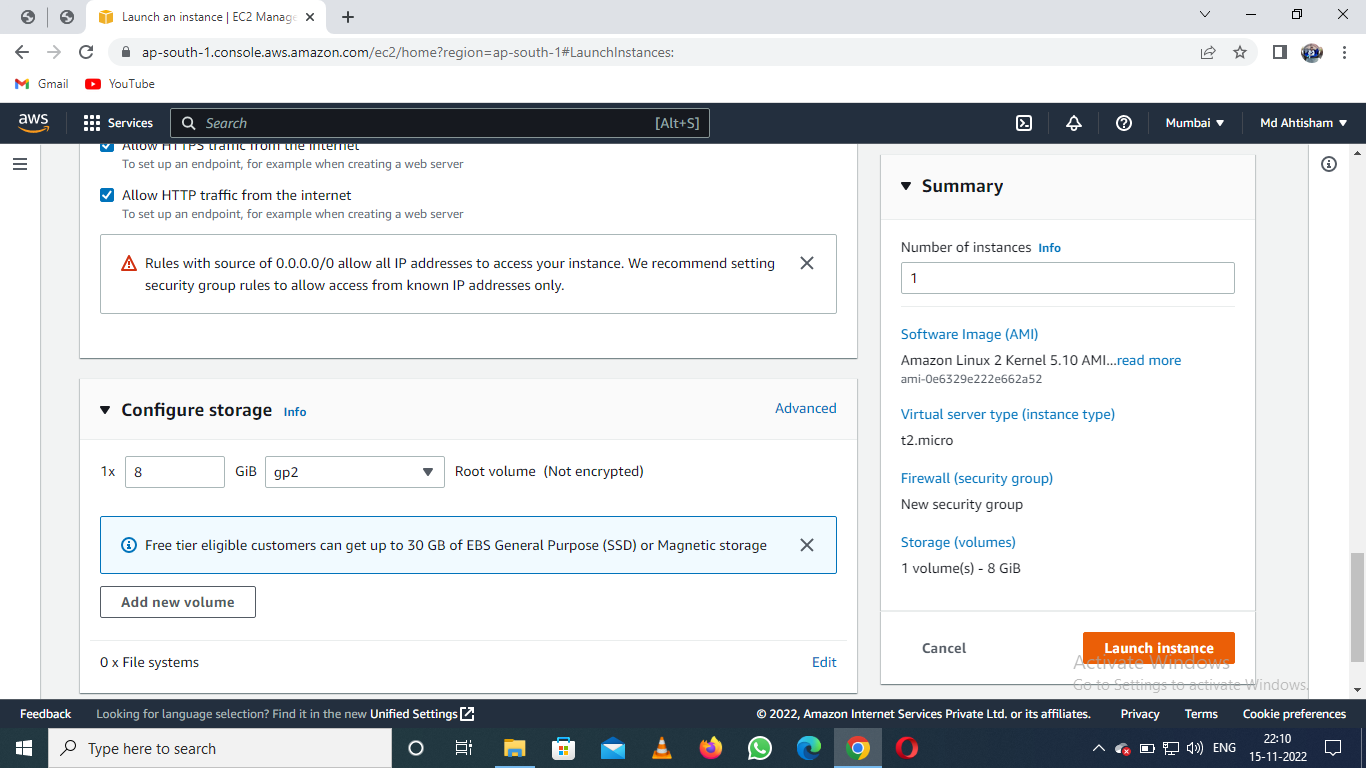


* Configure the Storage

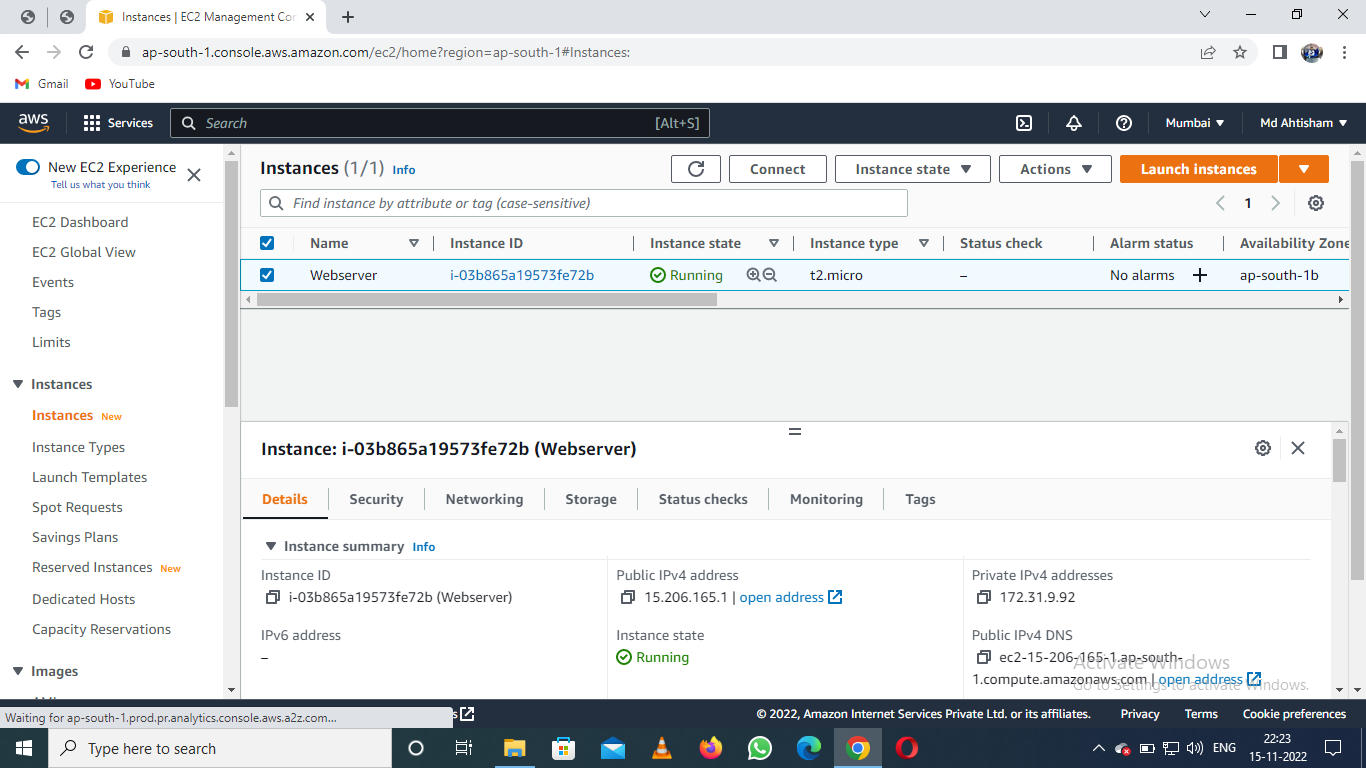
8 GB - Default Root Volume



* Click on Launch Instance



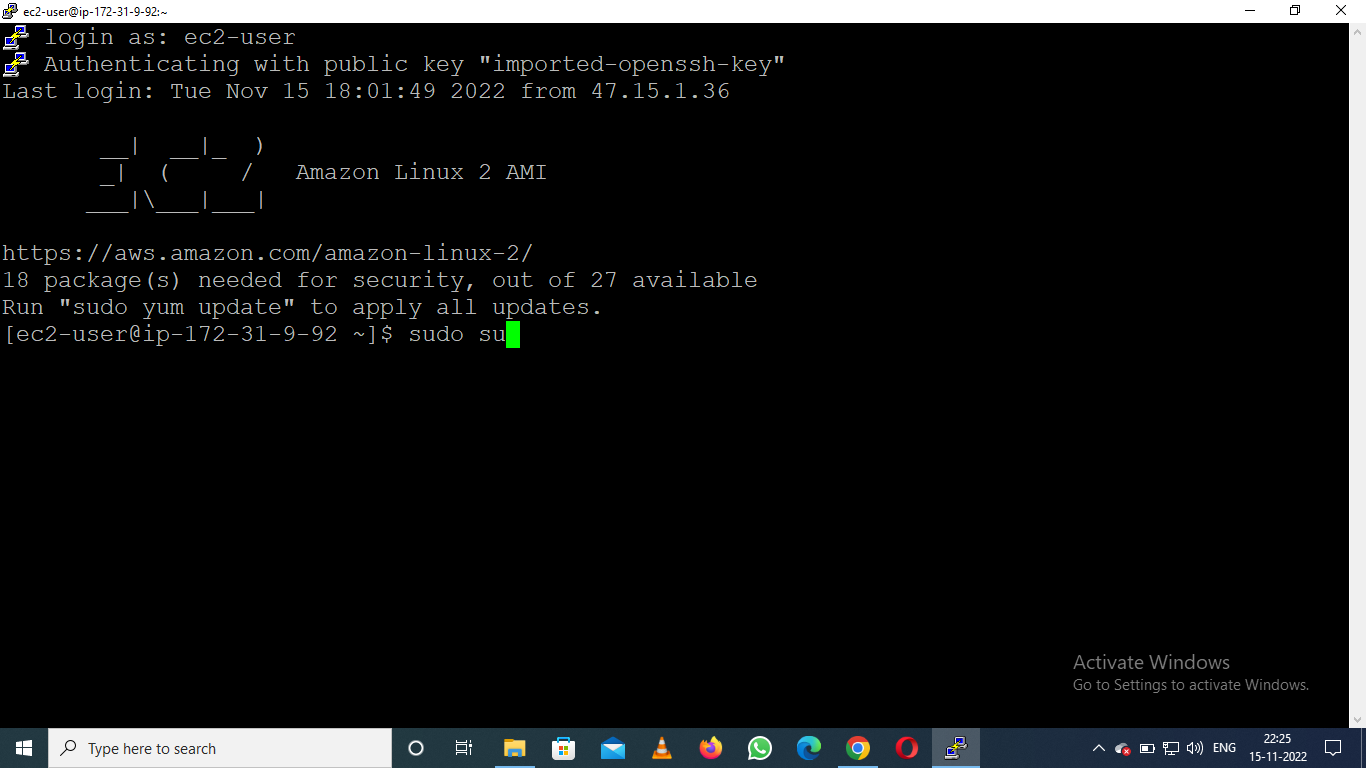
* Access the amazonlinux ec2-instance



