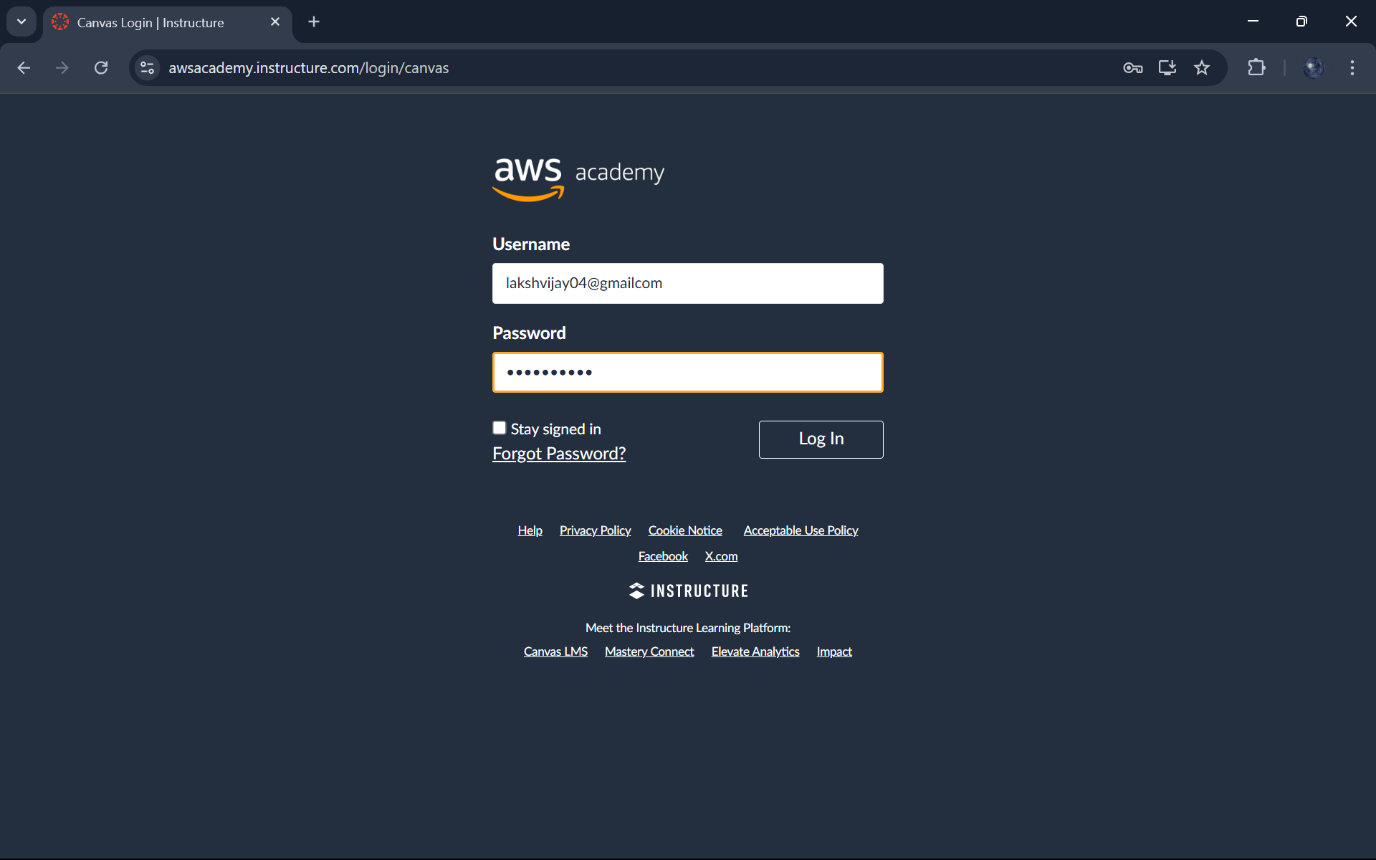
**MAVEN WEB PROJECT DEPLOYMENT IN THE AWS CLOUD USING EC2 INSTANCE**

**Search for AWS academy login**

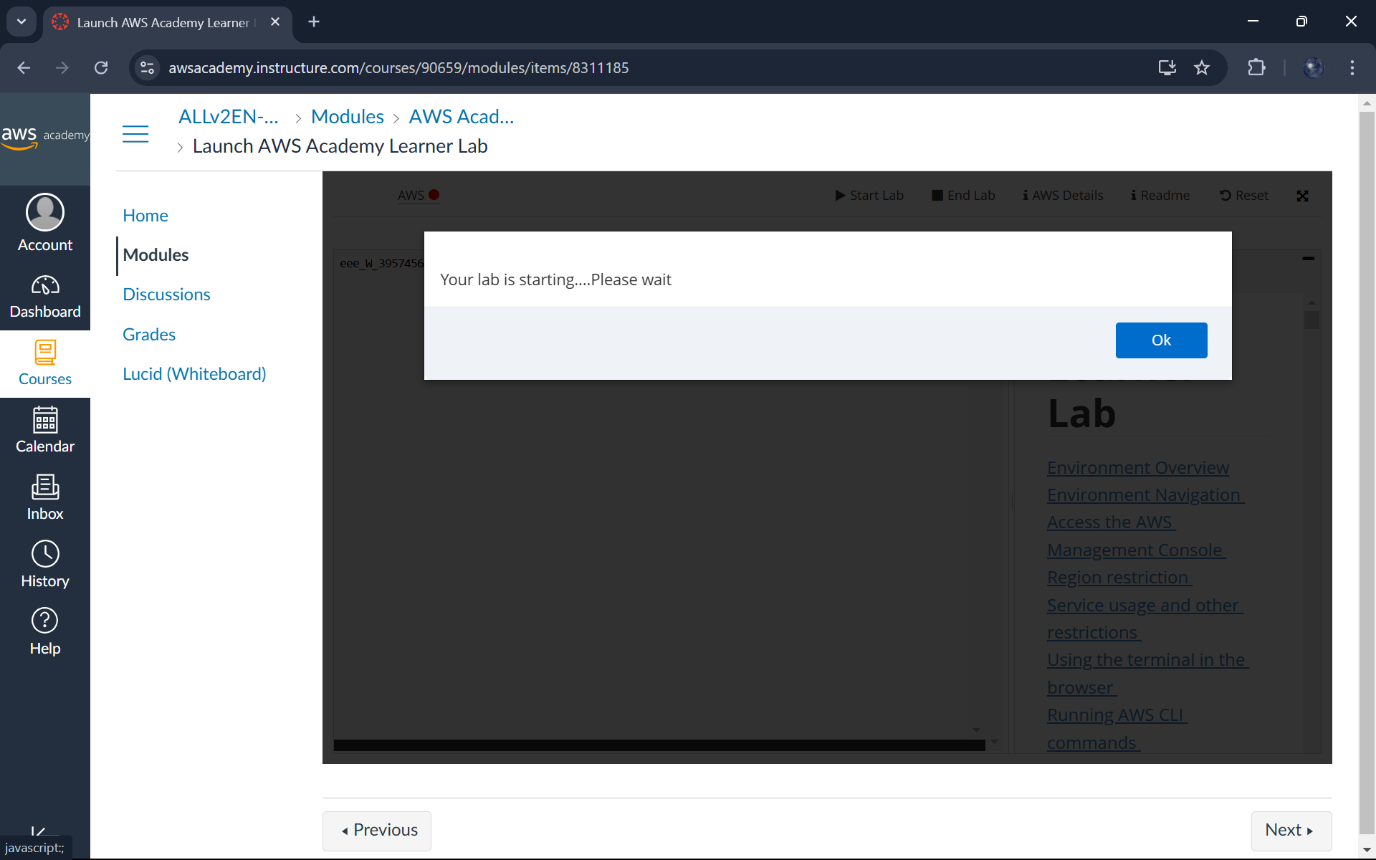
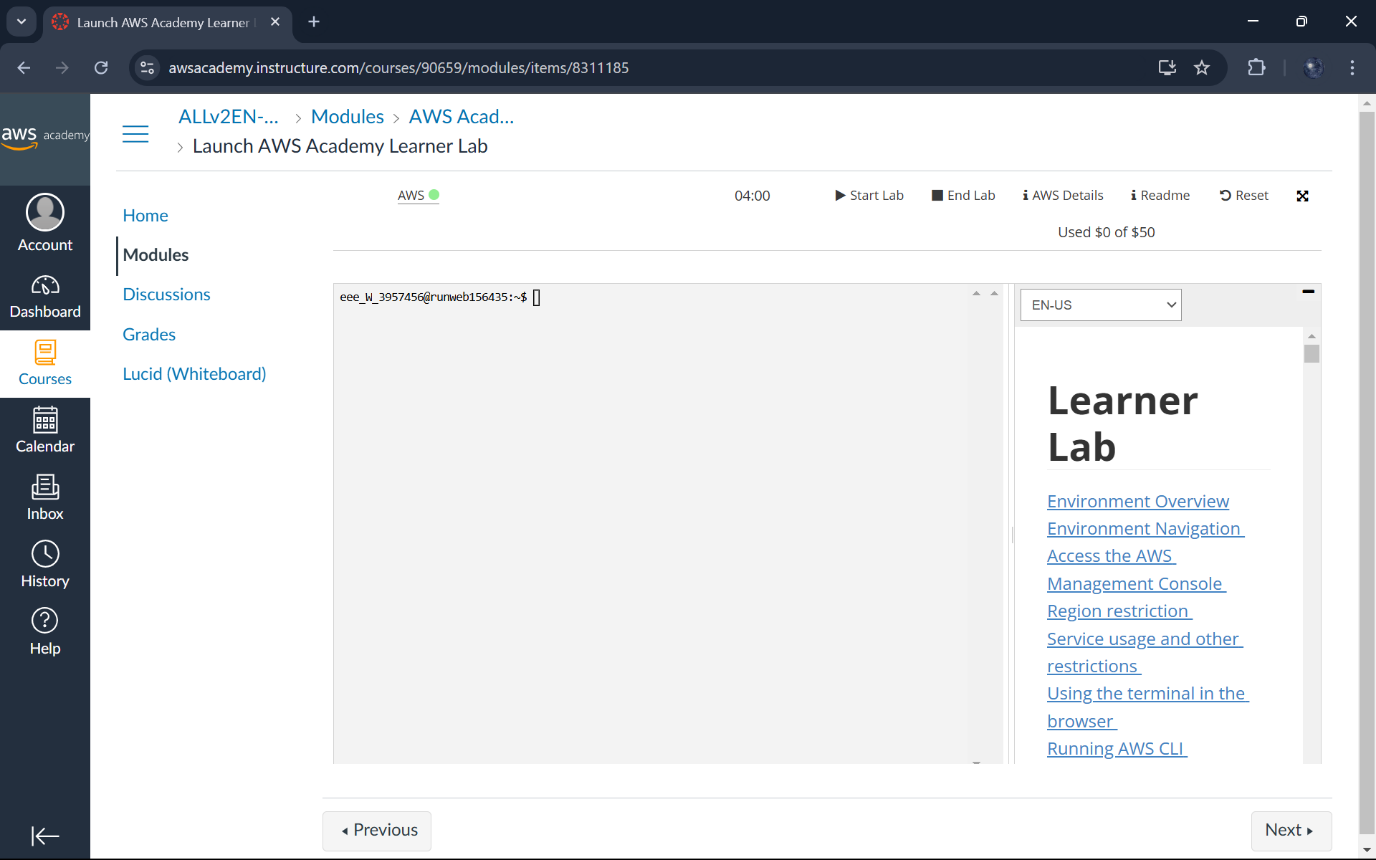
**Click on Student Login.**

