Assignment–6

Module-9: Containerization, Docker, and Docker Hub

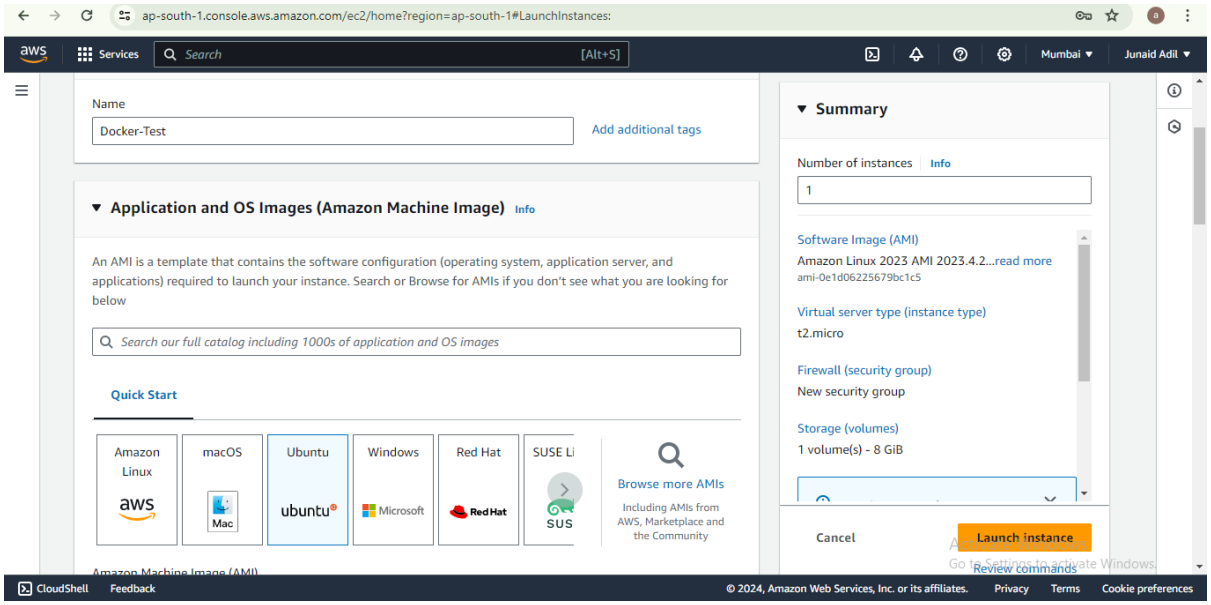
Submitted by : Shaik Junaid Adil

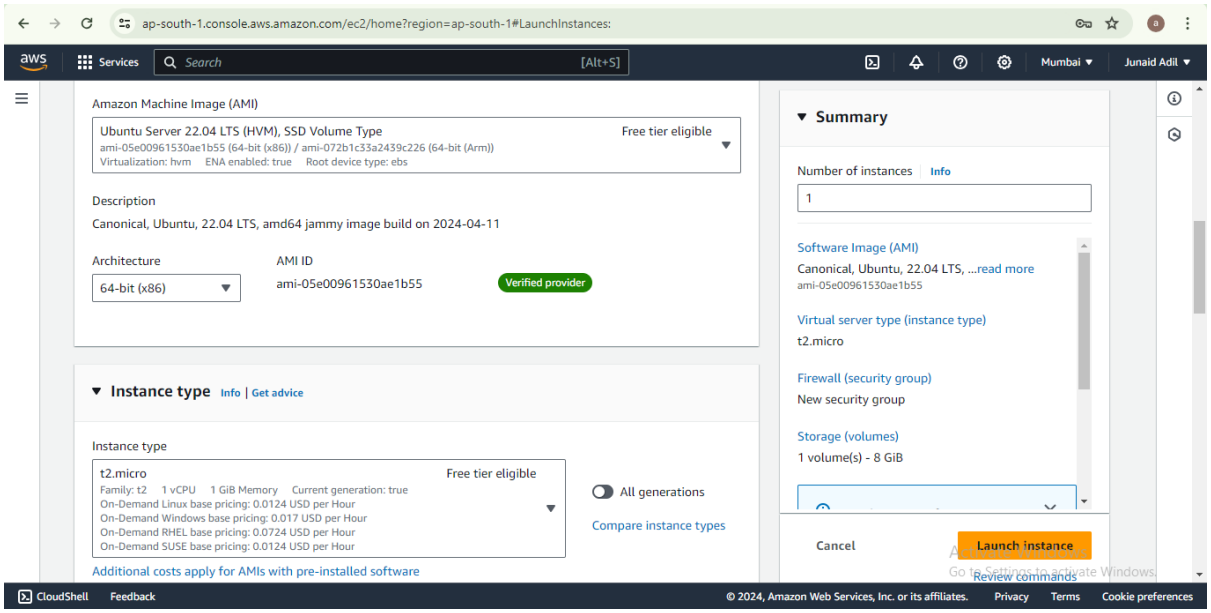
Date of Submission: 26-06-2024

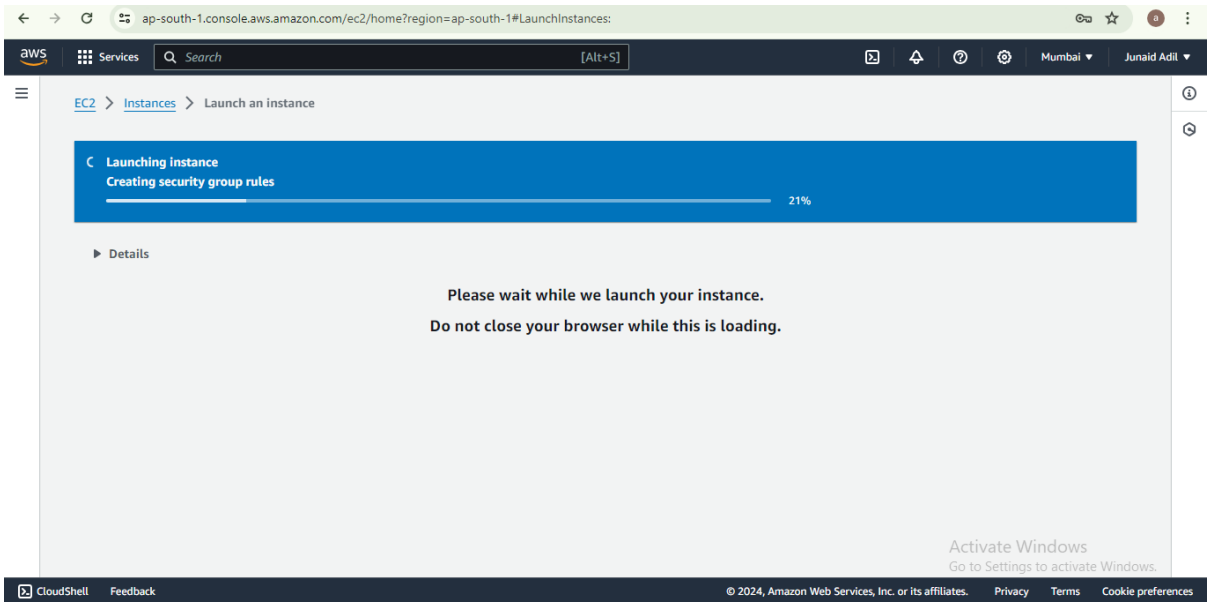
Submitted to: Vikul

L1 - Create Docker file and build the docker container Application Image for the application build in Jenkins Module

Step 1: Create an Instance






ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Services
Search
[Alt+S]
Mumbai
Junaid Adil
EC2 > Instances > Launch an instance
Launching instance
Creating security group rules
21%
Details
Please wait while we launch your instance.
Do not close your browser while this is loading.
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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Privacy
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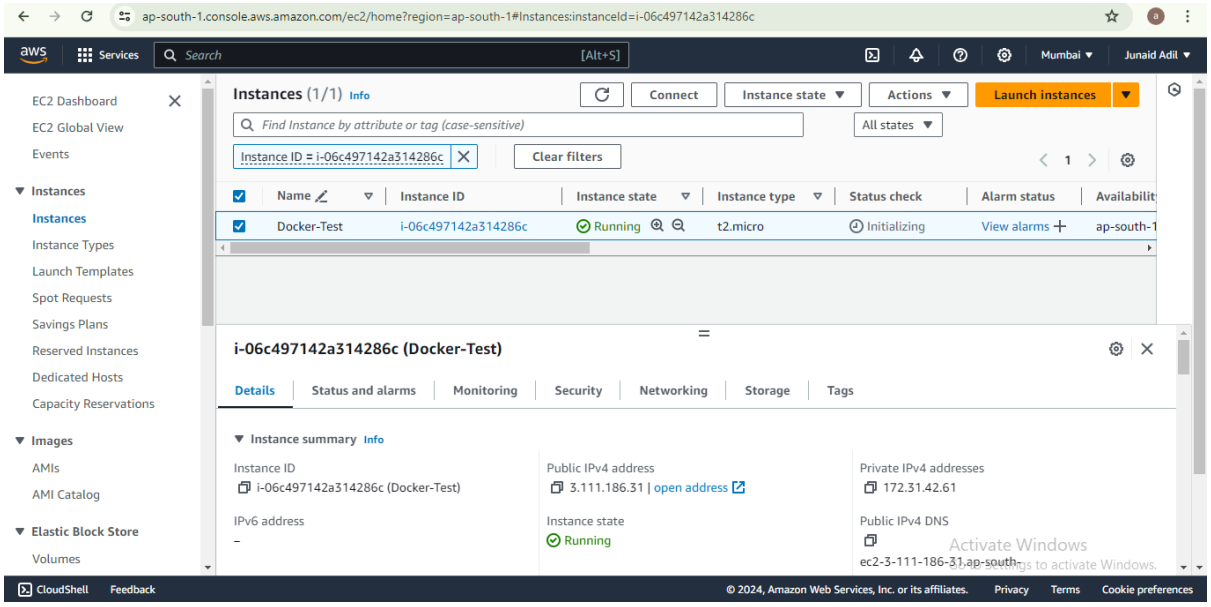
Cookie preferences


ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:instanceId=i-06c497142a314286c
Services
Search
[Alt+S]
Mumbai
Junaid Adil
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance ID = i-06c497142a314286c
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availabilit
Docker-Test
i-06c497142a314286c
Running
t2.micro
Initializing
View alarms
ap-south-1
i-06c497142a314286c (Docker-Test)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-06c497142a314286c (Docker-Test)
Public IPv4 address
3.111.186.31 | open address
Private IPv4 addresses
172.31.42.61
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-3-111-186-31.ap-south-
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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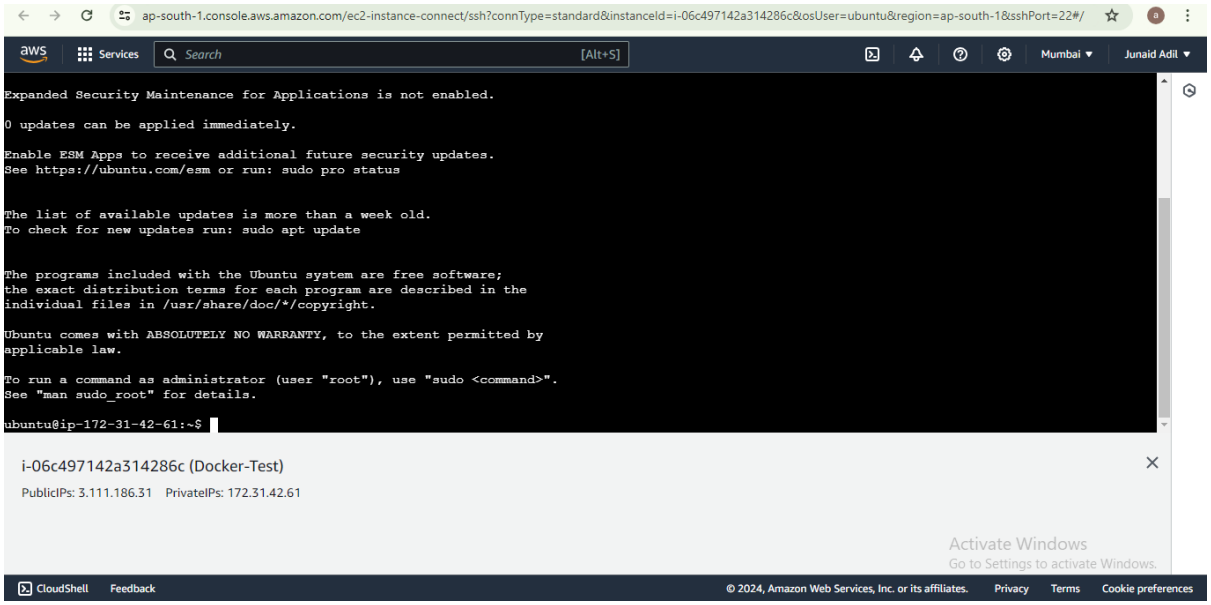
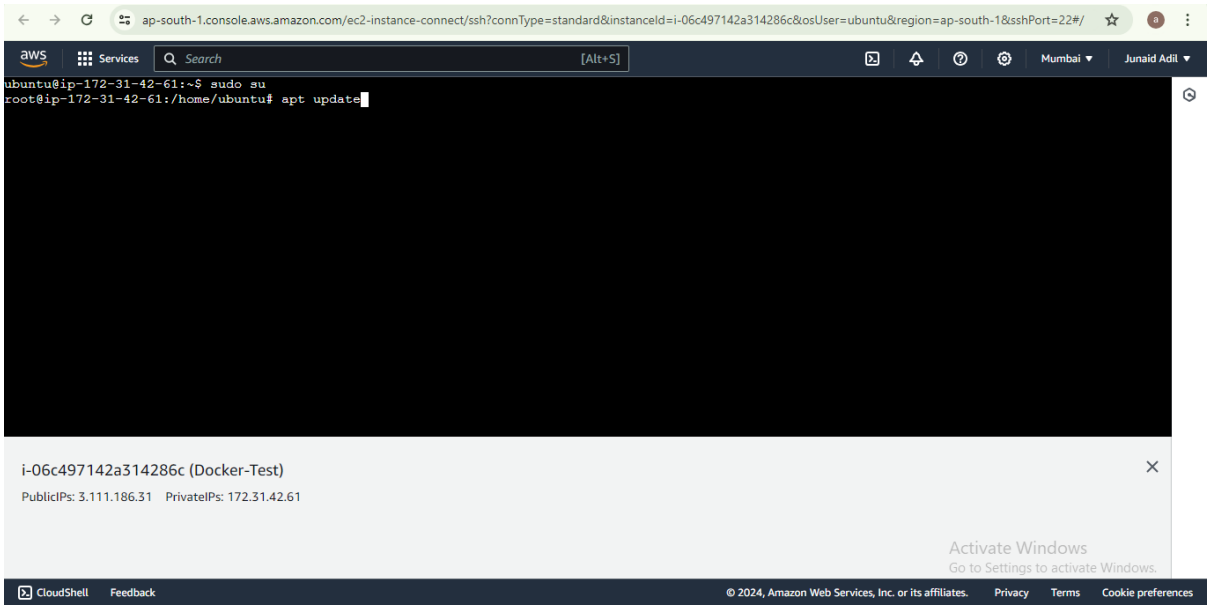
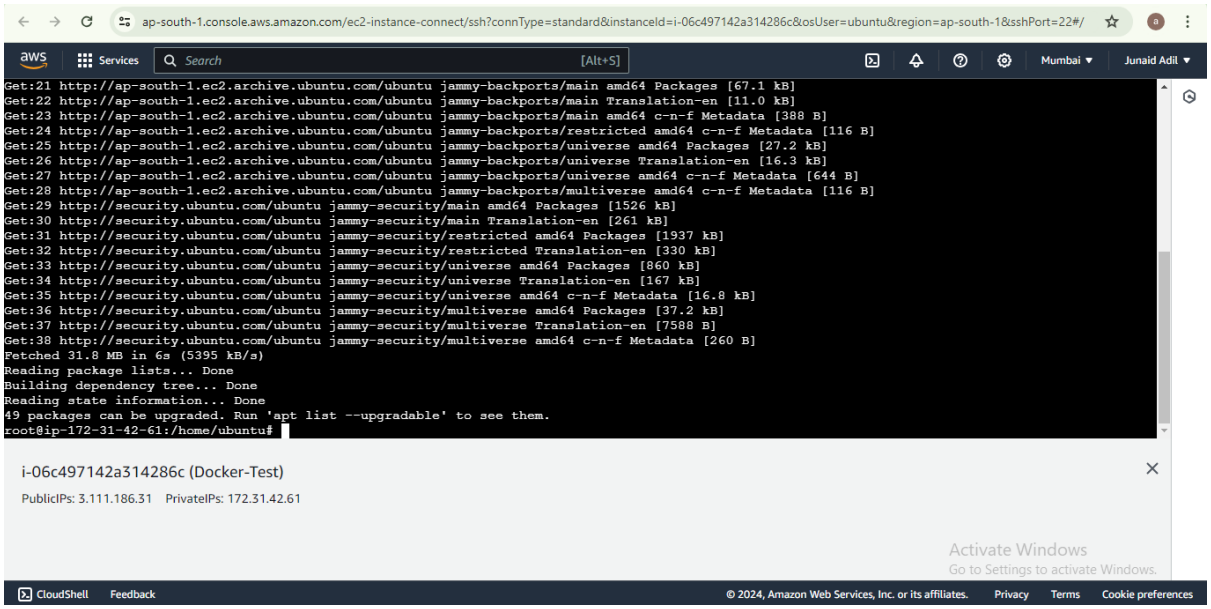
Step 2: Connect to the Instance

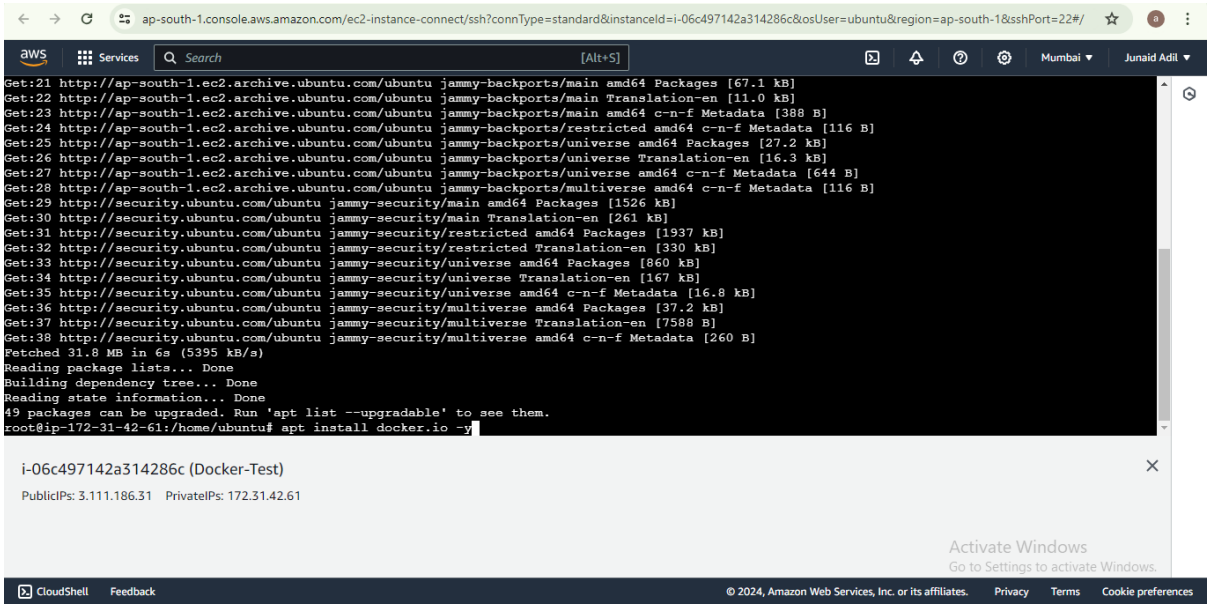


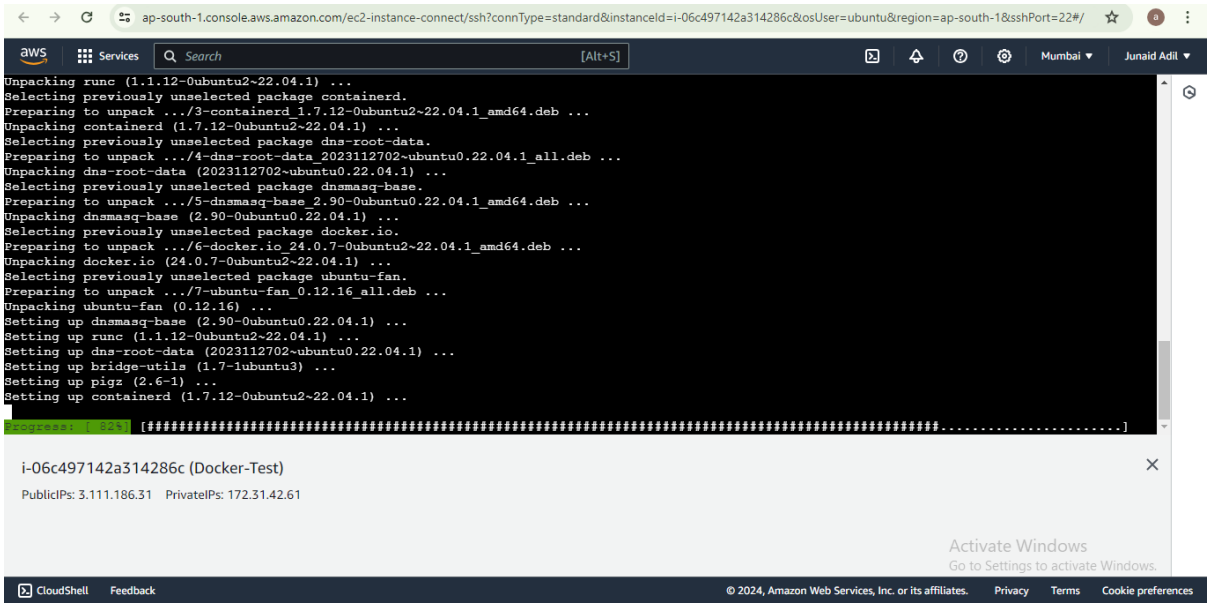
Step 3: Become root user and run the command to update packages **“apt update”**





Step 4: Install Docker using command **“apt install docker.io -y”**




ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06c497142a314286c&osUser=ubuntu&region=ap-south-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Mumbai
Junaid Adil
Unpacking runc (1.1.12-0ubuntu2~22.04.1) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.7.12-0ubuntu2~22.04.1_amd64.deb ...
Unpacking containerd (1.7.12-0ubuntu2~22.04.1) ...
Selecting previously unselected package dns-root-data.
Preparing to unpack .../4-dns-root-data_2023112702~ubuntu0.22.04.1_all.deb ...
Unpacking dns-root-data (2023112702~ubuntu0.22.04.1) ...
Selecting previously unselected package dnsmasq-base.
Preparing to unpack .../5-dnsmasq-base_2.90-0ubuntu0.22.04.1_amd64.deb ...
Unpacking dnsmasq-base (2.90-0ubuntu0.22.04.1) ...
Selecting previously unselected package docker.io.
Preparing to unpack .../6-docker.io_24.0.7-0ubuntu2~22.04.1_amd64.deb ...
Unpacking docker.io (24.0.7-0ubuntu2~22.04.1) ...
Selecting previously unselected package ubuntu-fan.
Preparing to unpack .../7-ubuntu-fan_0.12.16_all.deb ...
Unpacking ubuntu-fan (0.12.16) ...
Setting up dnsmasq-base (2.90-0ubuntu0.22.04.1) ...
Setting up runc (1.1.12-0ubuntu2~22.04.1) ...
Setting up dns-root-data (2023112702~ubuntu0.22.04.1) ...
Setting up bridge-utils (1.7-1ubuntu3) ...
Setting up pigz (2.6-1) ...
Setting up containerd (1.7.12-0ubuntu2~22.04.1) ...
Progress: [82%] [###.....................]
i-06c497142a314286c (Docker-Test)
PublicIPs: 3.111.186.31 PrivateIPs: 172.31.42.61
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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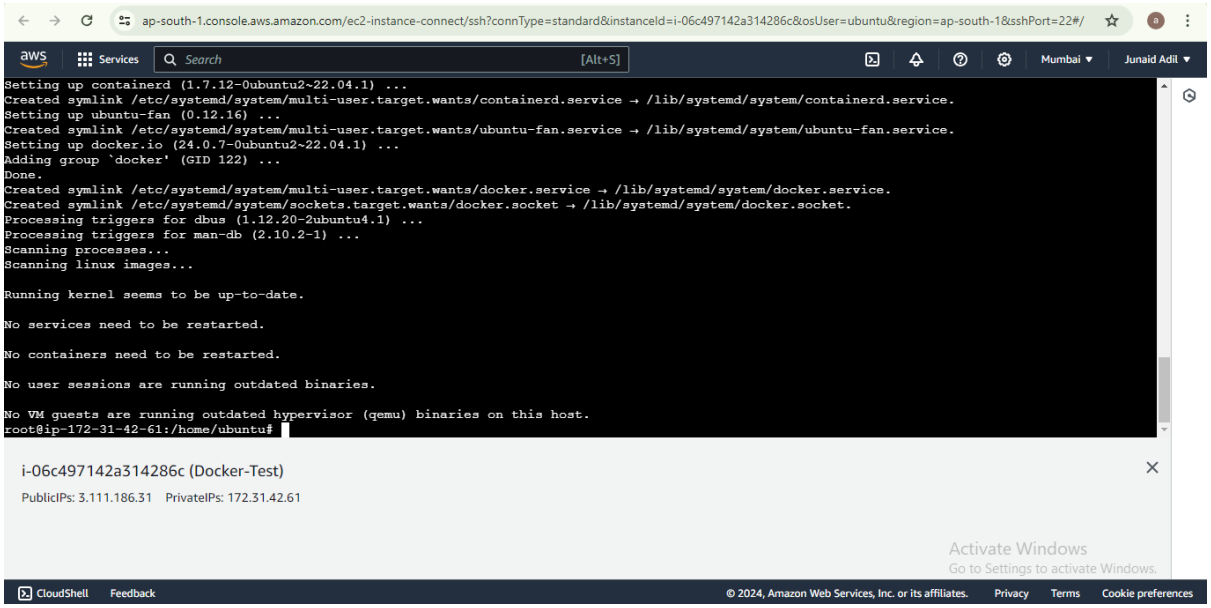
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06c497142a314286c&osUser=ubuntu&region=ap-south-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Mumbai
Junaid Adil
Setting up containerd (1.7.12-0ubuntu2~22.04.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up ubuntu-fan (0.12.16) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service → /lib/systemd/system/ubuntu-fan.service.
Setting up docker.io (24.0.7-0ubuntu2~22.04.1) ...
Adding group `docker' (GID 122) ...
Done.
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Processing triggers for dbus (1.12.20-2ubuntu4.1) ...
Processing triggers for man-db (2.10.2-1) ...
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-172-31-42-61:/home/ubuntu#
i-06c497142a314286c (Docker-Test)
PublicIPs: 3.111.186.31 PrivateIPs: 172.31.42.61
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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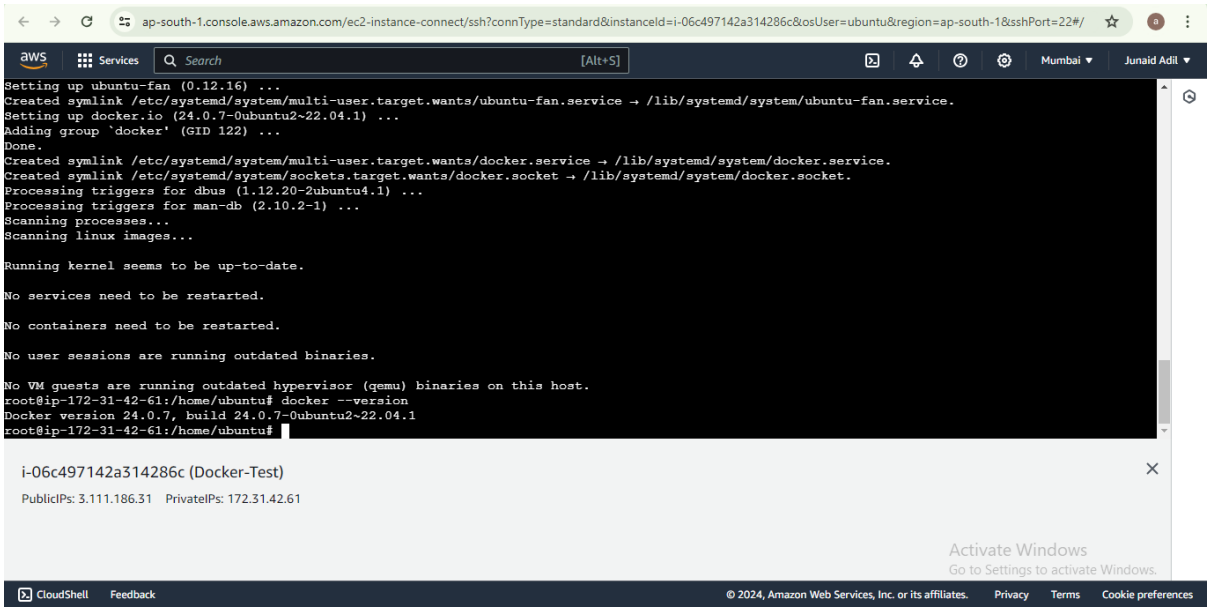
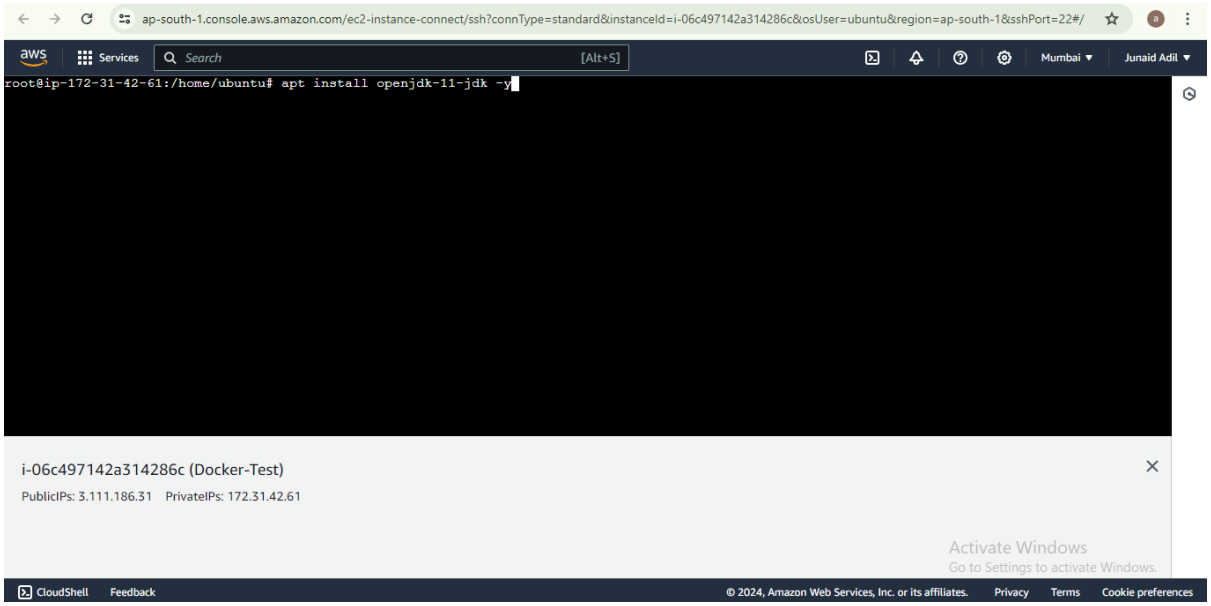
Step 5: we can check the docker version using command **“docker --version”**