**EC2 - Amazon Linux Instance**

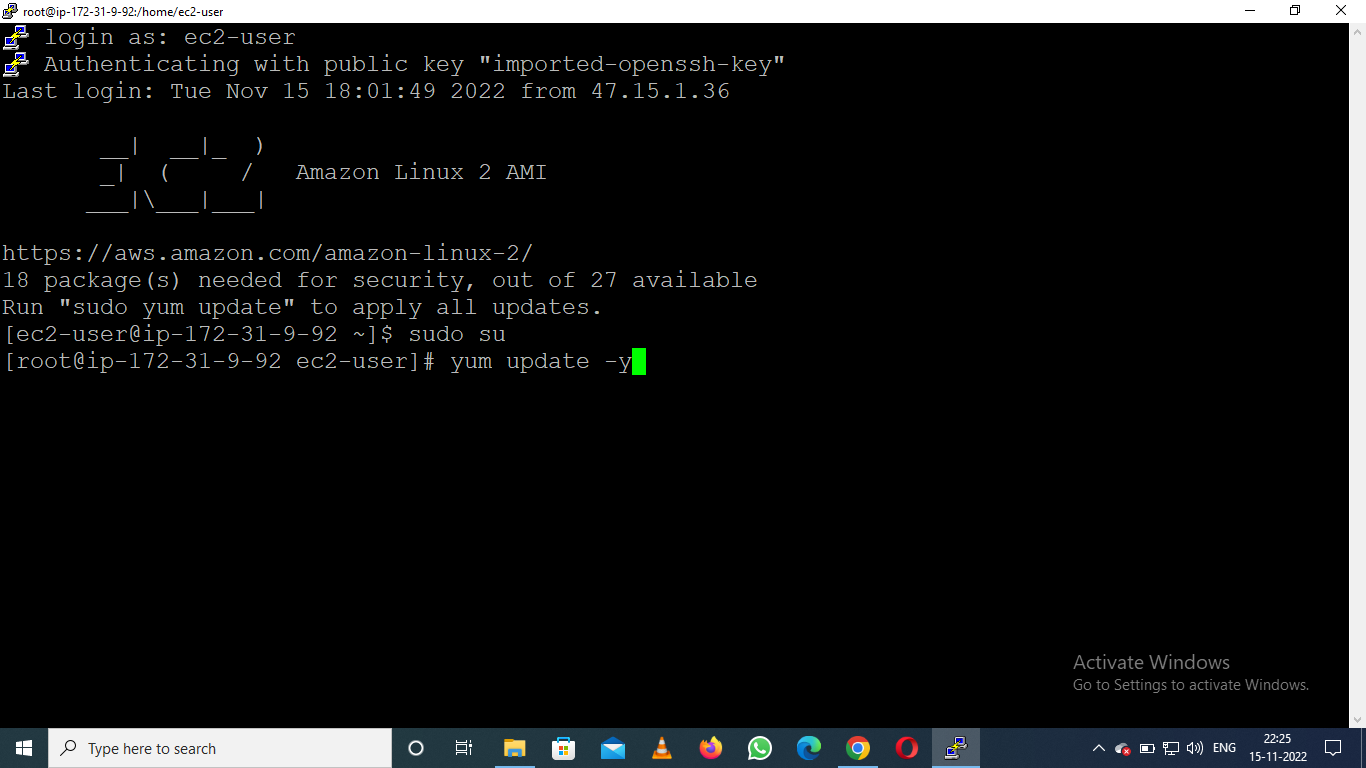
* Command for root access

$ sudo su



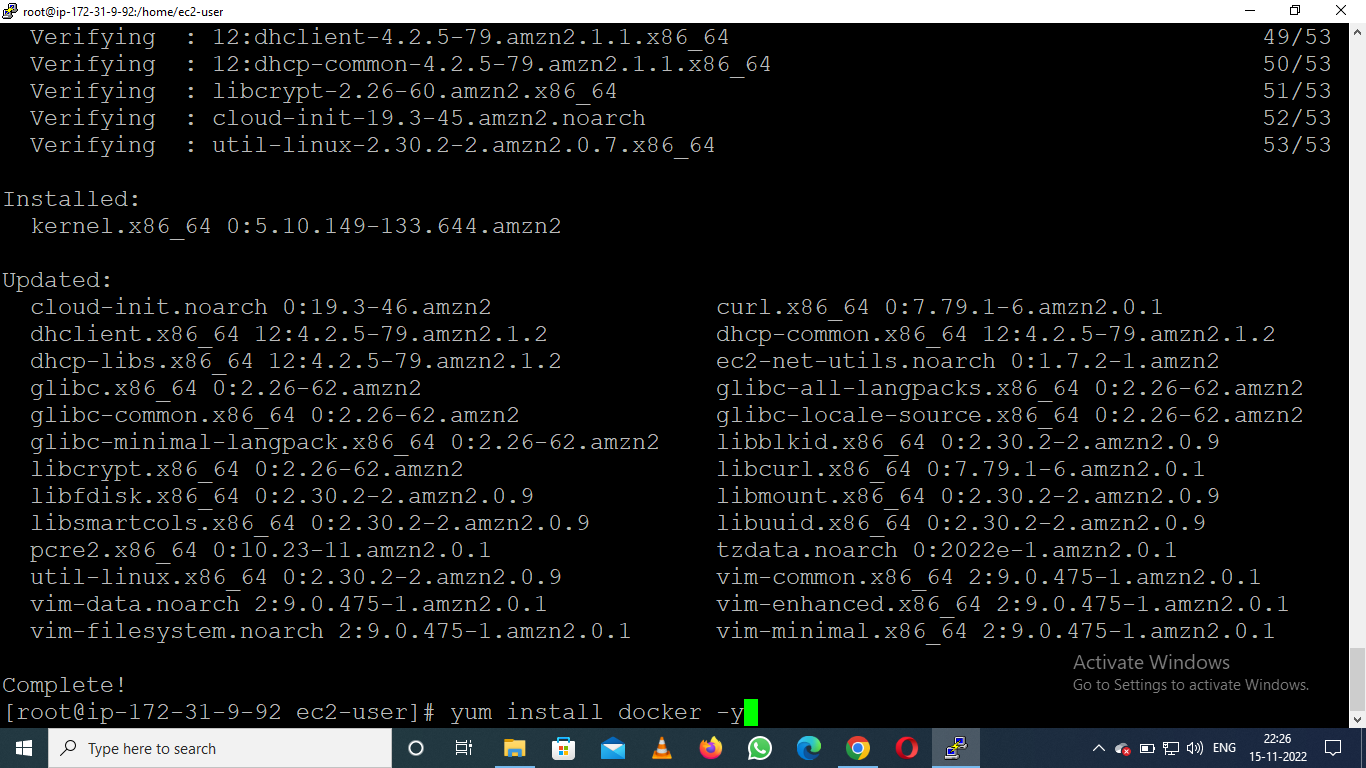
* Update amazonlinux instance

# yum update –y



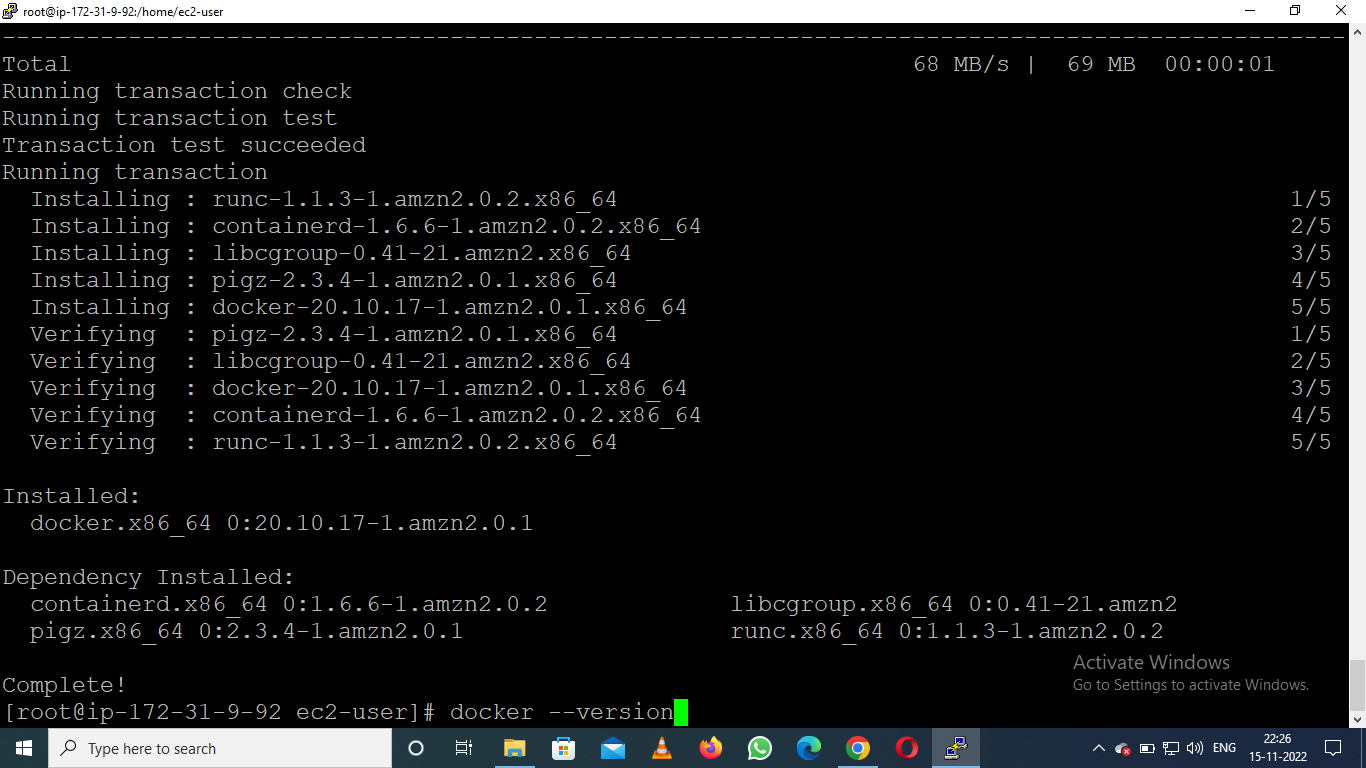