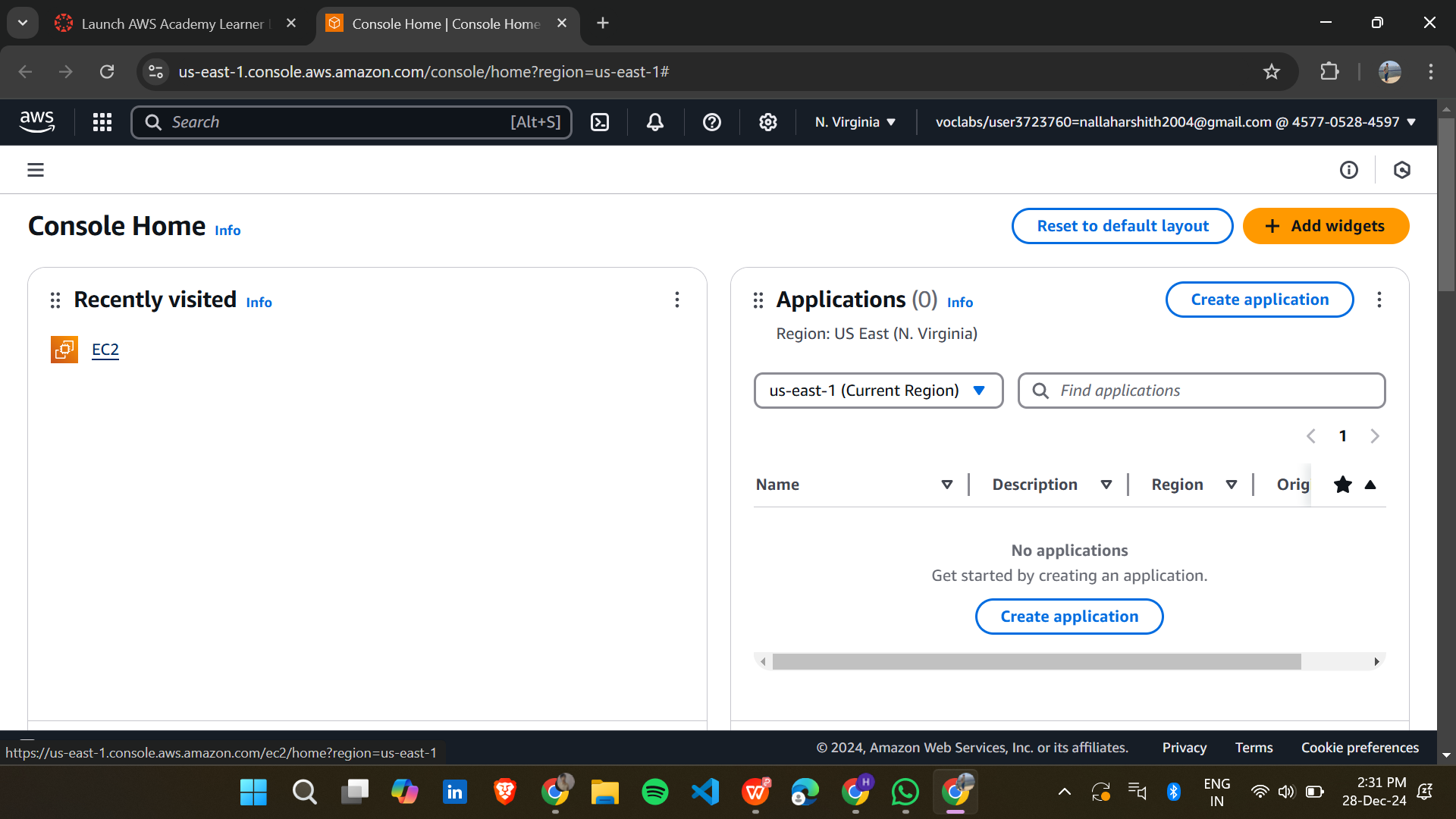
**Enter your details and login. **

**Click on AWS Academy Learner Lab ->Modules**

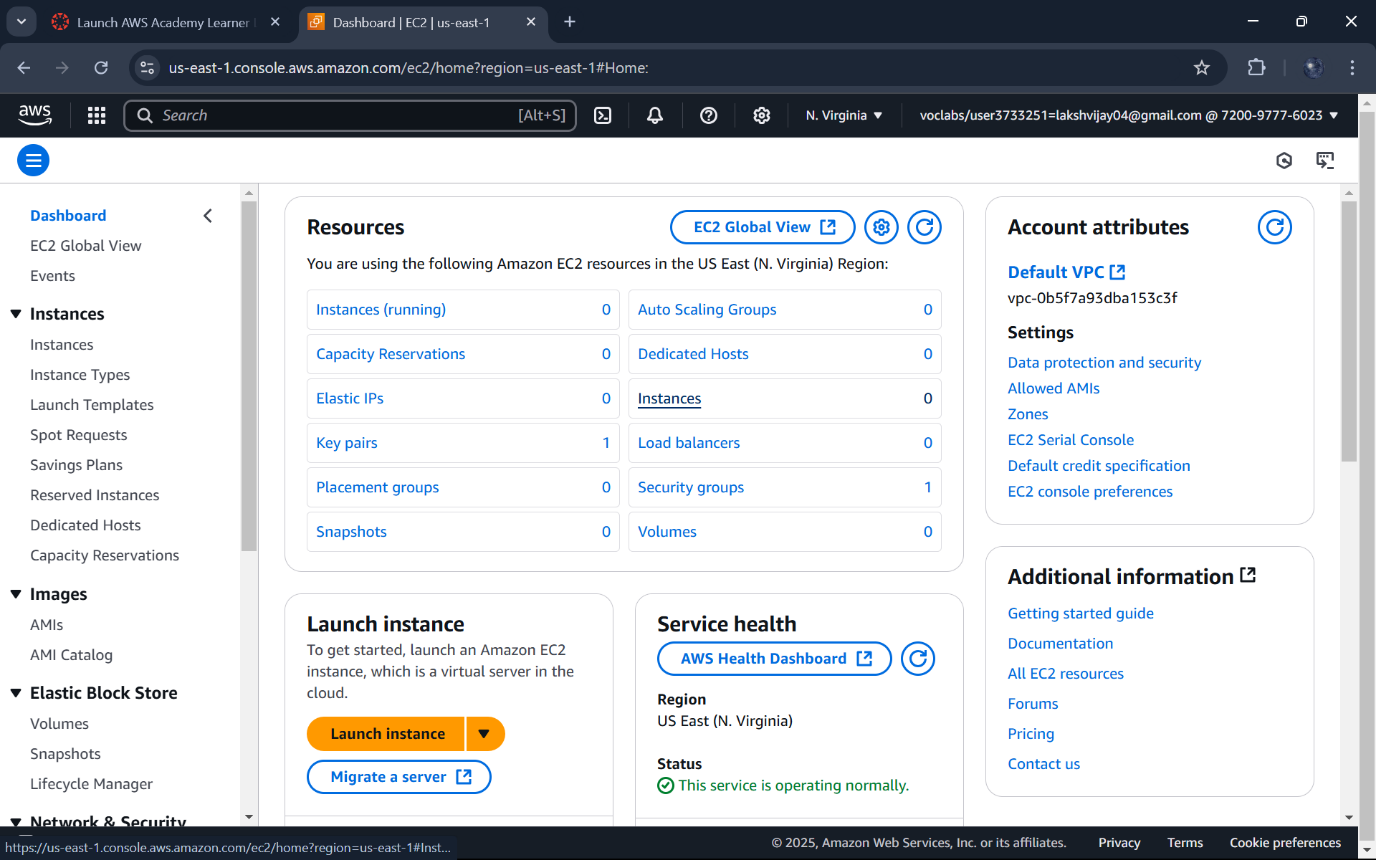
**Click on Launch AWS Academy Learner Lab.**

**After Click on Start Lab.**

**After it became green click on it. **

****

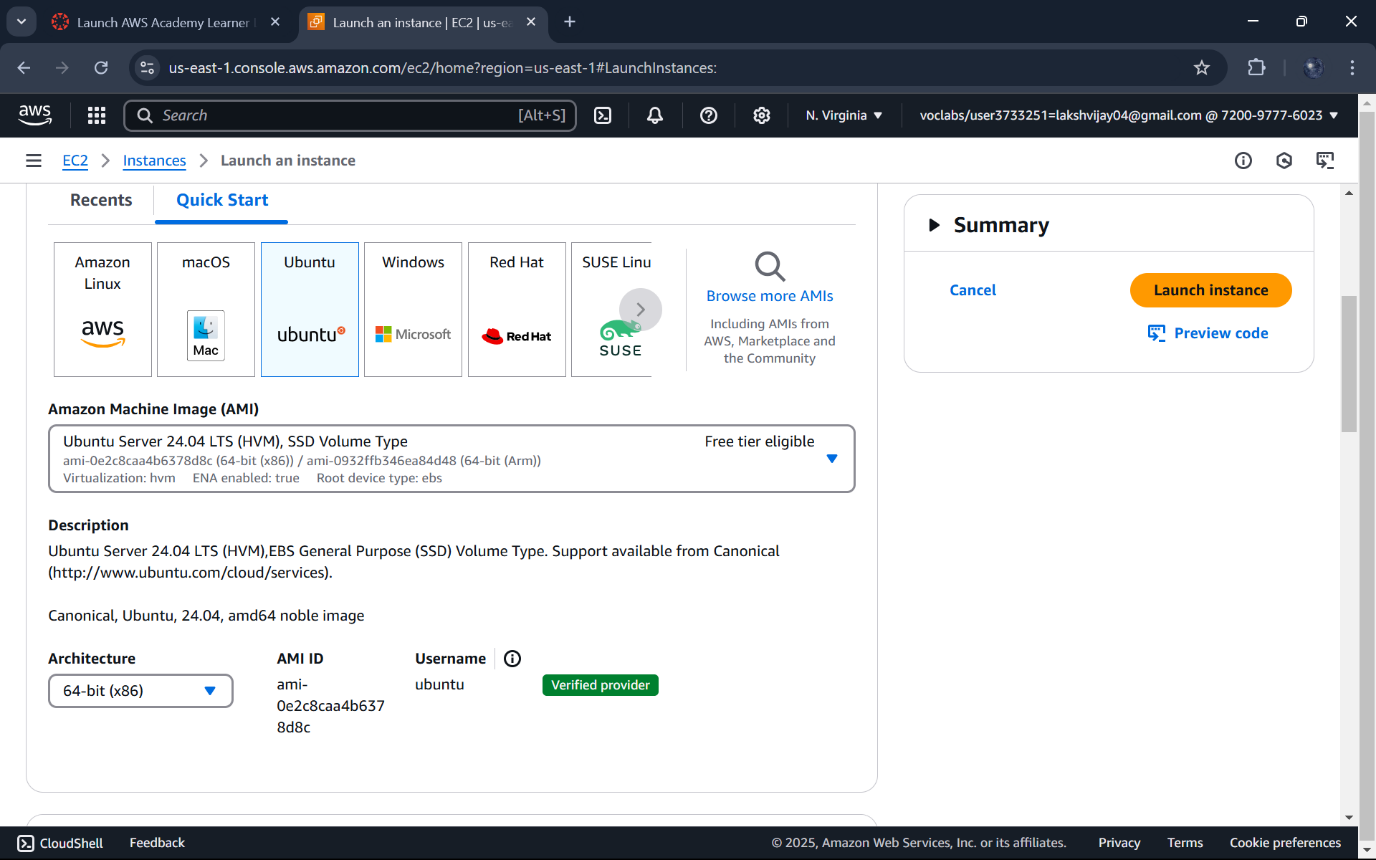
**Click on EC2.**

**Click Launch Instance. **

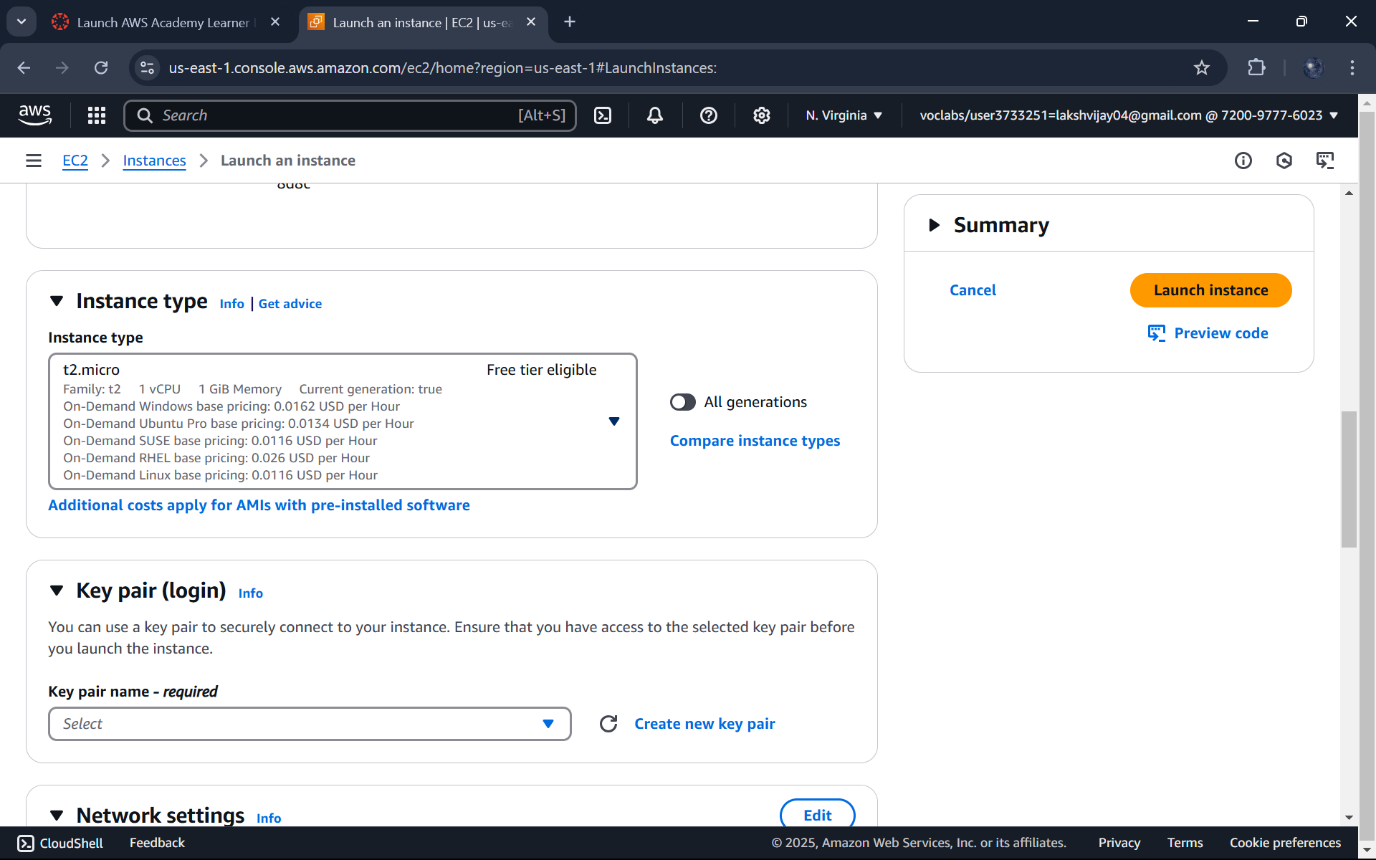
**Enter a descriptive name:ex:MavenWebProjectServer**

****

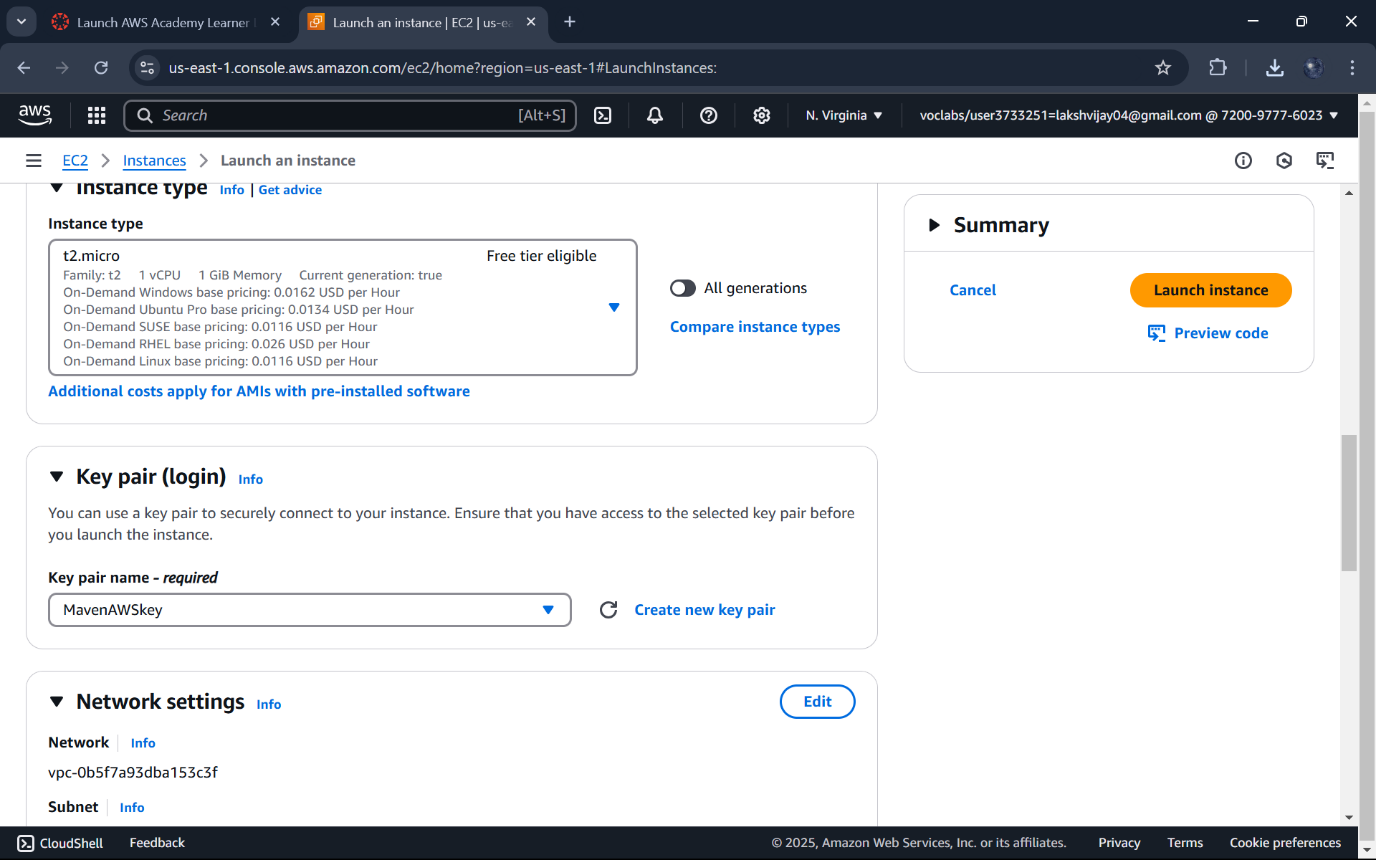
**AMI: Select Ubuntu Server(Free Tire Elgible)**