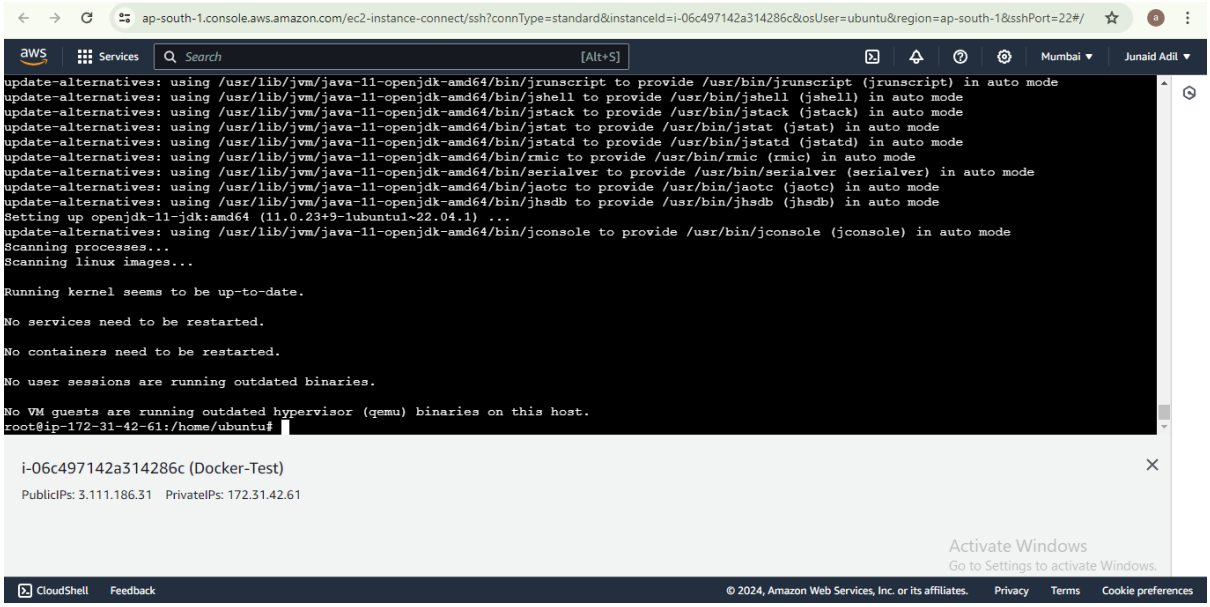


Step 6: Install Java, Maven using command

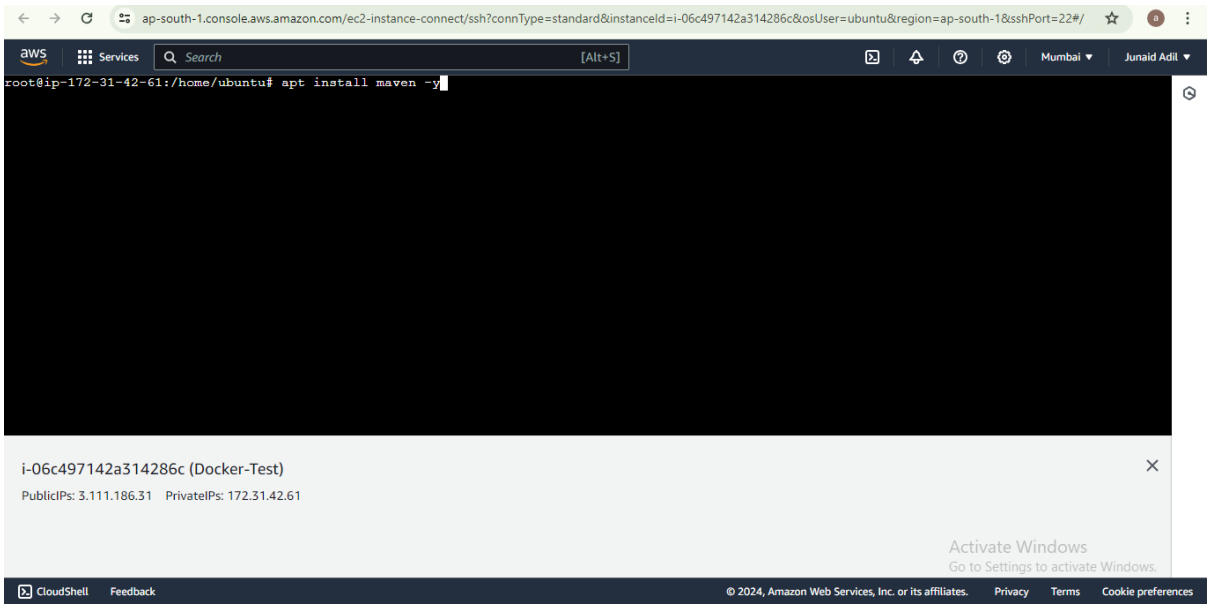
“Java : **apt install openjdk-11-jdk -y”**

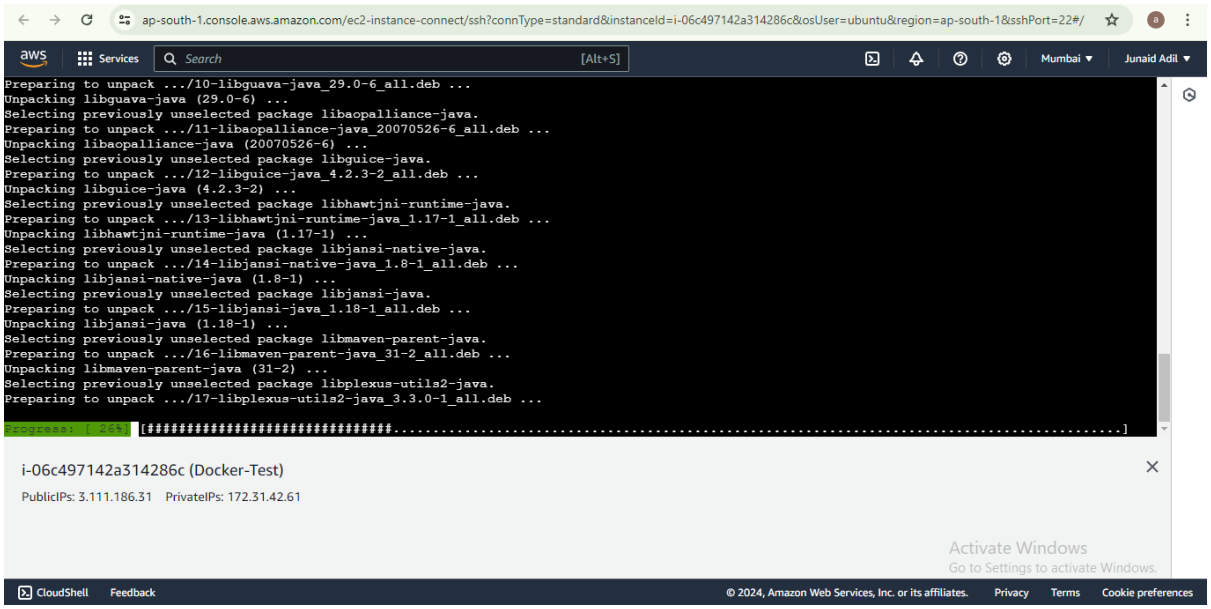
“Maven : **apt install maven -y”**





Maven Installation:




ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06c497142a314286c&osUser=ubuntu&region=ap-south-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Mumbai
Junaid Adil
Preparing to unpack .../10-libguava-java_29.0-6_all.deb ...
Unpacking libguava-java (29.0-6) ...
Selecting previously unselected package libaopalliance-java.
Preparing to unpack .../11-libaopalliance-java_20070526-6_all.deb ...
Unpacking libaopalliance-java (20070526-6) ...
Selecting previously unselected package libguice-java.
Preparing to unpack .../12-libguice-java_4.2.3-2_all.deb ...
Unpacking libguice-java (4.2.3-2) ...
Selecting previously unselected package libhawtjni-runtime-java.
Preparing to unpack .../13-libhawtjni-runtime-java_1.17-1_all.deb ...
Unpacking libhawtjni-runtime-java (1.17-1) ...
Selecting previously unselected package libjansi-native-java.
Preparing to unpack .../14-libjansi-native-java_1.8-1_all.deb ...
Unpacking libjansi-native-java (1.8-1) ...
Selecting previously unselected package libjansi-java.
Preparing to unpack .../15-libjansi-java_1.18-1_all.deb ...
Unpacking libjansi-java (1.18-1) ...
Selecting previously unselected package libmaven-parent-java.
Preparing to unpack .../16-libmaven-parent-java_31-2_all.deb ...
Unpacking libmaven-parent-java (31-2) ...
Selecting previously unselected package libplexus-utils2-java.
Preparing to unpack .../17-libplexus-utils2-java_3.3.0-1_all.deb ...
Progress: [25%] [###.....]
i-06c497142a314286c (Docker-Test)
PublicIPs: 3.111.186.31 PrivateIPs: 172.31.42.61
Activate Windows
Go to Settings to activate Windows.
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Feedback
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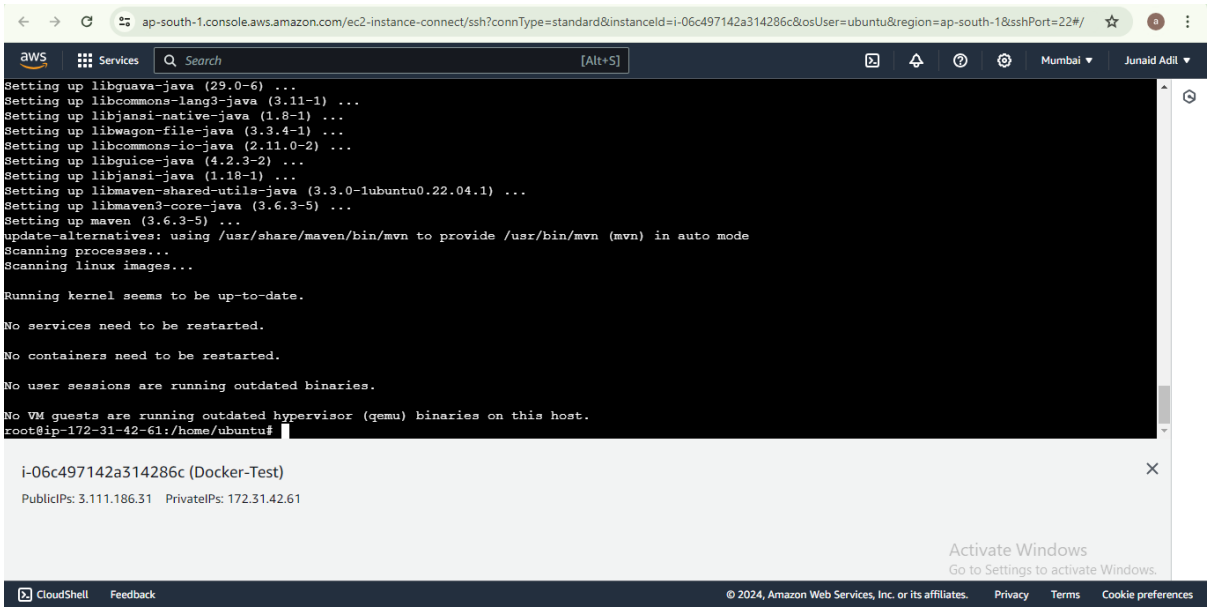
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06c497142a314286c&osUser=ubuntu&region=ap-south-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Mumbai
Junaid Adil
Setting up libguava-java (29.0-6) ...
Setting up libcommons-lang3-java (3.11-1) ...
Setting up libjansi-native-java (1.8-1) ...
Setting up libwagon-file-java (3.3.4-1) ...
Setting up libcommons-io-java (2.11.0-2) ...
Setting up libguice-java (4.2.3-2) ...
Setting up libjansi-java (1.18-1) ...
Setting up libmaven-shared-utils-java (3.3.0-1ubuntu0.22.04.1) ...
Setting up libmaven3-core-java (3.6.3-5) ...
Setting up maven (3.6.3-5) ...
update-alternatives: using /usr/share/maven/bin/mvn to provide /usr/bin/mvn (mvn) in auto mode
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-172-31-42-61:/home/ubuntu#
i-06c497142a314286c (Docker-Test)
PublicIPs: 3.111.186.31 PrivateIPs: 172.31.42.61
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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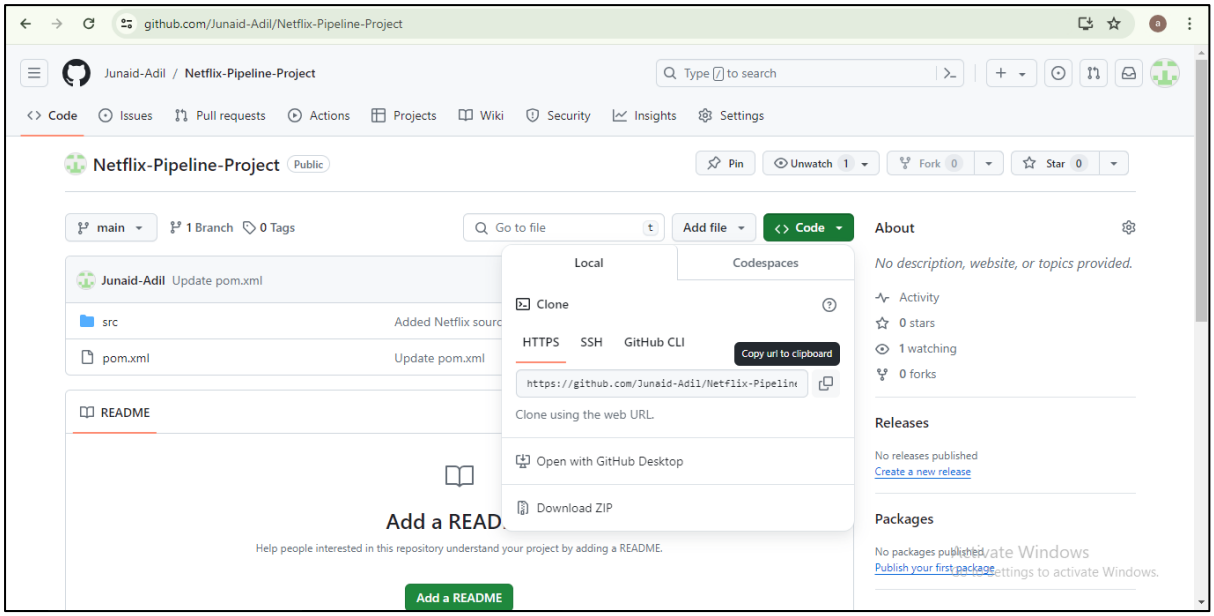
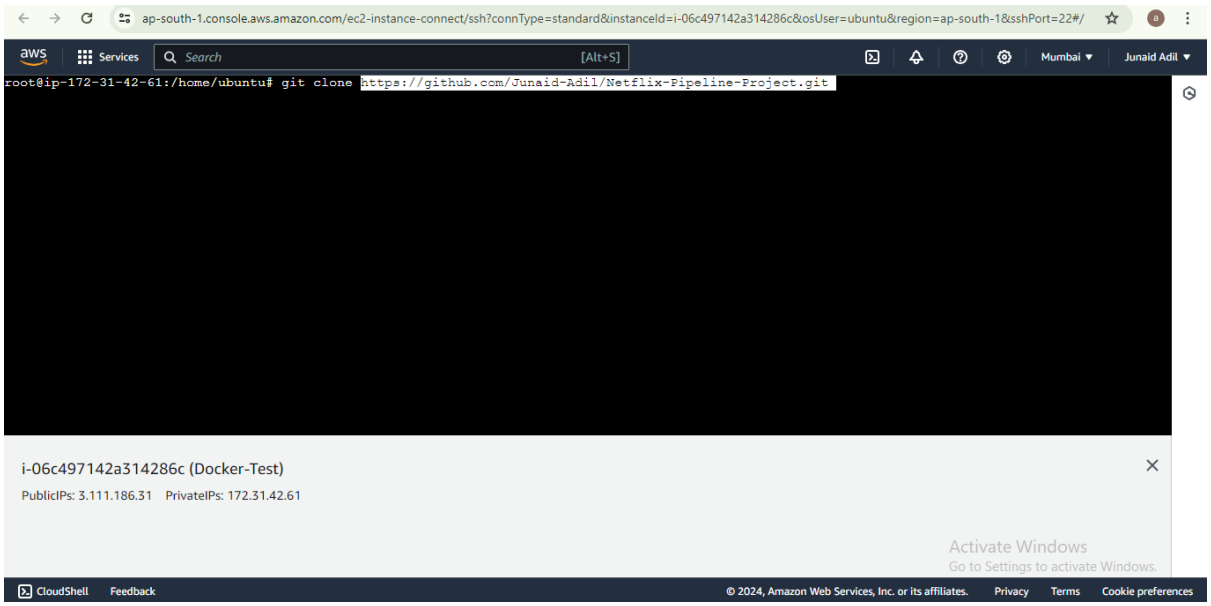
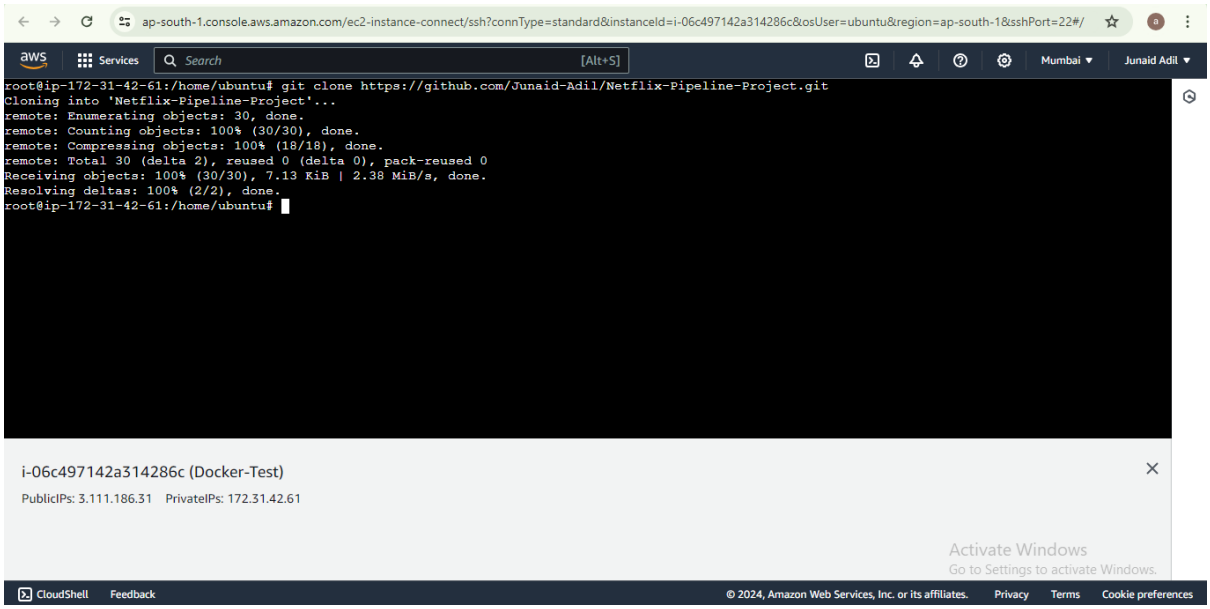
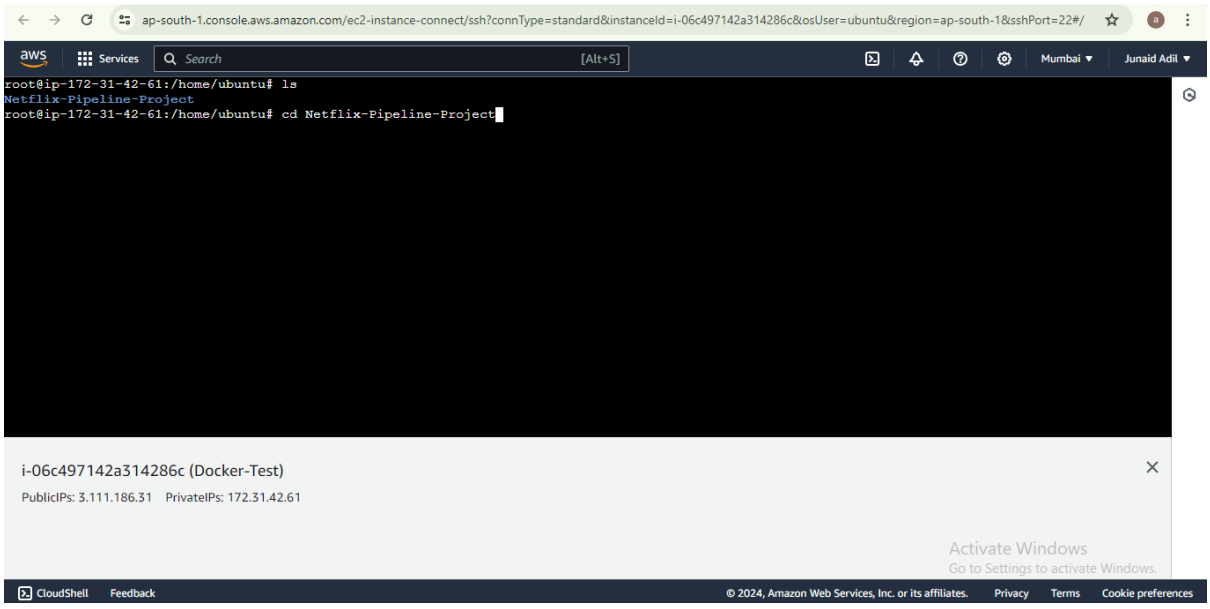
<u>Step 7:</u> Clone the Repository using command **“git clone <HTTPS code>”.** Where the Artifact is built and saved in a Repository “Netflix-Pipeline-Project”.