* Install the Docker

# yum install docker –y



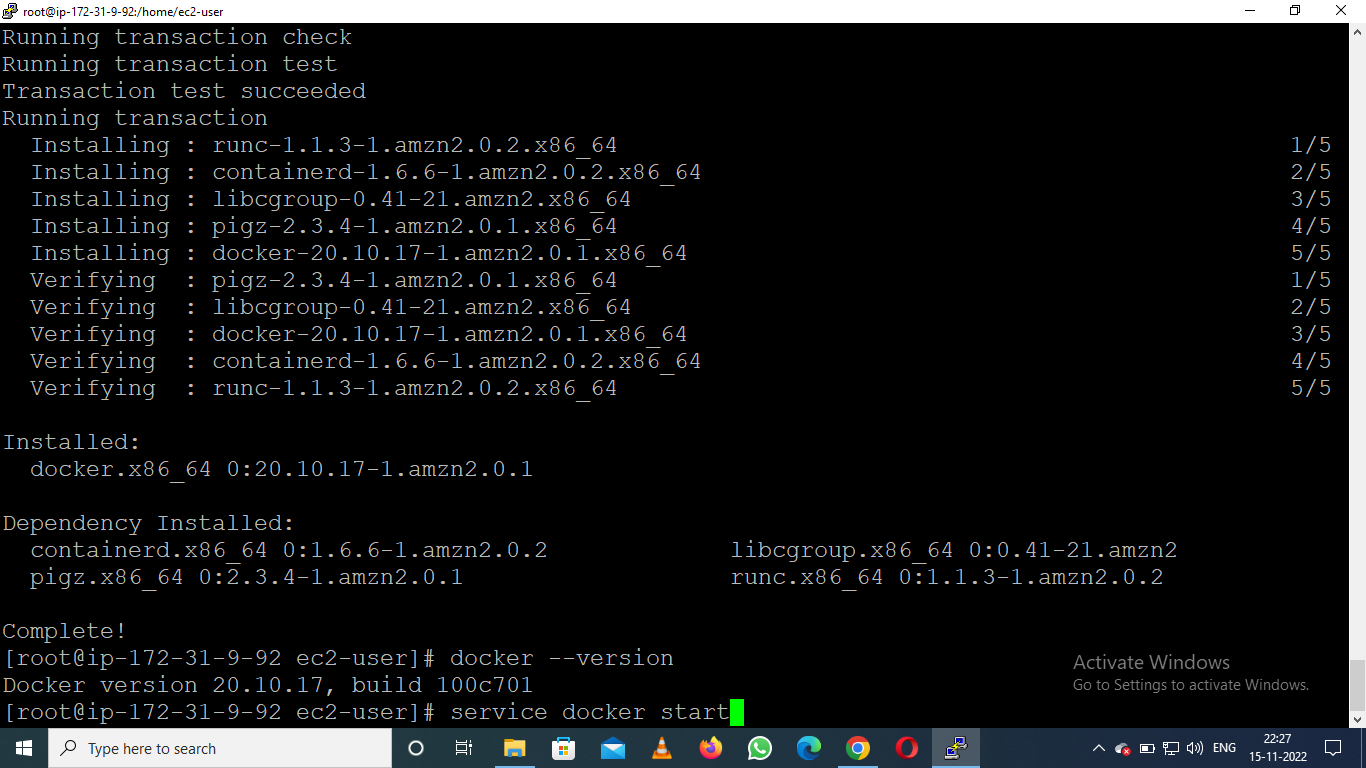
* Check the Docker version

# docker –version



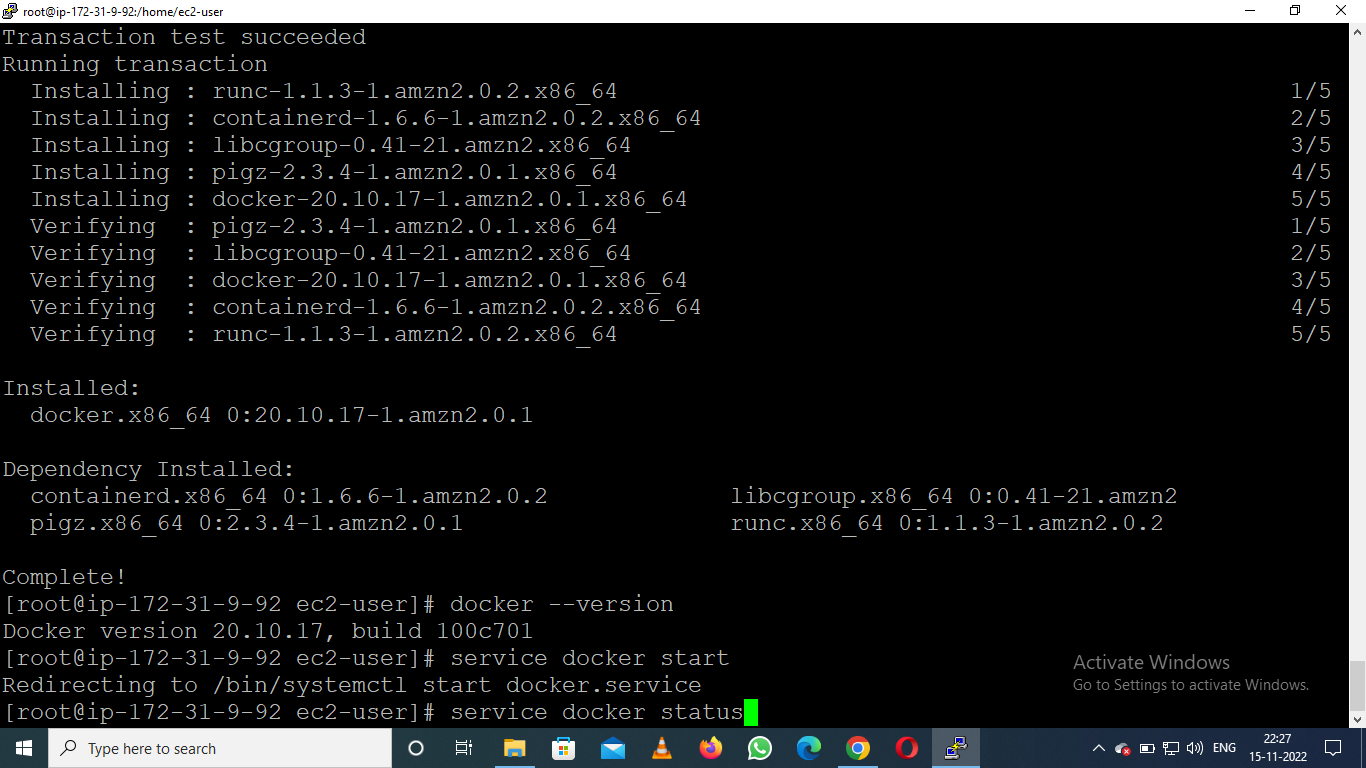
* Start the docker service