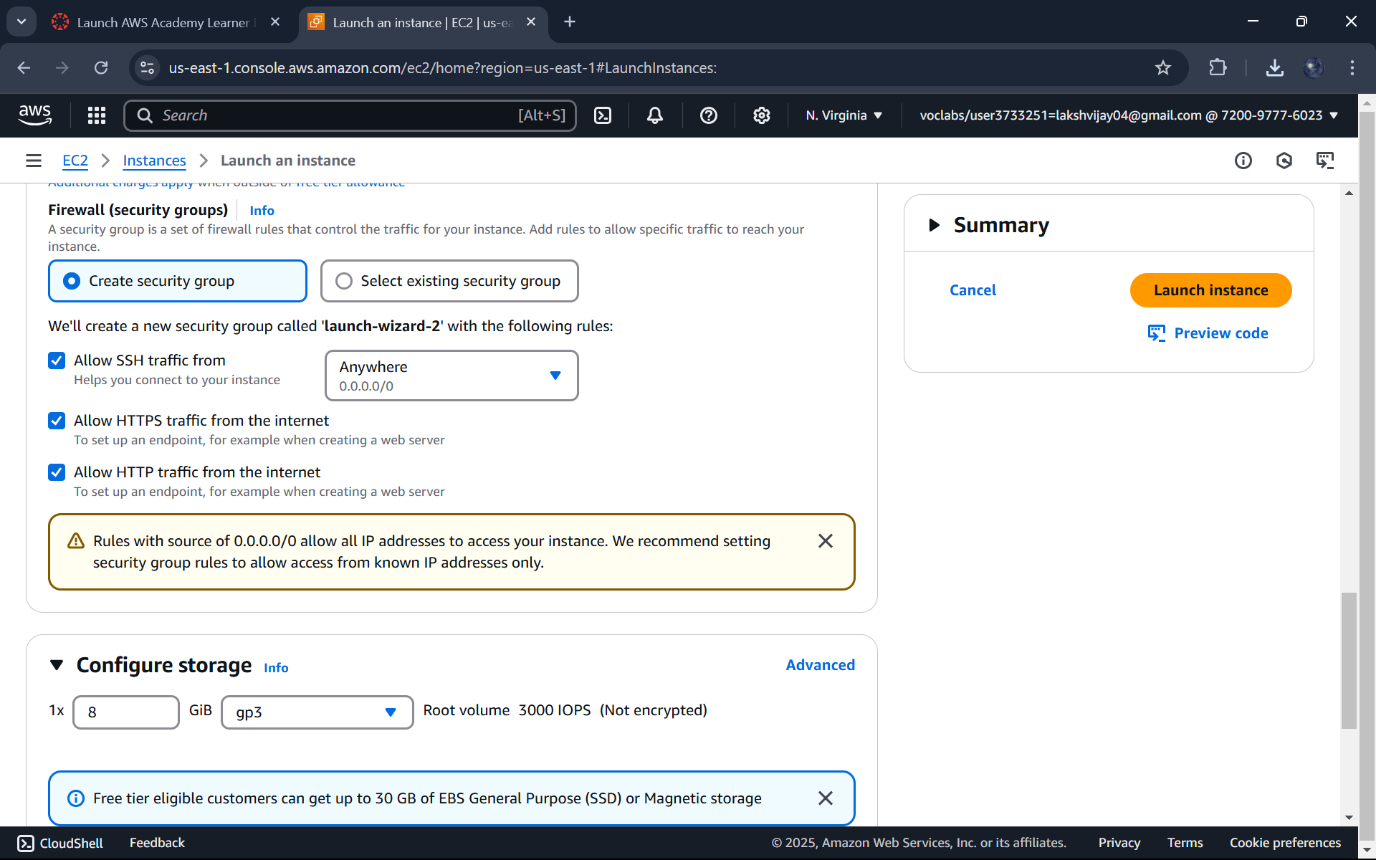
****

**Instance type:Choose t2.micro**

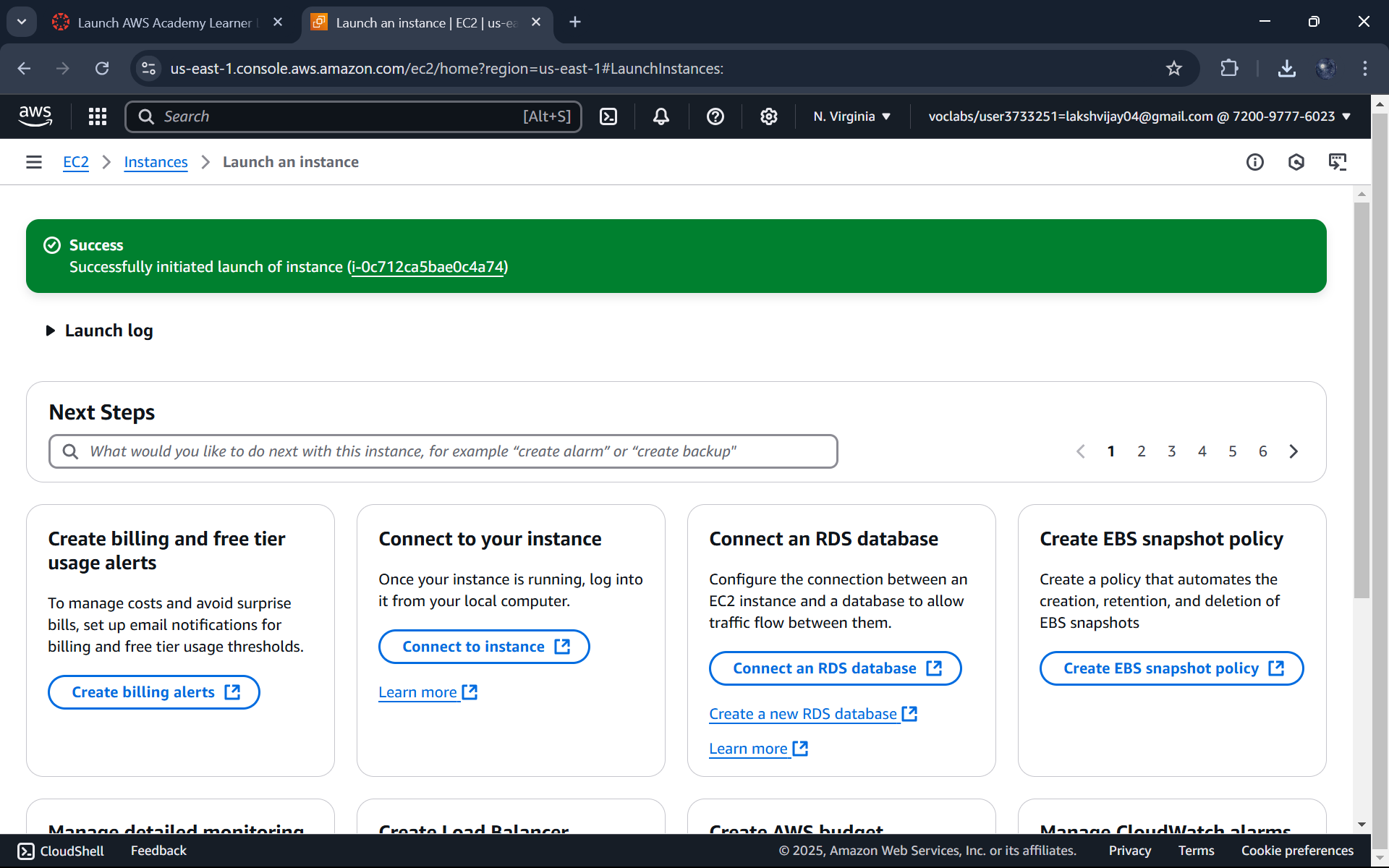
****

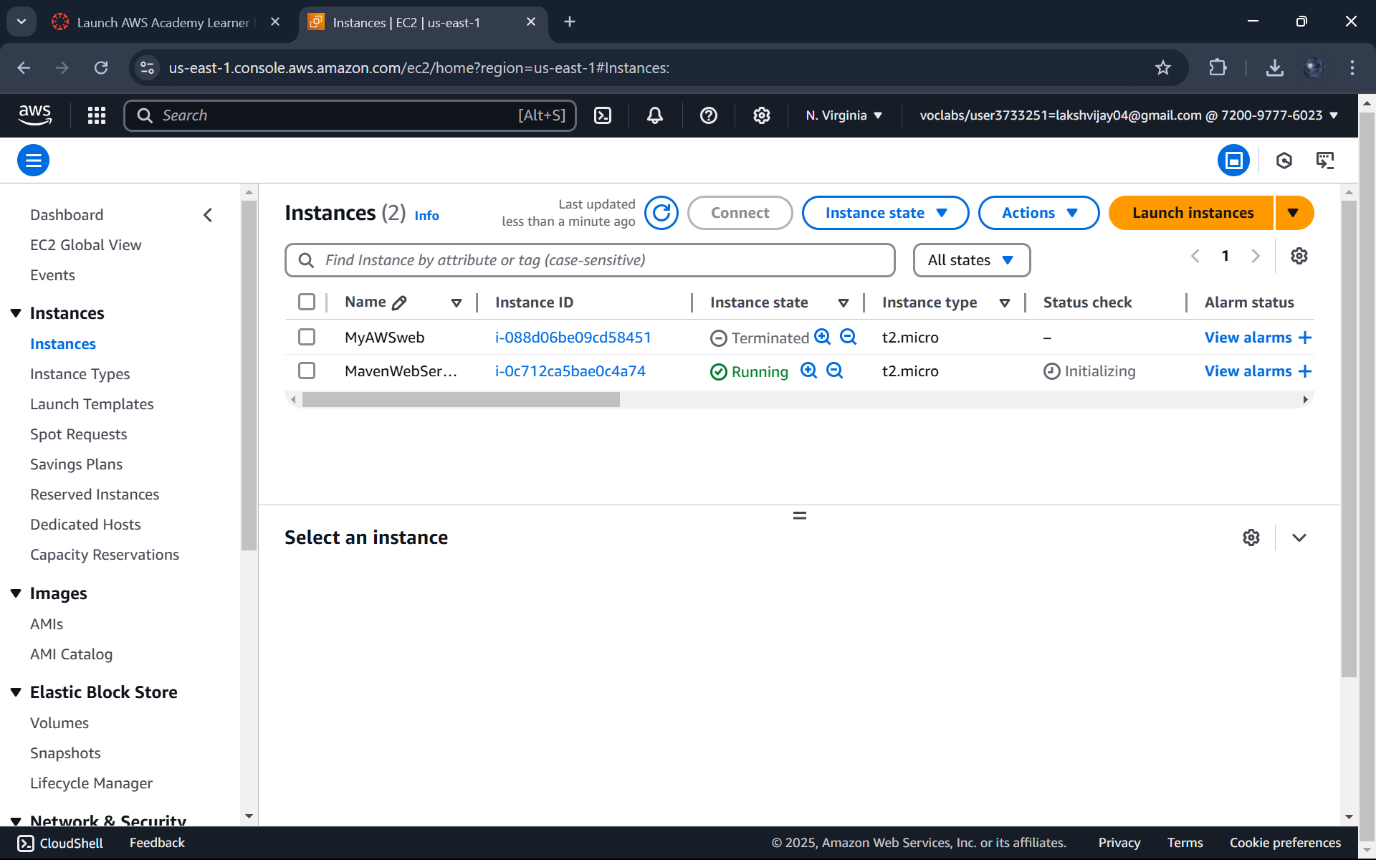
**Key pair:Create a key pair or use an existing one.Save the .pem file securely**

