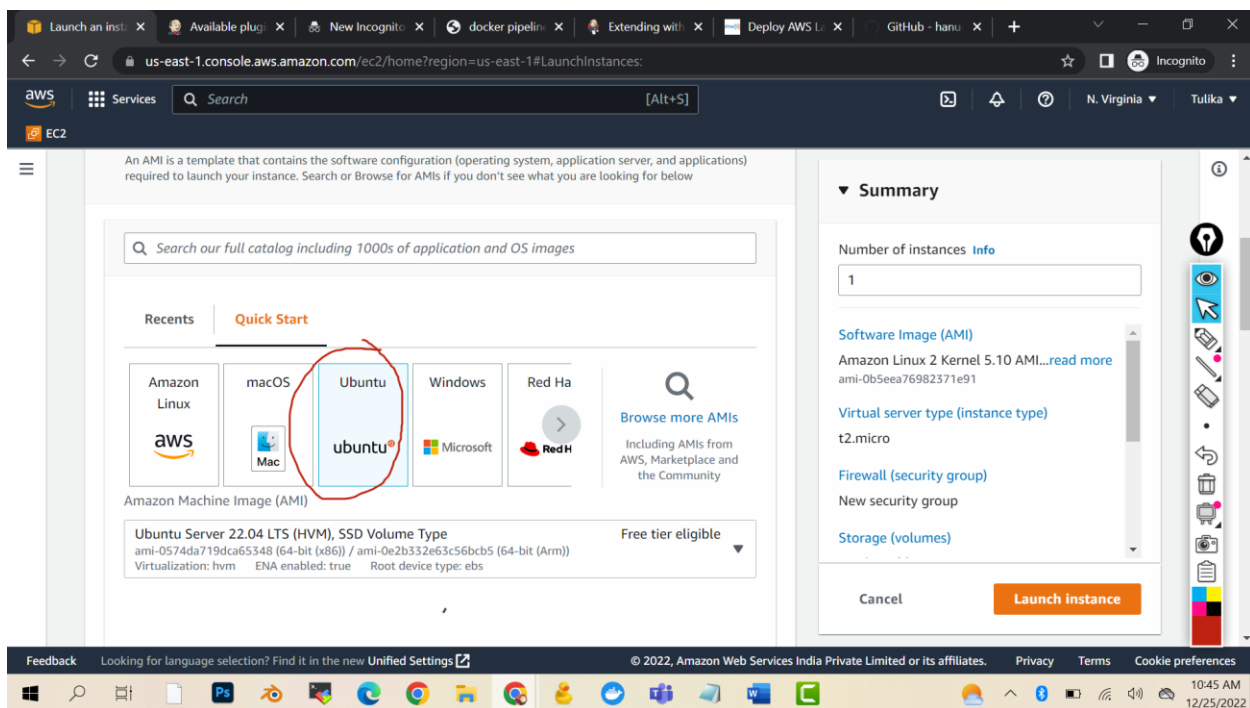