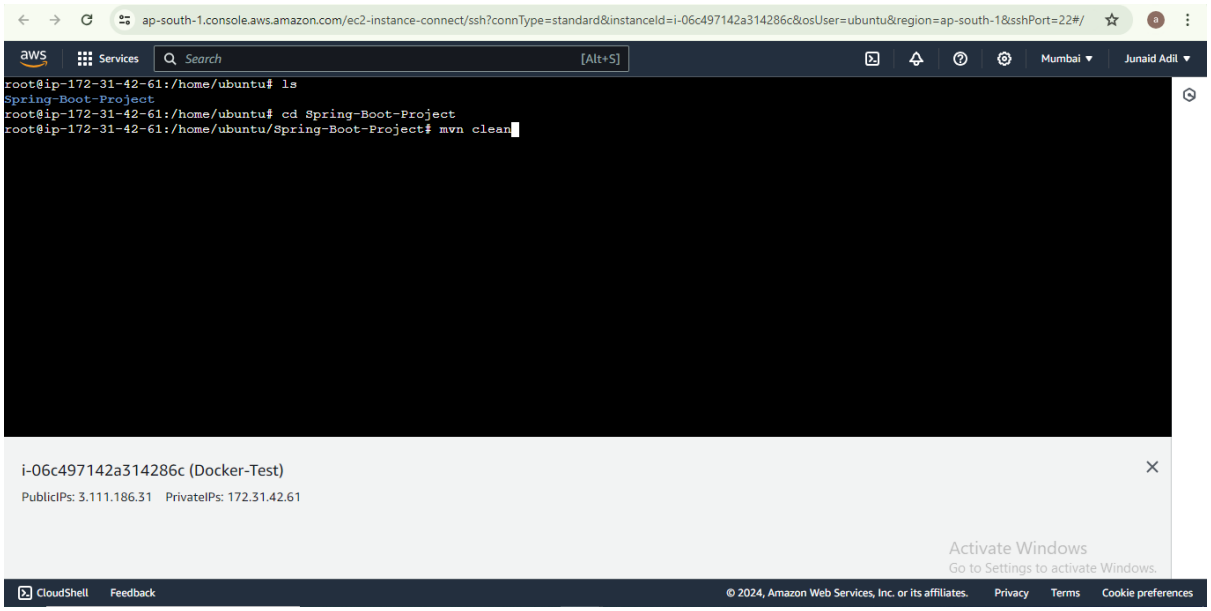


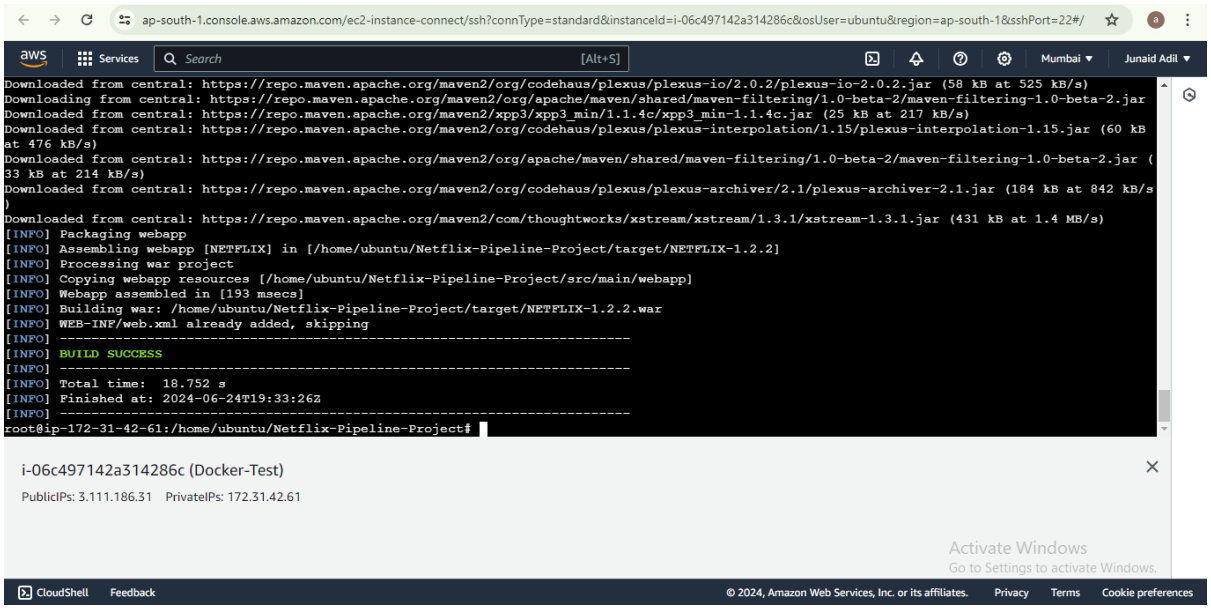


Step 8: Go to project directory

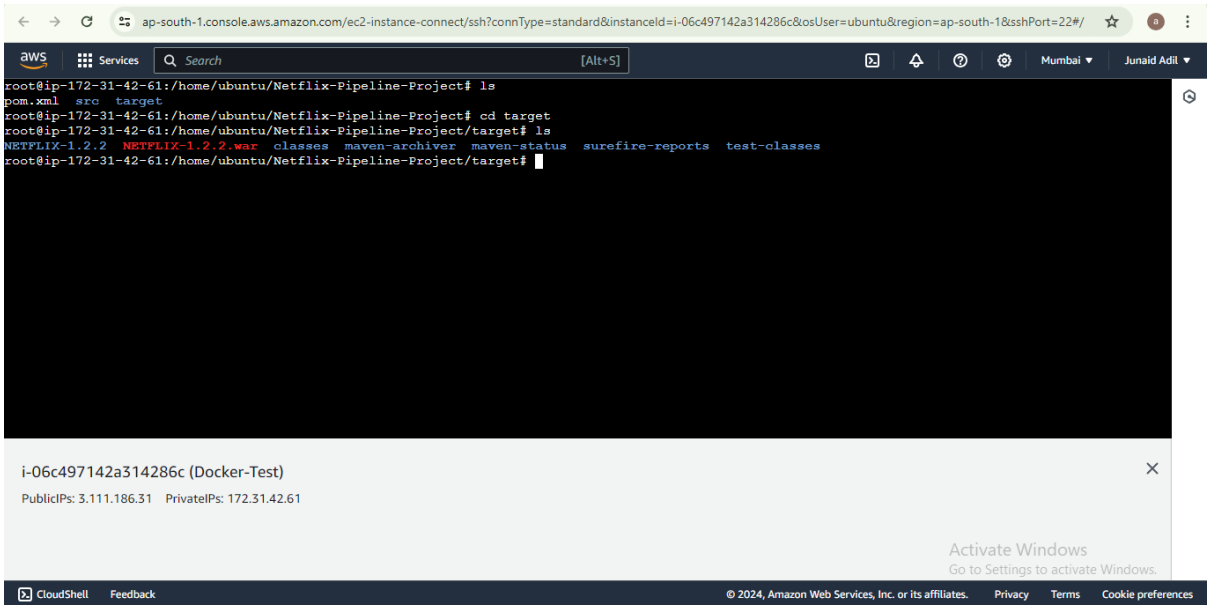


Step 9: Run command **“mvn clean”** and then execute **“mvn package”**

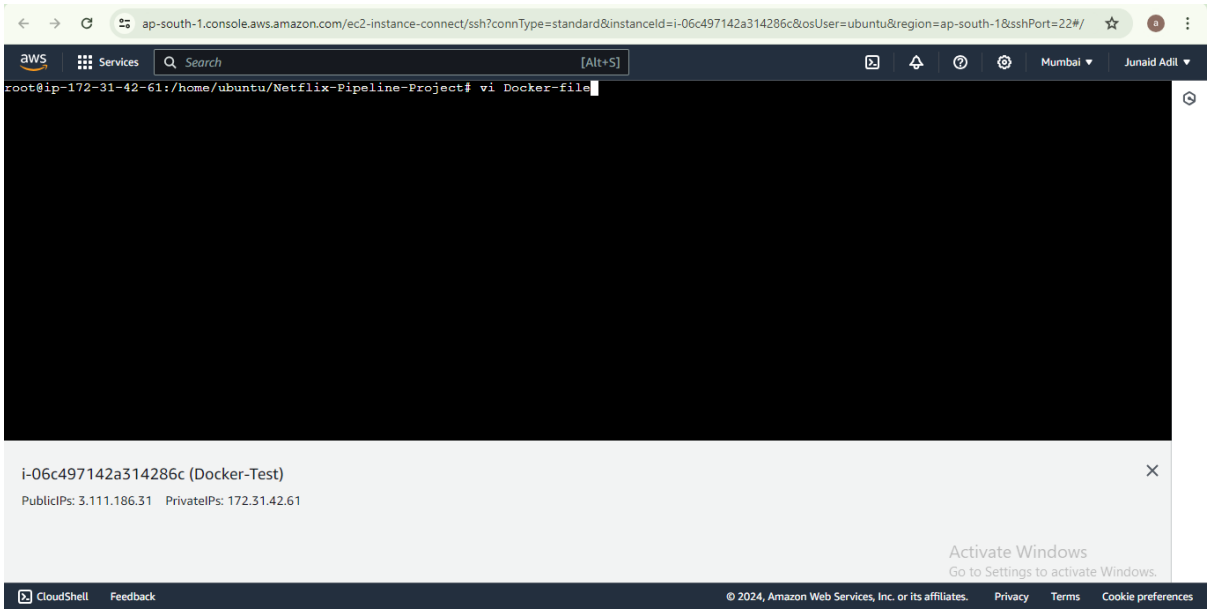




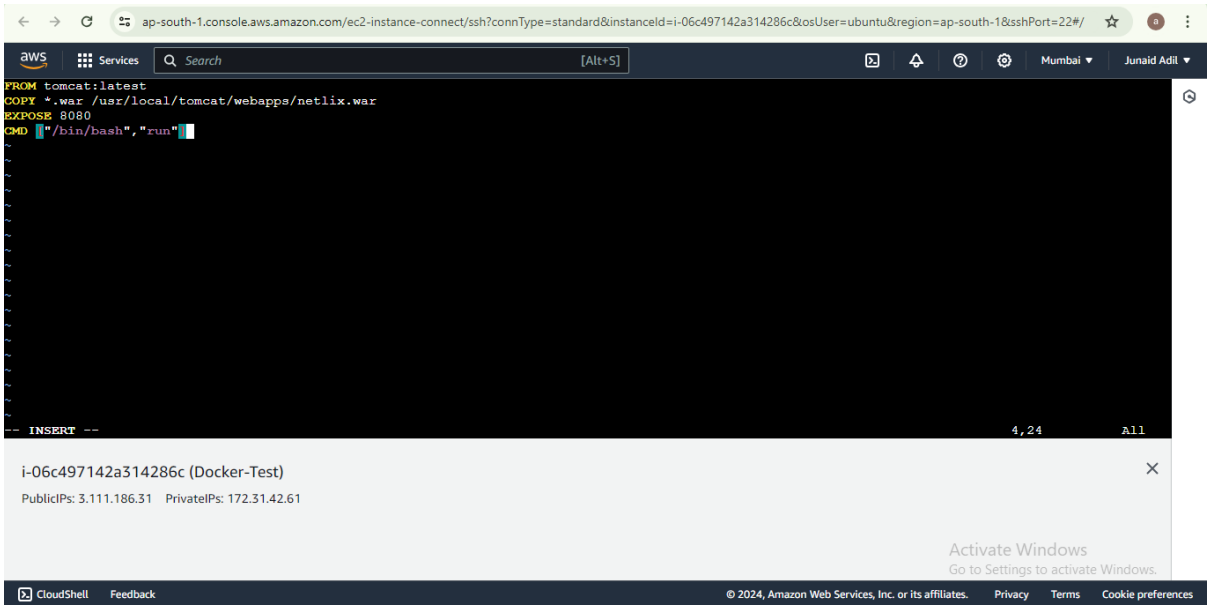
Step 10: we can check the .war file in Target folder. Execute command: **“ls”**



Step 11: Create a Docker file using command **“vi Docker-file”**

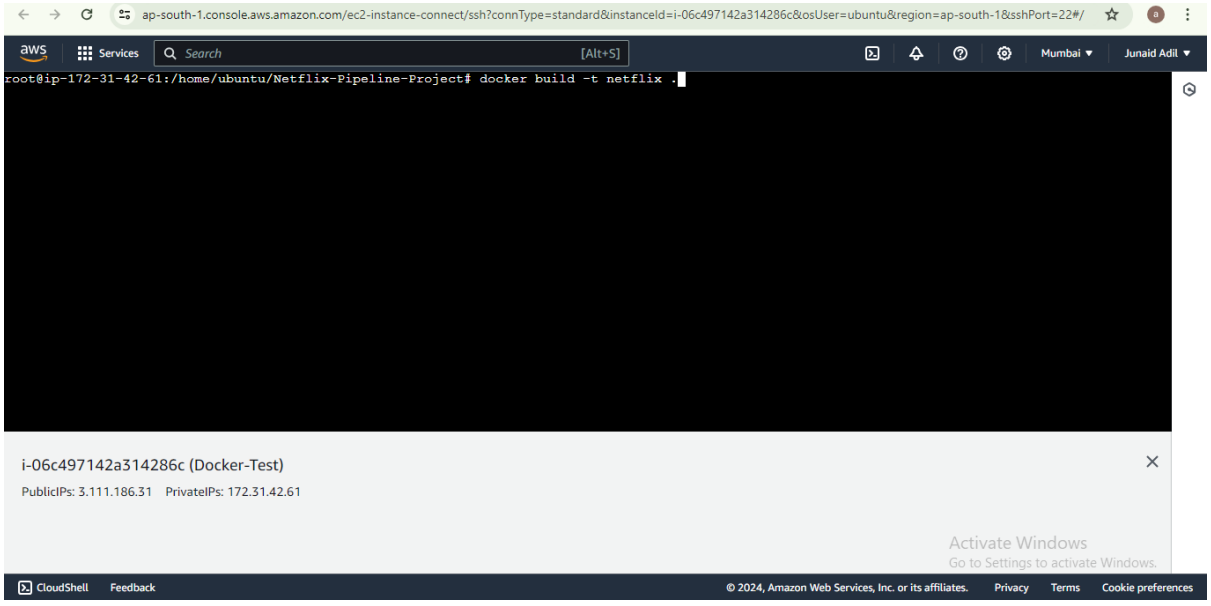


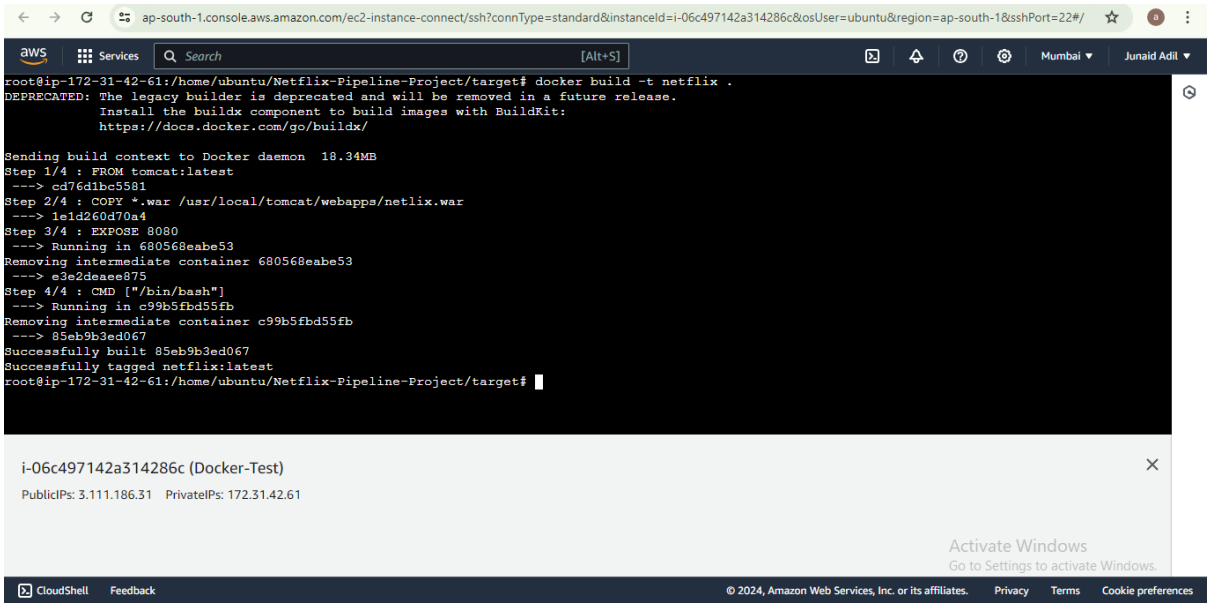
Add Instructions in the file.



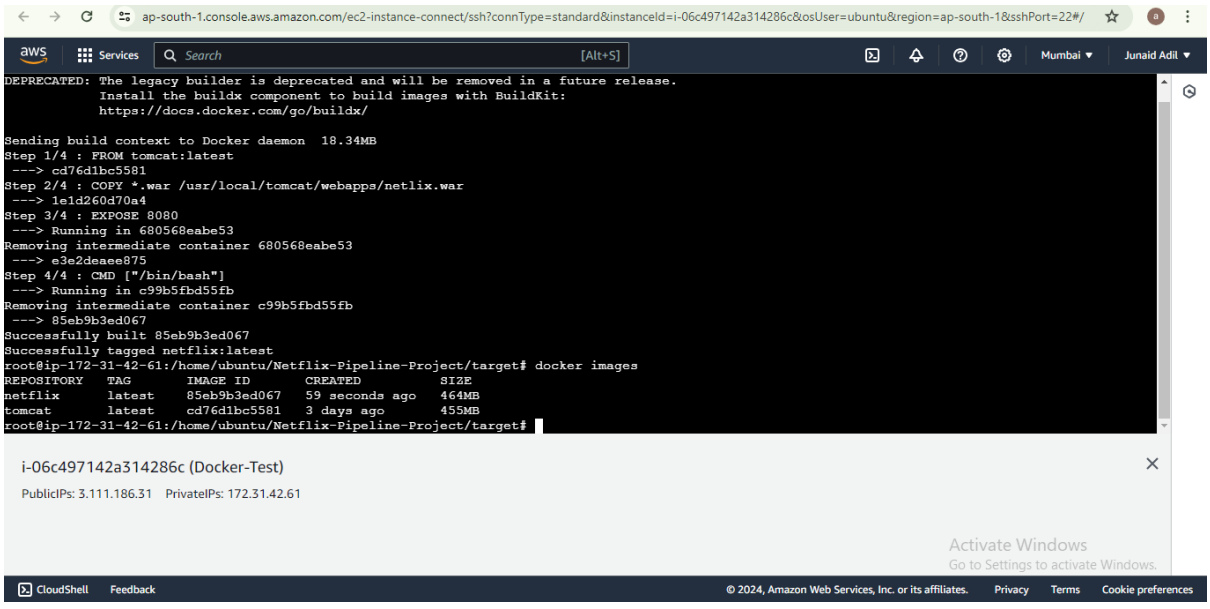
Step 12: Build the Image from the created Dockerfile.

Use command **“docker build -t netflix .”**



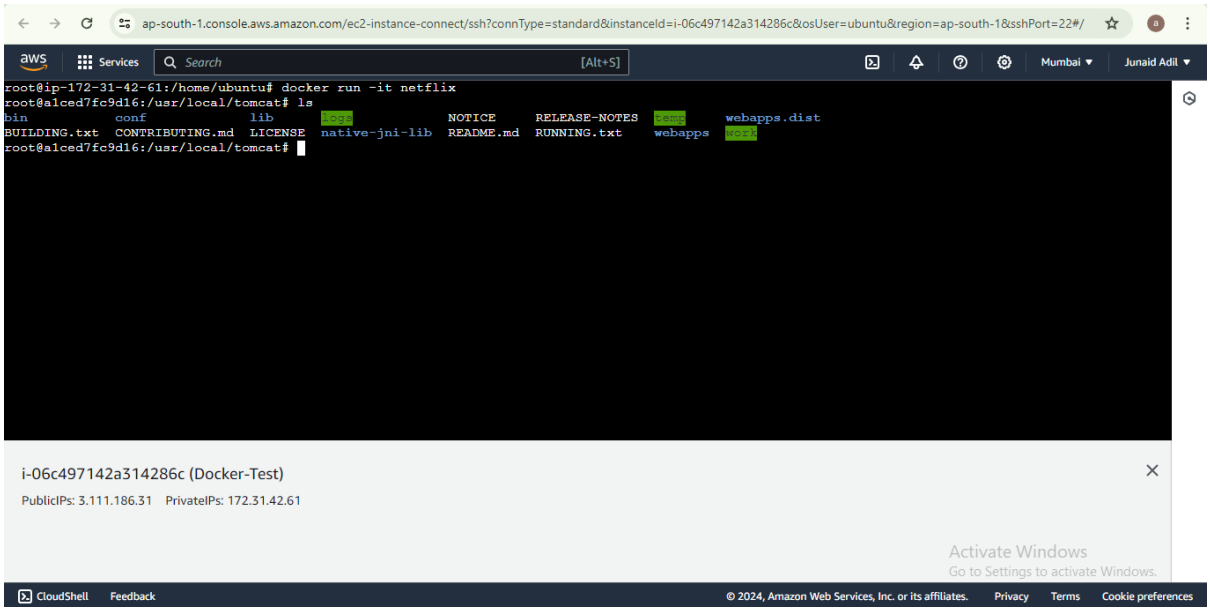


Step 13: Execute command **"docker images"** to check the images created



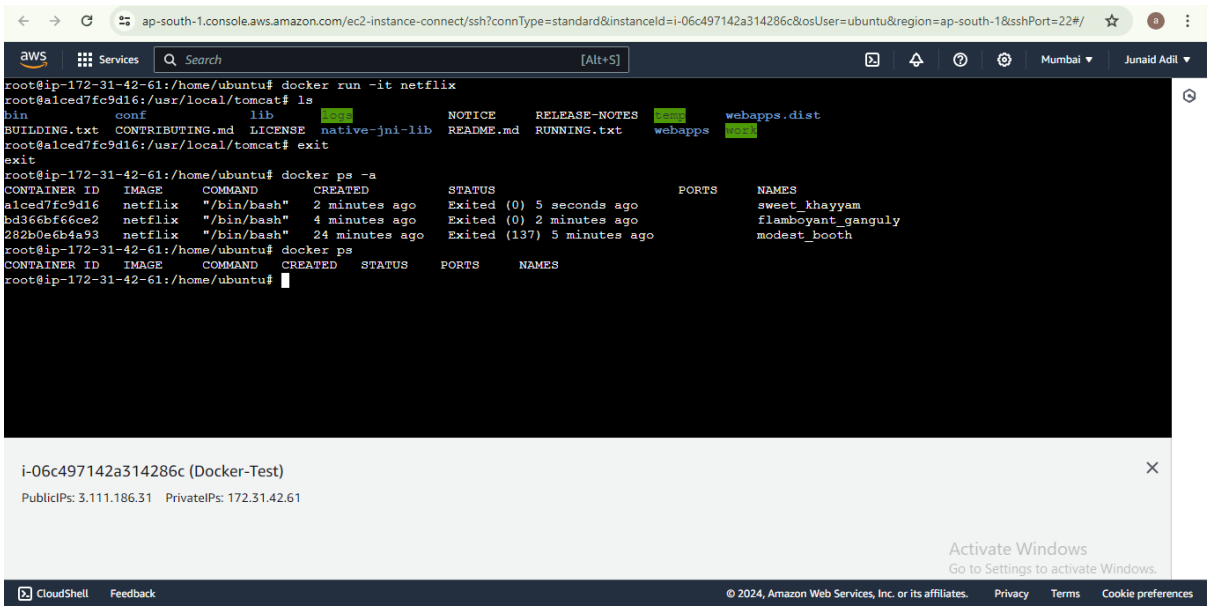
We can see the Images with the name Netflix has been created along with the Tomcat Image.

Step 14: Execute command **“docker run -it netflix”** to run the container.

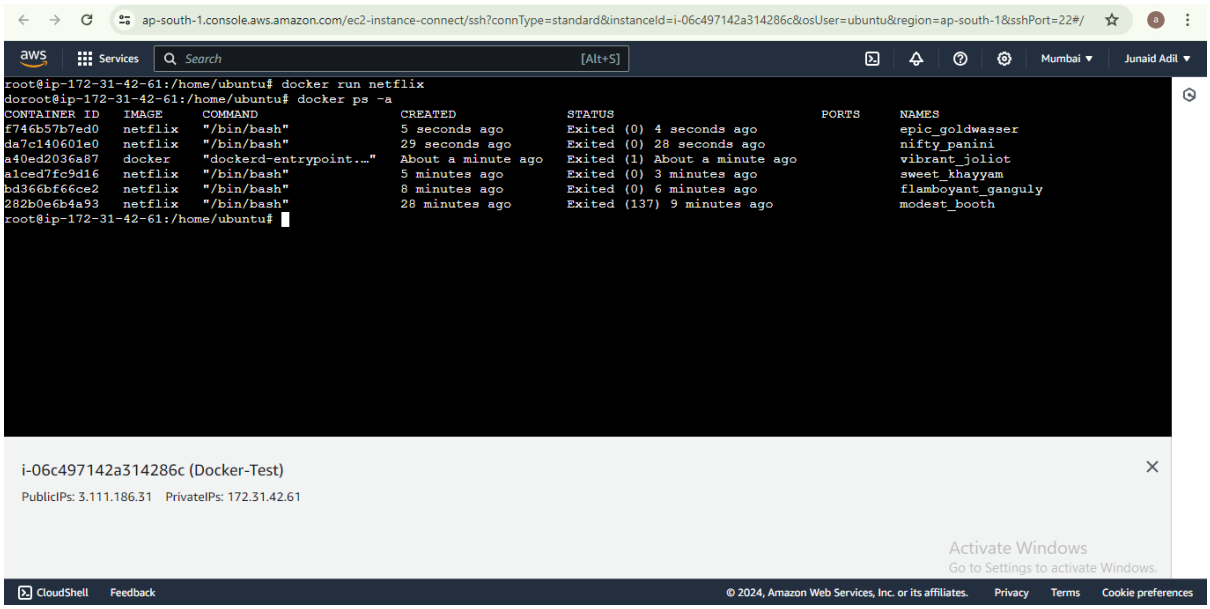


We can see the container has been started working and as it is running in interactive mode, we are inside the conatiner

Step 15: Use command **“exit ”** to exit from the container



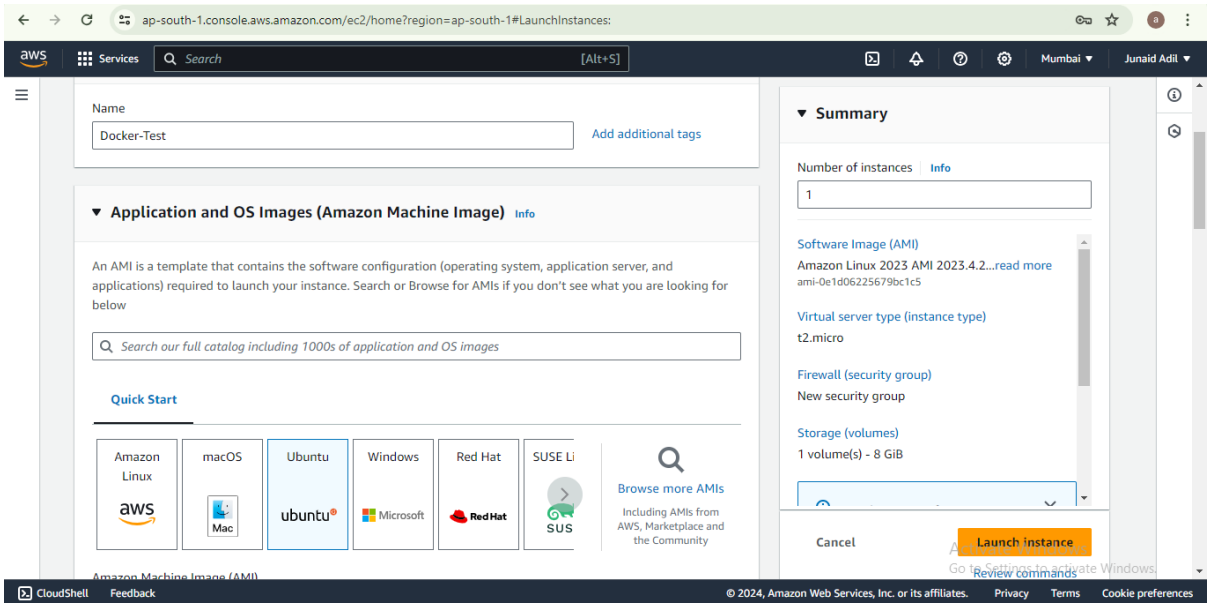
Step 16: To run the container we can use command **“docker run <application name>”**

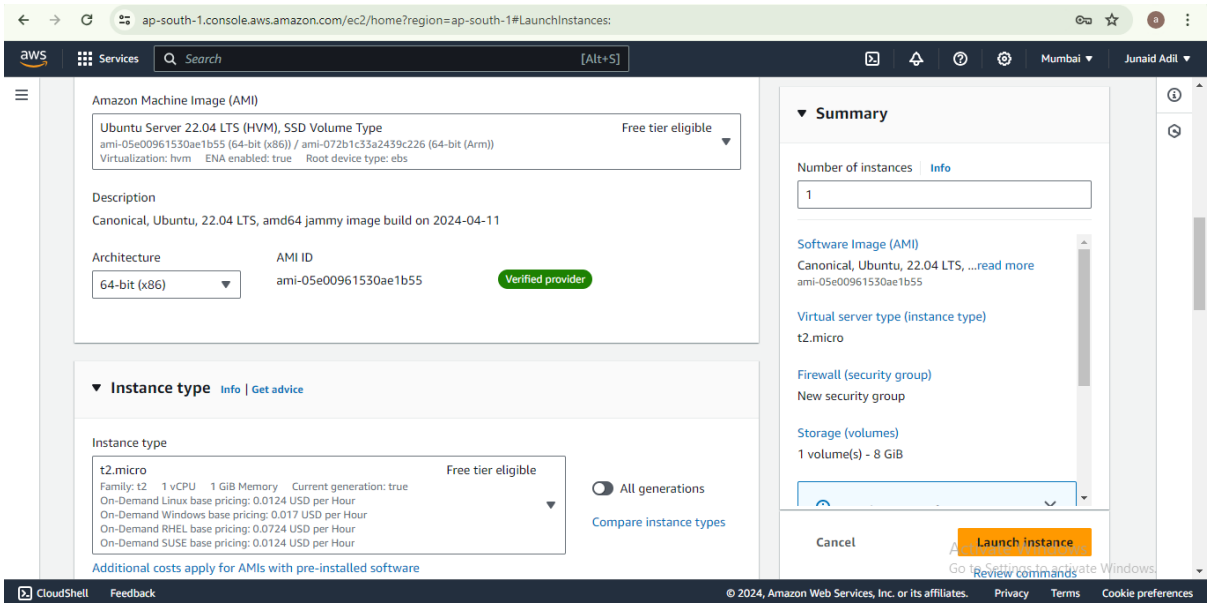


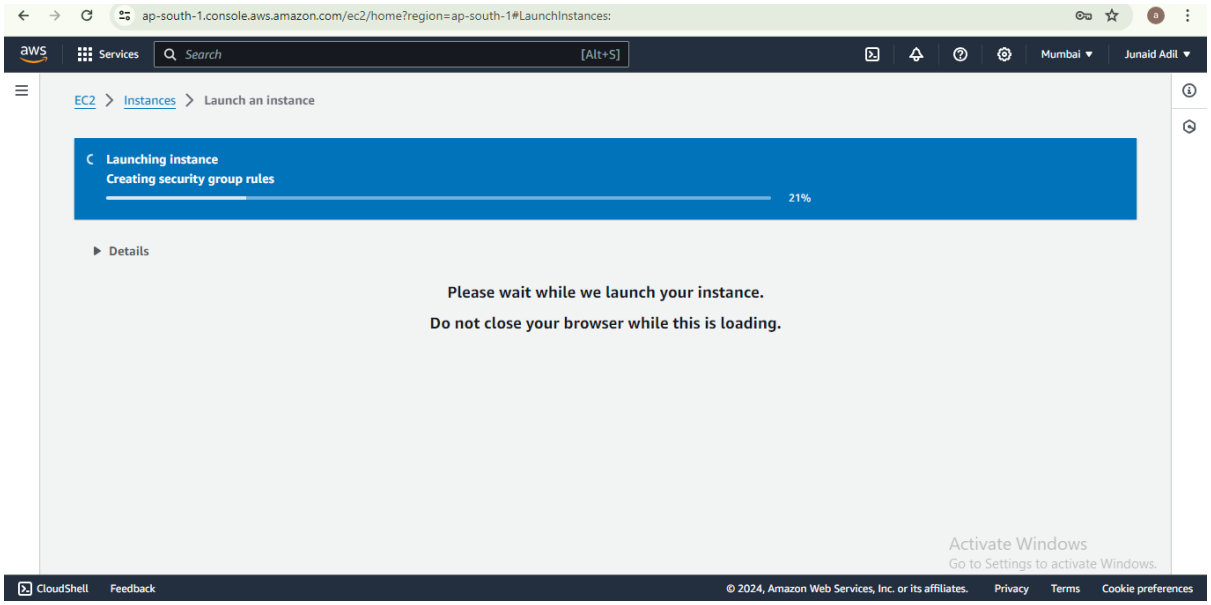
We can see the container is working.