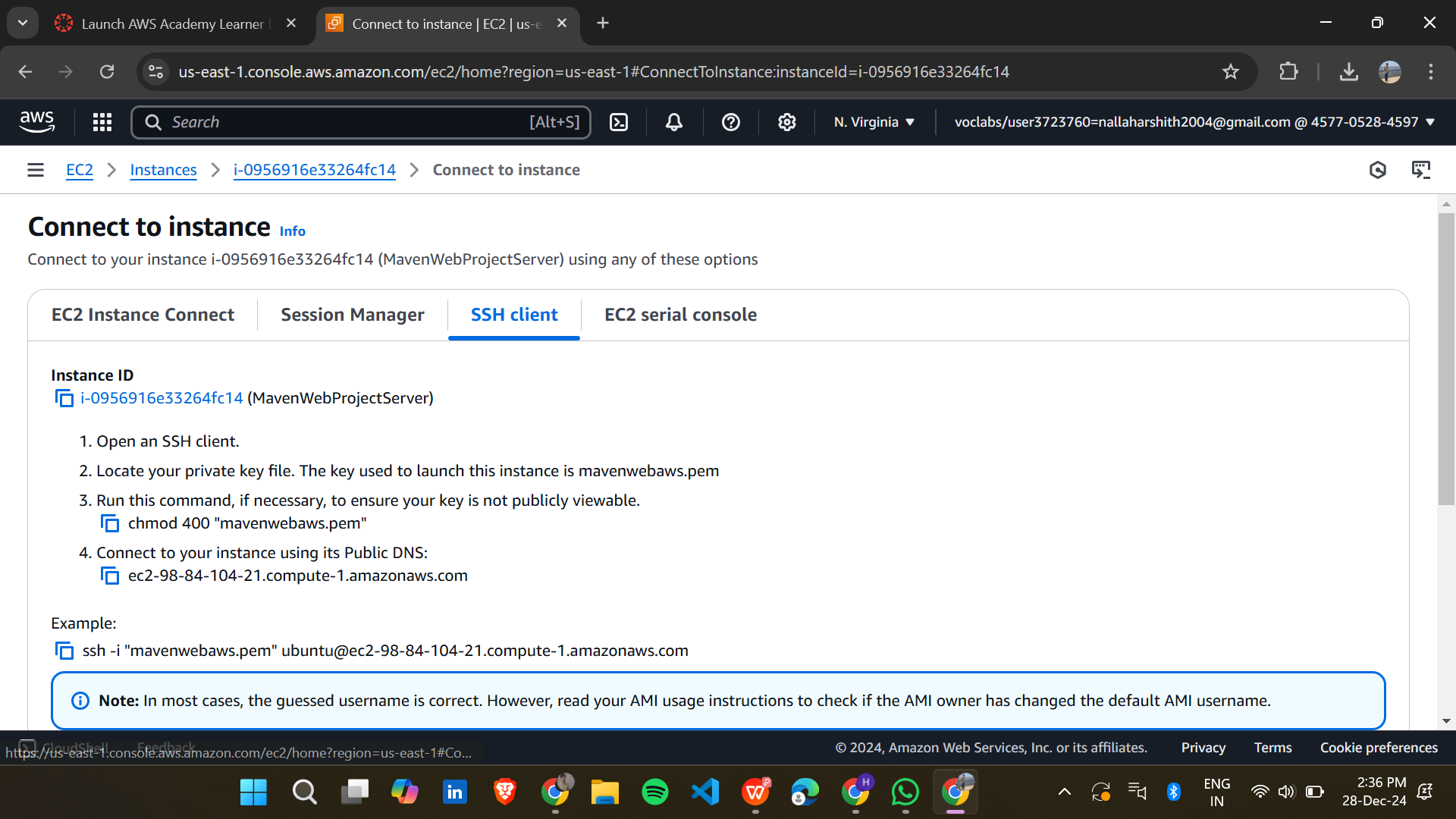
****

**Network settings:Enable Allow HTTP/HTTPS traffic**

**Instance is initiated.**

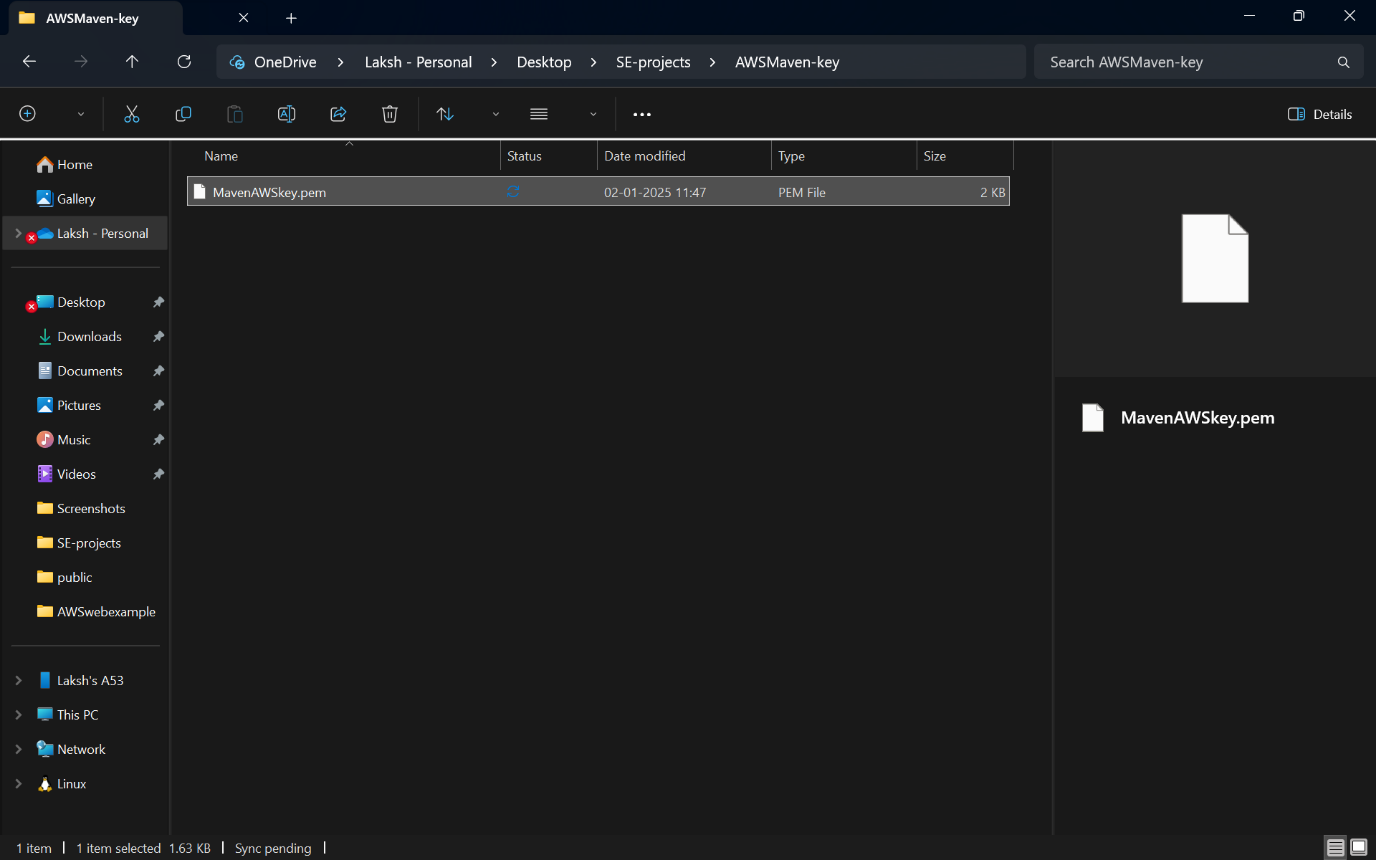
****

**Wait for the status change to running**

****

**Select your instance,click Connect ,and copy the SSH command under Example Heading.**

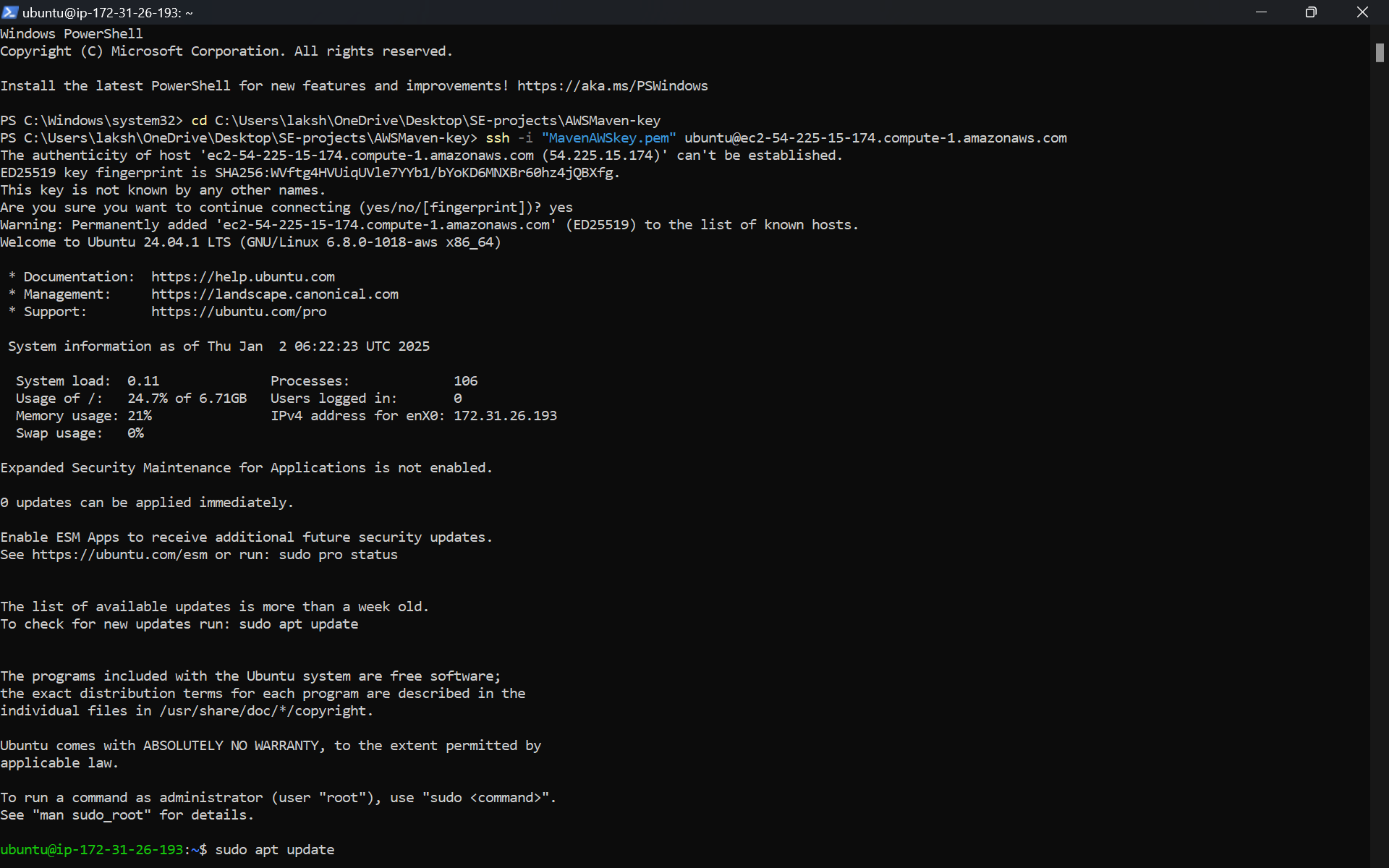
**Create a folder and copy the download .pem file in it.**

****

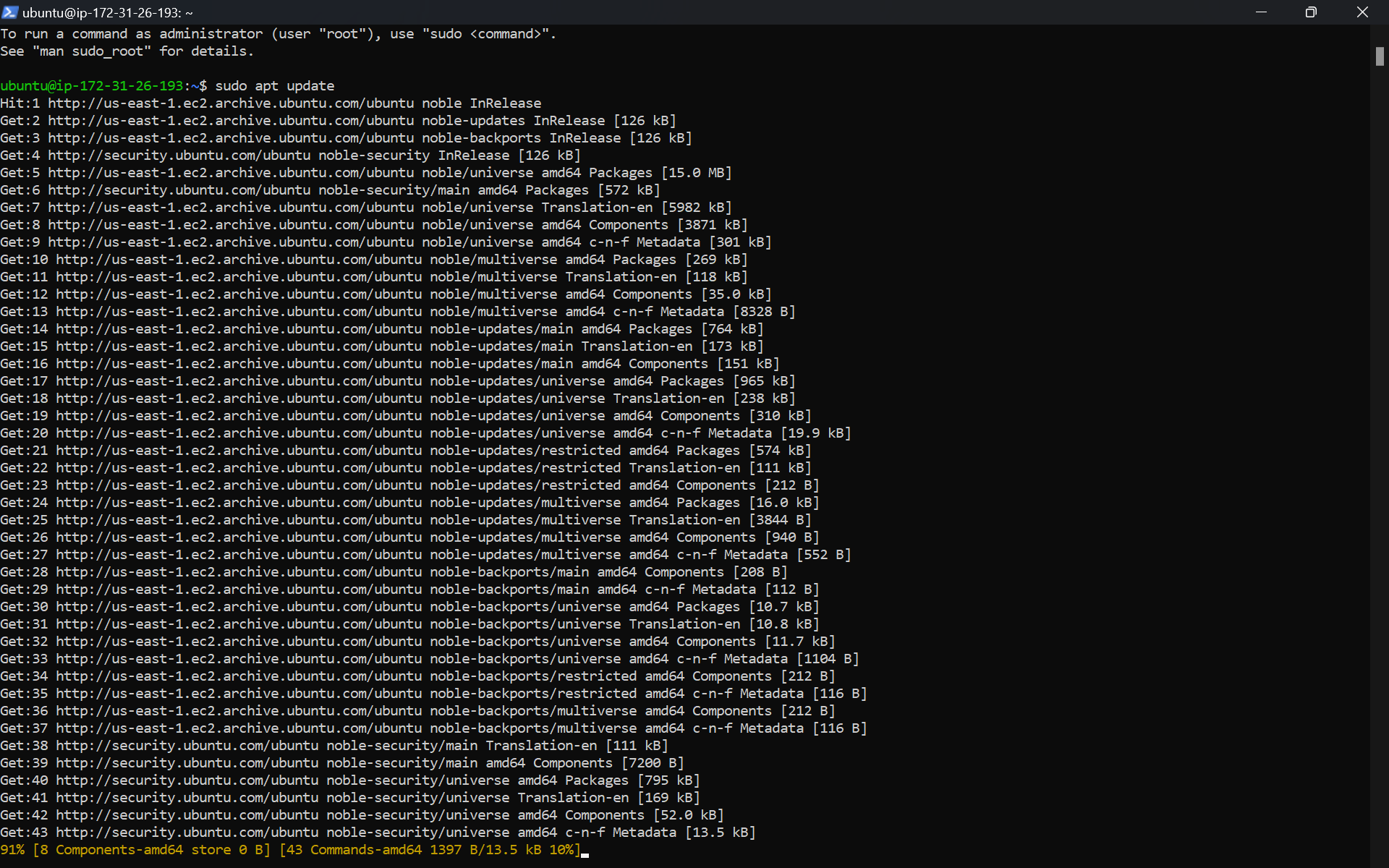
**Open on your computer->Run as administartor**

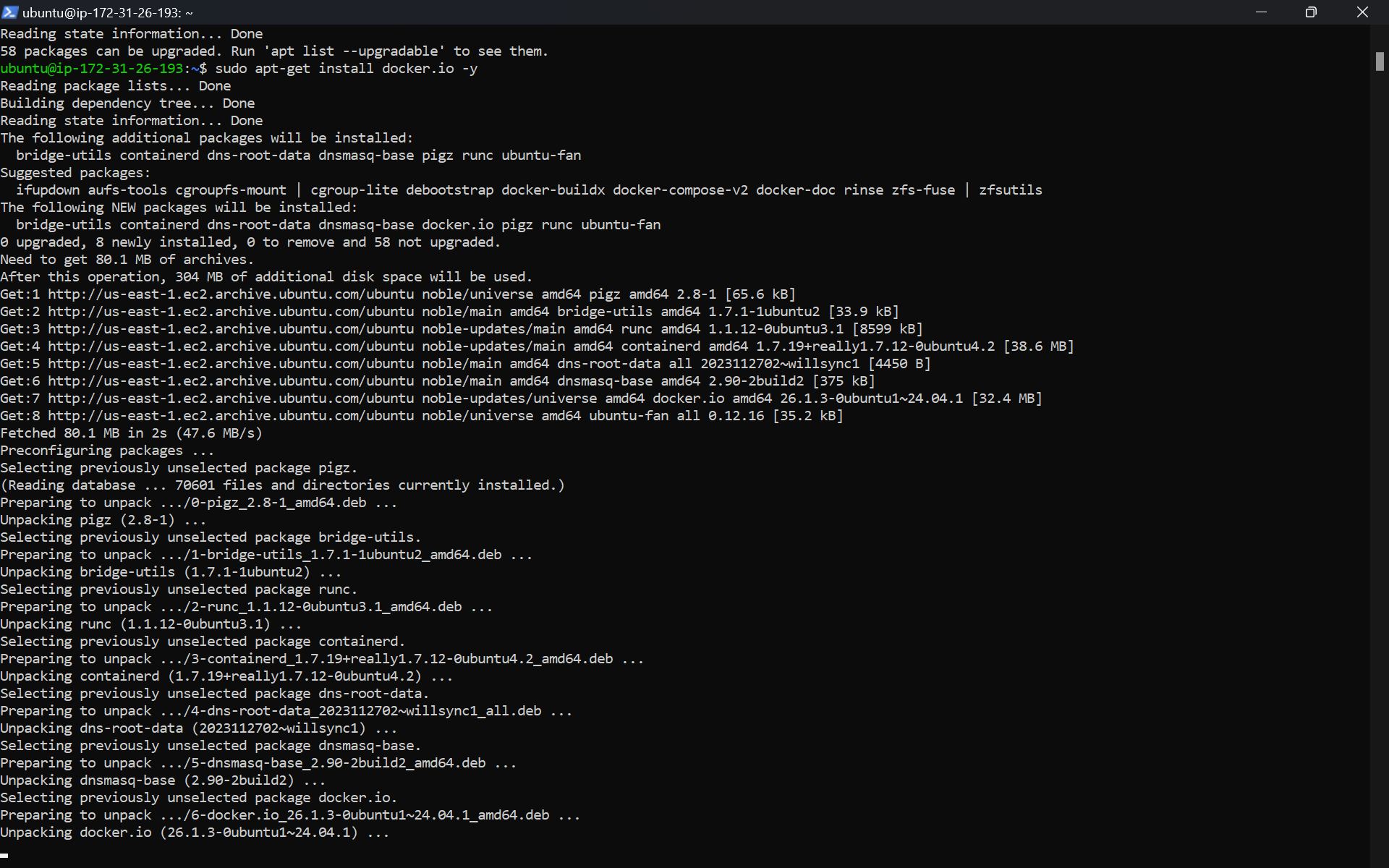
**Navigate to the folder where you have saved.pem file**