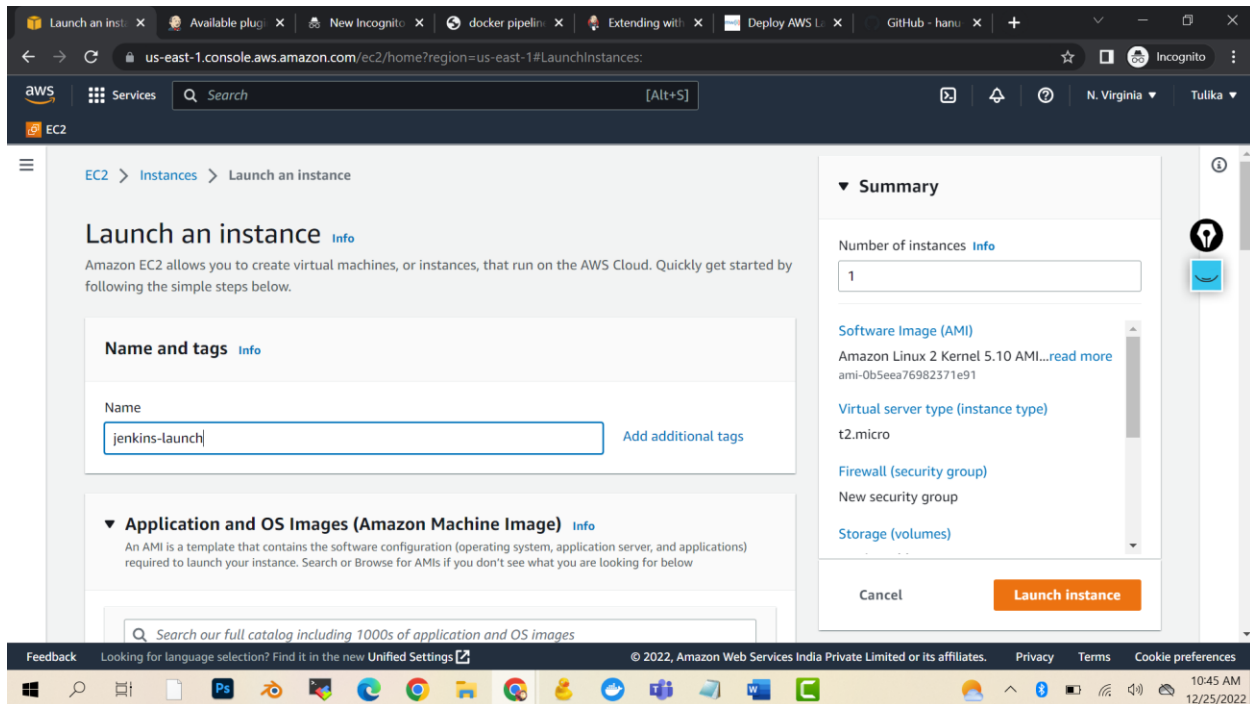
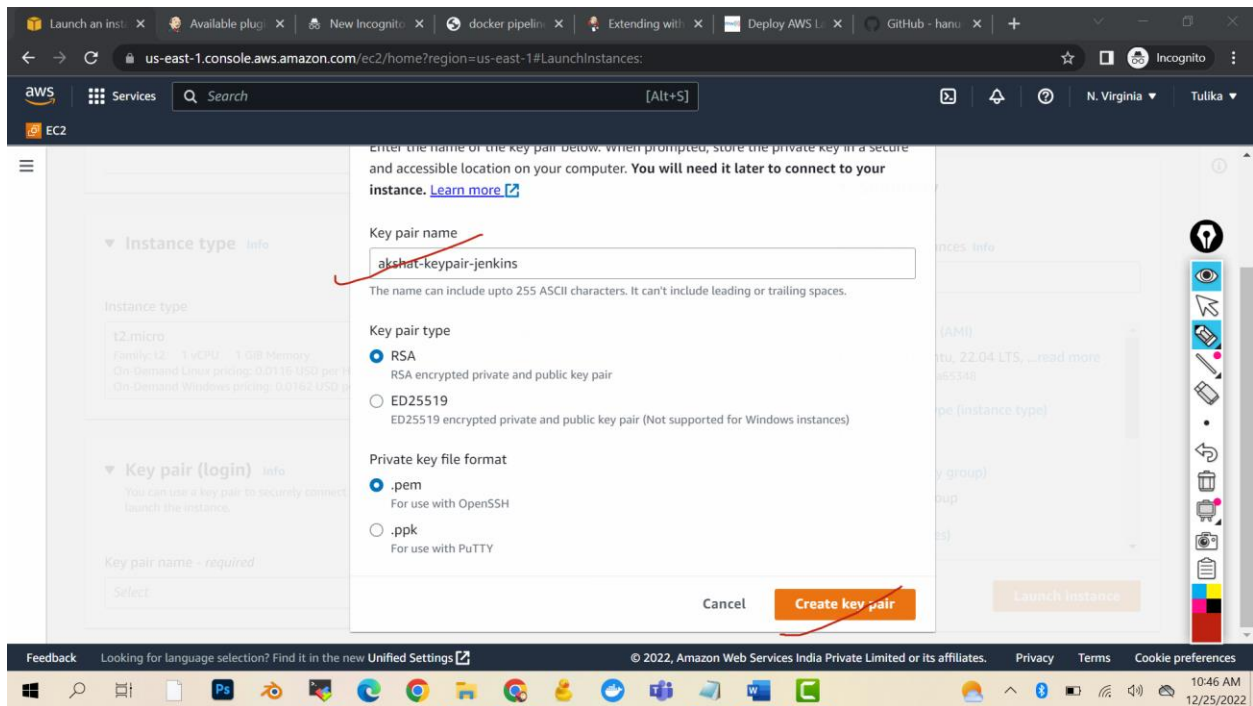