# service docker start



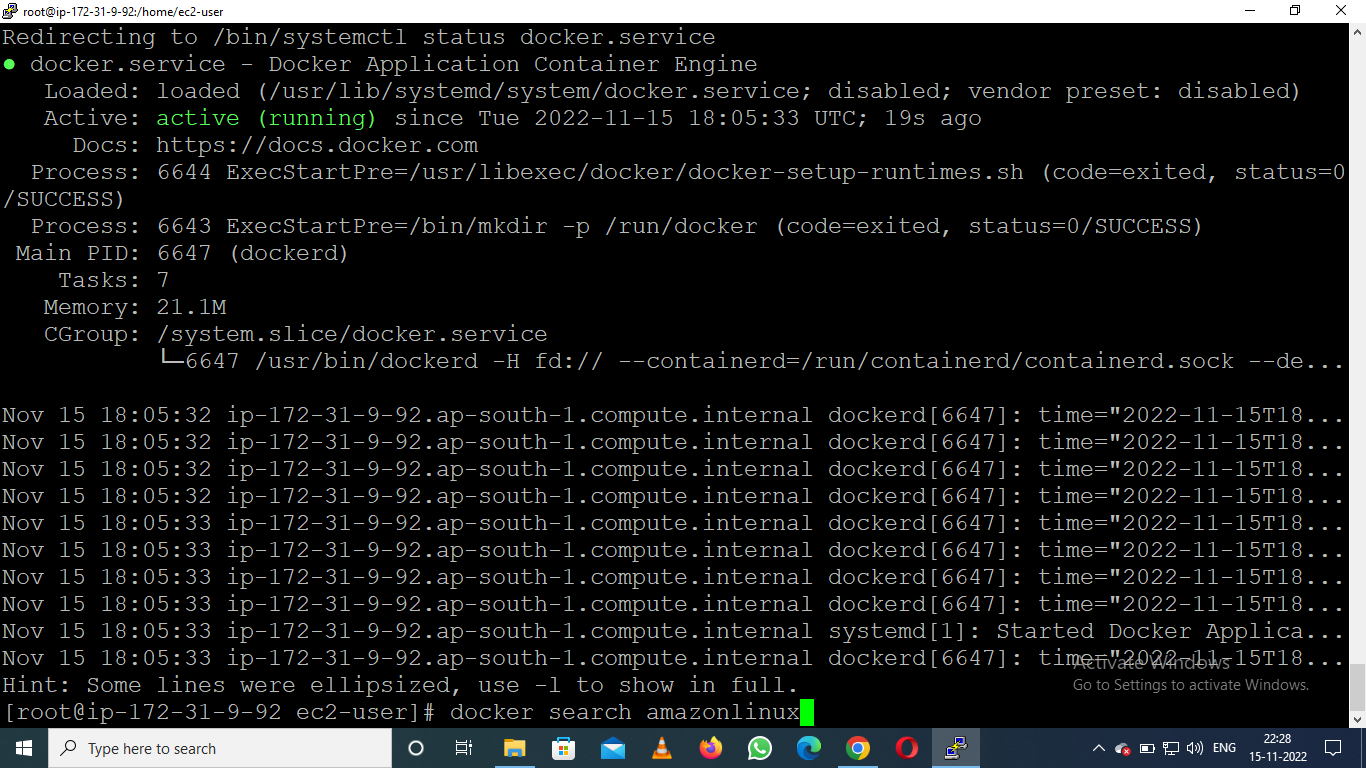
* Check docker service status active or still inactive

# service docker status



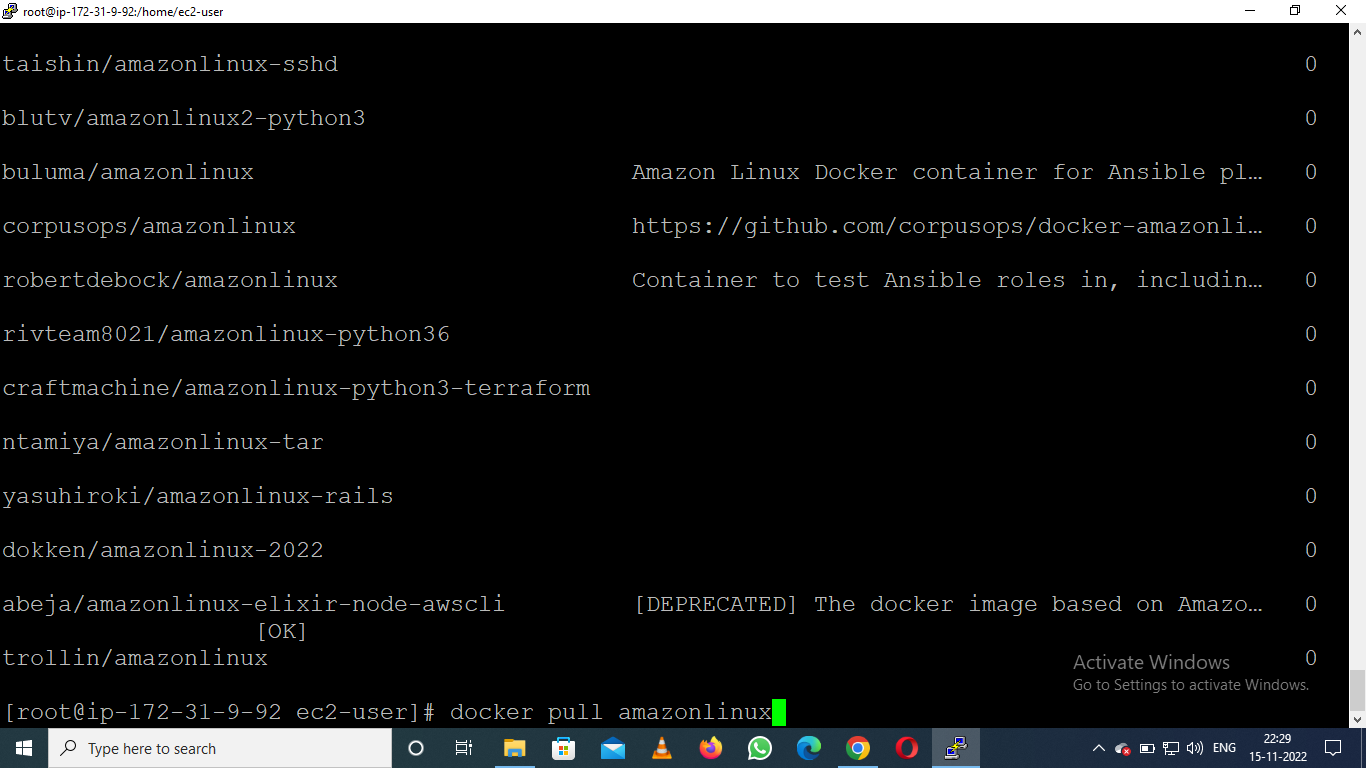
* Search the AmazonLinux Image from Docker Hub