**Paste the SSH command and press enter.**

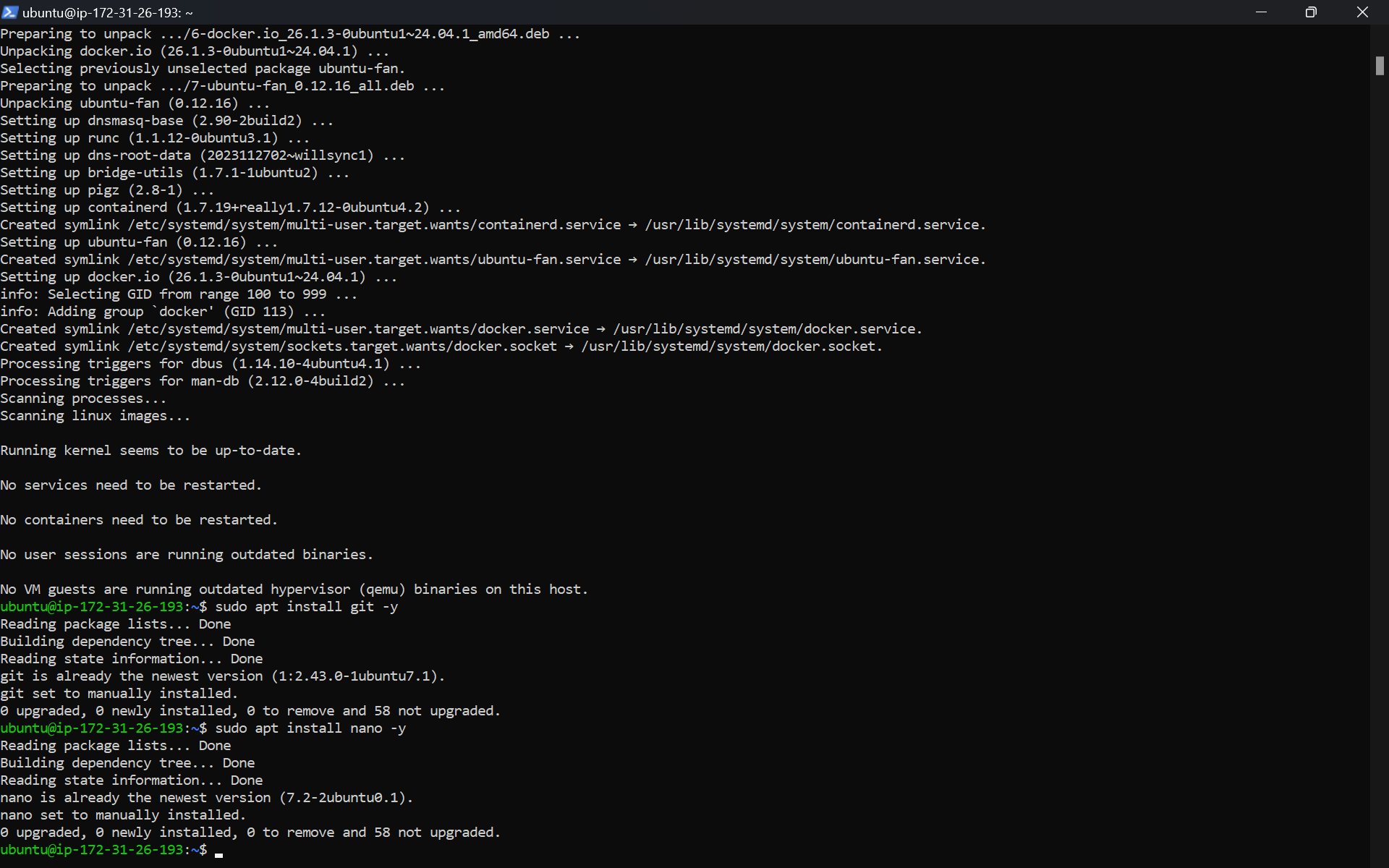
**If prompted,type “yes” to confirm the connection.**

**Update the system:sudo apt update**

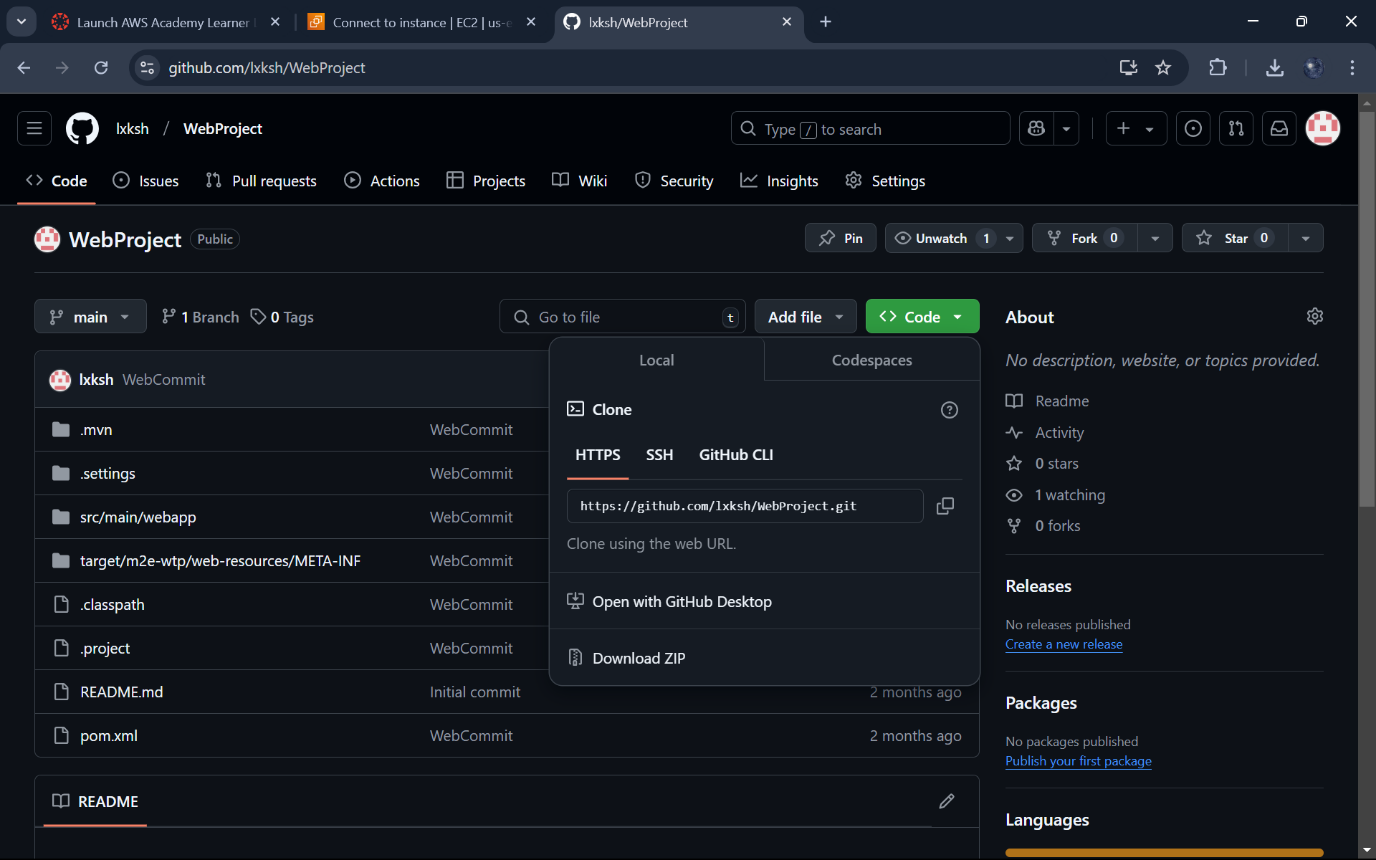
****

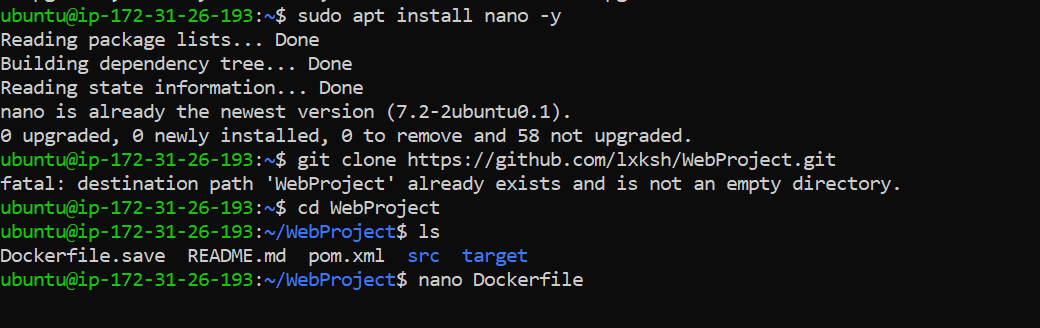
**Install Docker:sudo apt-get install docker.io -y**