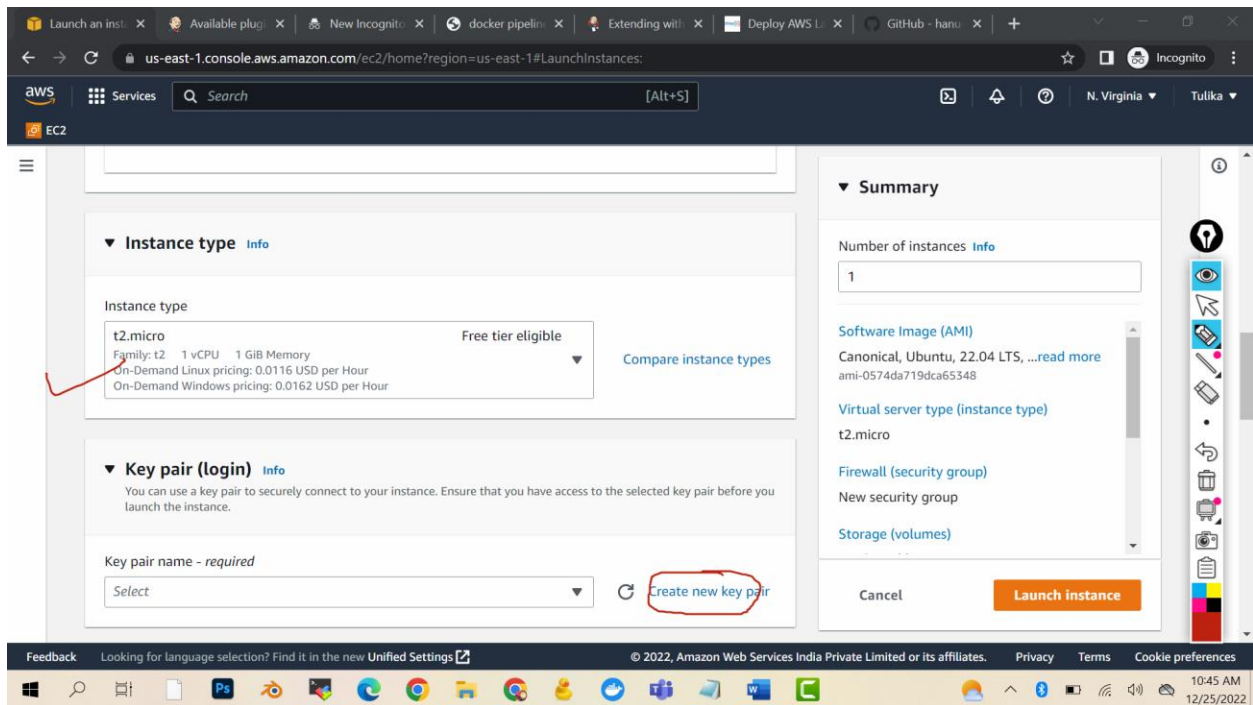


