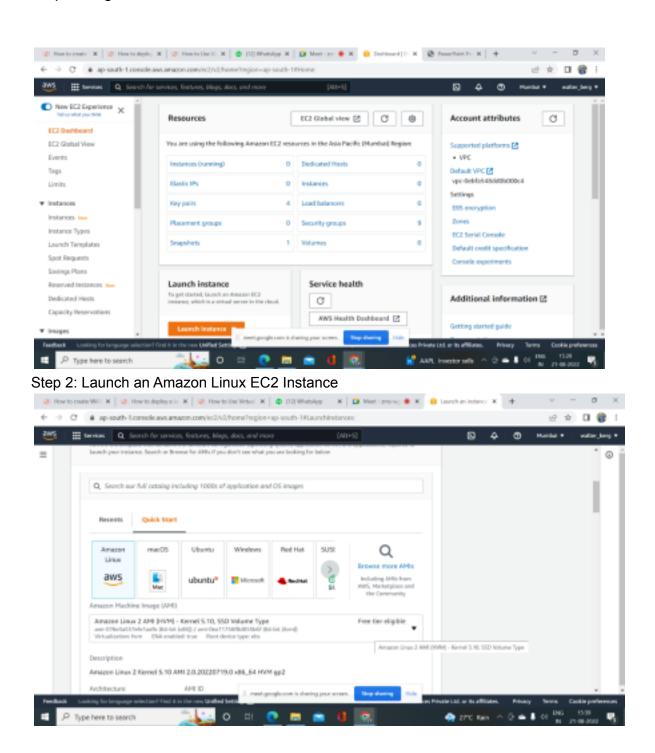
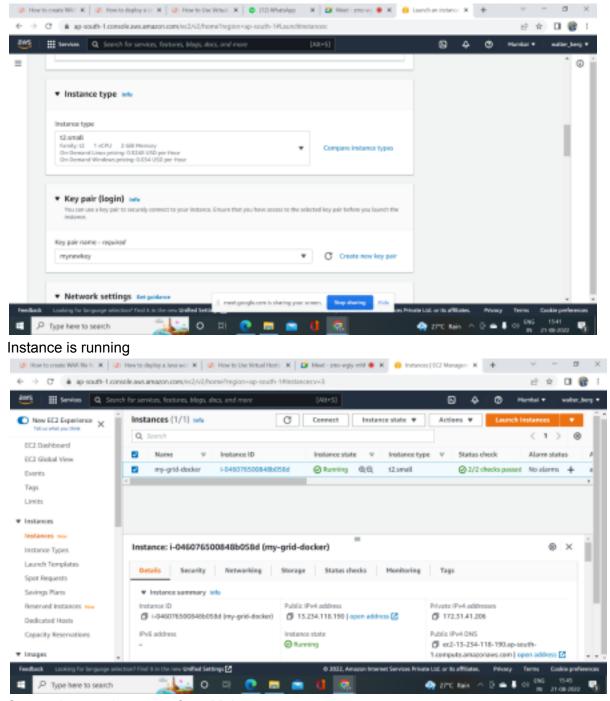
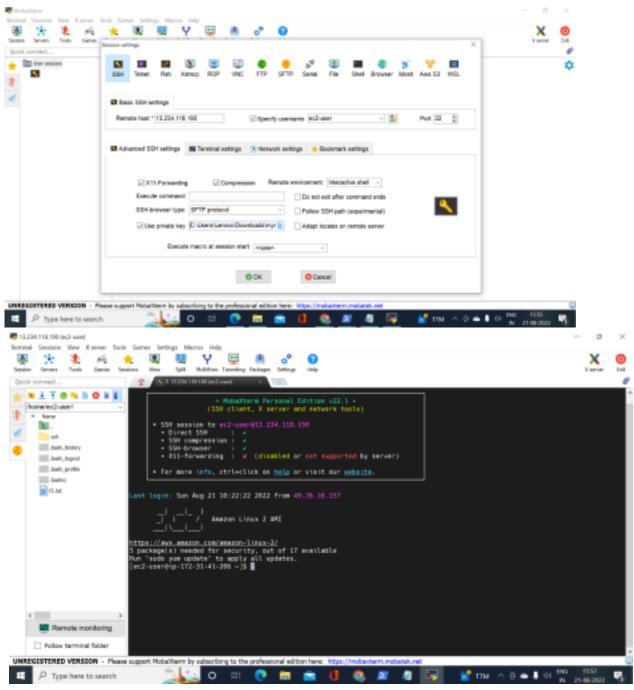
Create Selenium Grid (Using Docker Compose) and Execute the test cases in parallel with different browsers at single instance