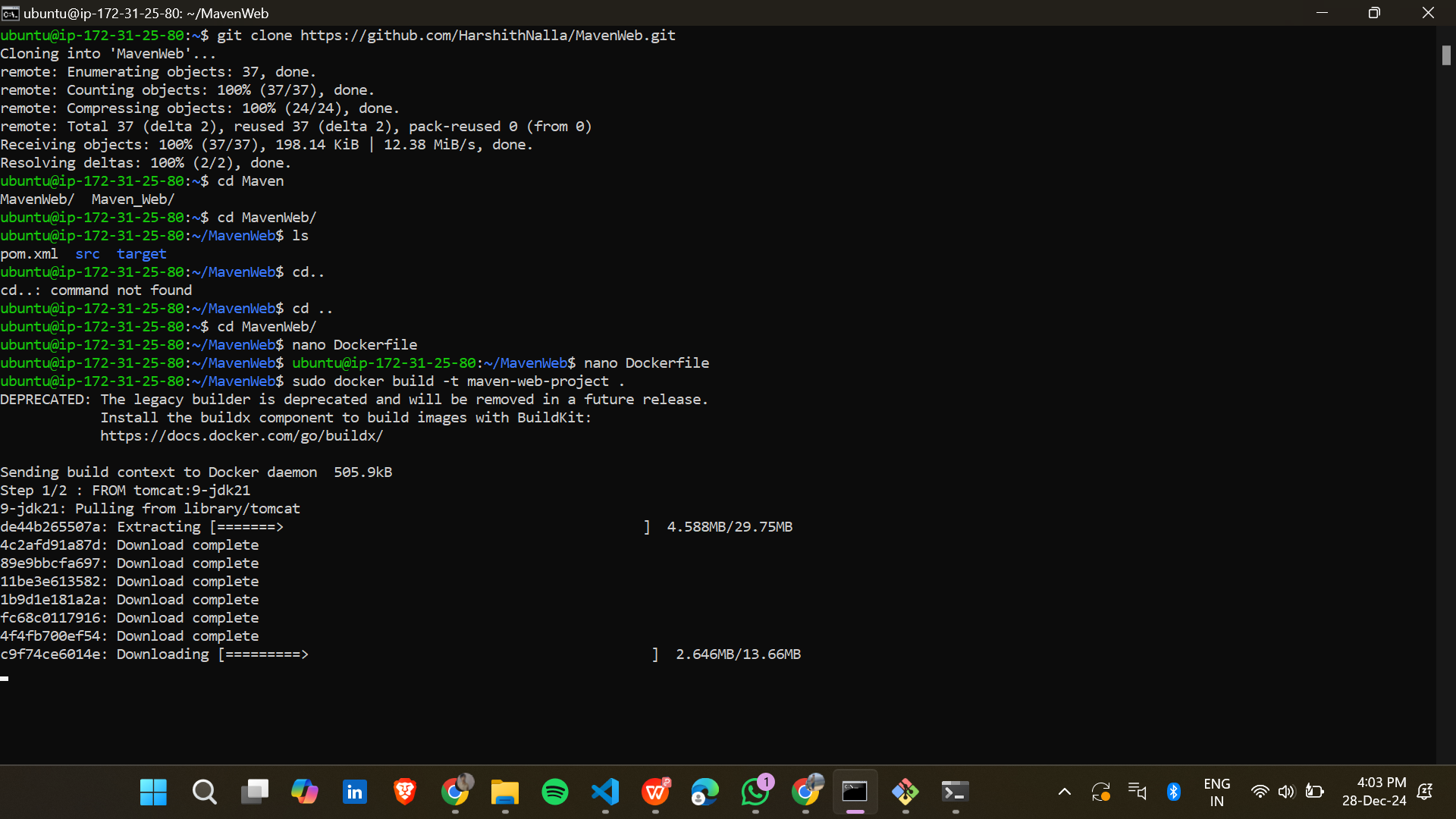
**Install git:sudo apt install git -y**

**Install Nano:sudo apt install nano -y**

**Go to your github repository and copy your URL.**

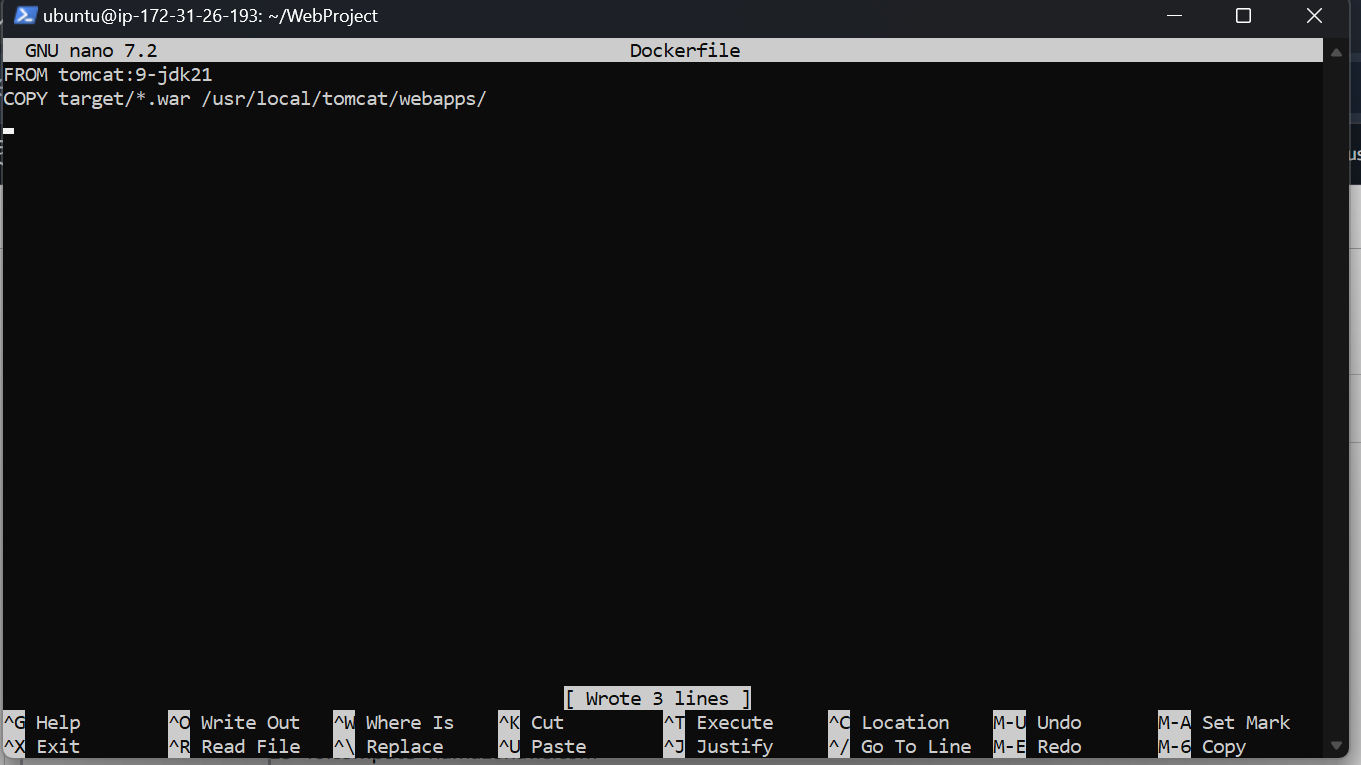
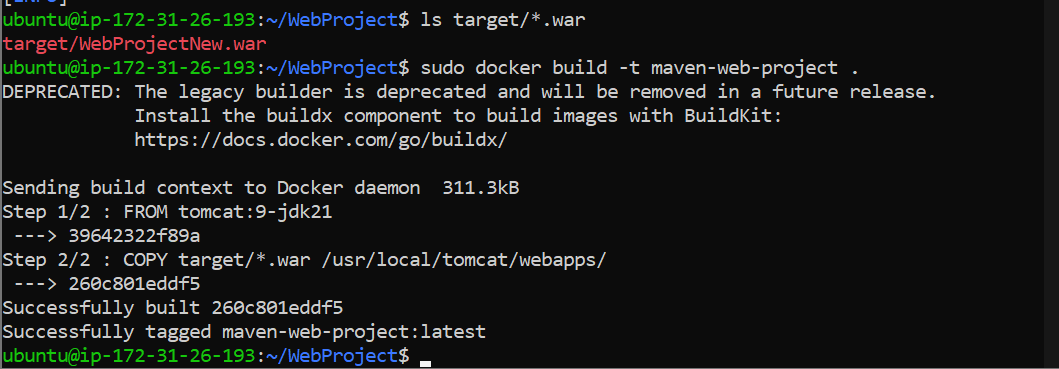
****