# docker search amazonlinux



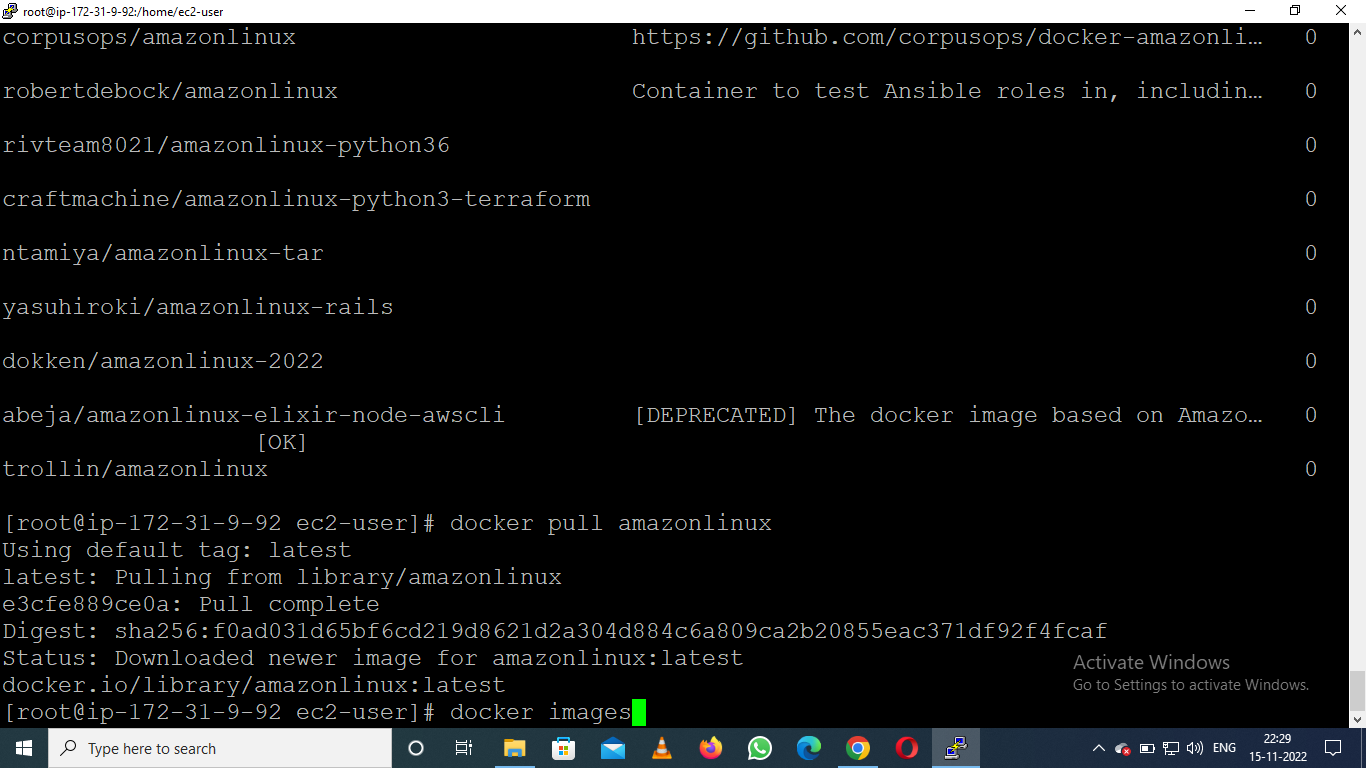
* Pull Images

# docker pull amazonlinux



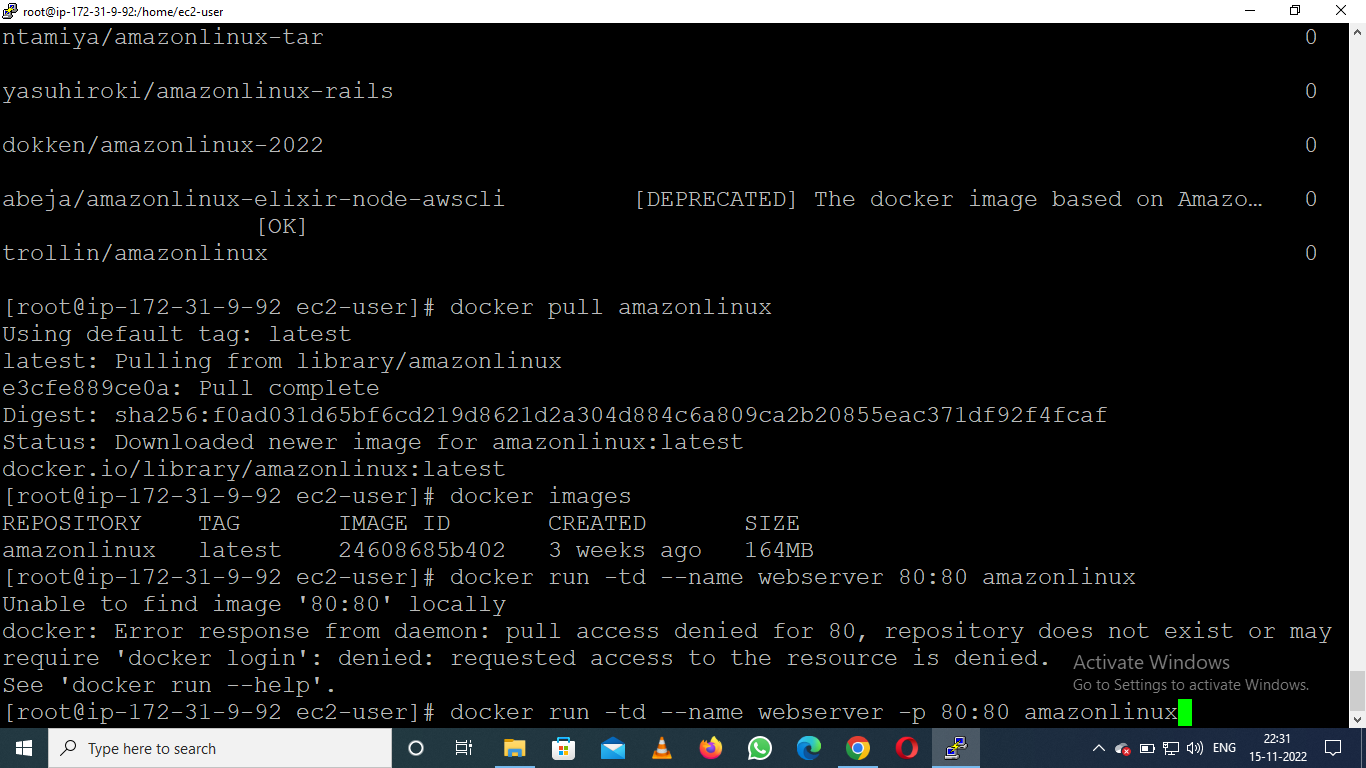
* Check the Images

# docker images



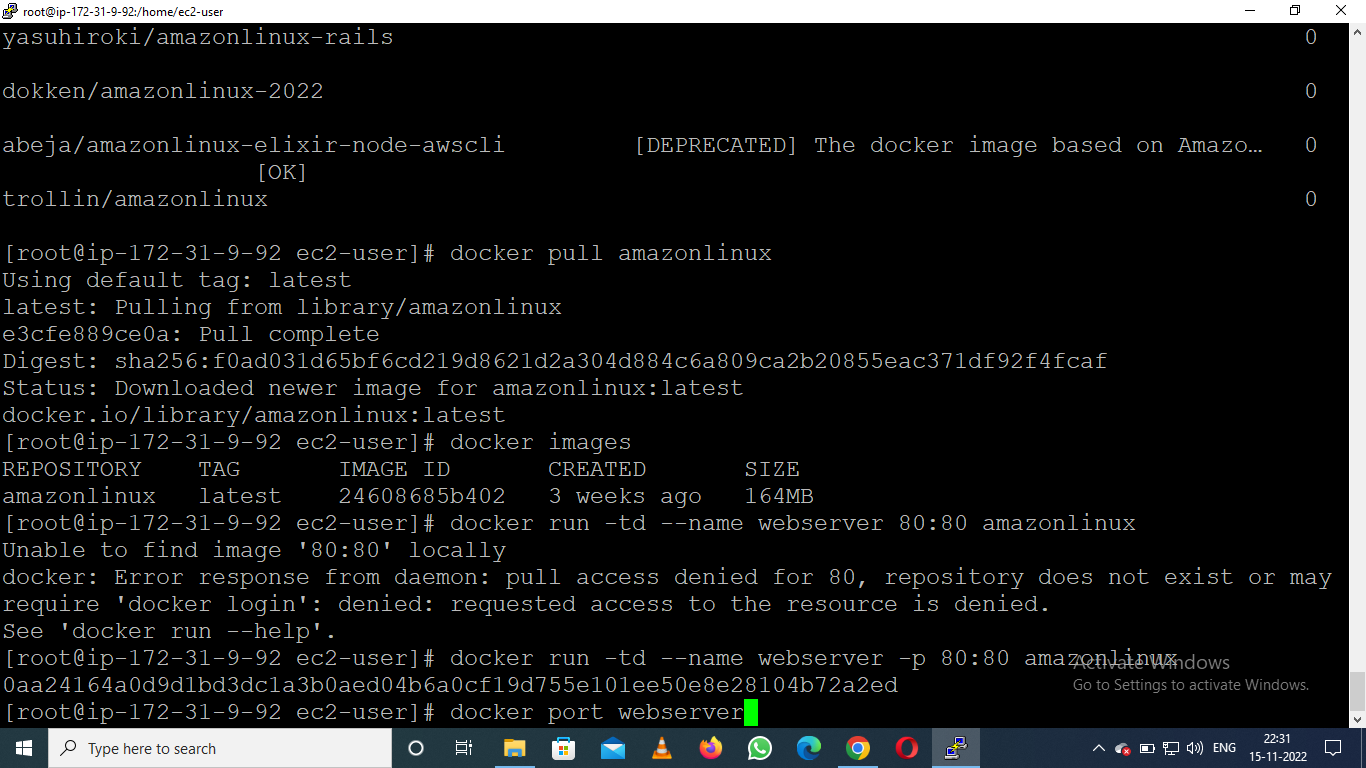
* Run the container with existence image and expose the port 80