# Deploy Jenkins on ubuntu machine





The screenshot shows the AWS Management Console 'Launch wizard' for an EC2 instance. The 'Firewall (security groups)' section is highlighted with a red circle. It shows the option to 'Create security group' and lists the rules that will be created for the new security group 'launch-wizard-16':

- ☒ Allow SSH traffic from: Helps you connect to your instance. Source: Anywhere (0.0.0.0/0).
- ☒ Allow HTTP traffic from the internet: To set up an endpoint, for example when creating a web server.
- ☒ Allow HTTPS traffic from the internet: To set up an endpoint, for example when creating a web server.

A warning message states: 'Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.'

The 'Summary' panel on the right shows the following configuration:

- Number of instances: 1
- Software Image (AMI): Canonical, Ubuntu, 22.04 LTS, ...read more (ami-0574da719dca65348)
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group

The bottom of the screen shows the Windows taskbar with various application icons and the system clock displaying 10:46 AM on 12/25/2022.

The screenshot shows the AWS Management Console 'Configure storage' section for an EC2 instance. The 'Advanced details' link is highlighted with a red circle. It shows the configuration for the root volume:

- 1x 8 GiB gp2 Root volume (Not encrypted)

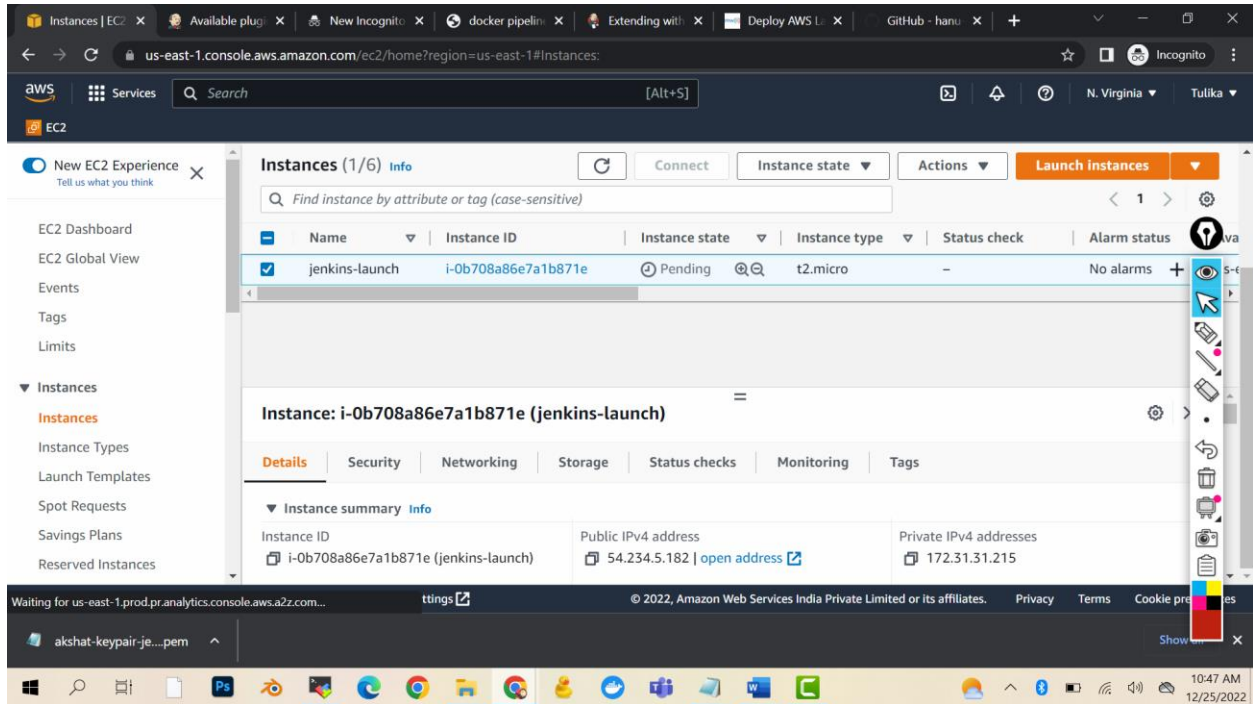
A message states: 'Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage'. There is an 'Add new volume' button.

The 'Summary' panel on the right shows the following configuration:

- Number of instances: 1
- Software Image (AMI): Canonical, Ubuntu, 22.04 LTS, ...read more (ami-0574da719dca65348)
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group

The bottom of the screen shows the Windows taskbar with various application icons and the system clock displaying 10:46 AM on 12/25/2022.

## Launch instance



## Wait for the Jenkins to launch

The screenshot shows the AWS Management Console for the 'us-east-1' region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and Instances. The main content area displays the 'Instances (1/1) Info' page. A table lists the instance 'jenkins-launch' with ID 'i-0b708a86e7a1b871e', state 'Running', type 't2.micro', and status 'Initializing'. Below the table, the 'Security' tab is selected, showing the 'Instance summary' with the instance ID and public/private IP addresses. The 'Security groups' section is highlighted with a red circle, showing 'sg-0f613972d62b5f732 (launch-wizard-16)'.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status
jenkins-launch	i-0b708a86e7a1b871e	Running	t2.micro	Initializing	No alarms

**Instance: i-0b708a86e7a1b871e (jenkins-launch)**

**Security**

**Instance summary**

Instance ID: i-0b708a86e7a1b871e (jenkins-launch)

Public IPv4 address: 54.234.5.182 | [open address](#)

Private IPv4 addresses: 172.31.31.215

**Security groups**

sg-0f613972d62b5f732 (launch-wizard-16)

The screenshot shows the same AWS Management Console page, but with the 'Inbound rules' tab selected. It displays the 'Instance: i-0b708a86e7a1b871e (jenkins-launch)' with its public IP address '54.234.5.182' and a timestamp 'Sun Dec 25 2022 10:47:24 GMT+0530 (India Standard Time)'. The 'Security groups' section is highlighted with a red circle, showing 'sg-0f613972d62b5f732 (launch-wizard-16)'.