**Clone your repository**

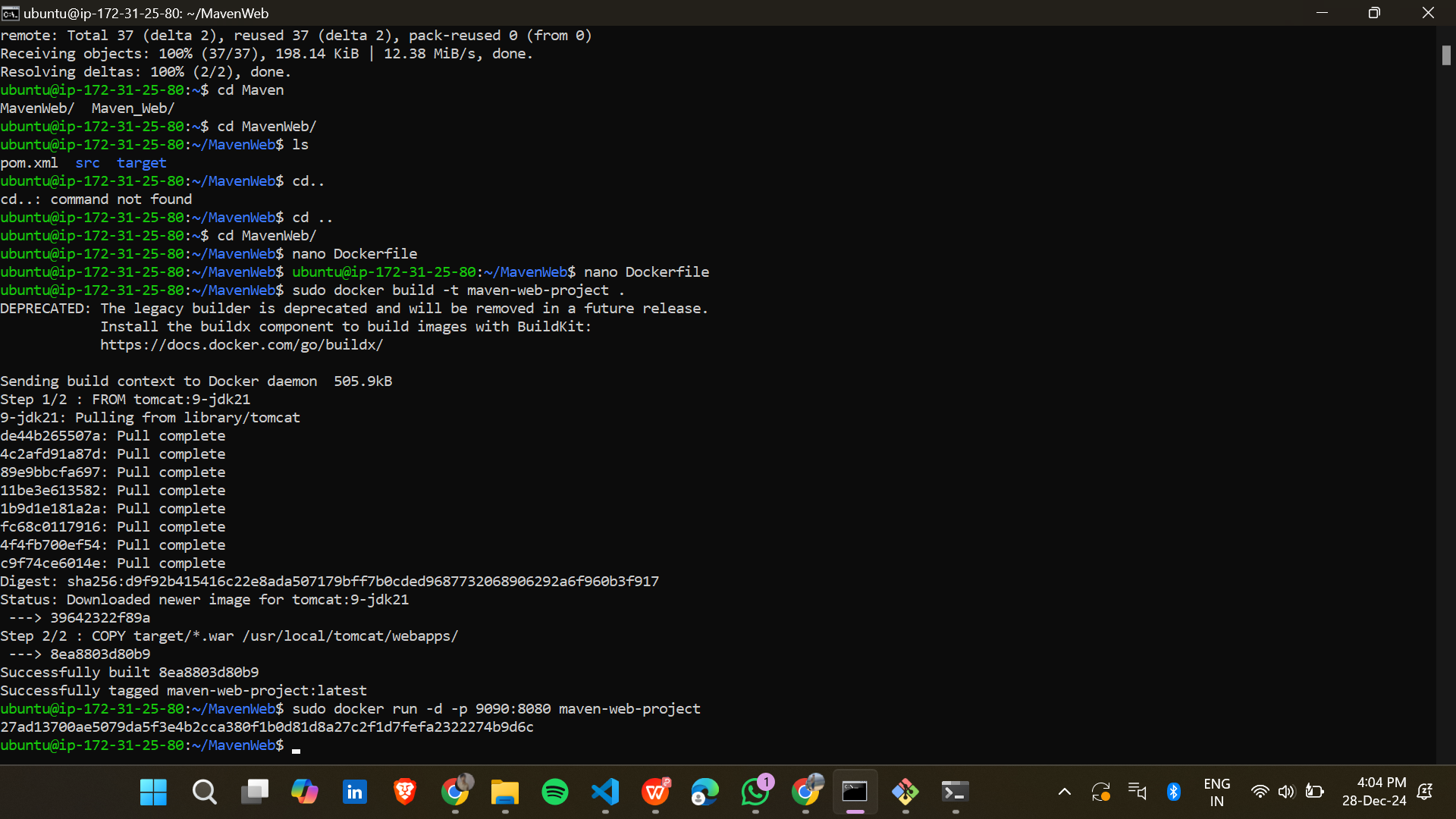
****

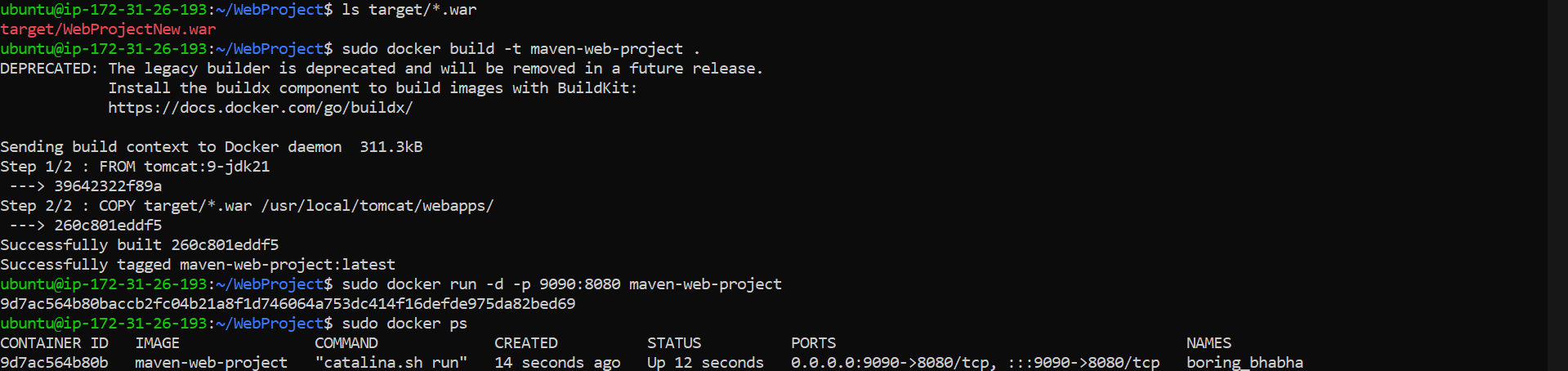
**Navigate to the project folder.**

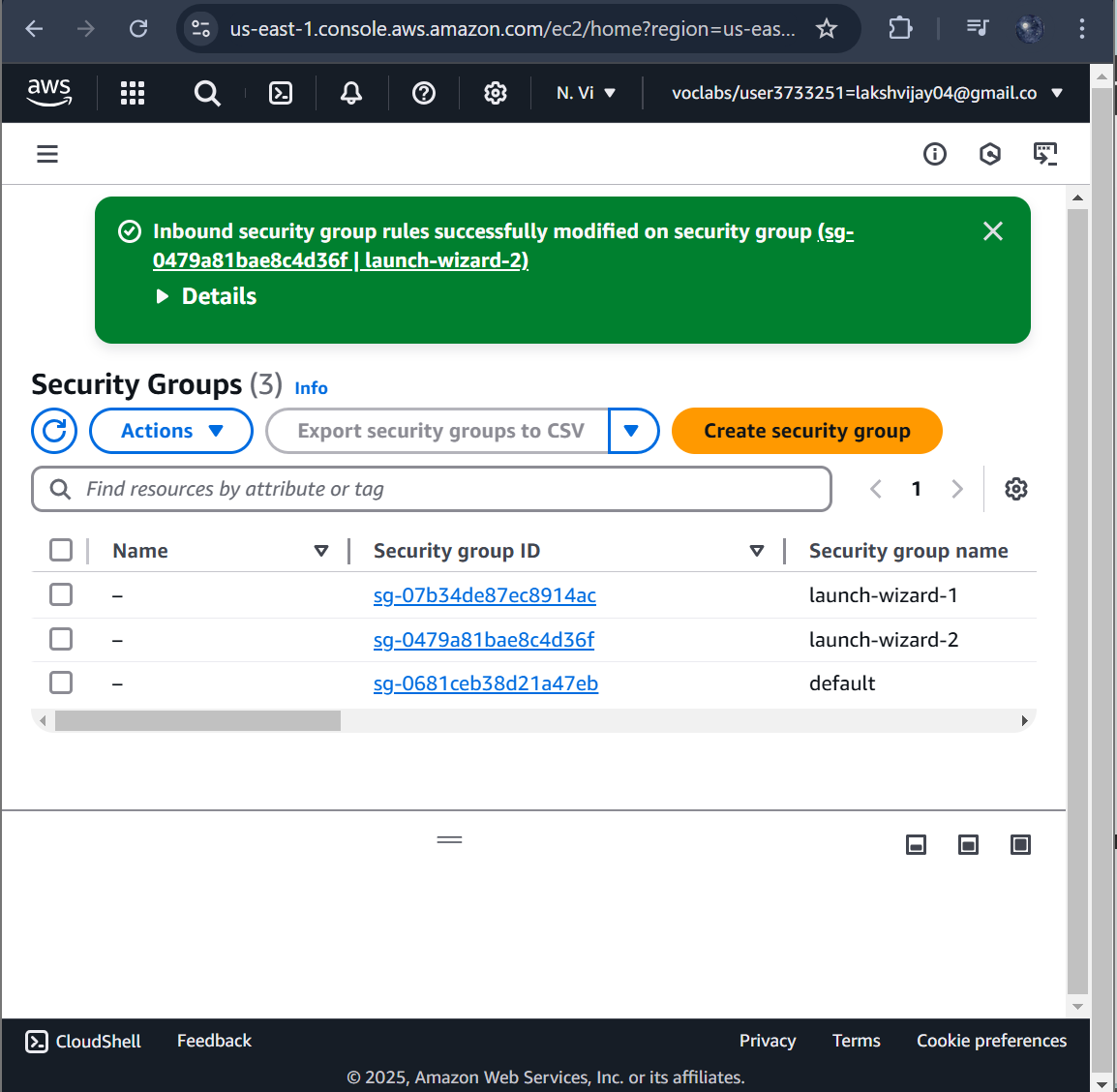
**Build docker image**

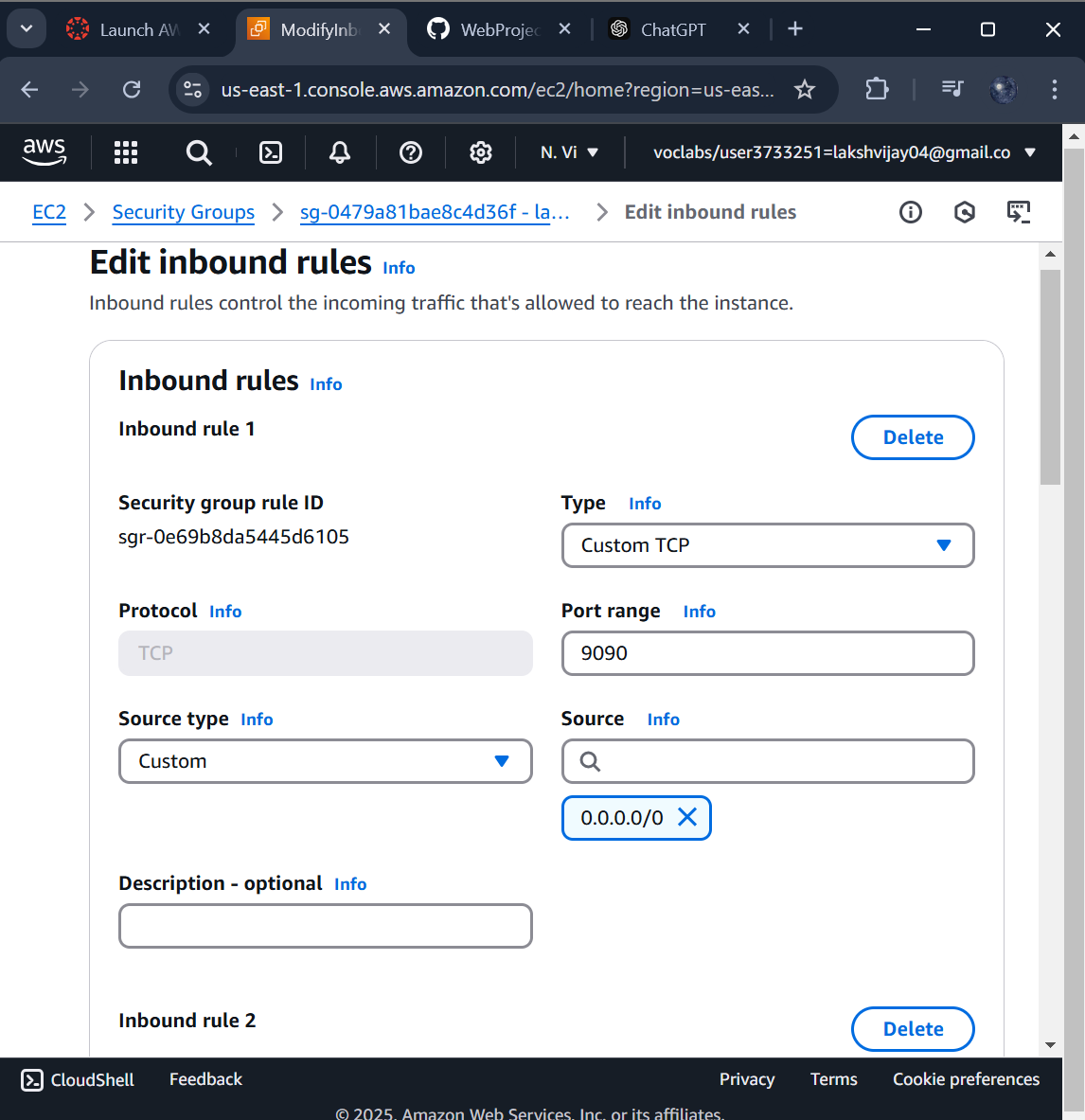
**Sudo docker build -t maven-web-project**

**Add the following content based on JDK version used during development.**

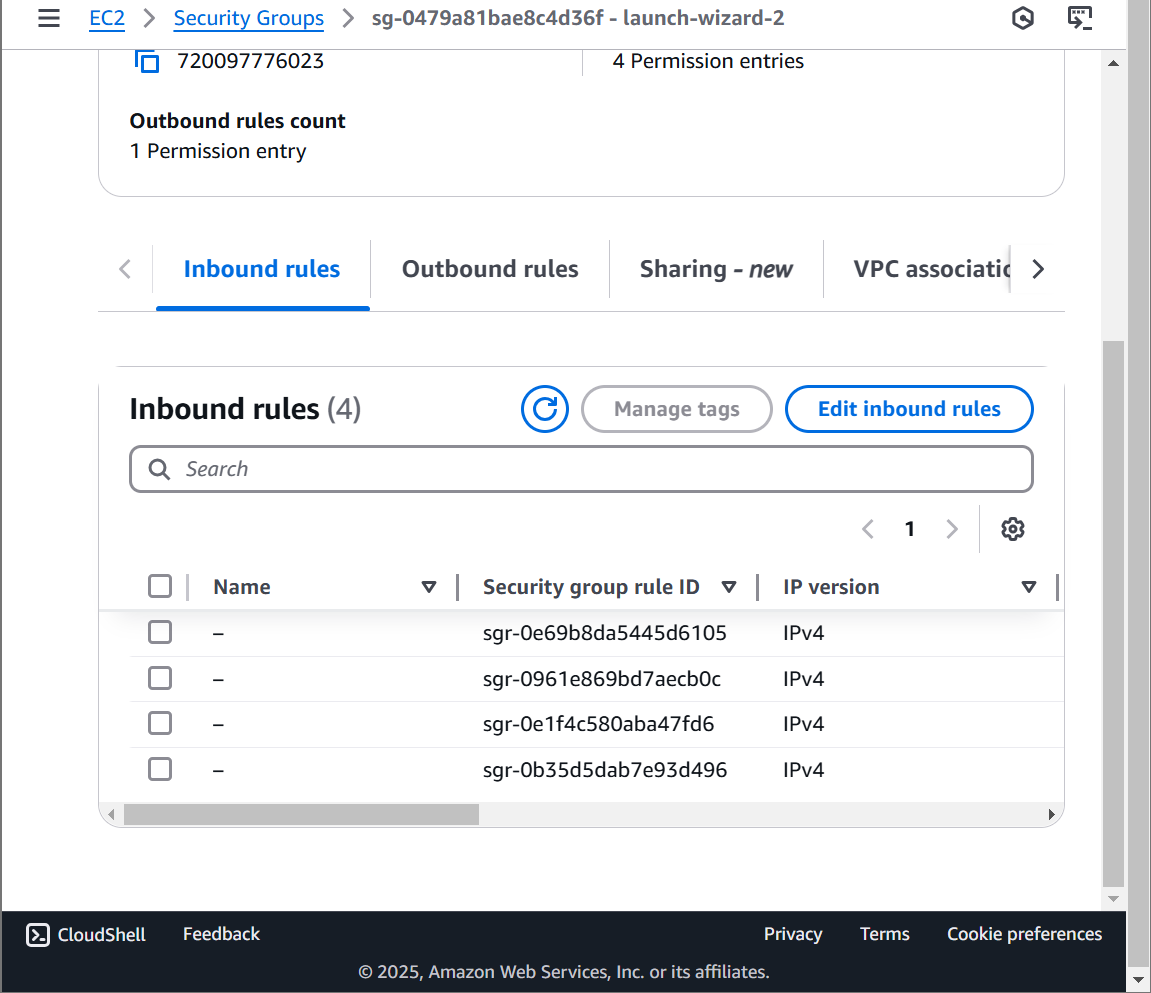
****

**Run your docker image. **

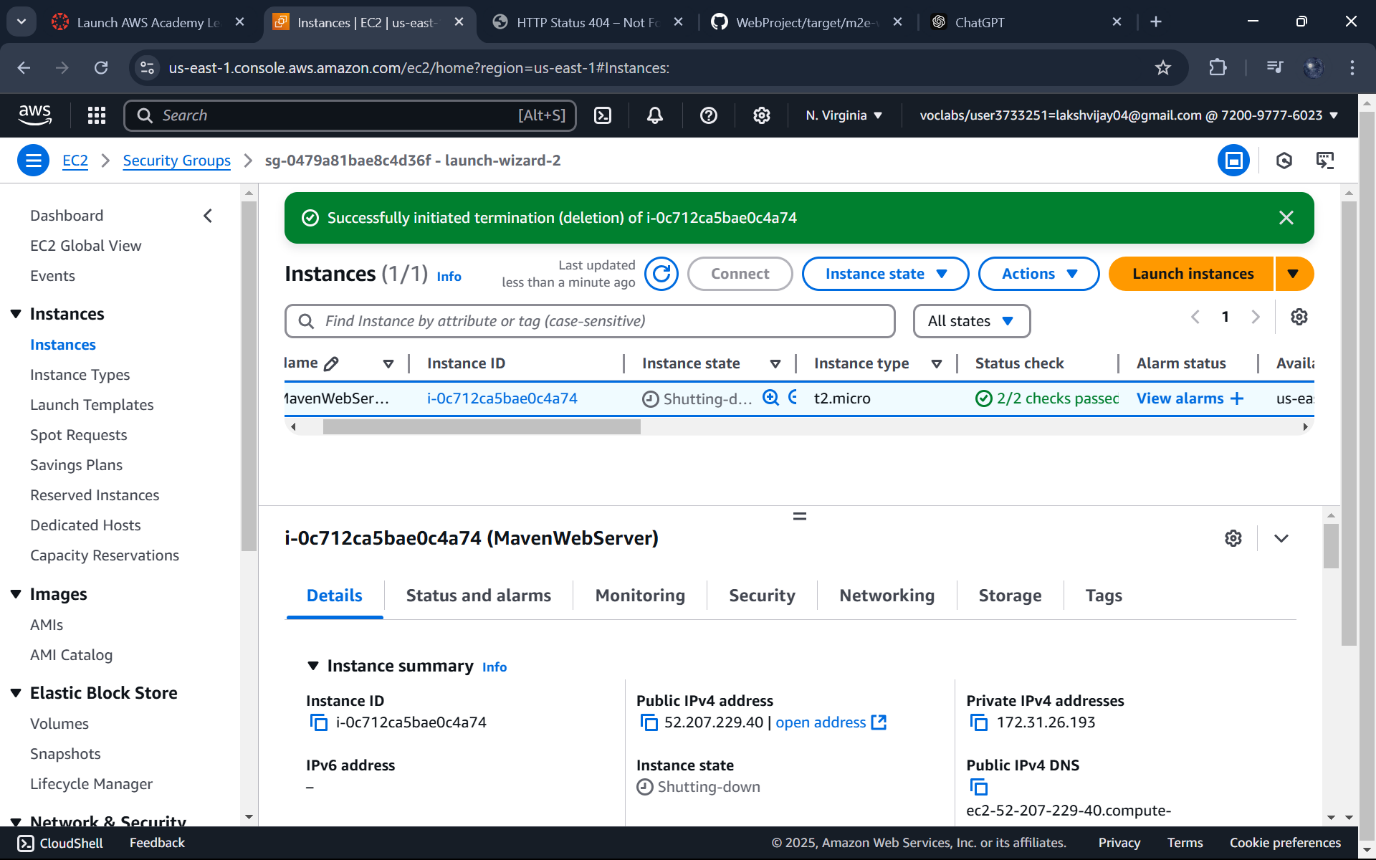
**In the AWS EC2 dashboard,go to security and click the Security group ID**