# docker run -td --name webserver -p 80:80 amazonlinux



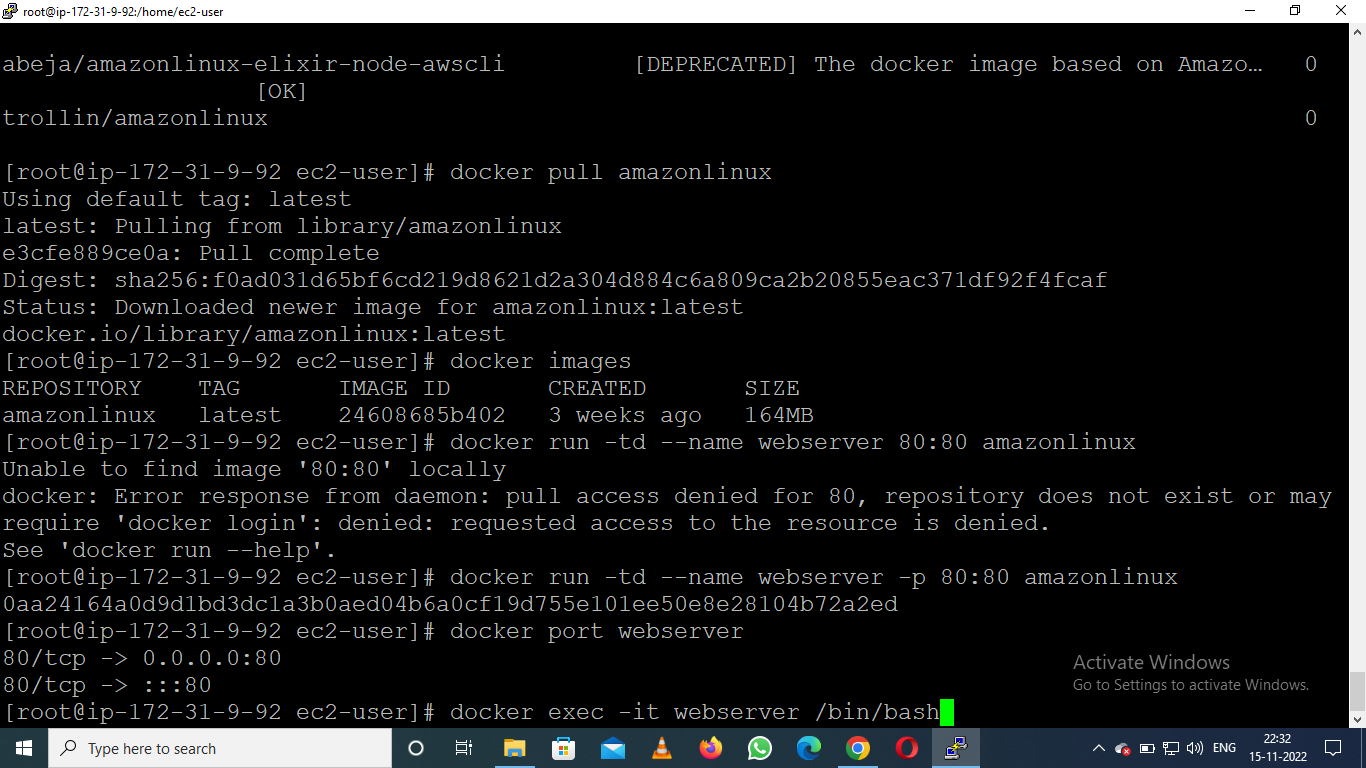
* Check the port is open or not

# docker port webserver



* Execute the Command

# docker exec -it webserver /bin/bash

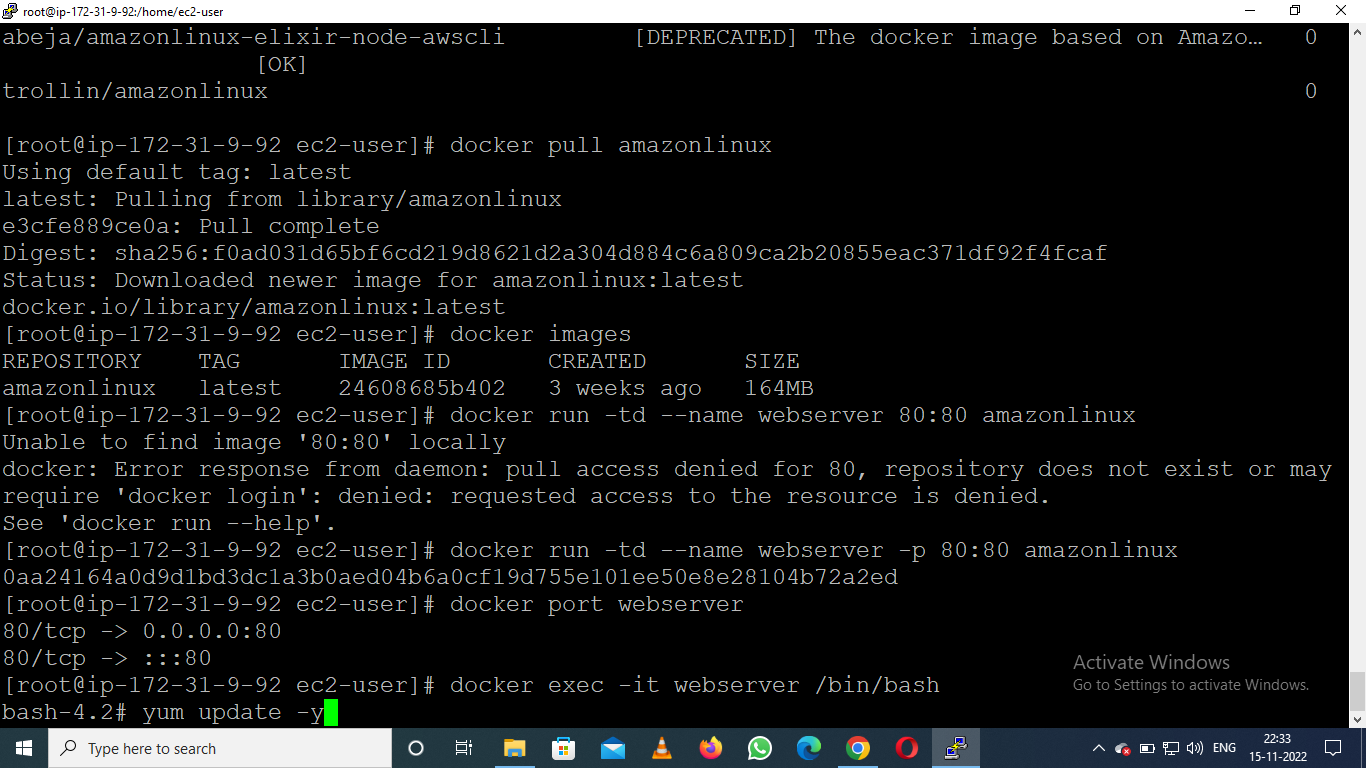


### *****Now you will enter into the Docker container Terminal*****

## Docker Container Terminal

* Update the container