**Instance: i-0b708a86e7a1b871e (jenkins-launch)**

Public IPv4 address: 54.234.5.182

Private IPv4 addresses: 172.31.31.215

**Security groups**

sg-0f613972d62b5f732 (launch-wizard-16)

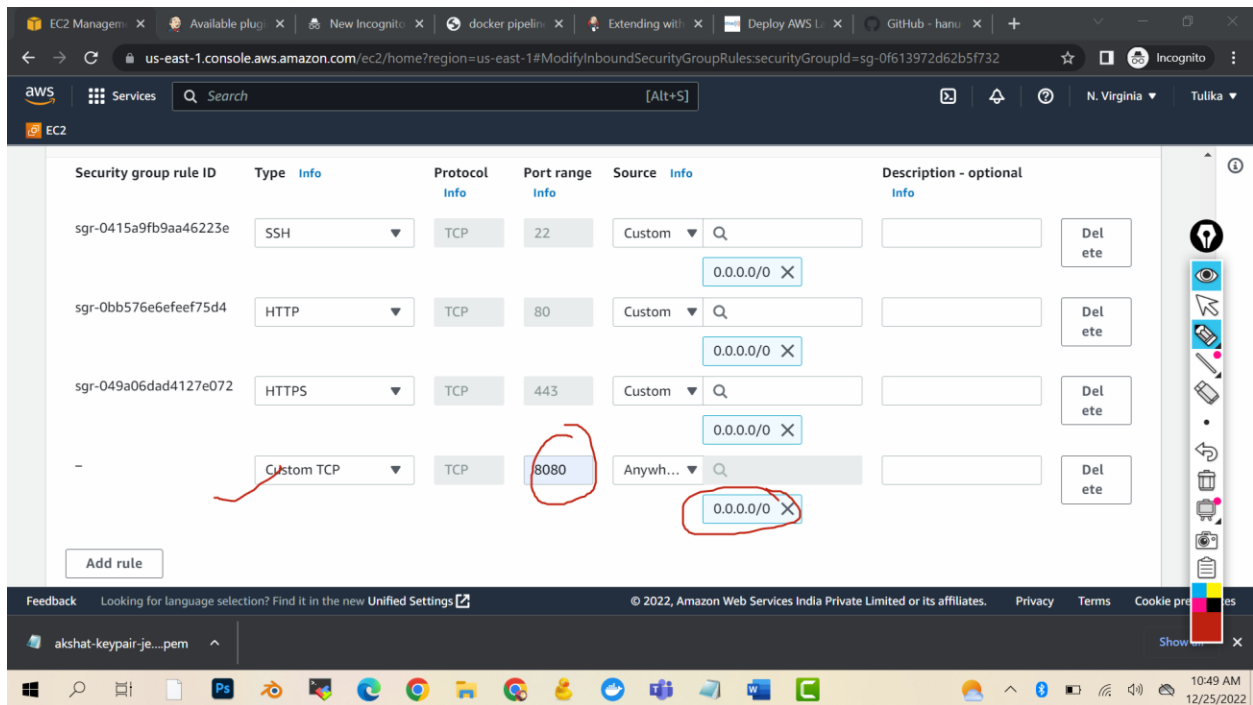
**Inbound rules**

The screenshot shows the AWS Management Console for a security group in the us-east-1 region. The 'Inbound rules' tab is selected, showing a list of three inbound rules. The 'Edit inbound rules' button is circled in red.

Name	Security group rule...	IP version	Type	Protocol
-	sgr-0415a9fb9aa46223e	IPv4	SSH	TCP
-	sgr-0bb576e6efef75d4	IPv4	HTTP	TCP

The screenshot shows the 'Modify inbound security group rules' page in the AWS Management Console. The 'Add rule' button is circled in red.