**Add an inbound rule. **

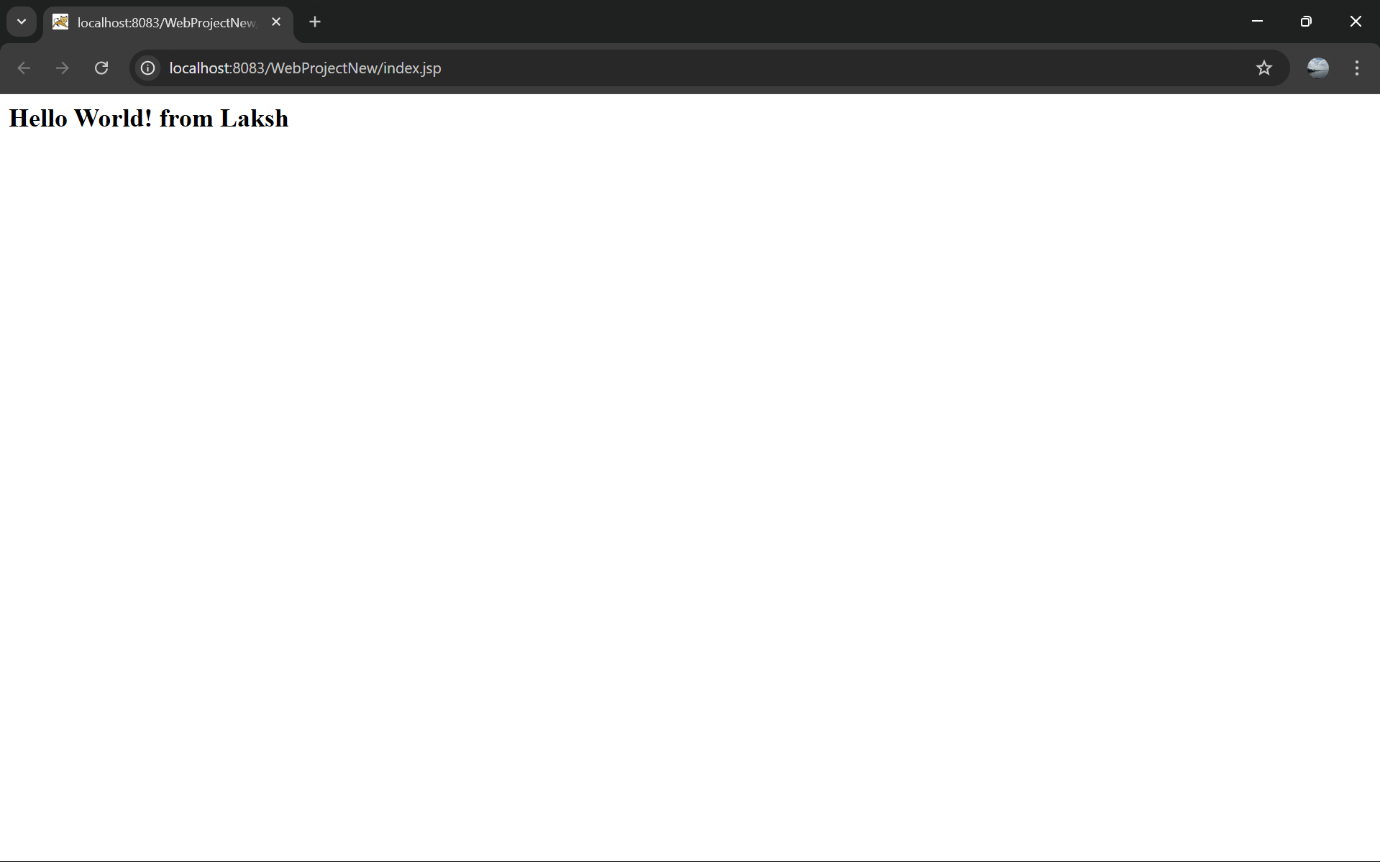
**The changes are successfully saved.**

****

**Copy the public IP address.**

****

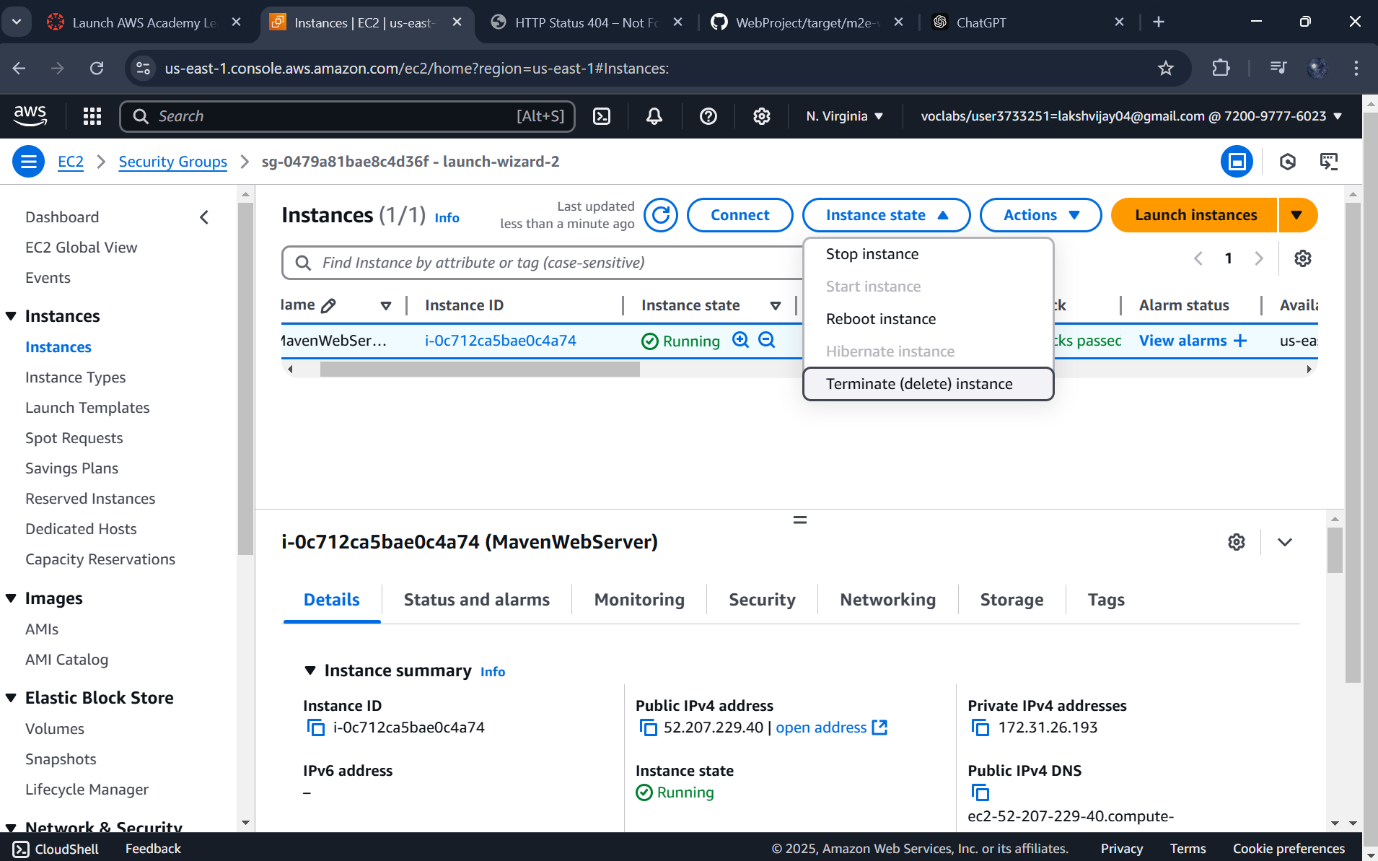
**Open a browser and navigate to the address along with project you will get output as this**

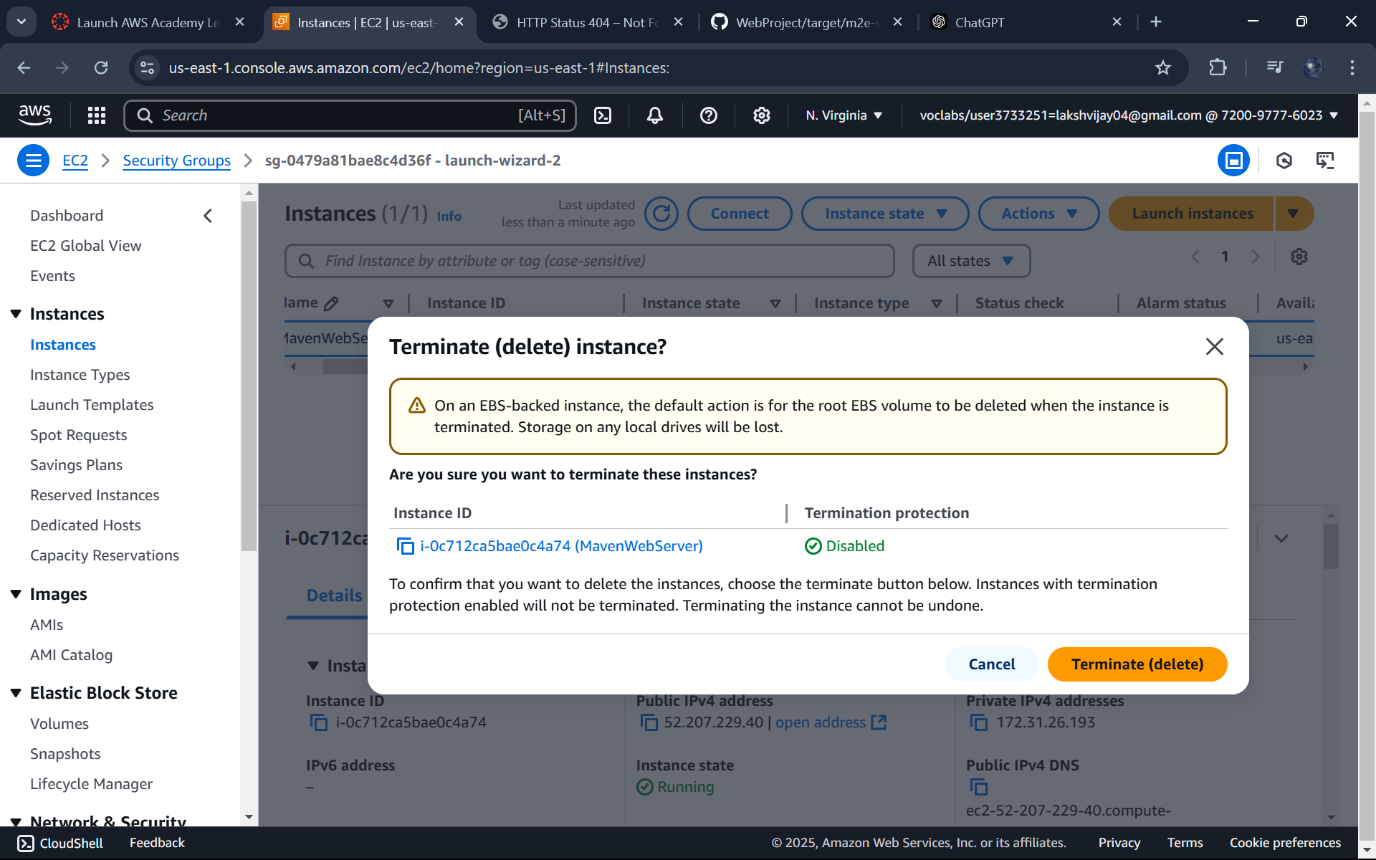
****

**Sudo docket ps to display all containers**

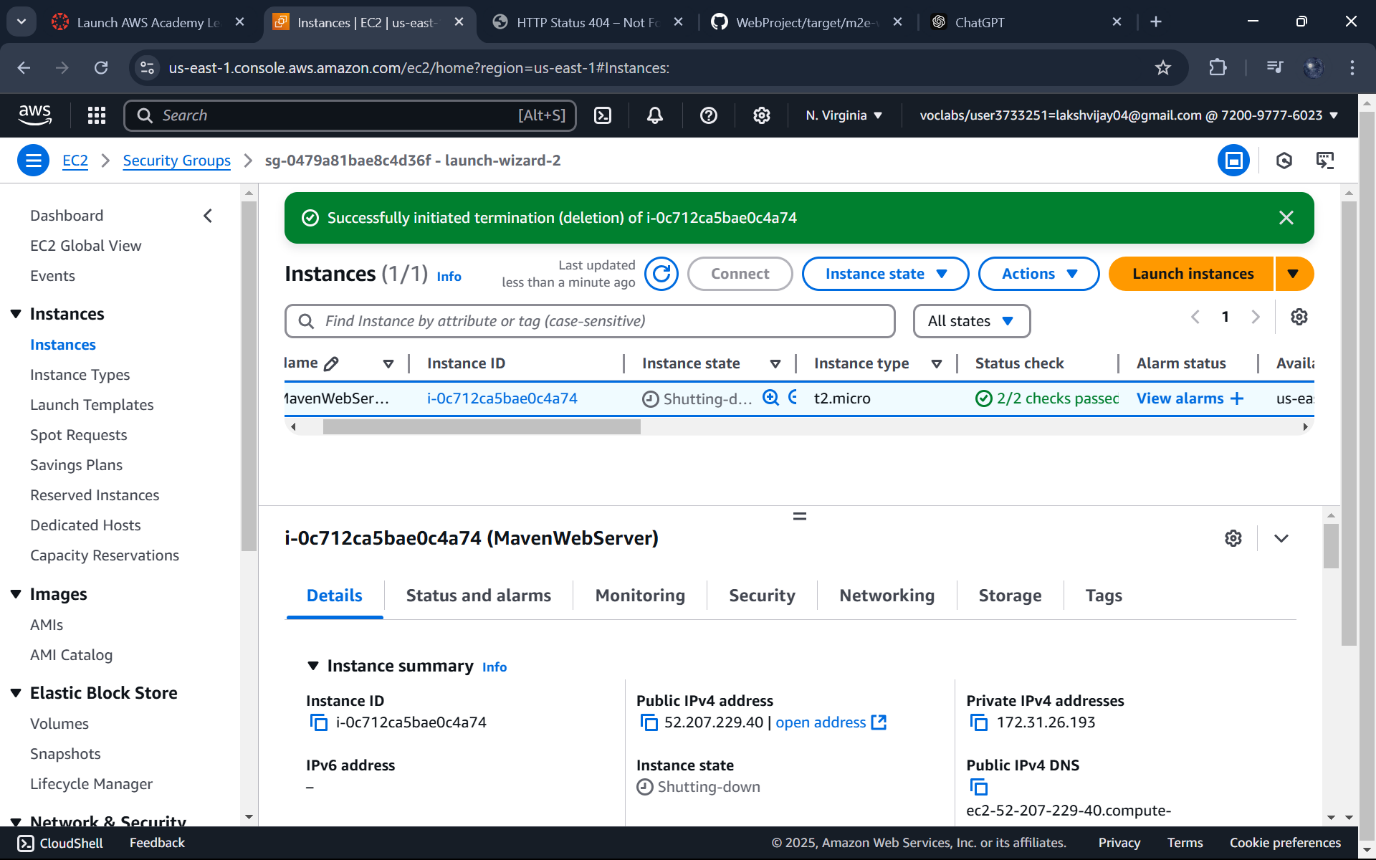
**Copy the container ID .Stop the docker container ID**

**In the EC2 dashboard go to instance state and select terminate instance**

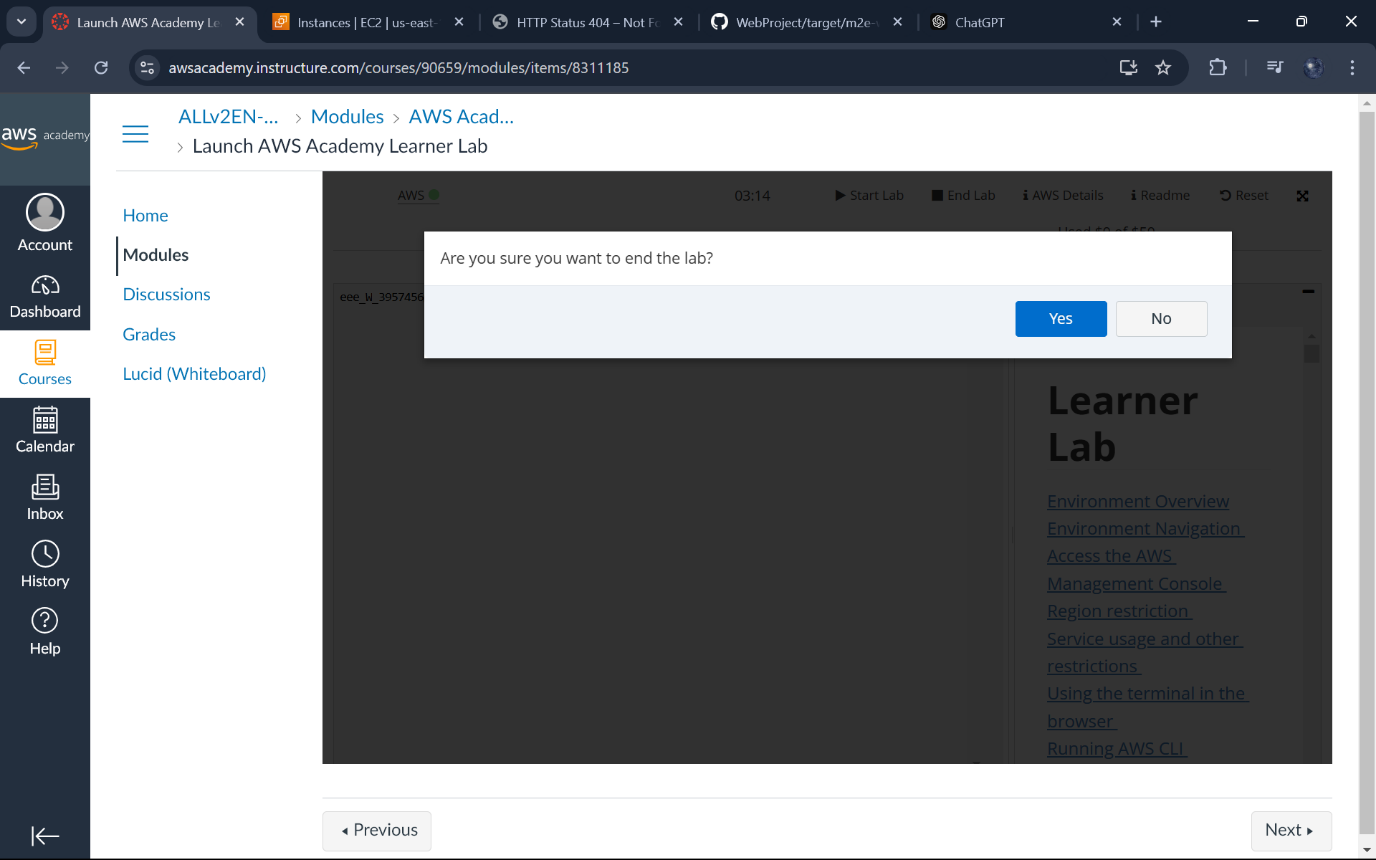
****

**Click on Terminate**

**The instance is terminated successfully.**

****

**End lab to avoid charges.**

**Click on Yes. **