# yum update –y

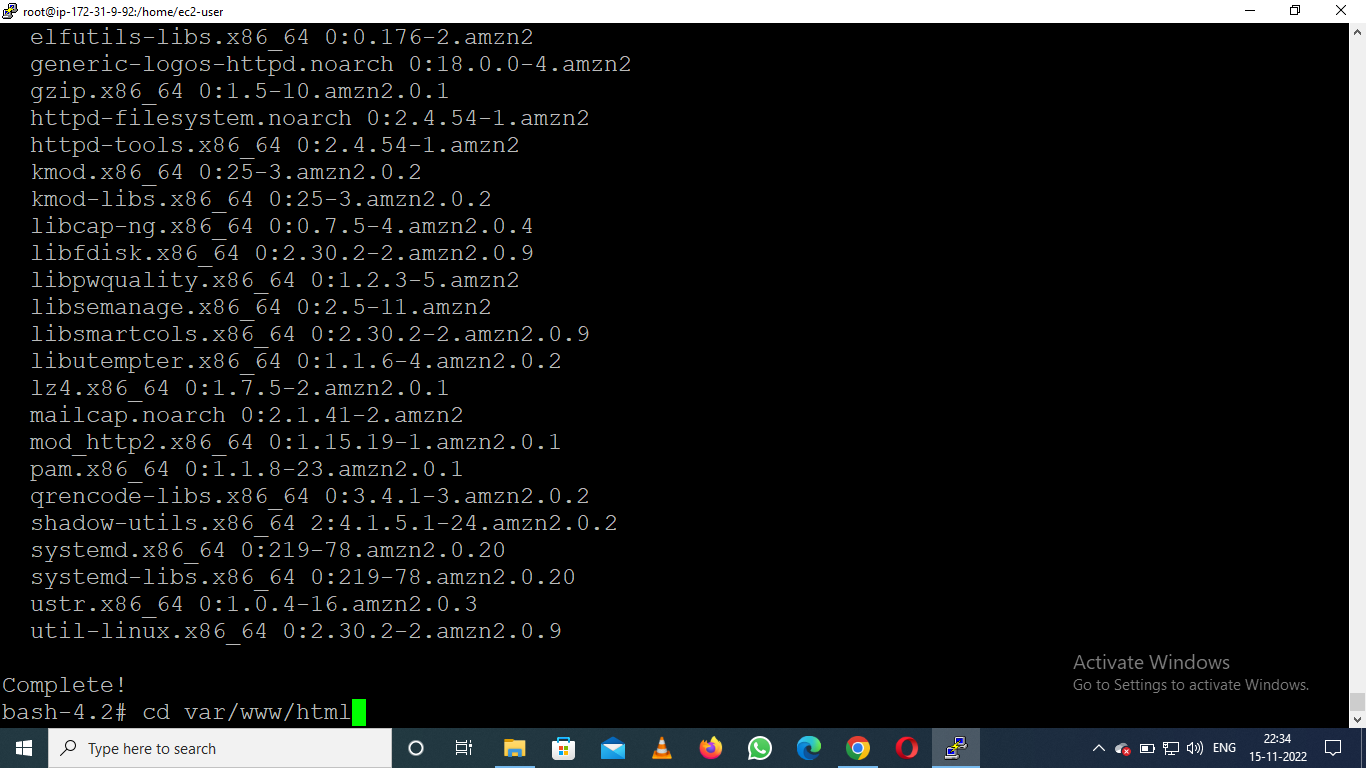


* Install the Apache2 web server

# yum install httpd –y

* Open the html directory for deploy the html(index.html) file

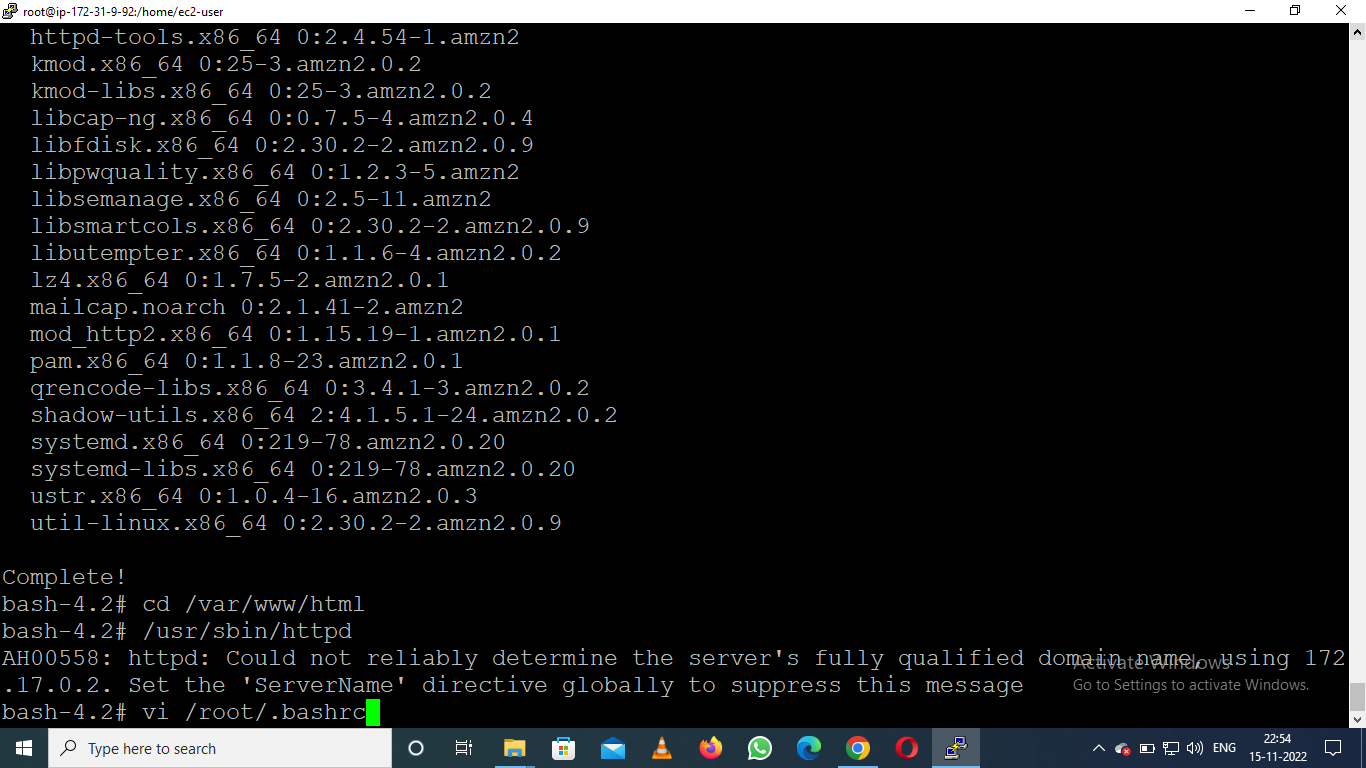
# cd var/www/html



* Run these command for configuration