L2 - Create the Container using the same Application Image and run the application in a Web Browser using container port mapping

Step 1: Create an Instance






ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:
Services
Search
[Alt+S]
Mumbai
Junaid Adil
EC2 > Instances > Launch an instance
Launching instance
Creating security group rules
21%
Details
Please wait while we launch your instance.
Do not close your browser while this is loading.
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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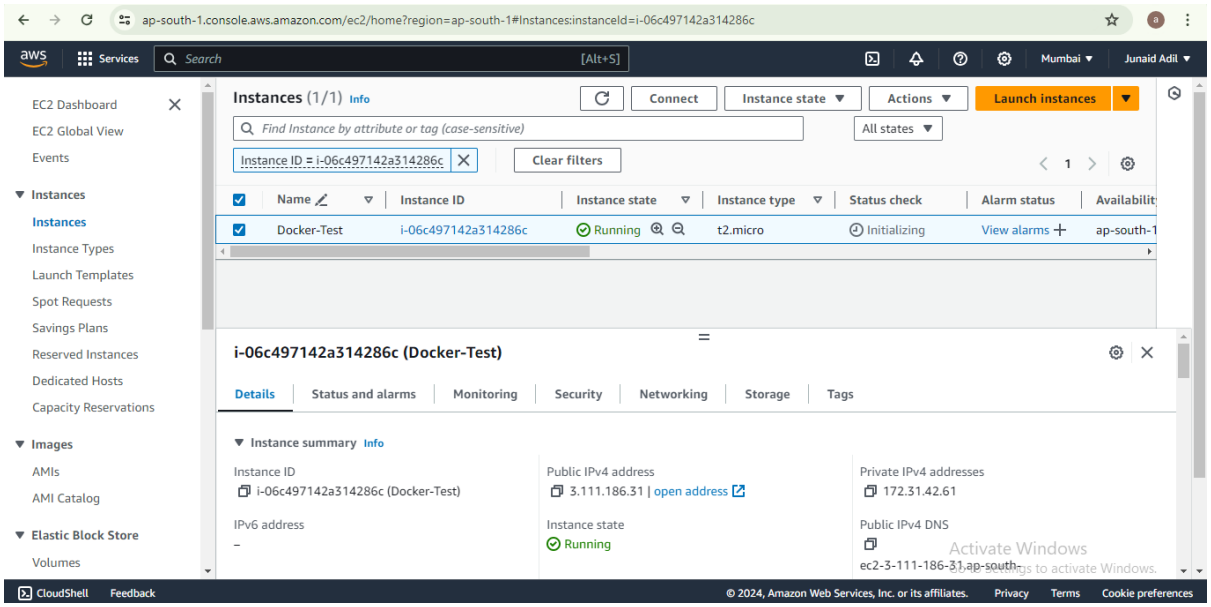
Terms
Cookie preferences


ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#Instances:instanceId=i-06c497142a314286c
Services
Search
[Alt+S]
Mumbai
Junaid Adil
EC2 Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance ID = i-06c497142a314286c
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availabilit
Docker-Test
i-06c497142a314286c
Running
t2.micro
Initializing
View alarms
ap-south-1
i-06c497142a314286c (Docker-Test)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-06c497142a314286c (Docker-Test)
Public IPv4 address
3.111.186.31 | open address
Private IPv4 addresses
172.31.42.61
IPv6 address
–
Instance state
Running
Public IPv4 DNS
ec2-3-111-186-31.ap-south
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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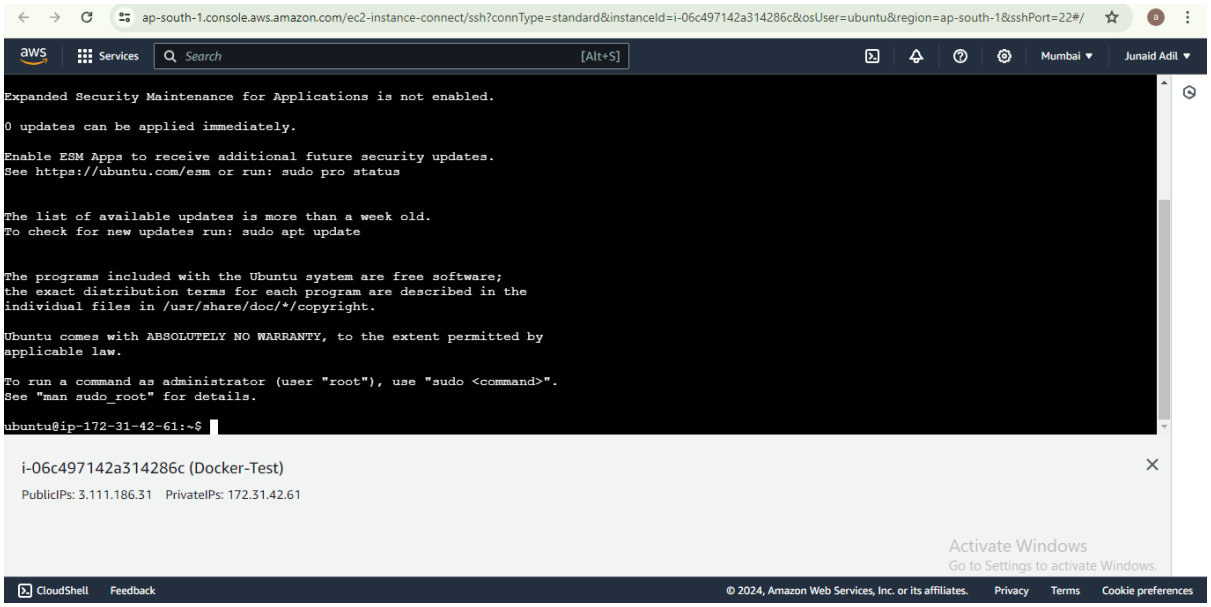
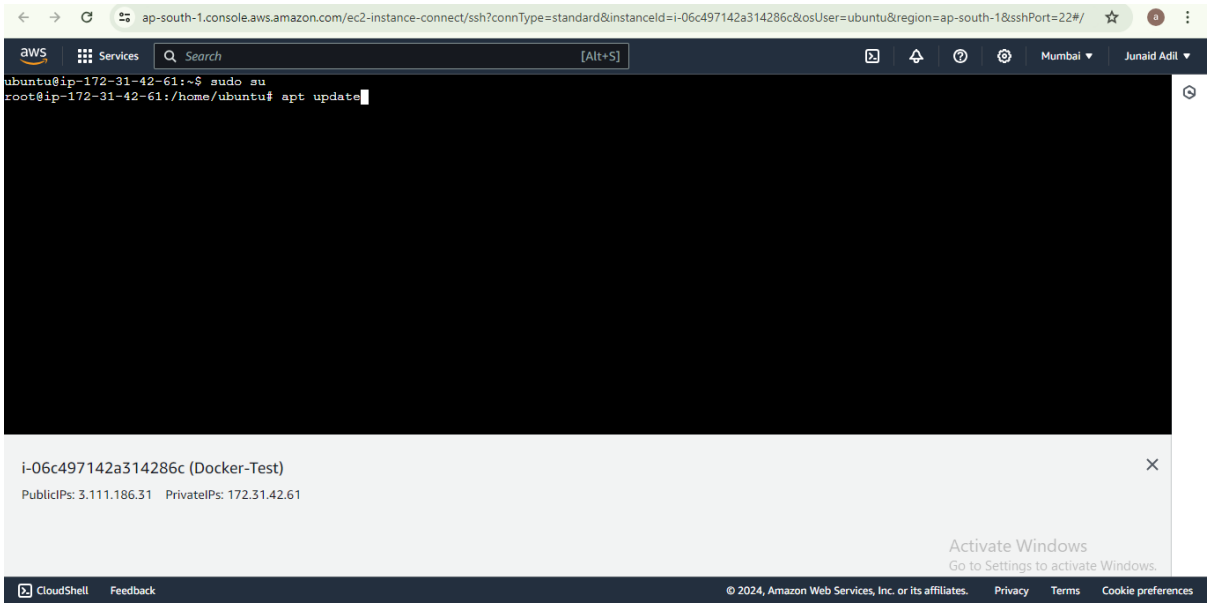
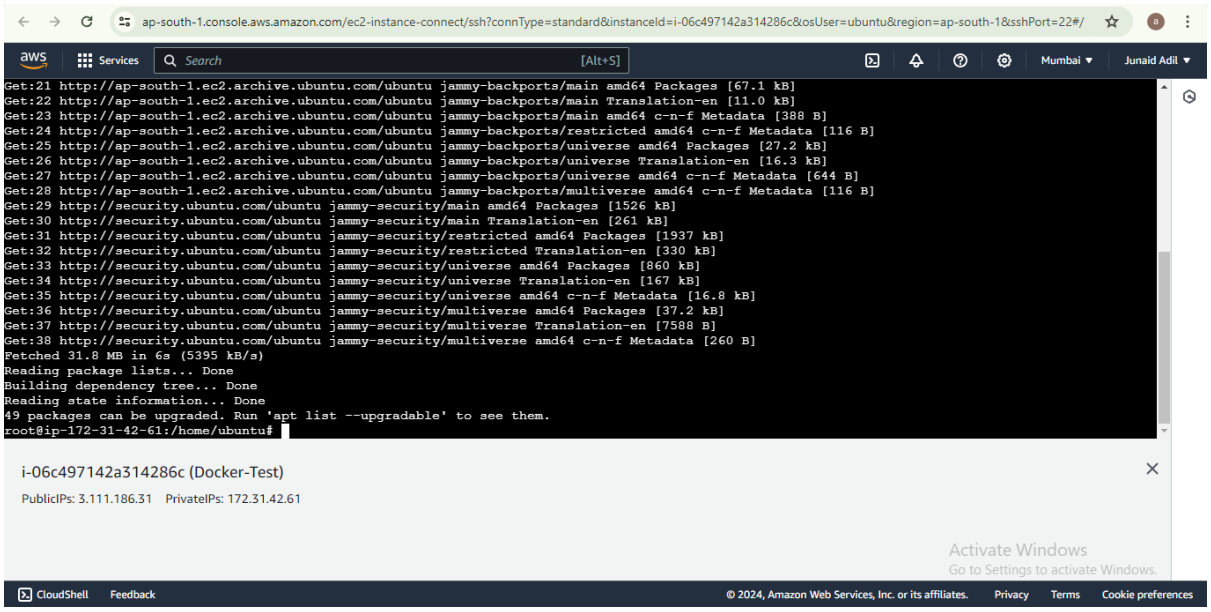
Cookie preferences

Step 2: Connect to the Instance

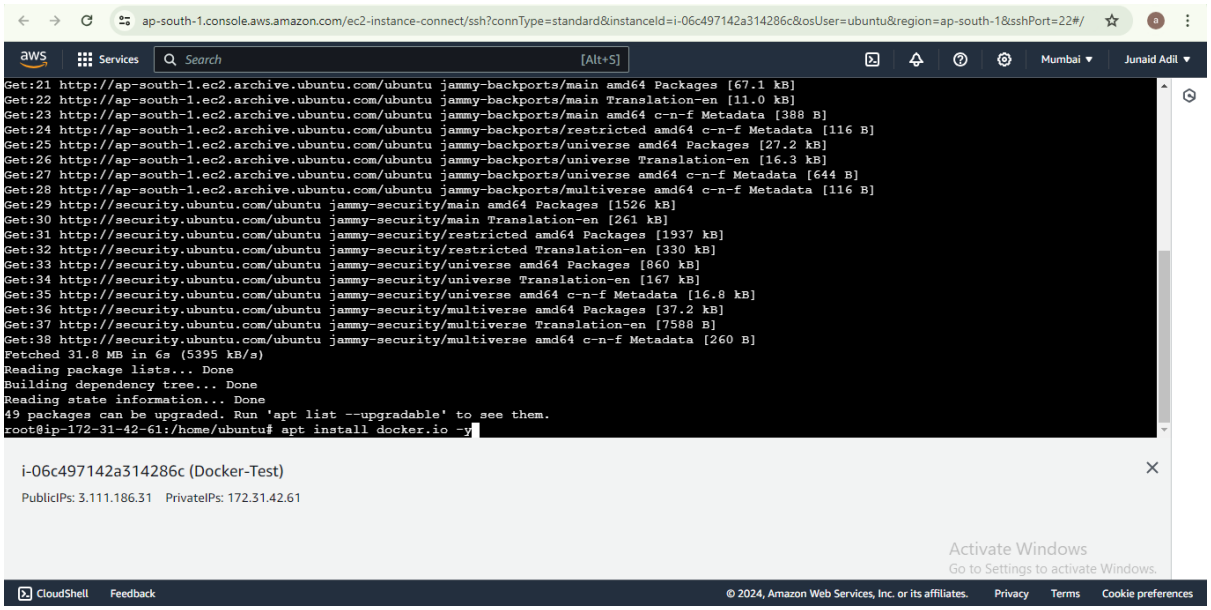


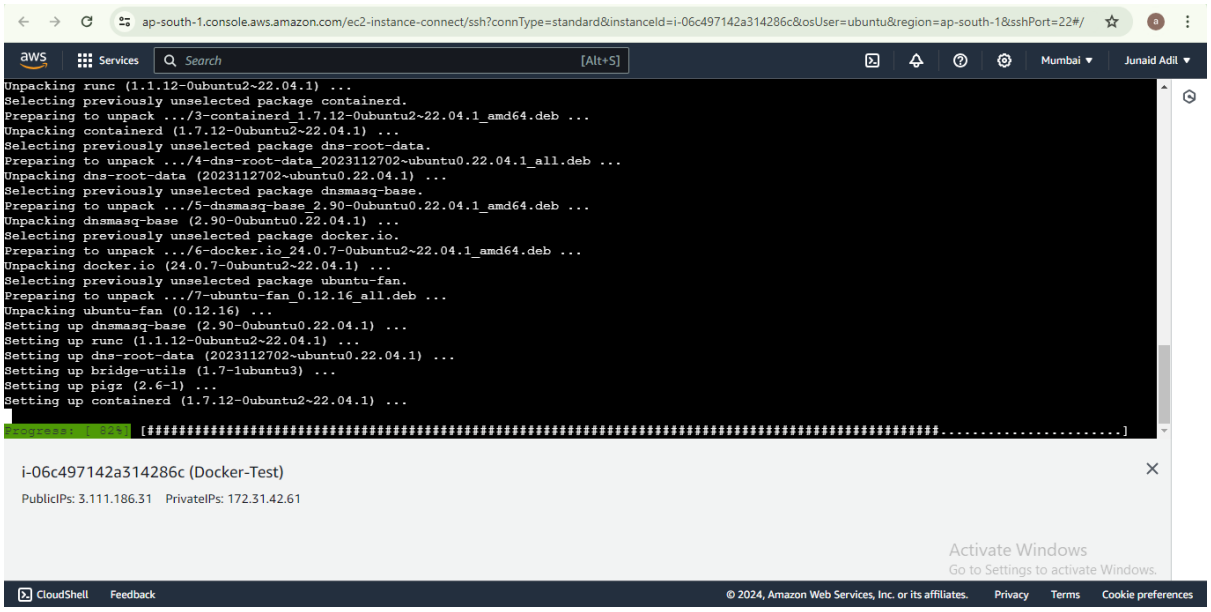
Step 3: Become root user and run the command to update packages **“apt update”**





Step 4: Install Docker using command **“apt install docker.io -y”**




ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06c497142a314286c&osUser=ubuntu&region=ap-south-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Mumbai
Junaid Adil
Unpacking runc (1.1.12-0ubuntu2~22.04.1) ...
Selecting previously unselected package containerd.
Preparing to unpack .../3-containerd_1.7.12-0ubuntu2~22.04.1_amd64.deb ...
Unpacking containerd (1.7.12-0ubuntu2~22.04.1) ...
Selecting previously unselected package dns-root-data.
Preparing to unpack .../4-dns-root-data_2023112702~ubuntu0.22.04.1_all.deb ...
Unpacking dns-root-data (2023112702~ubuntu0.22.04.1) ...
Selecting previously unselected package dnsmasq-base.
Preparing to unpack .../5-dnsmasq-base_2.90-0ubuntu0.22.04.1_amd64.deb ...
Unpacking dnsmasq-base (2.90-0ubuntu0.22.04.1) ...
Selecting previously unselected package docker.io.
Preparing to unpack .../6-docker.io_24.0.7-0ubuntu2~22.04.1_amd64.deb ...
Unpacking docker.io (24.0.7-0ubuntu2~22.04.1) ...
Selecting previously unselected package ubuntu-fan.
Preparing to unpack .../7-ubuntu-fan_0.12.16_all.deb ...
Unpacking ubuntu-fan (0.12.16) ...
Setting up dnsmasq-base (2.90-0ubuntu0.22.04.1) ...
Setting up runc (1.1.12-0ubuntu2~22.04.1) ...
Setting up dns-root-data (2023112702~ubuntu0.22.04.1) ...
Setting up bridge-utils (1.7-1ubuntu3) ...
Setting up pigz (2.6-1) ...
Setting up containerd (1.7.12-0ubuntu2~22.04.1) ...
Progress: [82%] [###.....................]
i-06c497142a314286c (Docker-Test)
PublicIPs: 3.111.186.31 PrivateIPs: 172.31.42.61
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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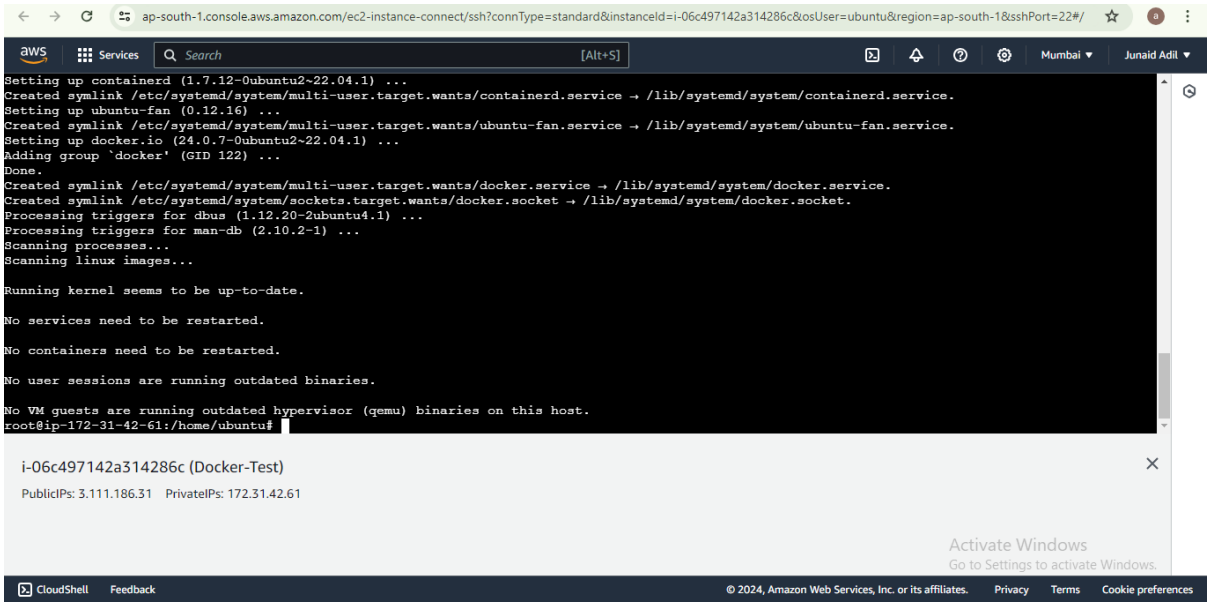
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06c497142a314286c&osUser=ubuntu&region=ap-south-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Mumbai
Junaid Adil
Setting up containerd (1.7.12-0ubuntu2~22.04.1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service → /lib/systemd/system/containerd.service.
Setting up ubuntu-fan (0.12.16) ...
Created symlink /etc/systemd/system/multi-user.target.wants/ubuntu-fan.service → /lib/systemd/system/ubuntu-fan.service.
Setting up docker.io (24.0.7-0ubuntu2~22.04.1) ...
Adding group `docker' (GID 122) ...
Done.
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service → /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket → /lib/systemd/system/docker.socket.
Processing triggers for dbus (1.12.20-2ubuntu4.1) ...
Processing triggers for man-db (2.10.2-1) ...
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-172-31-42-61:/home/ubuntu#
i-06c497142a314286c (Docker-Test)
PublicIPs: 3.111.186.31 PrivateIPs: 172.31.42.61
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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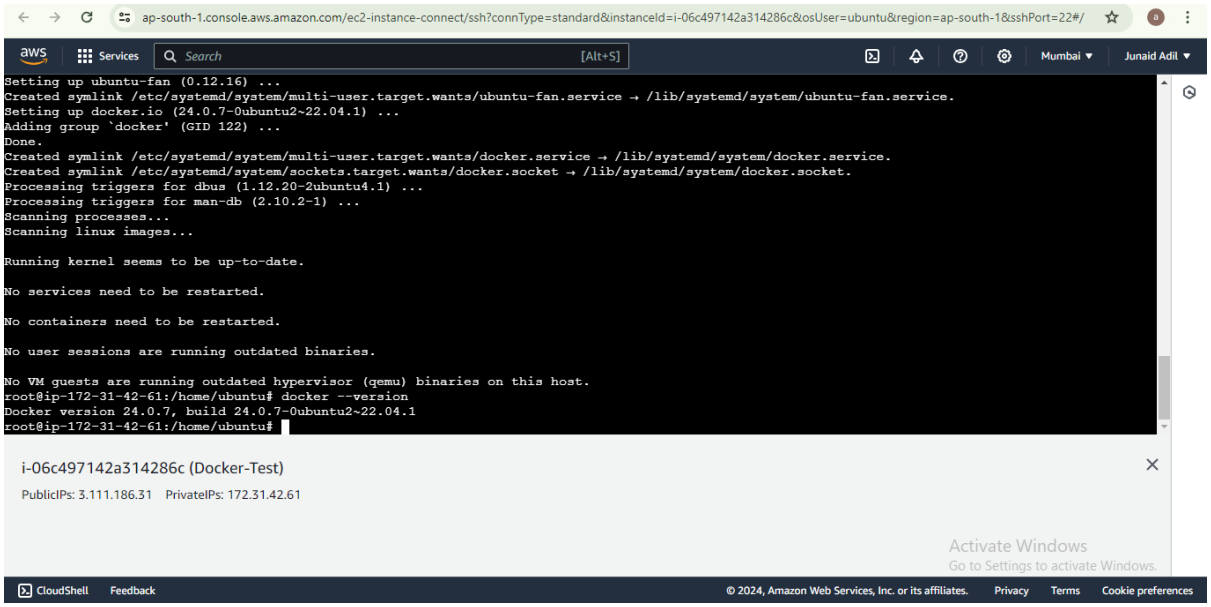
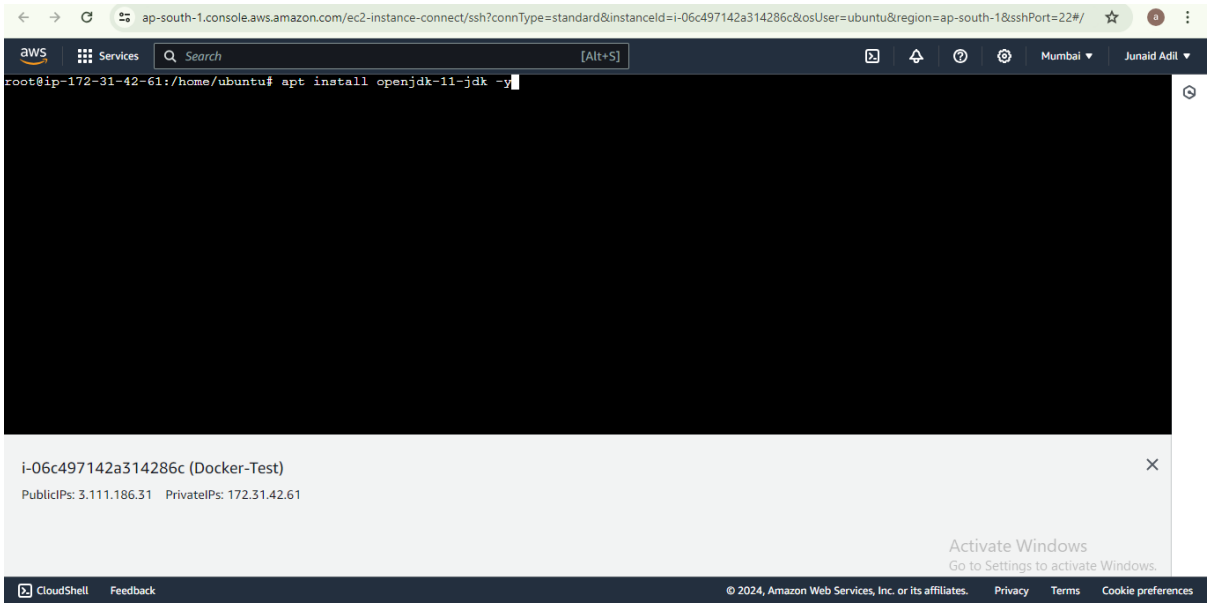
Step 5: We can check the docker version using command **“docker --version”**

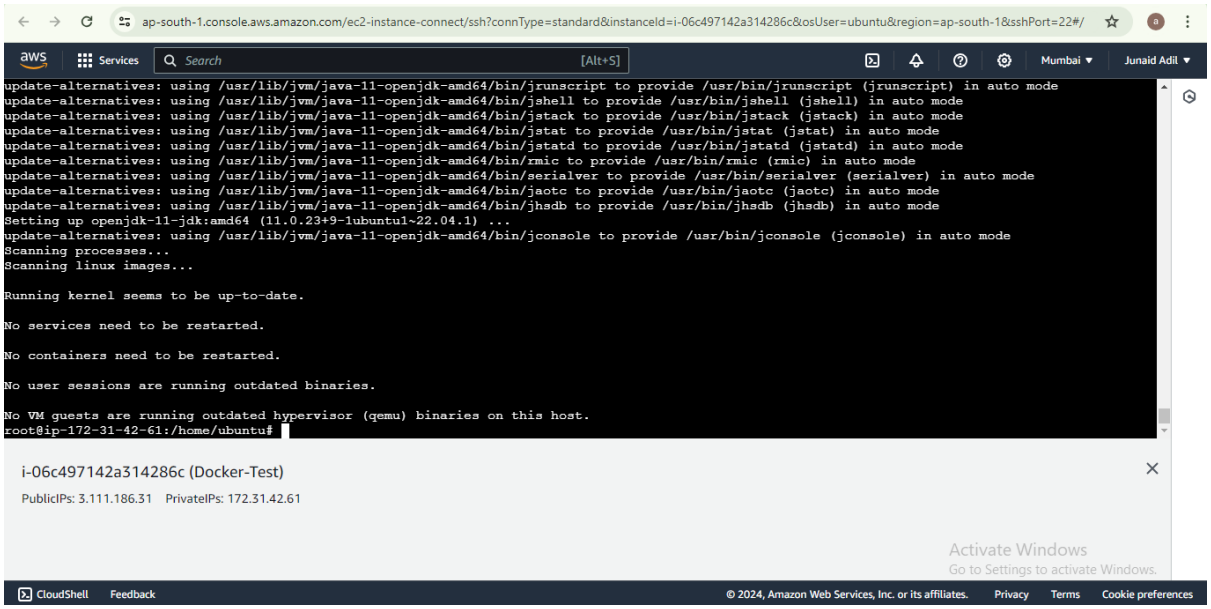


Step 6: Install Java, Maven using command

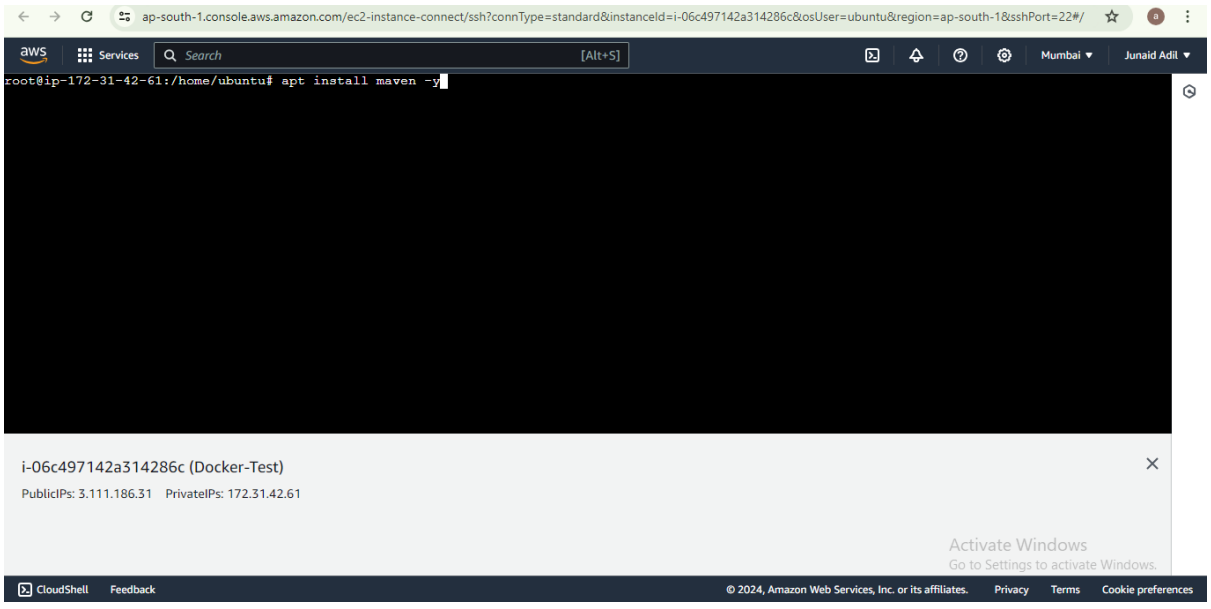
Java – **“apt install openjdk-11-jdk -y”**

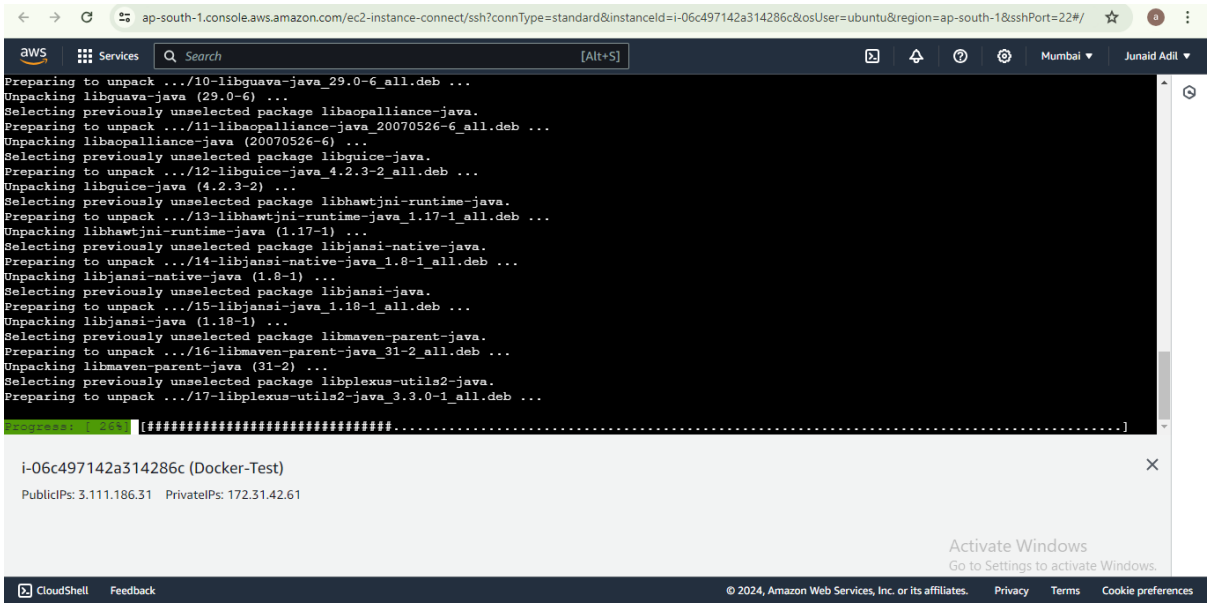
Maven – **“apt install maven -y”**





Maven Installation:




ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06c497142a314286c&osUser=ubuntu&region=ap-south-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Mumbai
Junaid Adil
Preparing to unpack .../10-libguava-java_29.0-6_all.deb ...
Unpacking libguava-java (29.0-6) ...
Selecting previously unselected package libaopalliance-java.
Preparing to unpack .../11-libaopalliance-java_20070526-6_all.deb ...
Unpacking libaopalliance-java (20070526-6) ...
Selecting previously unselected package libguice-java.
Preparing to unpack .../12-libguice-java_4.2.3-2_all.deb ...
Unpacking libguice-java (4.2.3-2) ...
Selecting previously unselected package libhawtjni-runtime-java.
Preparing to unpack .../13-libhawtjni-runtime-java_1.17-1_all.deb ...
Unpacking libhawtjni-runtime-java (1.17-1) ...
Selecting previously unselected package libjansi-native-java.
Preparing to unpack .../14-libjansi-native-java_1.8-1_all.deb ...
Unpacking libjansi-native-java (1.8-1) ...
Selecting previously unselected package libjansi-java.
Preparing to unpack .../15-libjansi-java_1.18-1_all.deb ...
Unpacking libjansi-java (1.18-1) ...
Selecting previously unselected package libmaven-parent-java.
Preparing to unpack .../16-libmaven-parent-java_31-2_all.deb ...
Unpacking libmaven-parent-java (31-2) ...
Selecting previously unselected package libplexus-utils2-java.
Preparing to unpack .../17-libplexus-utils2-java_3.3.0-1_all.deb ...
Progress: [26%] [###.....]
i-06c497142a314286c (Docker-Test)
PublicIPs: 3.111.186.31 PrivateIPs: 172.31.42.61
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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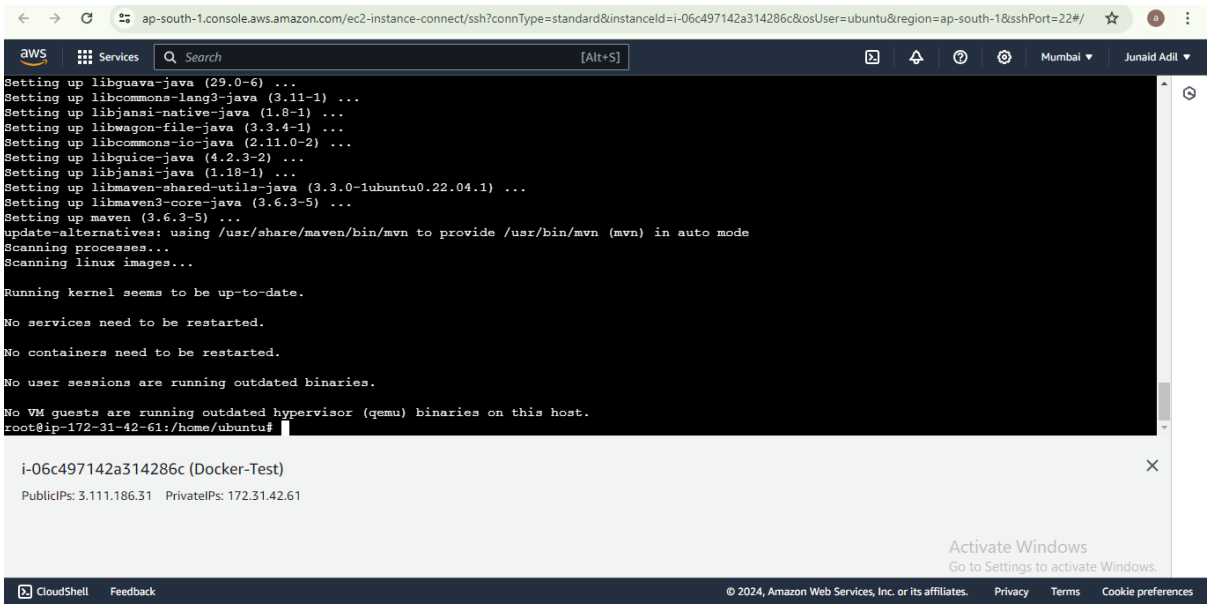
ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06c497142a314286c&osUser=ubuntu&region=ap-south-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Mumbai
Junaid Adil
Setting up libguava-java (29.0-6) ...
Setting up libcommons-lang3-java (3.11-1) ...
Setting up libjansi-native-java (1.8-1) ...
Setting up libwagon-file-java (3.3.4-1) ...
Setting up libcommons-io-java (2.11.0-2) ...
Setting up libguice-java (4.2.3-2) ...
Setting up libjansi-java (1.18-1) ...
Setting up libmaven-shared-utils-java (3.3.0-1ubuntu0.22.04.1) ...
Setting up libmaven3-core-java (3.6.3-5) ...
Setting up maven (3.6.3-5) ...
update-alternatives: using /usr/share/maven/bin/mvn to provide /usr/bin/mvn (mvn) in auto mode
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-172-31-42-61:/home/ubuntu#
i-06c497142a314286c (Docker-Test)
PublicIPs: 3.111.186.31 PrivateIPs: 172.31.42.61
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
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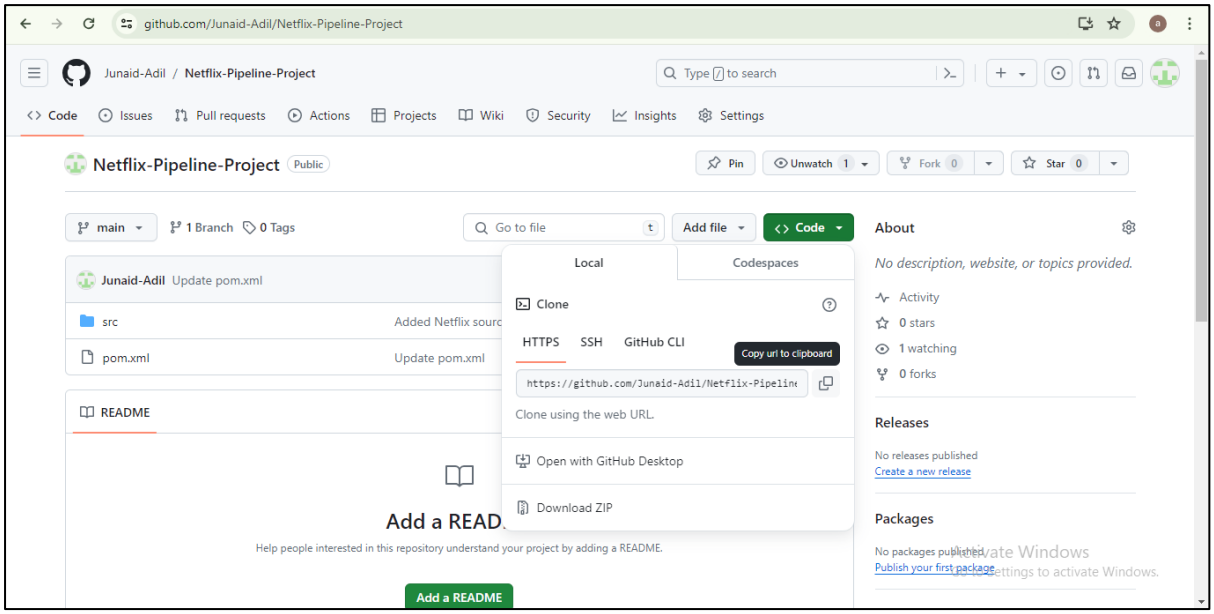
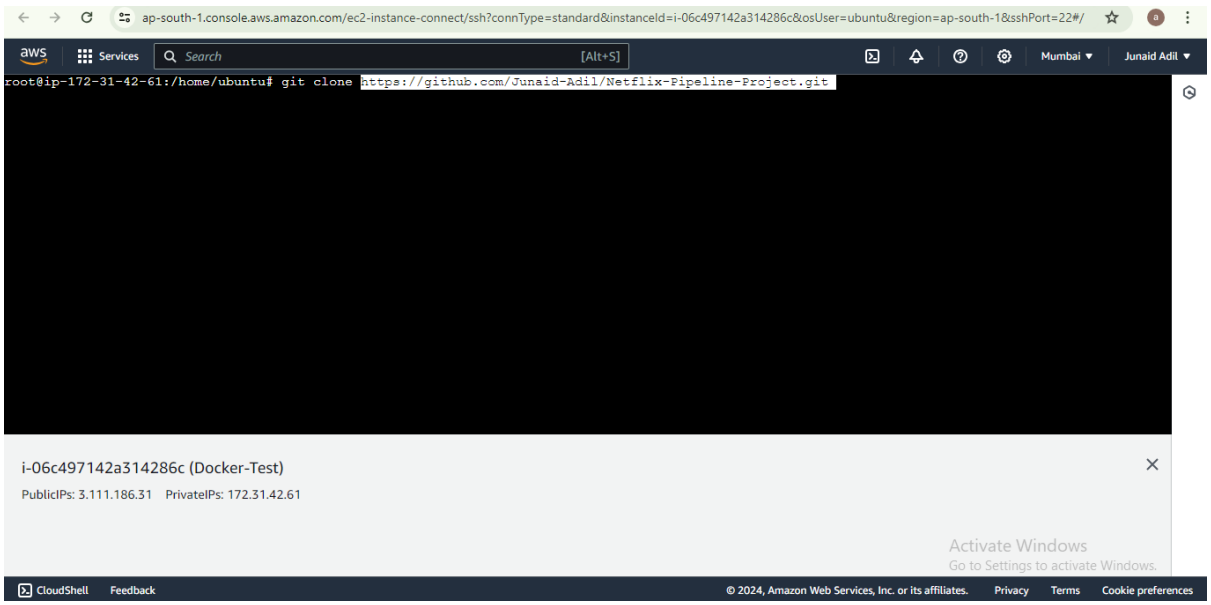
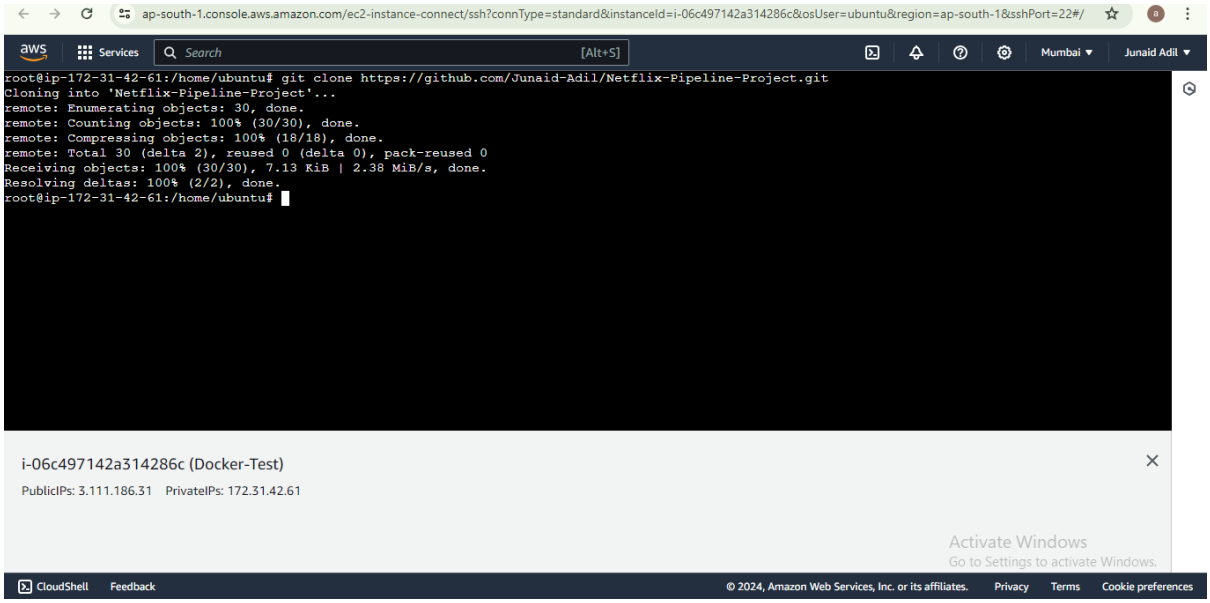
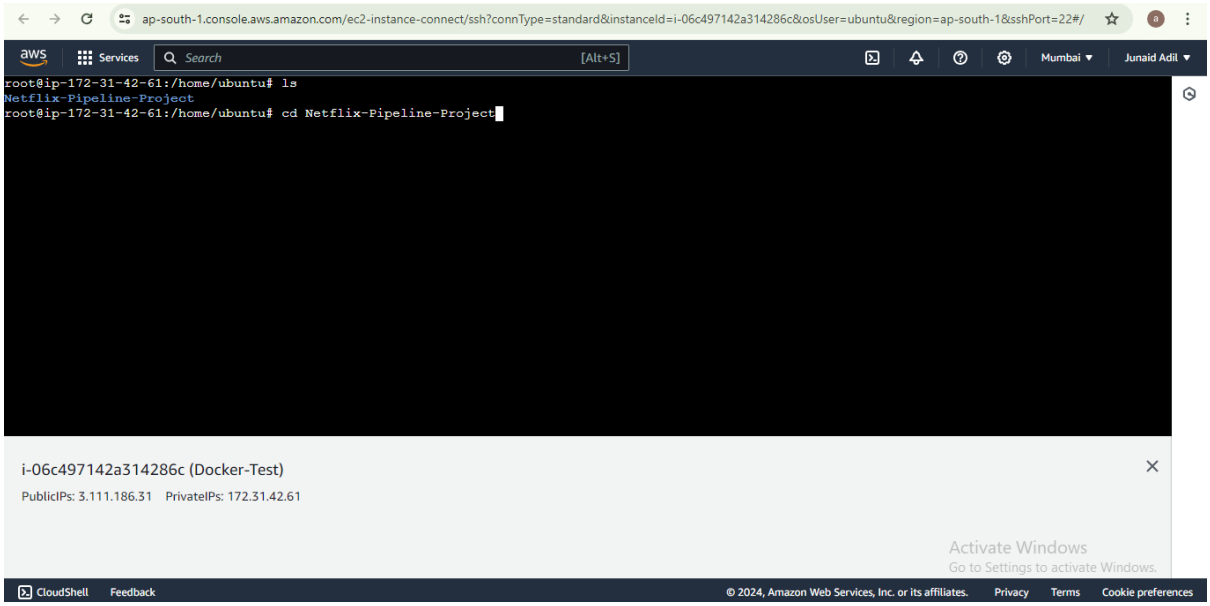
Step 7: Clone the Repository using command **“git clone <HTTPS code>”.** Where the Artifacts is built and saved in a Repository “Netflix-Pipeline-Project”.



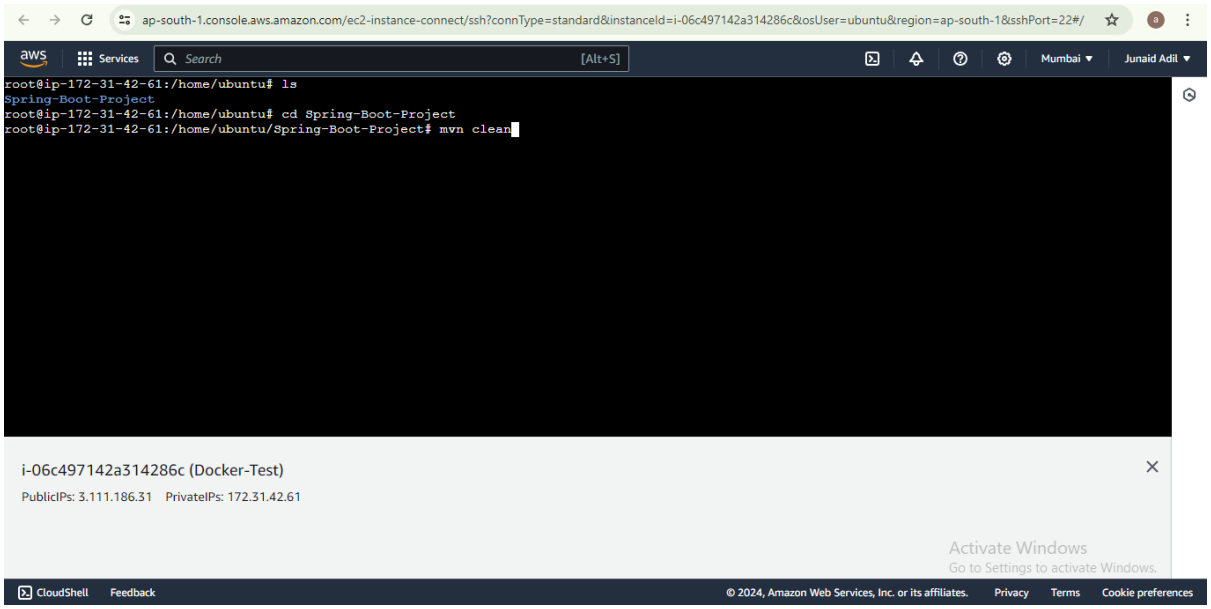


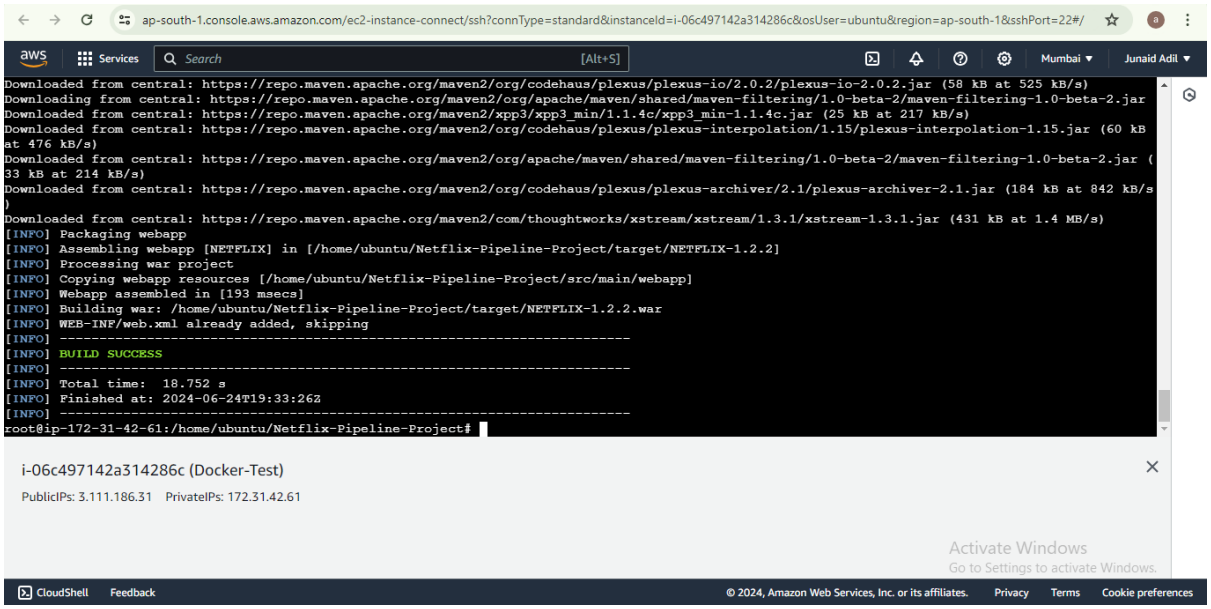


Step 8: Go to the project directory

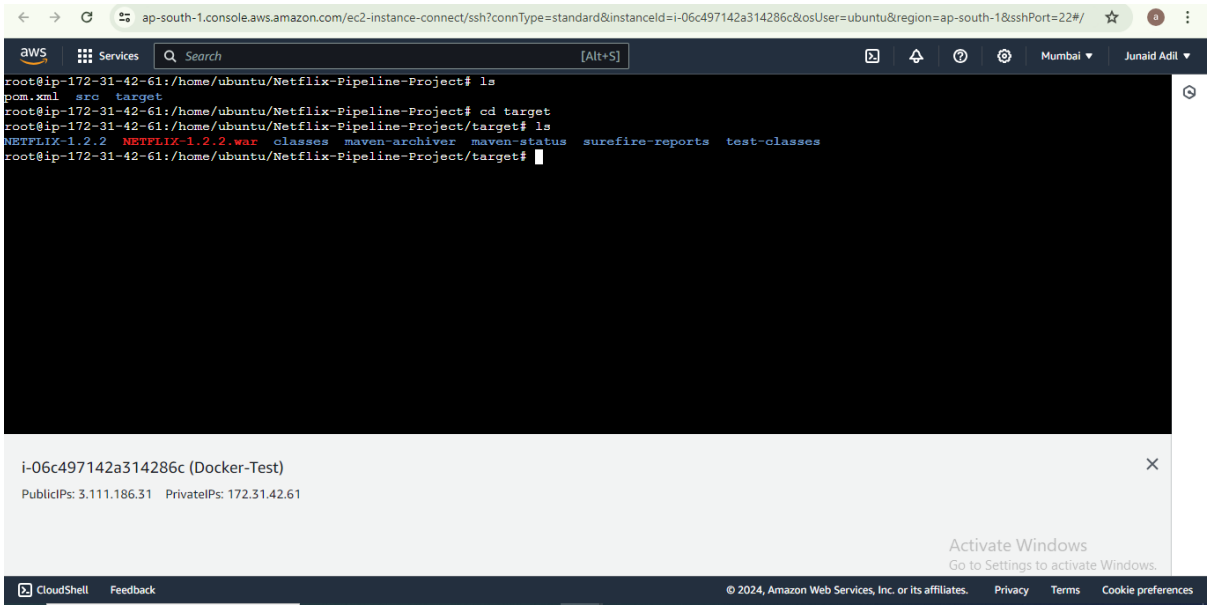


Step 9: Run command **“mvn clean”** and then execute **“mvn package”**

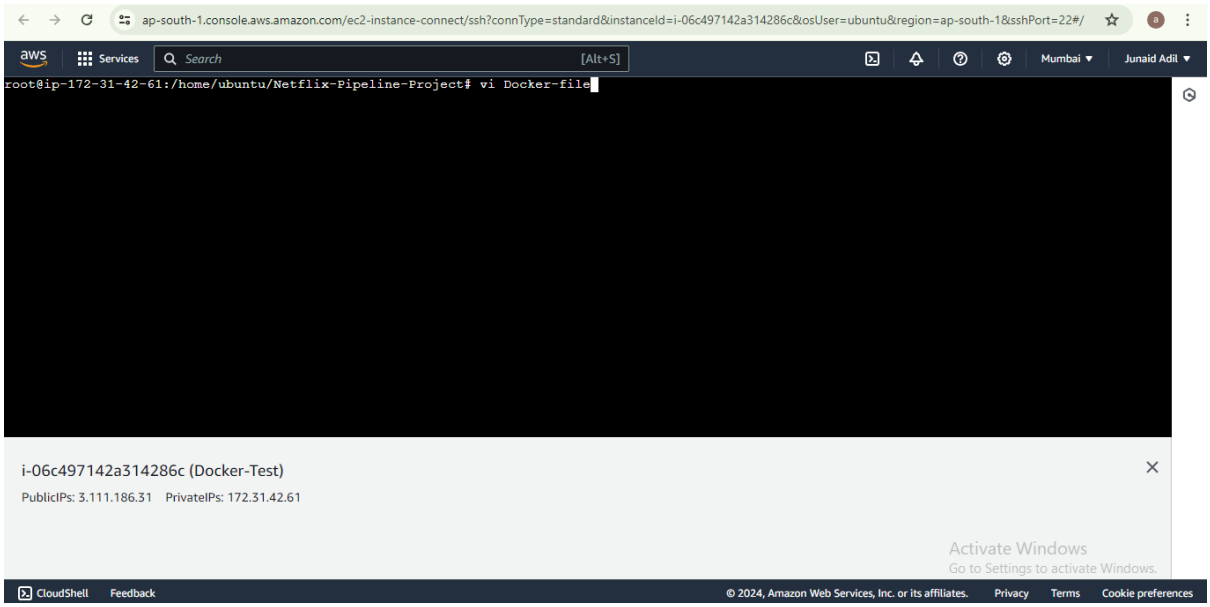




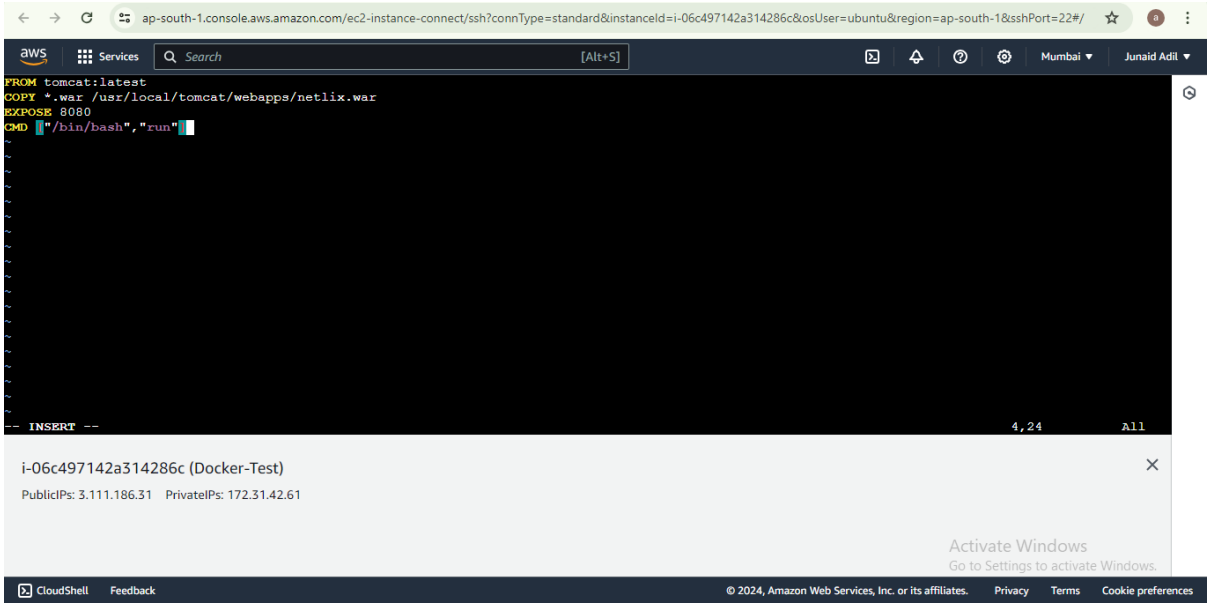
Step 10: We can check the .war file in Target folder



Step 11: Create a Docker file using command **"vi Docker-file"**

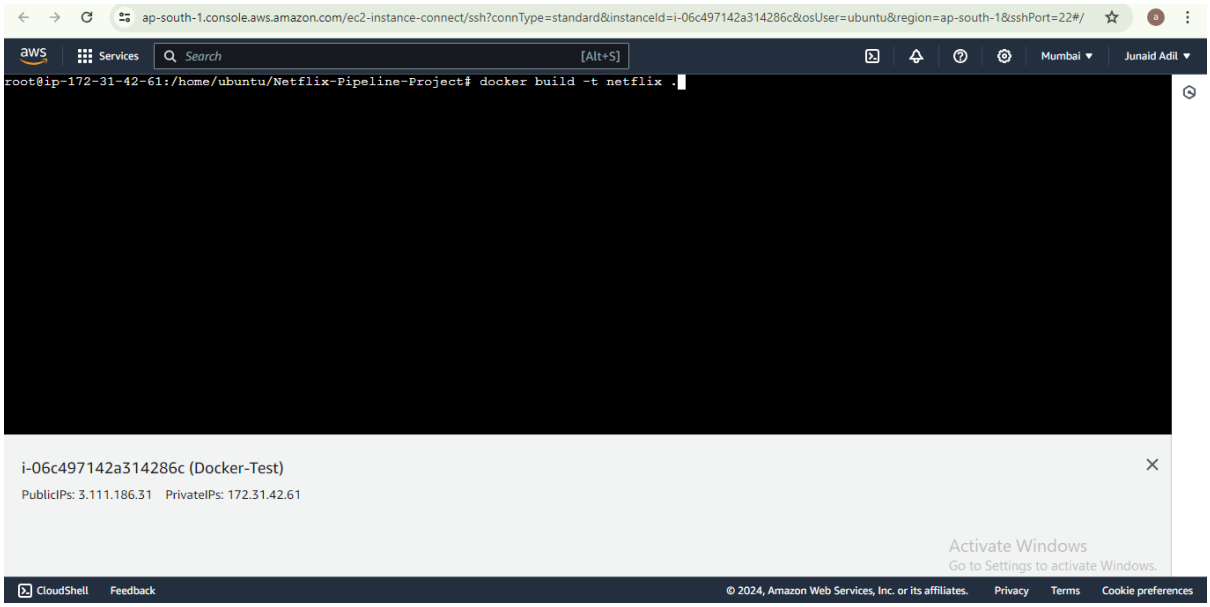


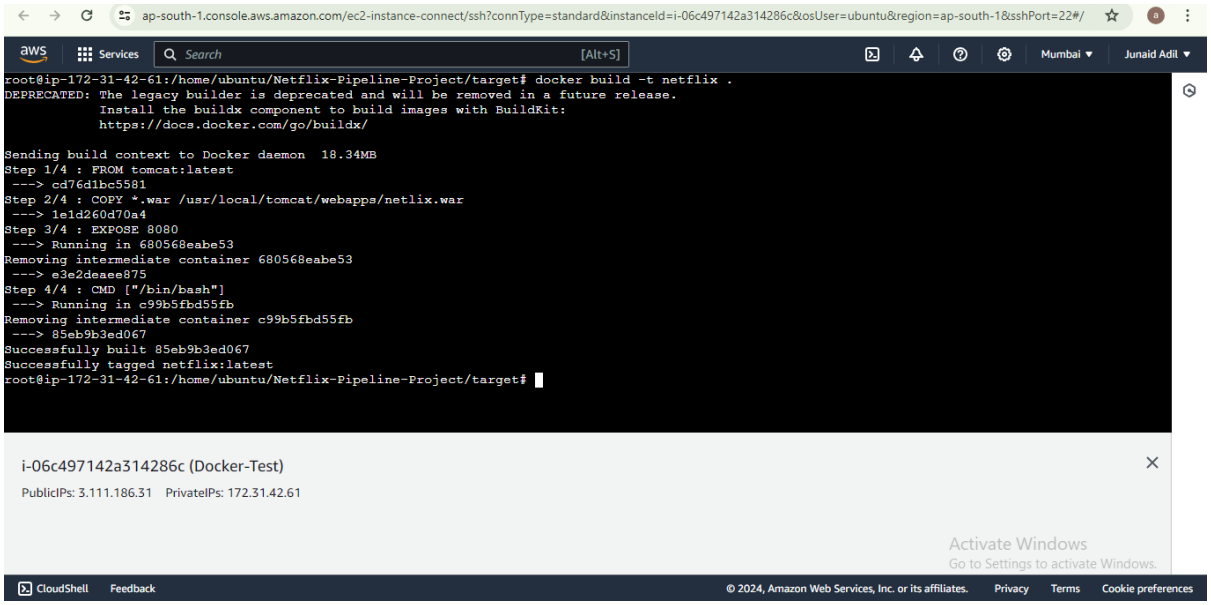
Add Instructions in the file.