Step 1: Login to Aws Console and Launch an ec2 dashboard





Step 3: Access the server from Mobaxterm

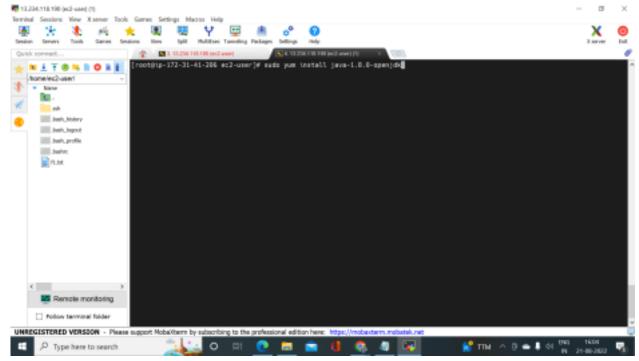


Instance is running and up

Step 4: we need to install java

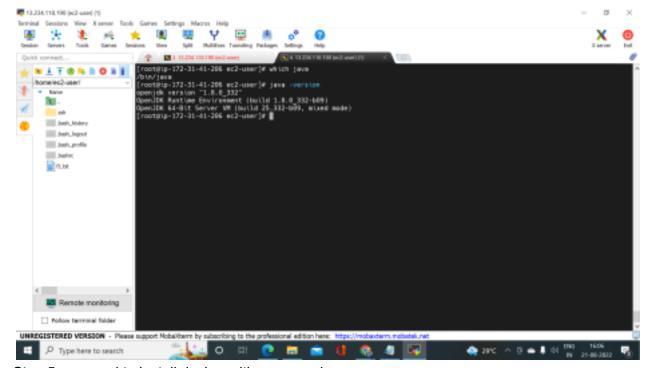
Command to install java:

sudo yum install java-1.8.0-openjdk



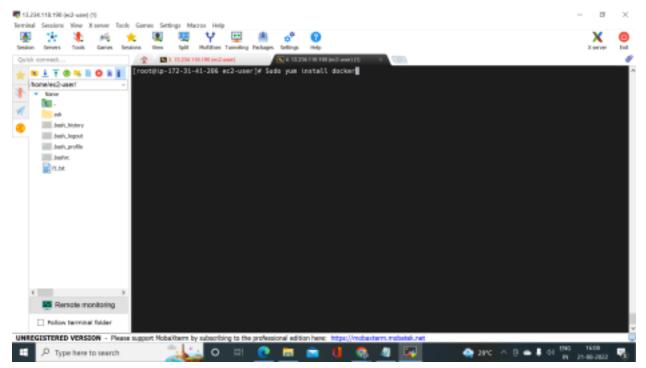
Now check whether java is installed or not with command:





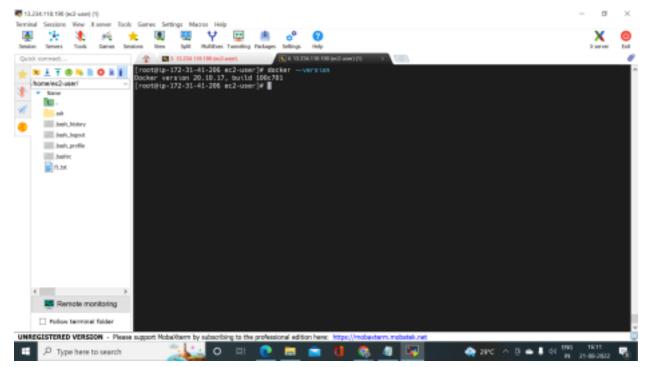
Step 5: we need to install docker with command:

sudo yum install docker



Check docker version with command:

docker --version

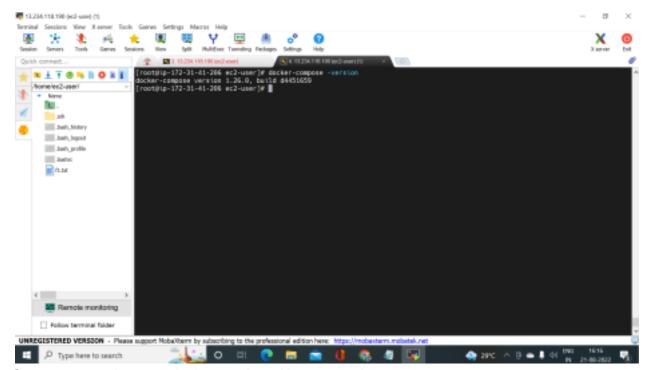


Step 6: after that we need to install docker-compose with commands:

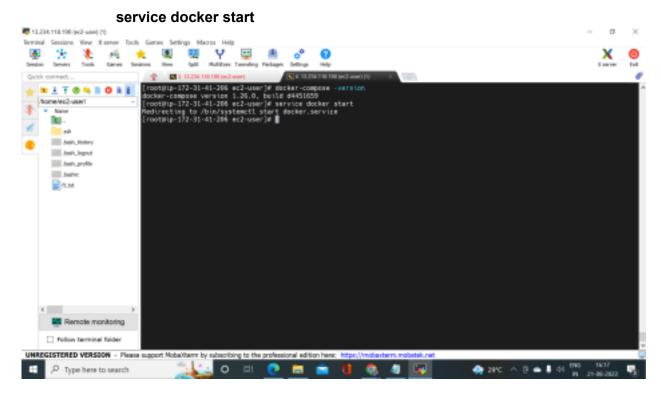
 $sudo\ curl\ -L\ "https://github.com/docker/compose/releases/download/1.26.0/docker-compose-\$(uname\ -s)-\$(uname\ -m)"\ -o/usr/local/bin/docker-compose$

sudo mv /usr/local/bin/docker-compose /usr/bin/docker-compose sudo chmod +x /usr/bin/docker-compose

Now we need to check whether docker-compose is installed or not with command:



Step 7: we need to start docker service with command:



- # To execute this docker-compose yml file use `docker-compose -f docker-compose-v3.yml up`
- # Add the `-d` flag at the end for detached execution
- # To stop the execution, hit Ctrl+C, and then 'docker-compose -f docker-compose-v3.yml down'

version: "3"

```
services:
chrome:
 image: selenium/node-chrome:4.4.0-20220812
 shm_size: 2gb
 depends_on:
  - selenium-hub
 environment:
  - SE_EVENT_BUS_HOST=selenium-hub
  - SE_EVENT_BUS_PUBLISH_PORT=4442
  - SE_EVENT_BUS_SUBSCRIBE_PORT=4443
edge:
 image: selenium/node-edge:4.4.0-20220812
 shm_size: 2gb
 depends_on:
  - selenium-hub
 environment:
  - SE_EVENT_BUS_HOST=selenium-hub
  - SE_EVENT_BUS_PUBLISH_PORT=4442
  - SE_EVENT_BUS_SUBSCRIBE_PORT=4443
firefox:
 image: selenium/node-firefox:4.4.0-20220812
 shm_size: 2gb
 depends_on:
  - selenium-hub
 environment:
```

- SE_EVENT_BUS_HOST=selenium-hub
- SE_EVENT_BUS_PUBLISH_PORT=4442
- SE_EVENT_BUS_SUBSCRIBE_PORT=4443

selenium-hub:

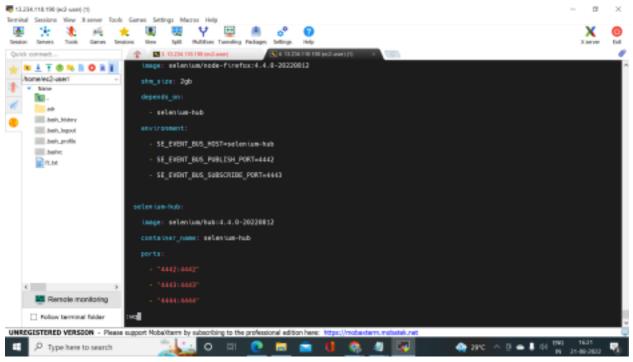
image: selenium/hub:4.4.0-20220812

container_name: selenium-hub

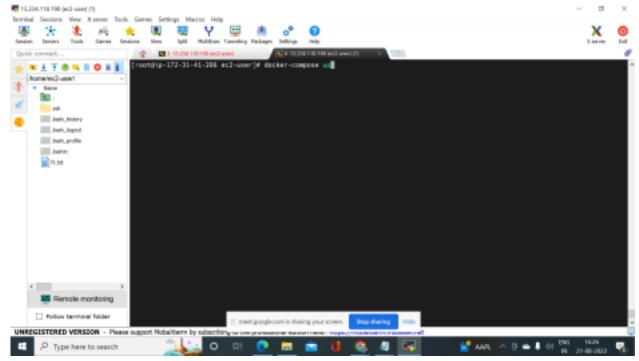
ports:

- "4442:4442"
- "4443:4443"
- "4444:4444"

Step 8: After that we need to create file docker-compose.yml in order to run more than one containers in a one go.



Step 9 : Now we need to run our docker-compose file to setup the selenium hub and nodes: docker-compose up



We can check docker images with command

docker images