# /usr/sbin/httpd

# vi /root/.bashrc --- press "esc key" --> :wq --> "enter key"

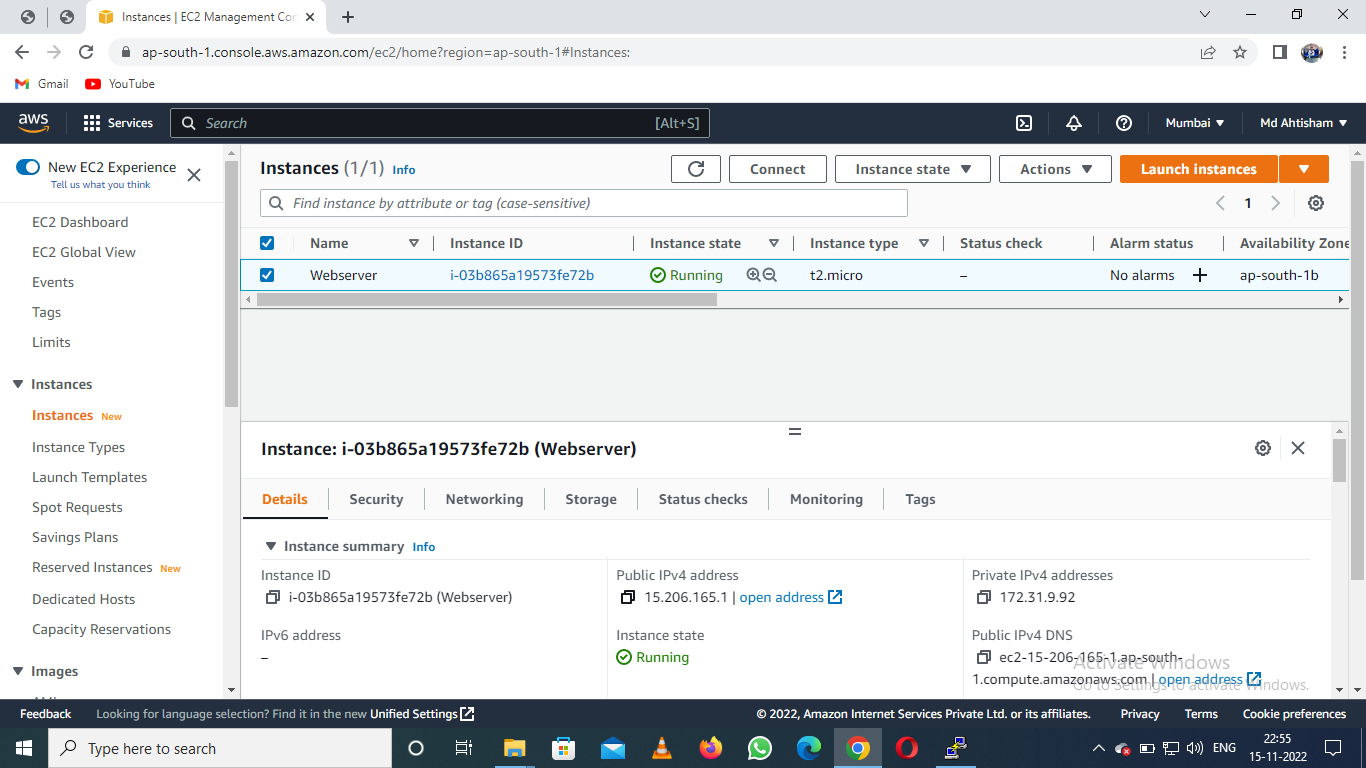


* Create the index.html file in html directory

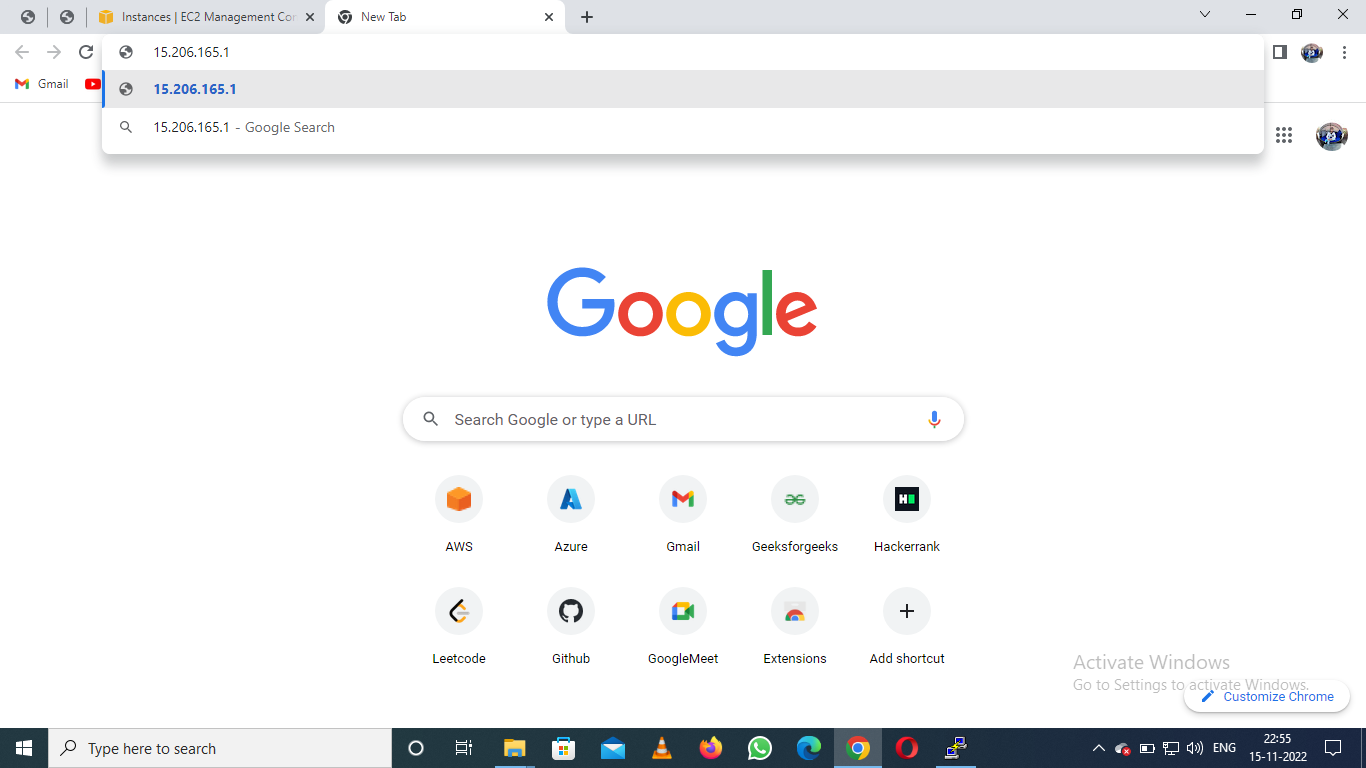
# vi index.html



* Deploy your code in HTML File
* Copy the IP Address from AWS EC2 Instance



* Paste the IP Address in Browser URL



* Now we can see the website is hosted in Docker container