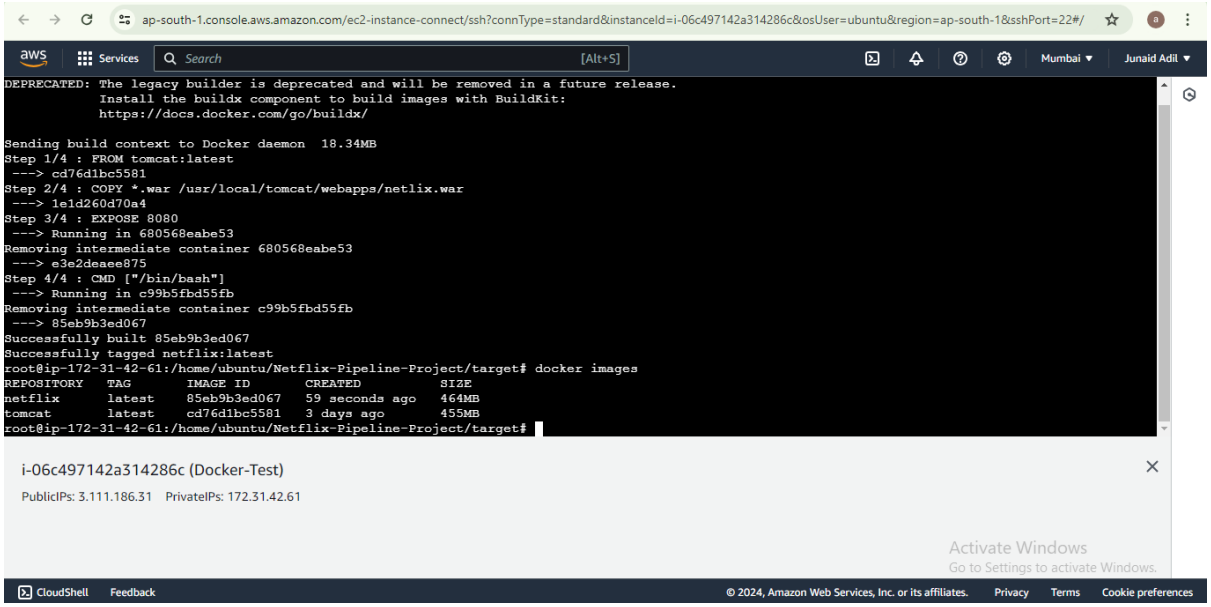
Step 12: Build the Image from the created Dockerfile.

Use command **“docker build -t netflix .”**



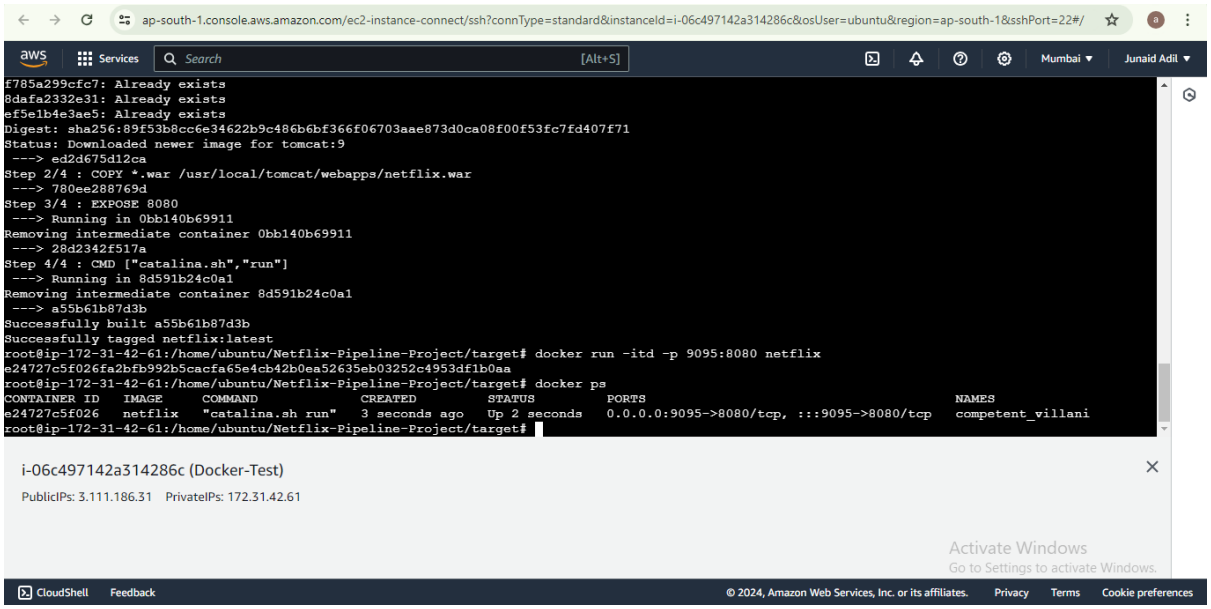


Step 13: Execute command **"docker images"** to check the images created

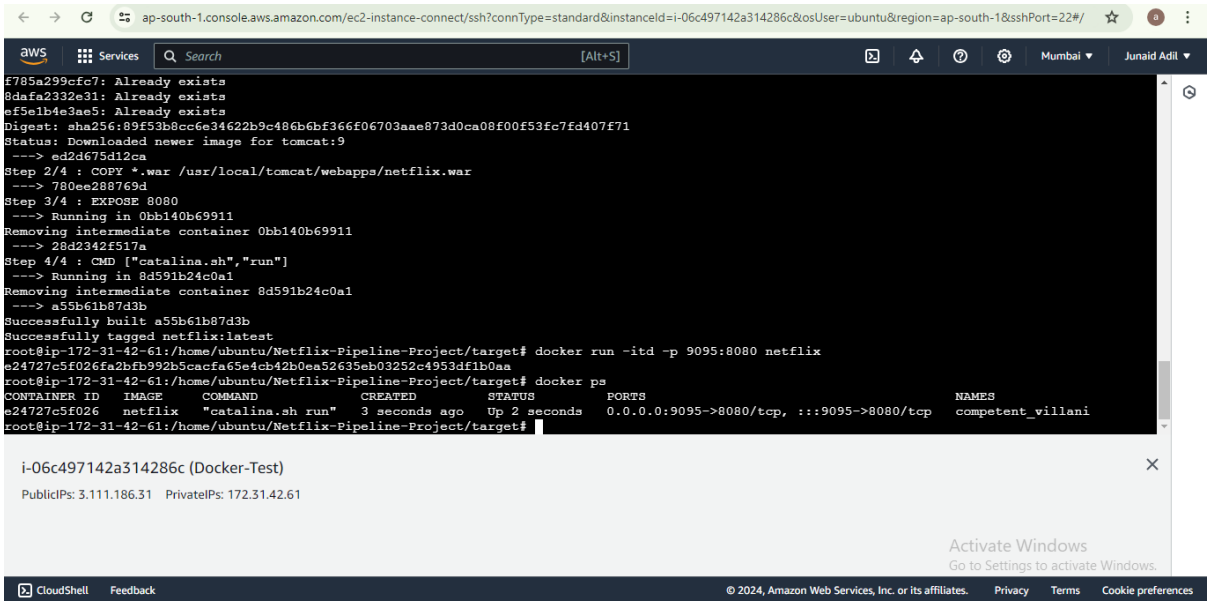


We can see the Images with the name Netflix has been created along with the Tomcat Image.

Step 14: For container Port Mapping execute command **“docker run -itd -p 9095:8080 Netflix”** to run the container.

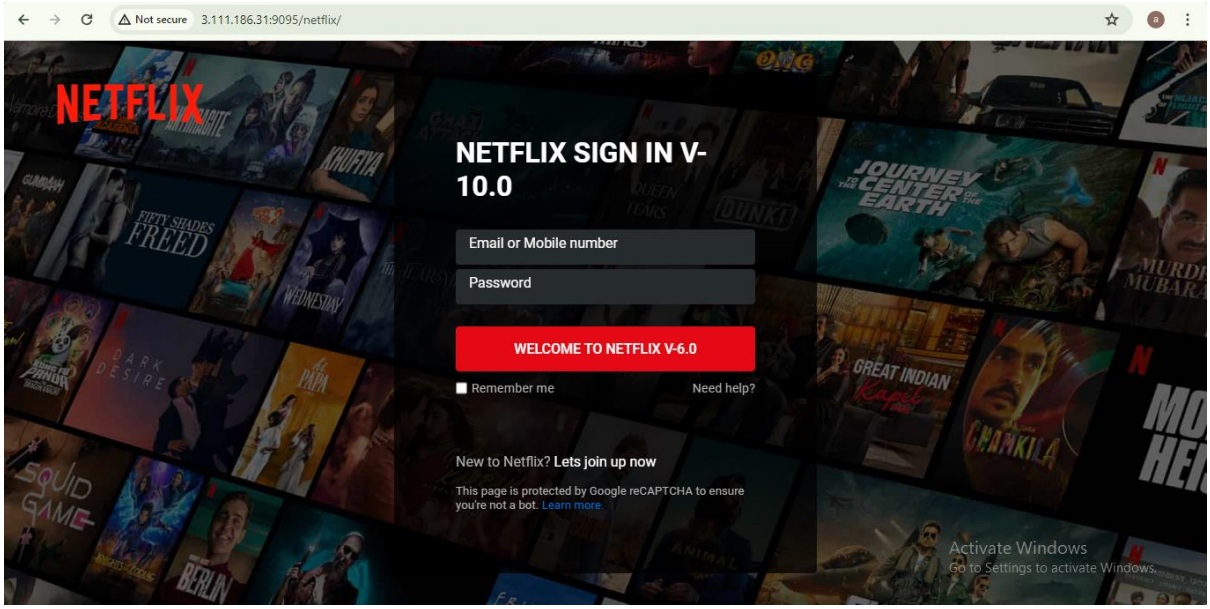


Step 15: Execute **“docker ps”** to check the status of container



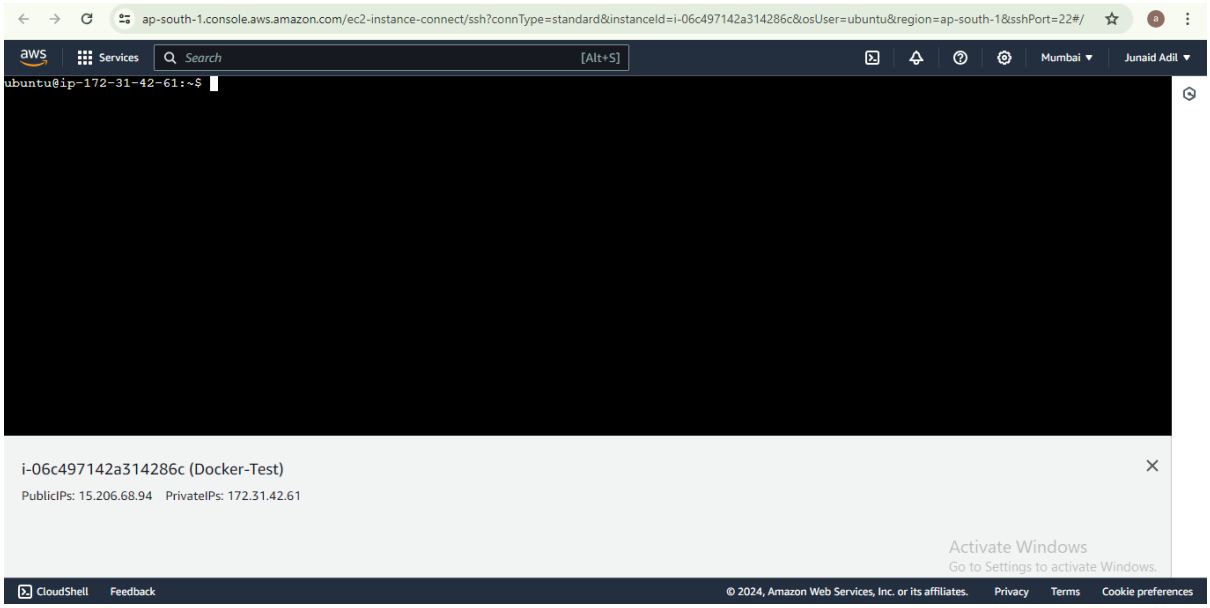
We can see the Container is running.

Step 16: To run the application in a Web Browser, copy public IP of Instance and run in browser along with the port number **“3.111.186.31:9095/Netflix/”**

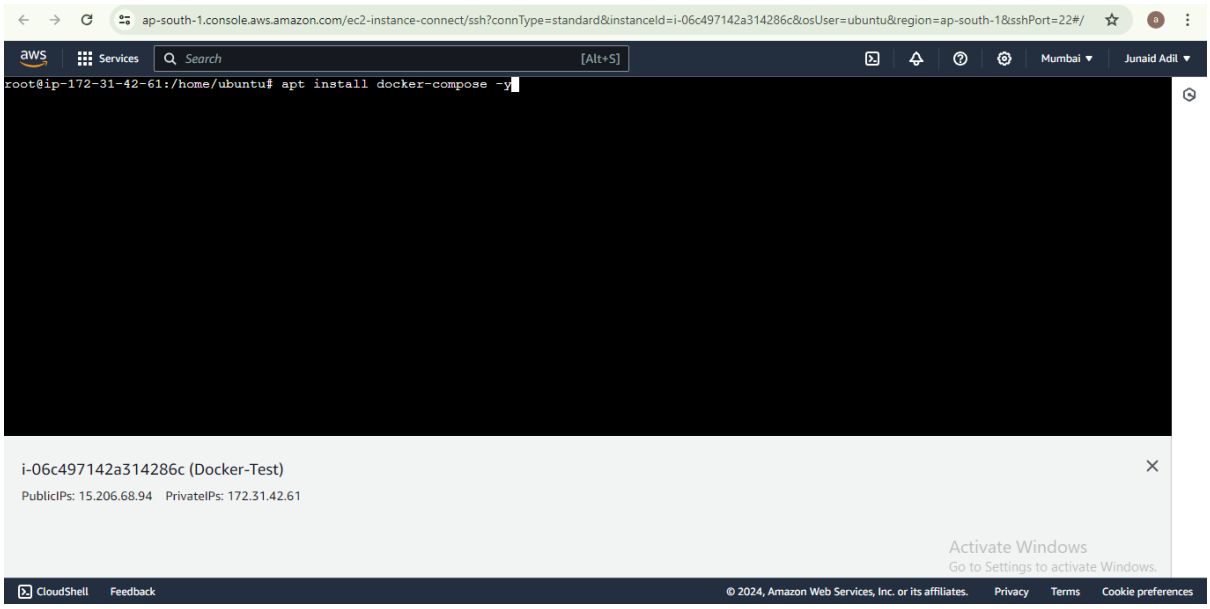


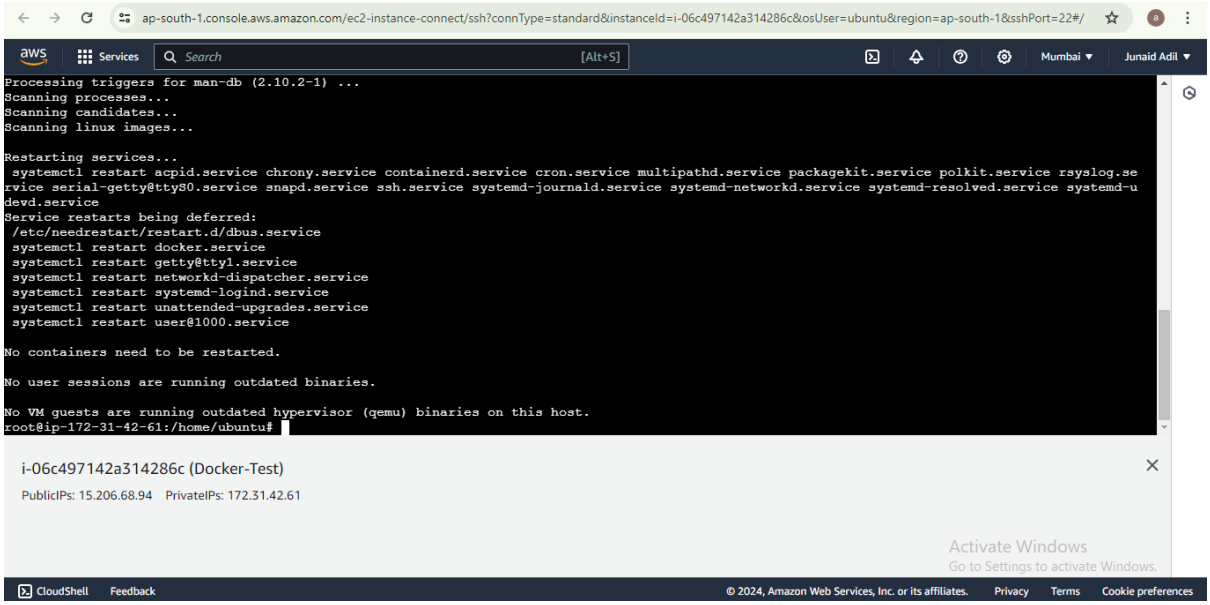
L3 - Demonstrate Docker Compose using the Application Image and MySQL Image to start and stop all container services

Step 1: Create an Instance, connect and become root user

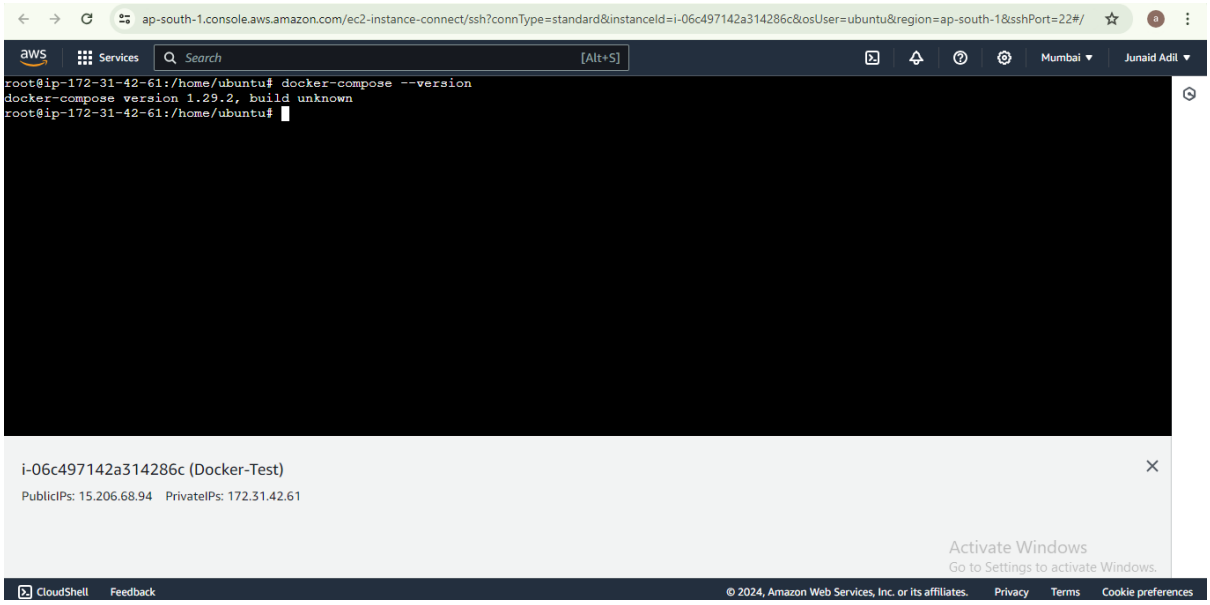


Step 2: Install docker compose using command **“apt install docker-compose -y”**

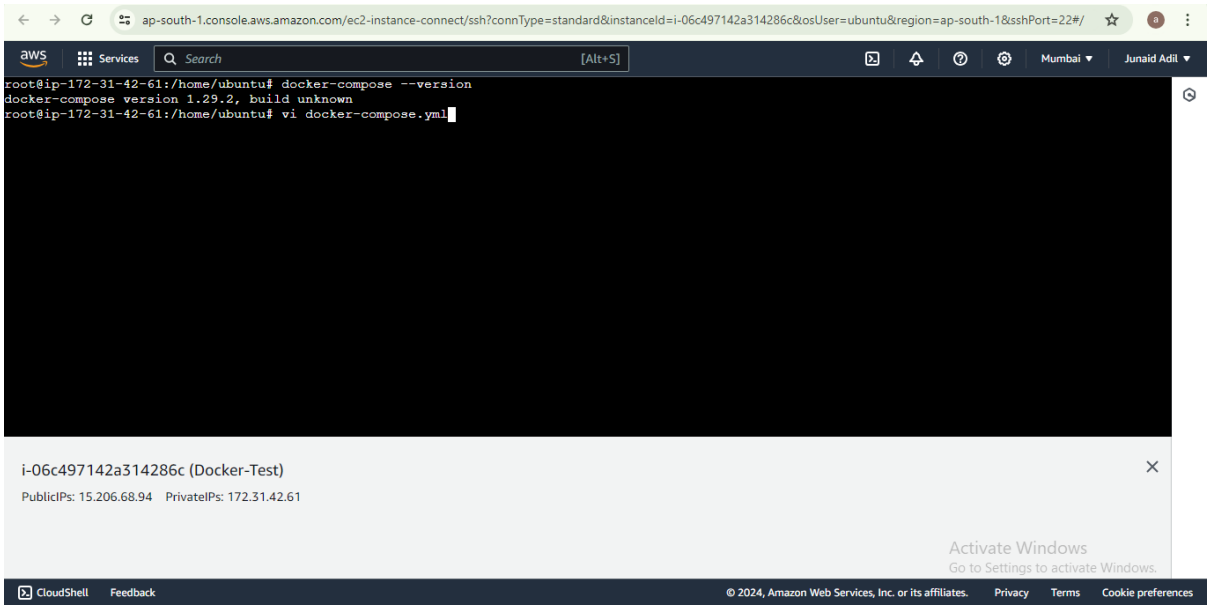




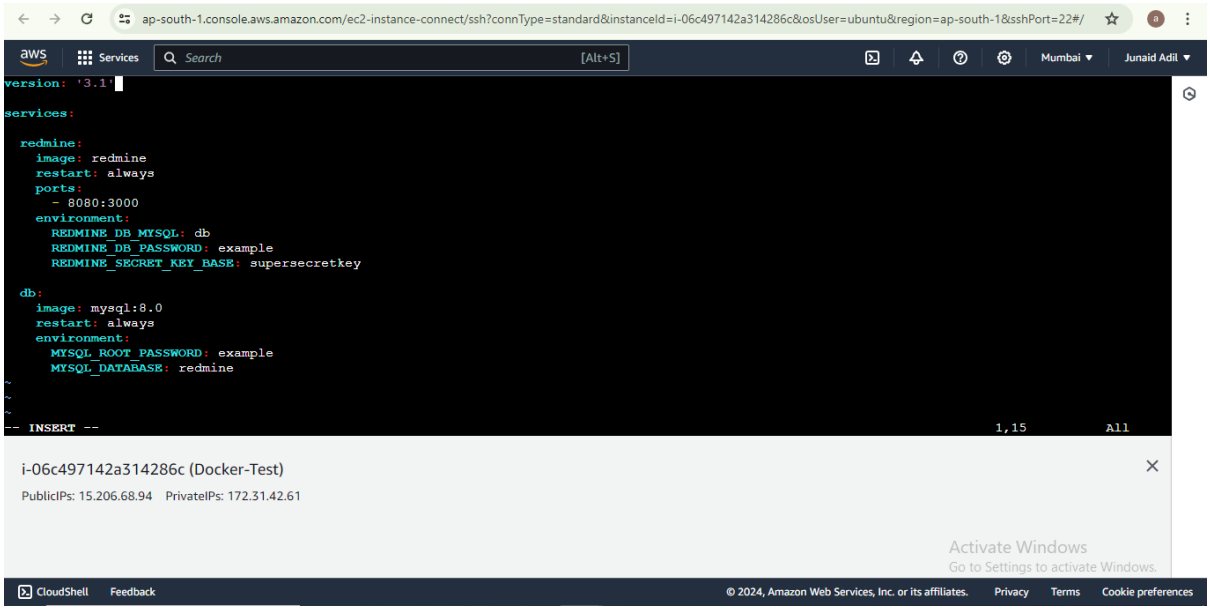
Step 3: Check docker-compose version using command **"docker-compose --version"**

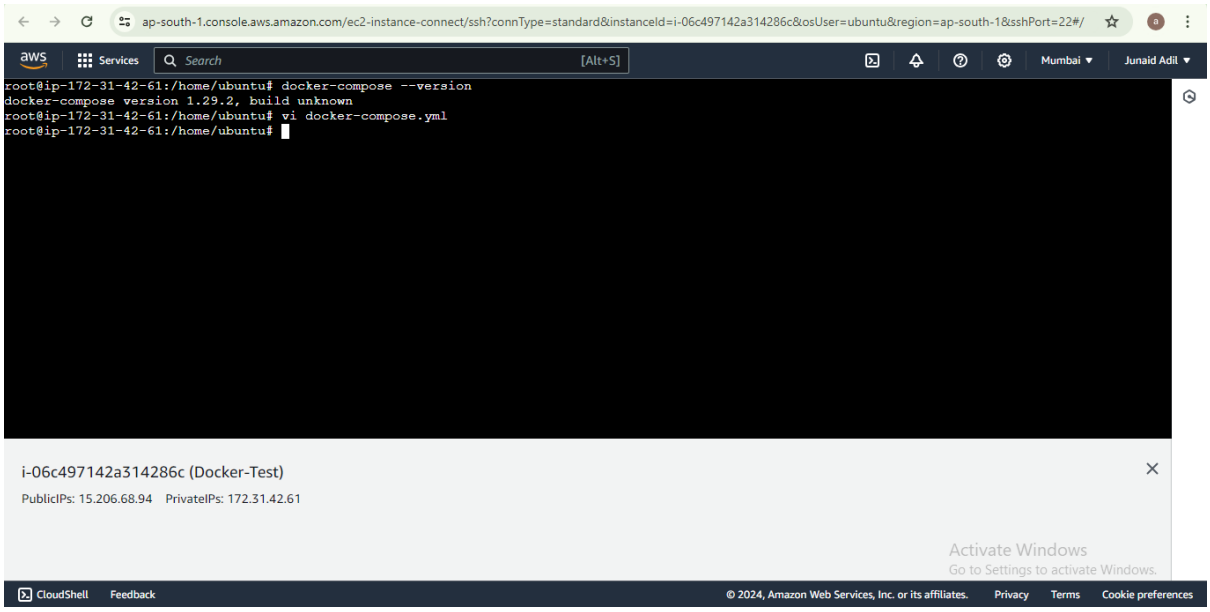


Step 4: Create a file **“docker-compose.yml”**

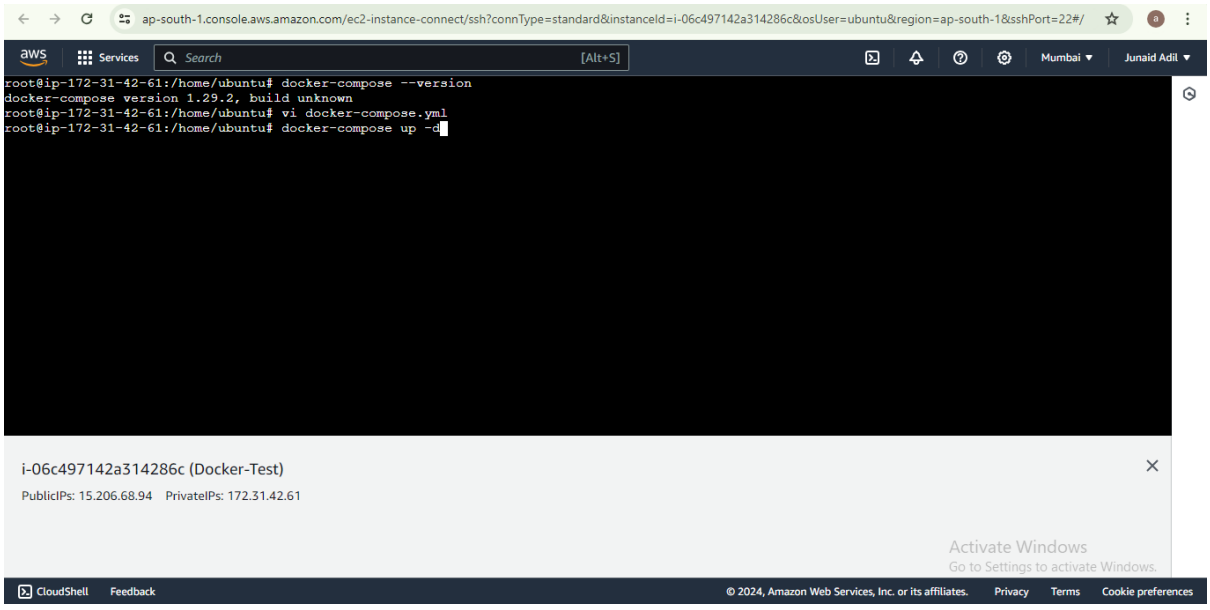


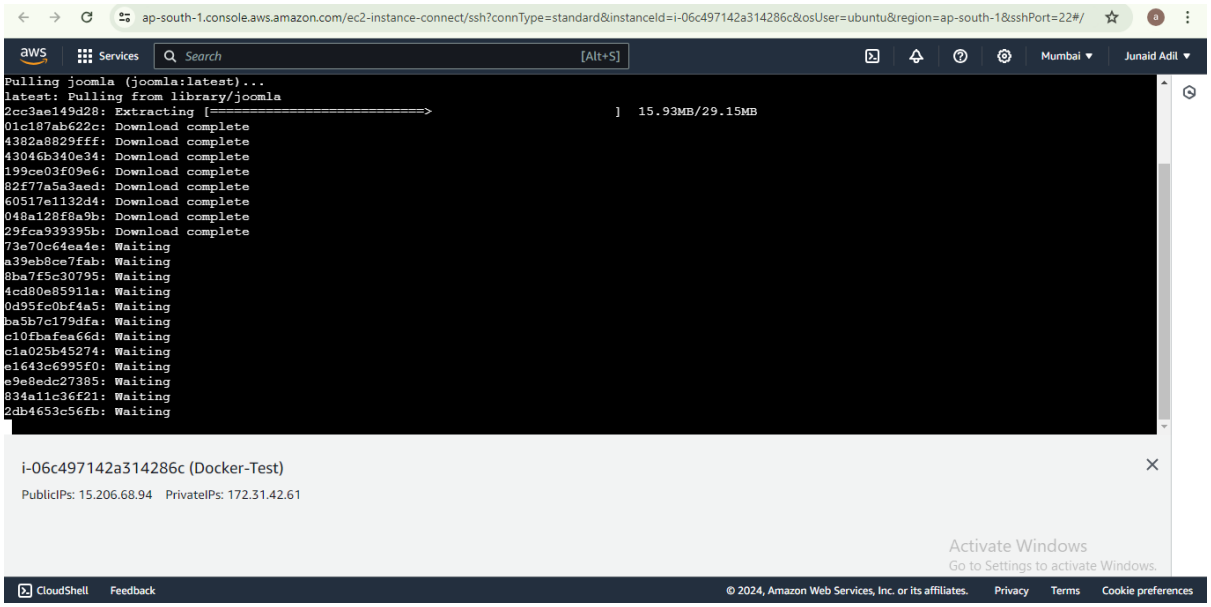
In docker-compose.yml file we define the services, networks, volumes, and configurations for the multi-container Docker applications.

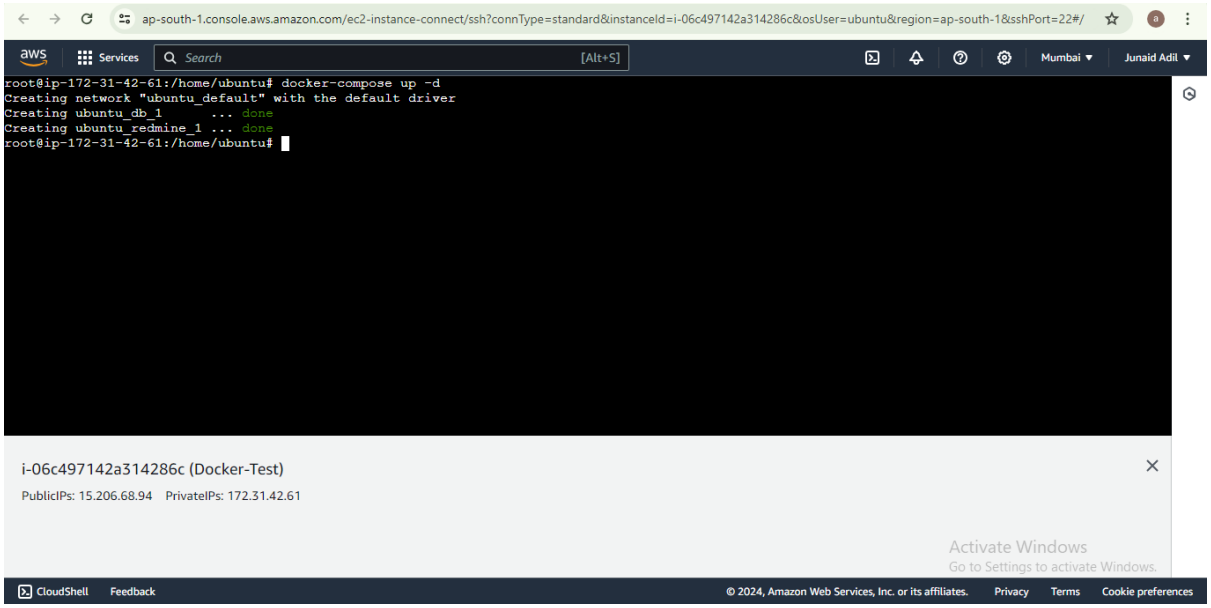




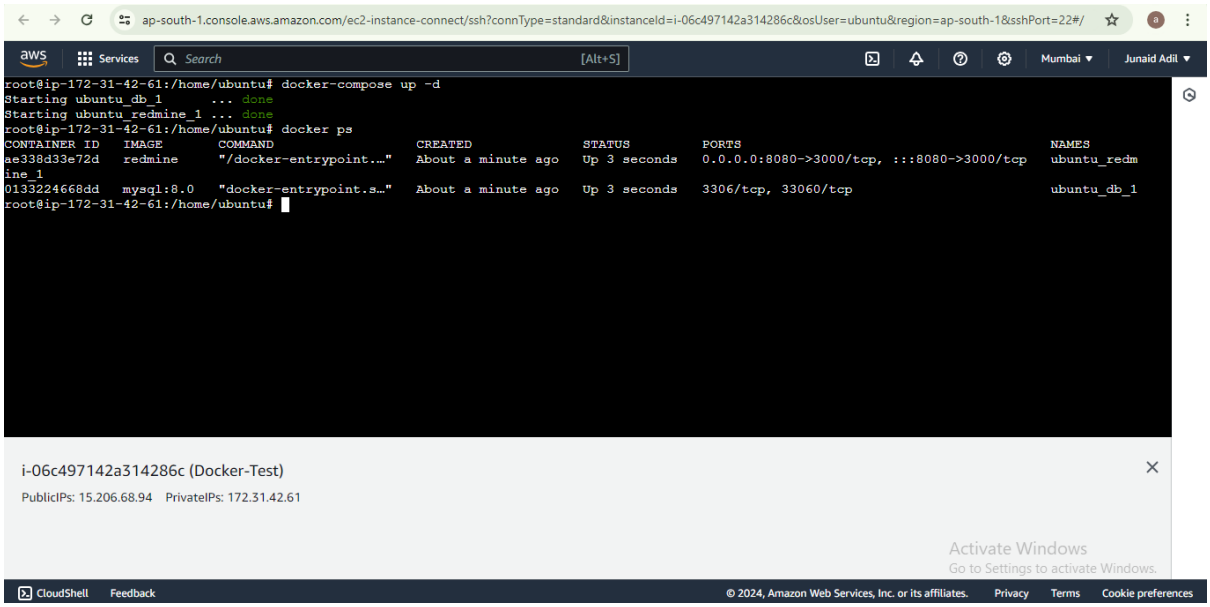
Step 5: Start the container using command **“docker-compose up -d”**



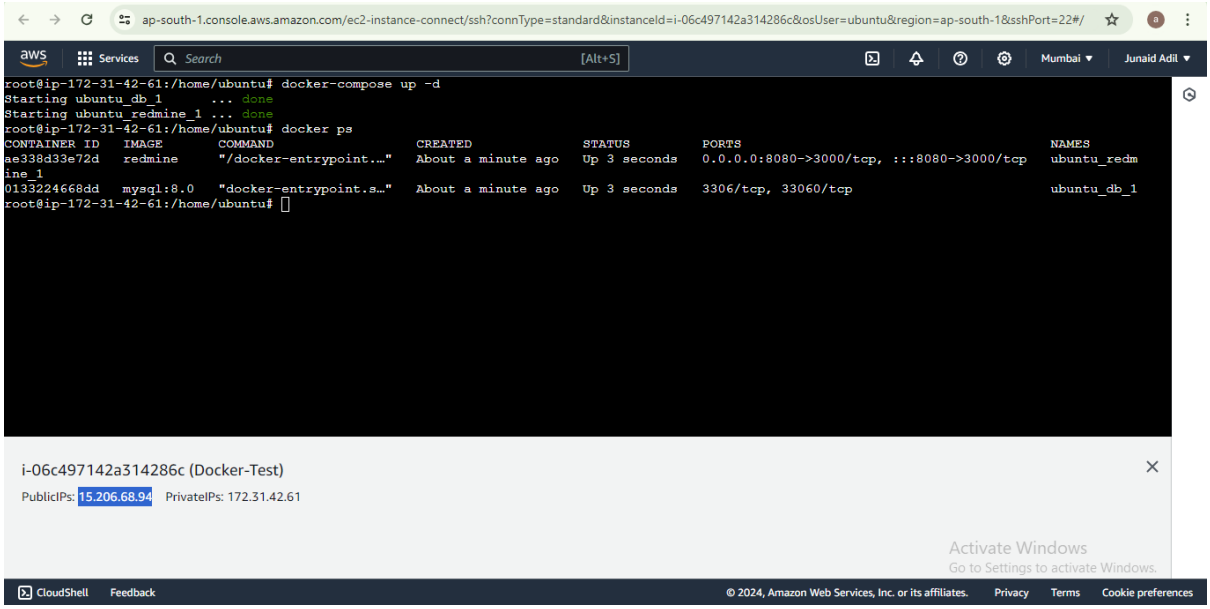

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06c497142a314286c&osUser=ubuntu&region=ap-south-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Mumbai
Junaid Adil
Pulling joomla (joomla:latest)...
latest: Pulling from library/joomla
2cc3ae149d28: Extracting [==========>] 15.93MB/29.15MB
01c187ab622c: Download complete
4382a8829fff: Download complete
43046b340e34: Download complete
199ce03f09e6: Download complete
82f77a5a3aed: Download complete
60517e1132d4: Download complete
048a128f8a9b: Download complete
29fca939395b: Download complete
73e70c64ea4e: Waiting
a39eb8ce7fab: Waiting
8ba7f5c30795: Waiting
4cd80e85911a: Waiting
0d95fc0bf4a5: Waiting
ba5b7c179dfa: Waiting
c10fbafea66d: Waiting
c1a025b45274: Waiting
e1643c6995f0: Waiting
e9e8edc27385: Waiting
834a11c36f21: Waiting
2db4653c56fb: Waiting
i-06c497142a314286c (Docker-Test)
PublicIPs: 15.206.68.94 PrivateIPs: 172.31.42.61
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

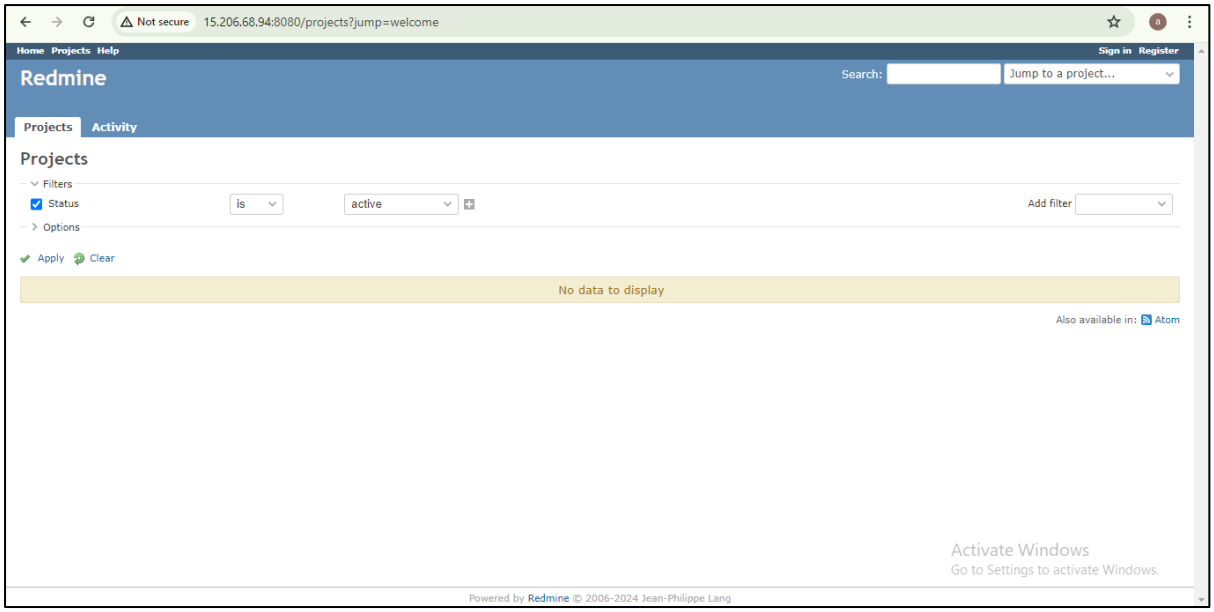

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-06c497142a314286c&osUser=ubuntu&region=ap-south-1&sshPort=22#/
aws
Services
Search
[Alt+S]
Mumbai
Junaid Adil
root@ip-172-31-42-61:/home/ubuntu# docker-compose up -d
Creating network "ubuntu_default" with the default driver
Creating ubuntu_db_1 ... done
Creating ubuntu_redmine_1 ... done
root@ip-172-31-42-61:/home/ubuntu#
i-06c497142a314286c (Docker-Test)
PublicIPs: 15.206.68.94 PrivateIPs: 172.31.42.61
Activate Windows
Go to Settings to activate Windows.
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

Step 6: Run **“docker ps”** to check the status of container

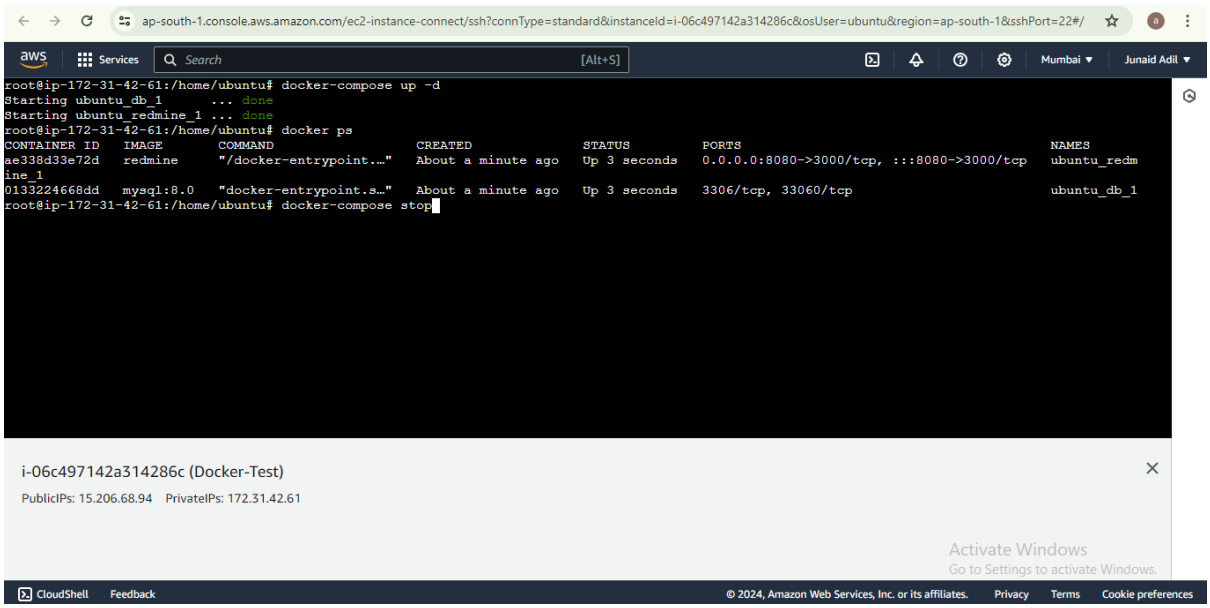


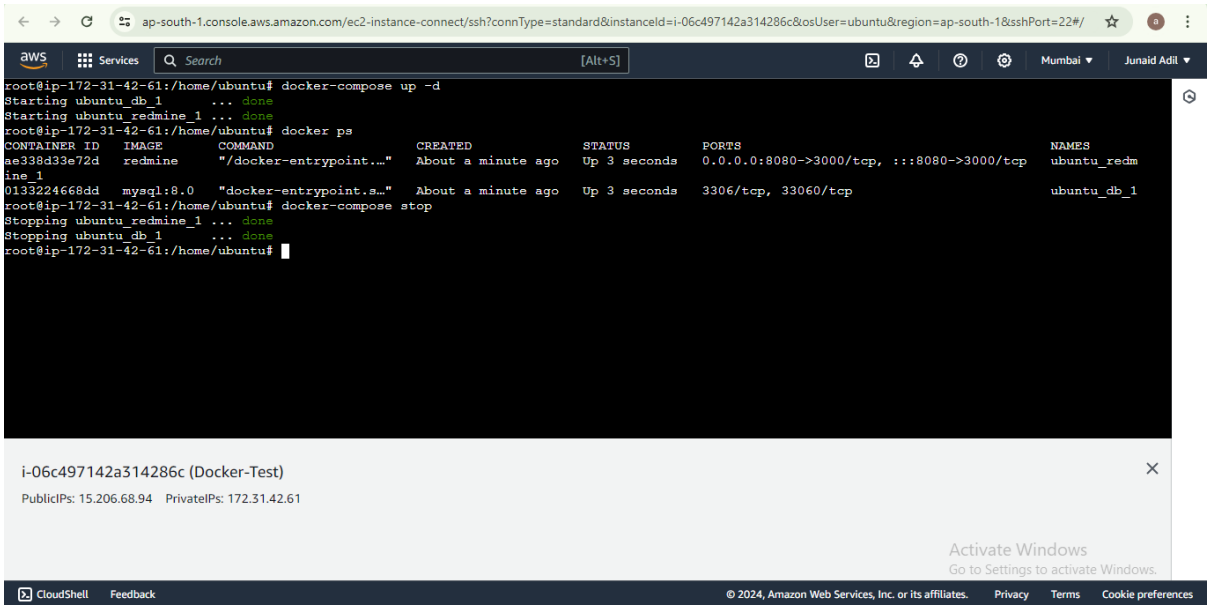
Step 7: Go to web-browser and run https://localhost:8080, copy Public IP of instance along with the port number:8080. Command **“15.206.68.94:8080 “**



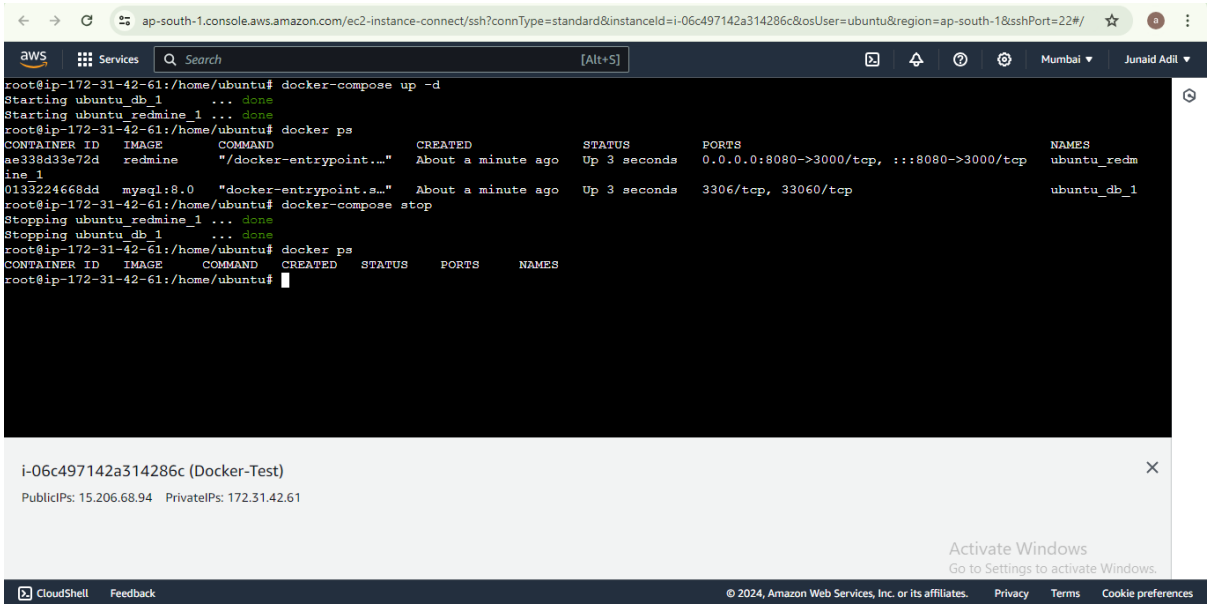


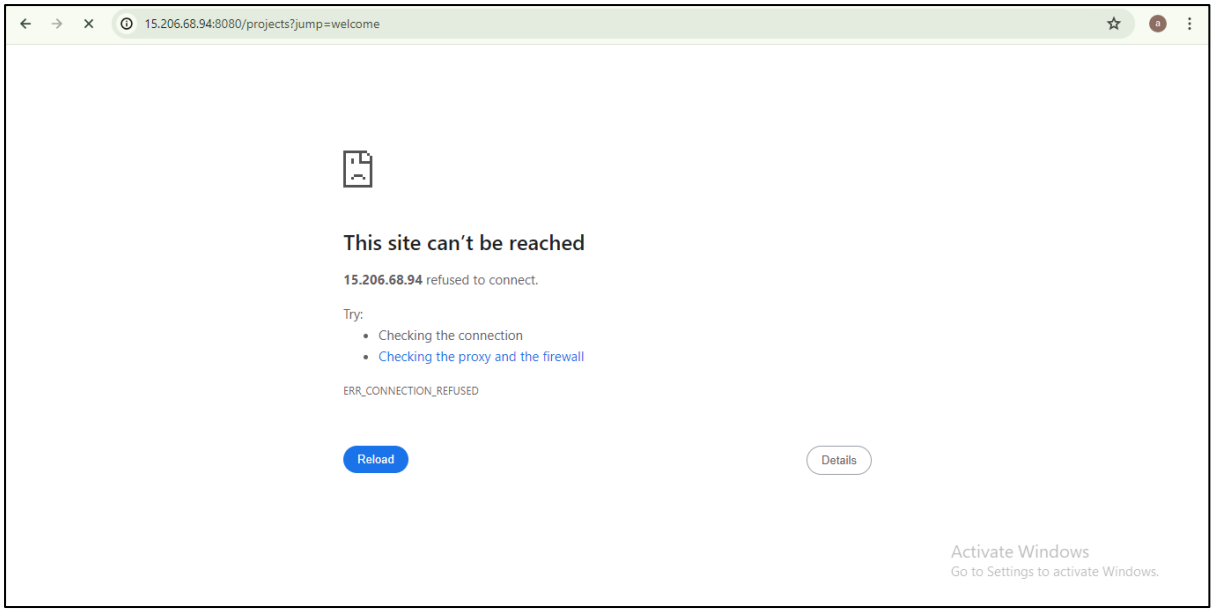
<u>Step 8:</u> Execute command **"docker-compose down"** to stop all running services defined in docker-copmose.yml file or Container.





We can see the container has been stopped



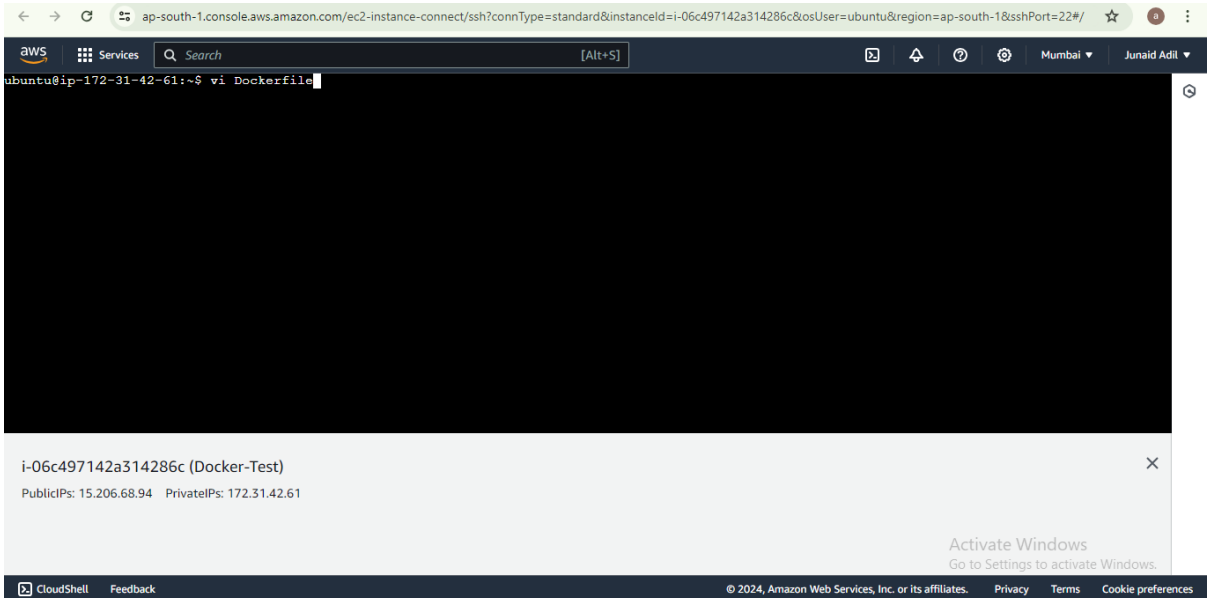


Site can’t be Reached.

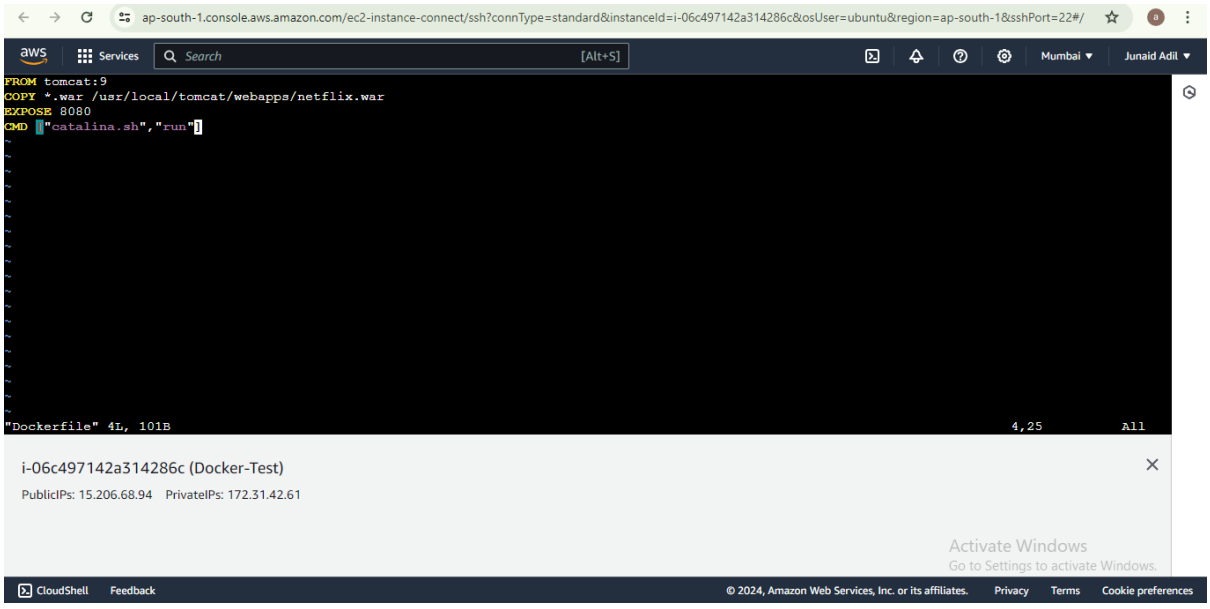
Additional:

Create Docker container image based on an existing image and push the Image to Docker Hub Registry:

Step 1: Connect to an Instance and create a Dockerfile

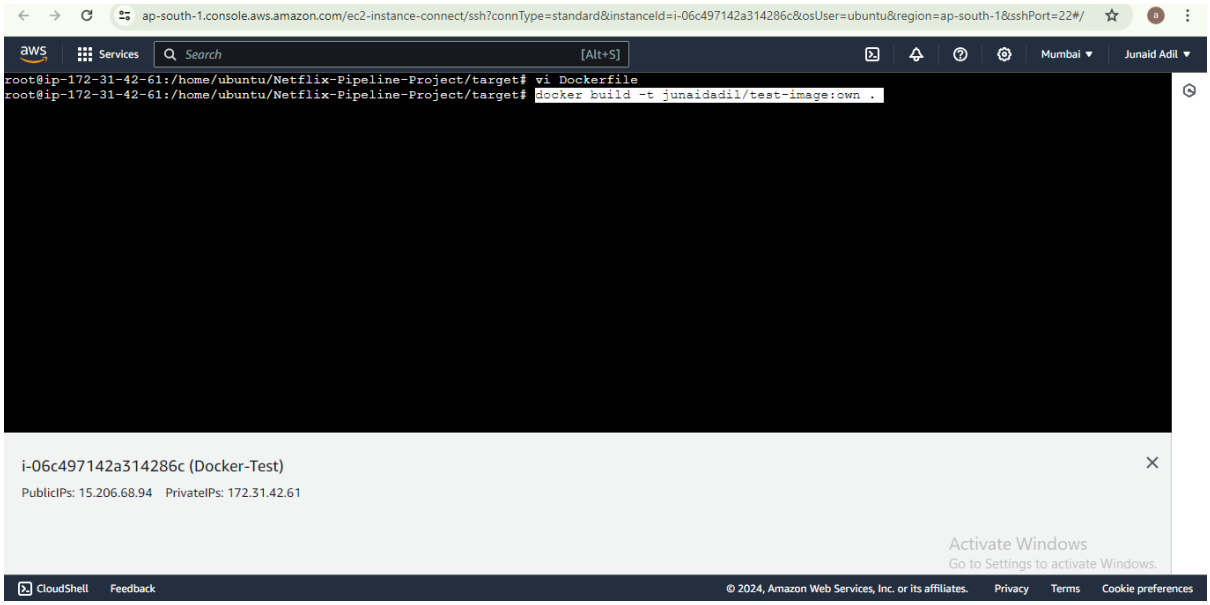


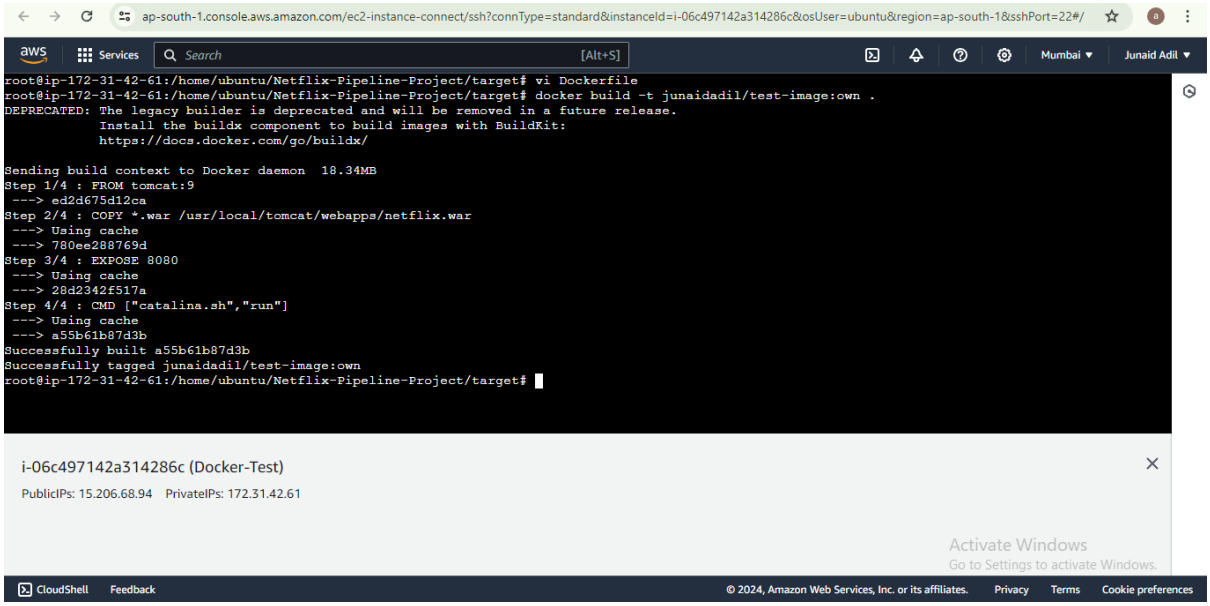
Enter the Instructions based upon the Base Image in Dockerfile. Where the Artifacts already built.



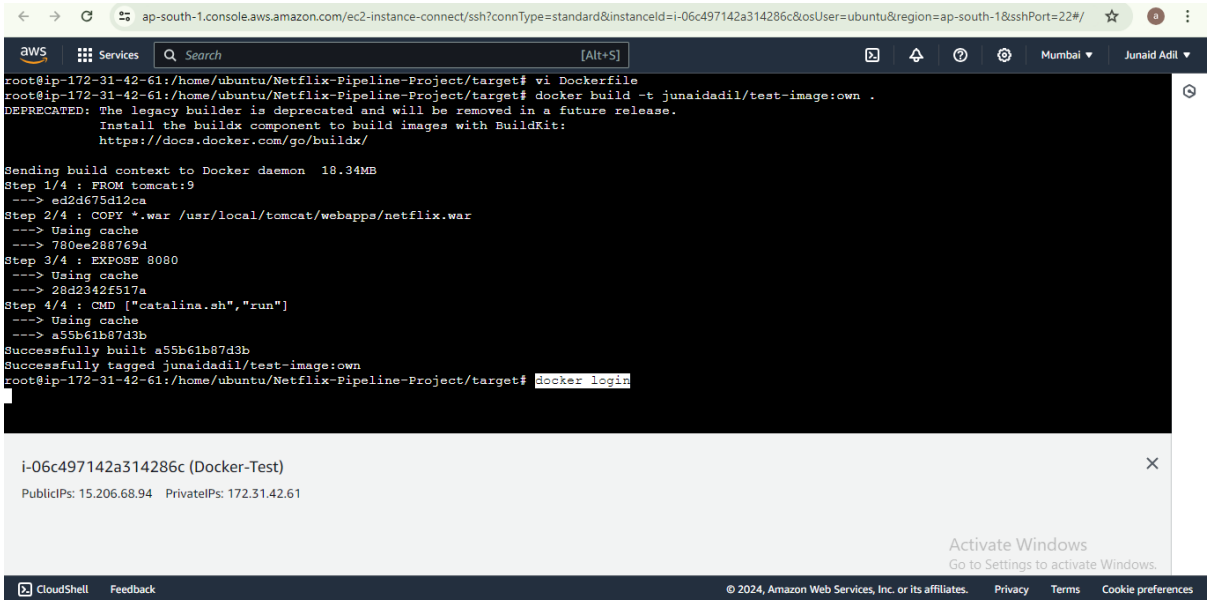
Step 2: Using this command **“docker build -t yourusername/your-image-name:tag .”** we can Build the Docker Image.

Execute command **“docker build -t junaidadil/test-image:own .”** to Build the Docker Image.

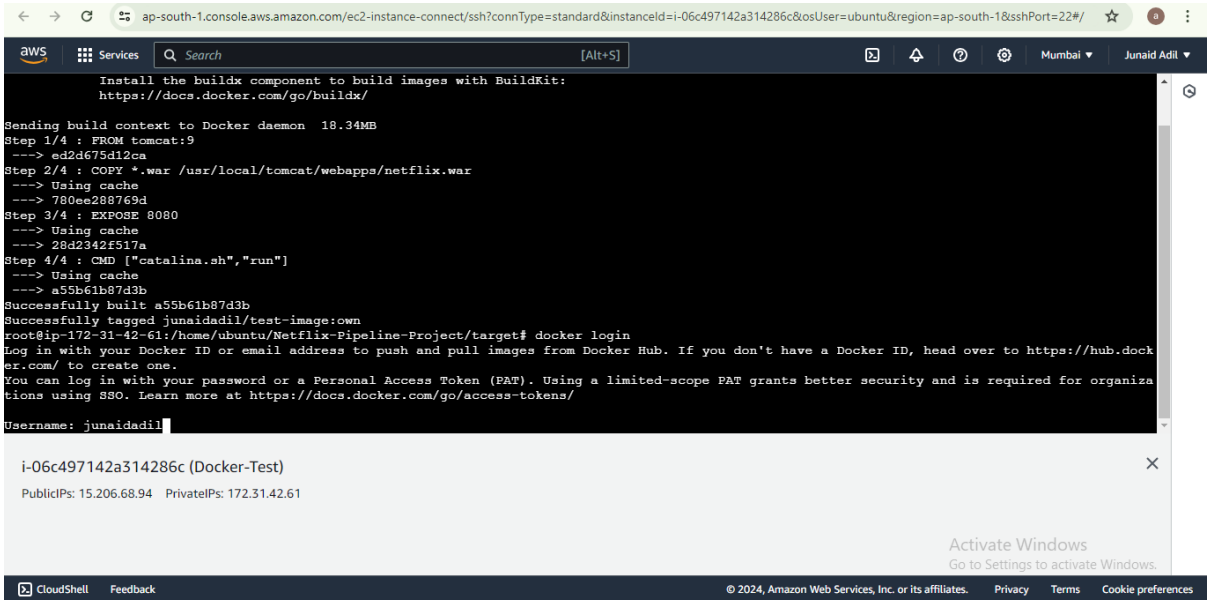




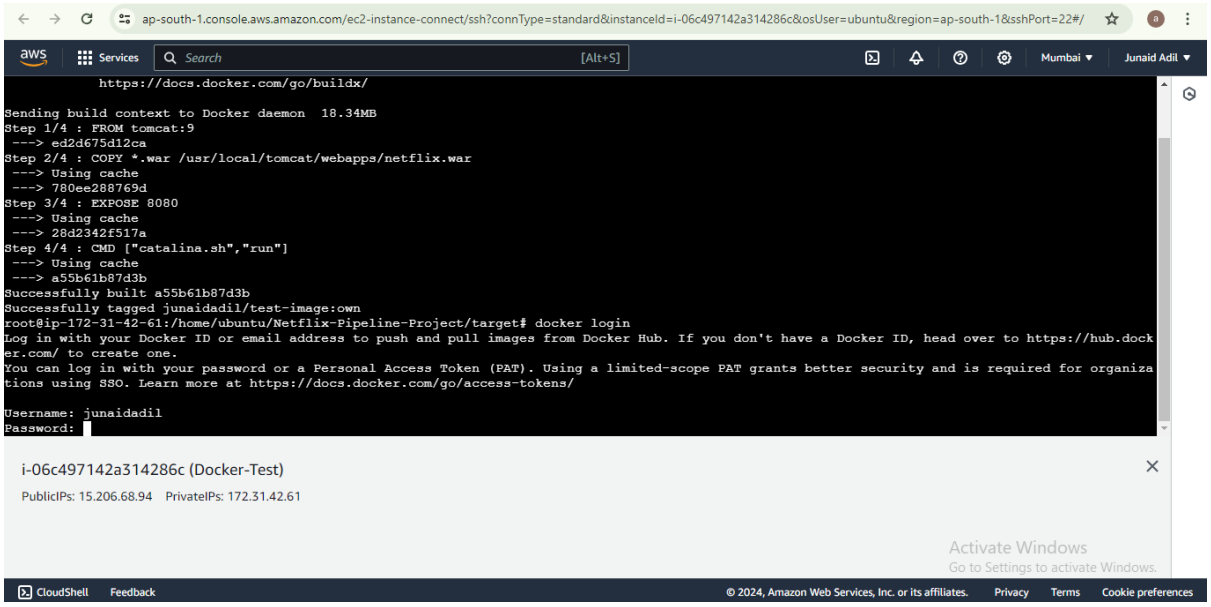
Step 3: Login to Docker Hub Account using command **“docker login ”**



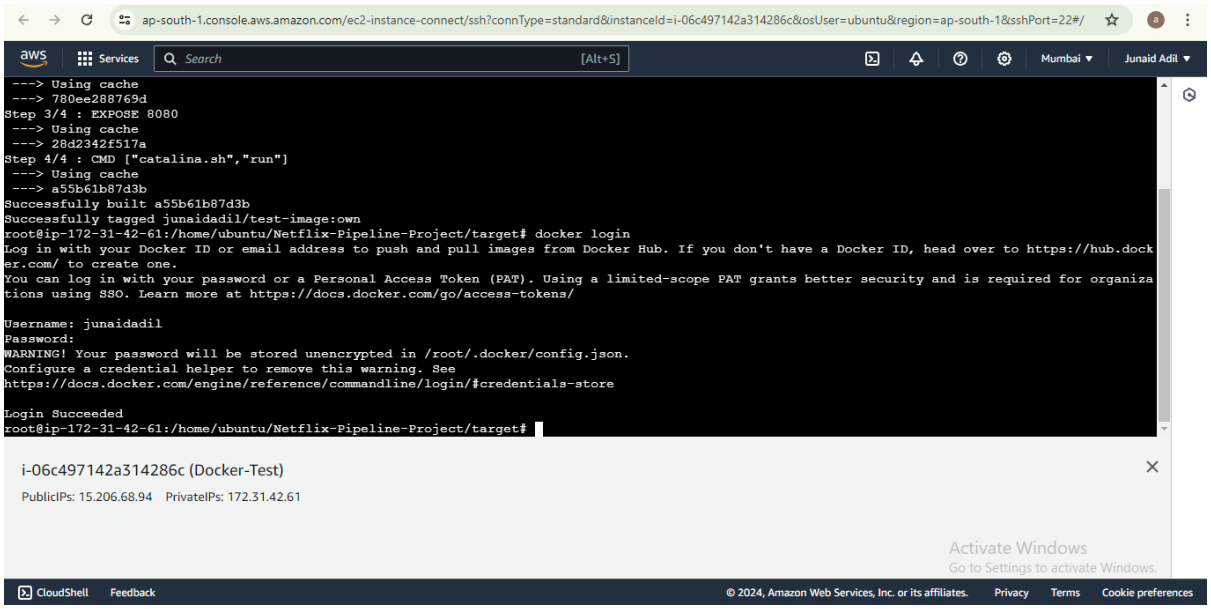
Enter username



Enter password

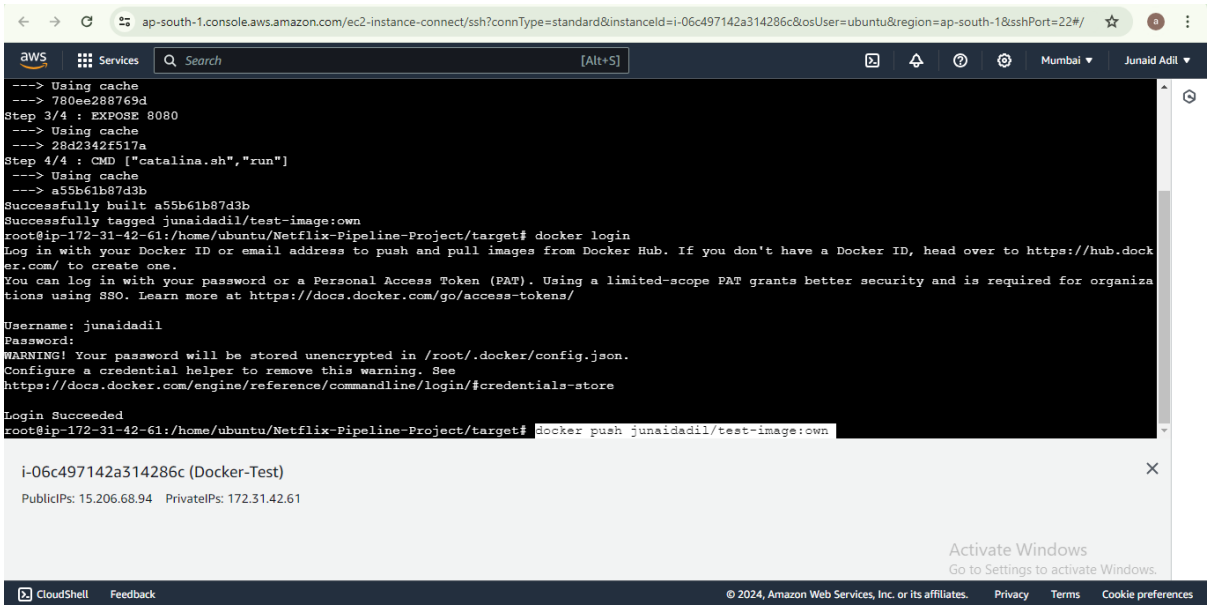


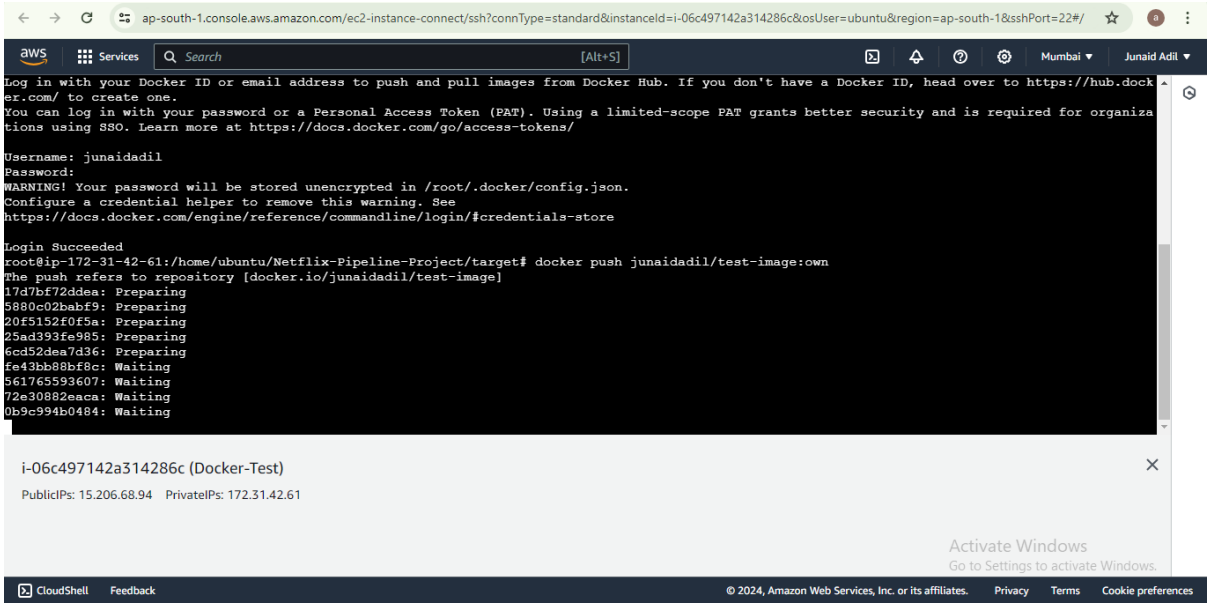
Logged in successfully



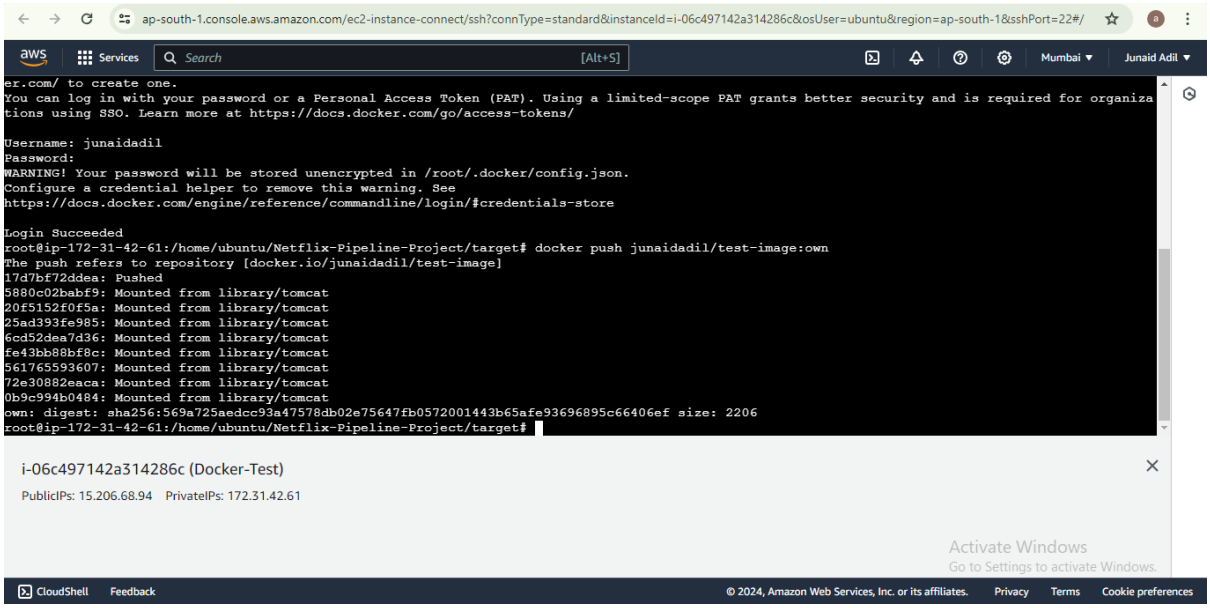
<u>Step 4:</u> Run command **“docker push yourusername/your-image-name:tag”** to push the created image into docker registry.

Execute command **“ docker push junaidadil/test-image:own ”**

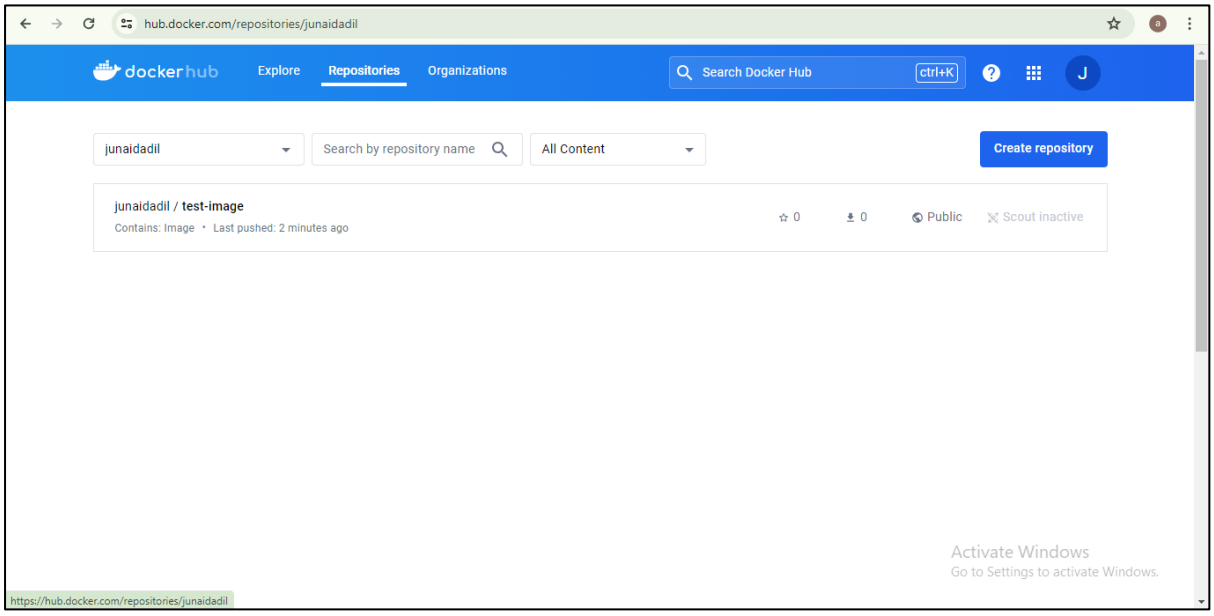


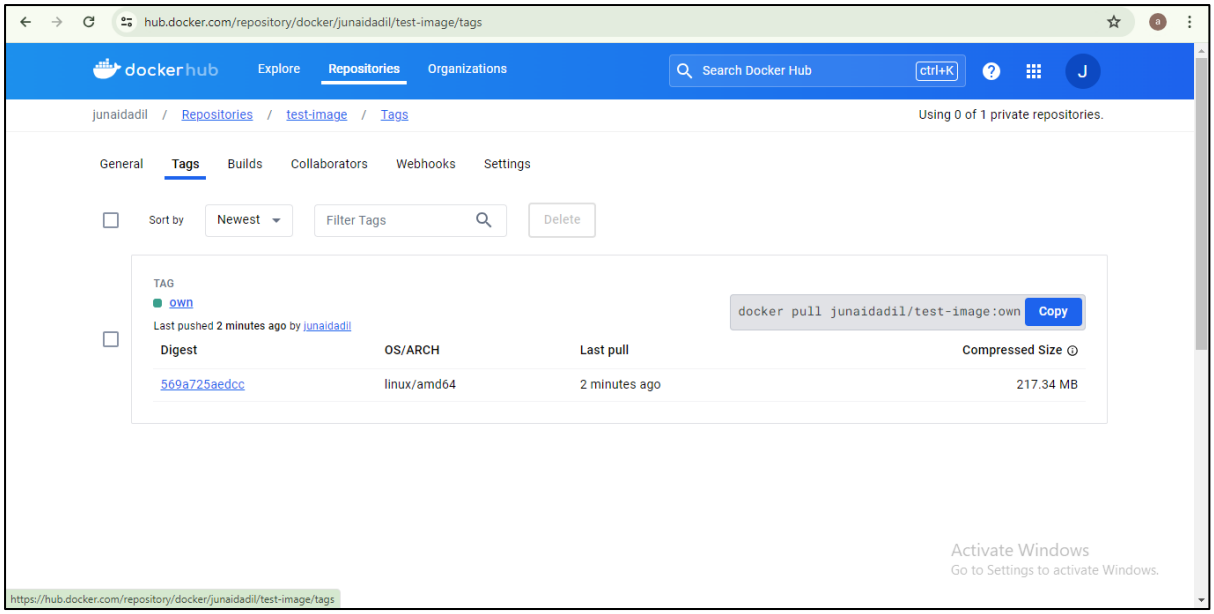


We can see the image has been pushed to docker registry



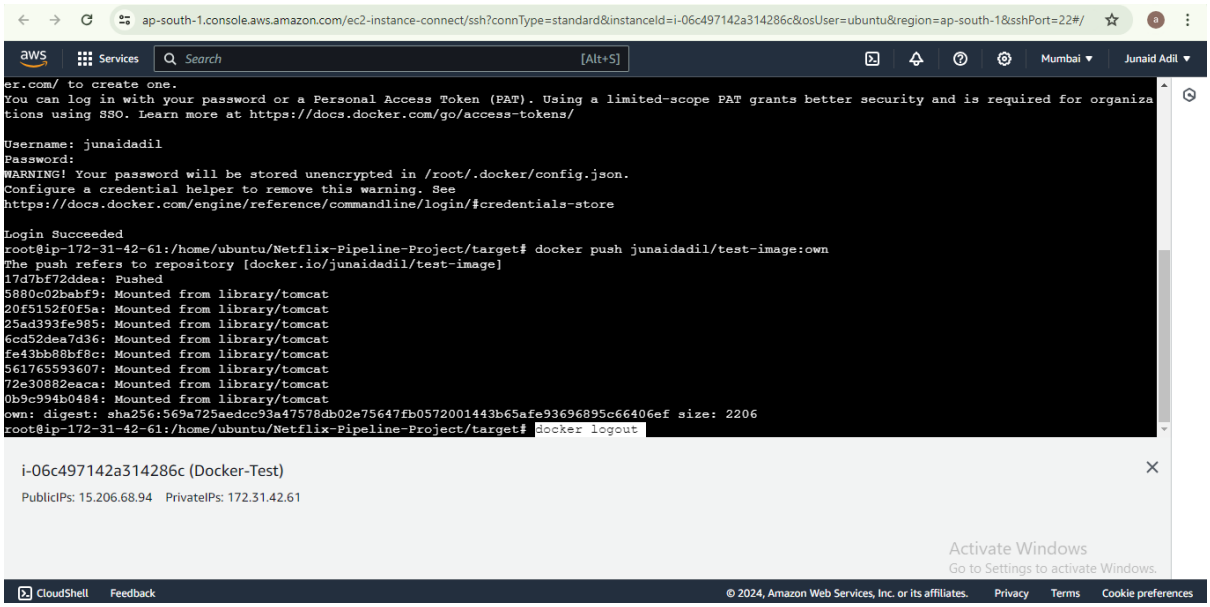
Step 5: Login to Docker Hub account and verify the created Image





We can see the Image has been successfully pushed to Docker registry

<u>Step 6:</u> Execute command **"docker logout "** to logout of the Docker hub account



Successfully logged out of the Dockerhub account