Security group rule ID	Type	Protocol	Port range	Source	Description - optional
sgr-0415a9fb9aa46223e	SSH	TCP	22	Custom	
sgr-0bb576e6efef75d4	HTTP	TCP	80	Custom	
sgr-049a06dad4127e072	HTTPS	TCP	443	Custom	



Save

Login in the machine

# Command for installing Java 11

```
sudo apt-get update
```

```
sudo apt-get install default-jdk -y
```

# Command for installing maven

```
sudo apt-get install maven -y
```

# Script for Jenkins installation

#Add Repository key to the system

```
wget -q -O - https://pkg.jenkins.io/debian/jenkins.io.key | sudo apt-key add -
```



```
# Append debian package repo address to the system
```

```
echo deb http://pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list
```

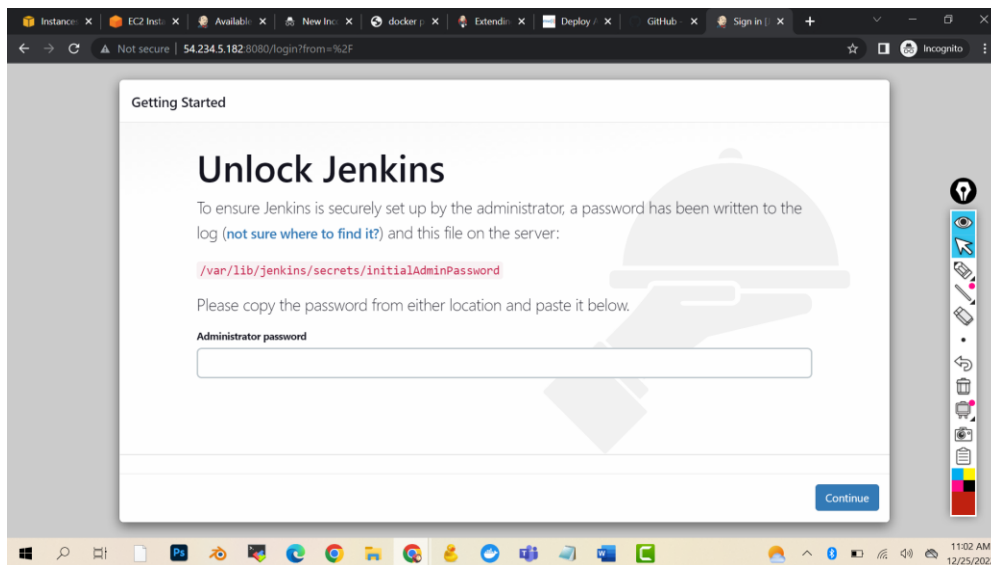
```
sudo apt-get update
```

```
# Install Jenkins
```

```
sudo apt-get install jenkins -y
```

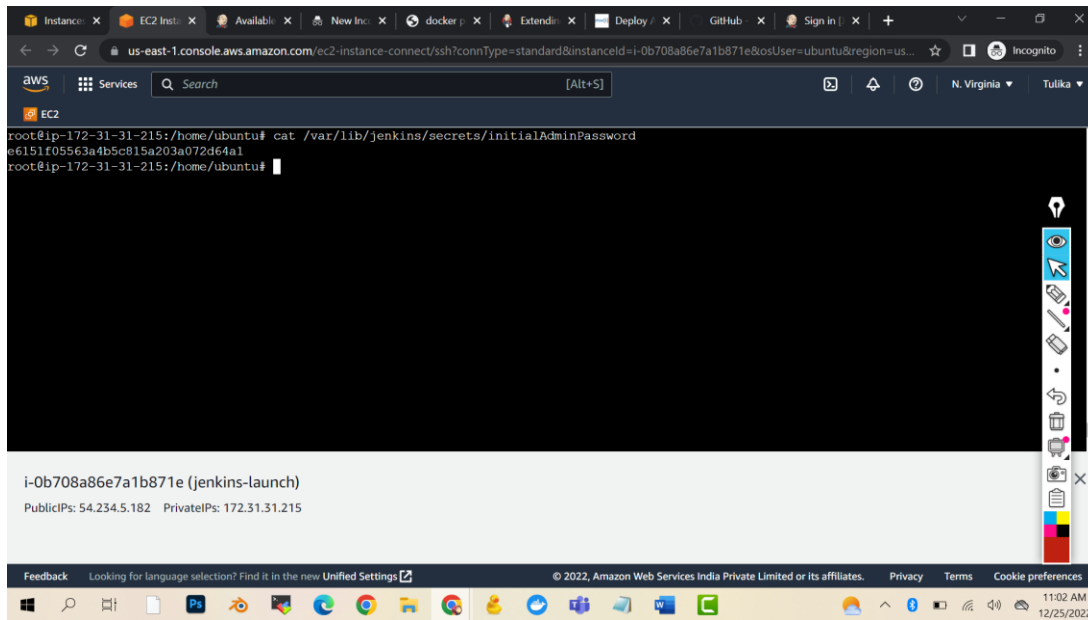
```
service jenkins start
```

Now copy public ip and paste it in the browser

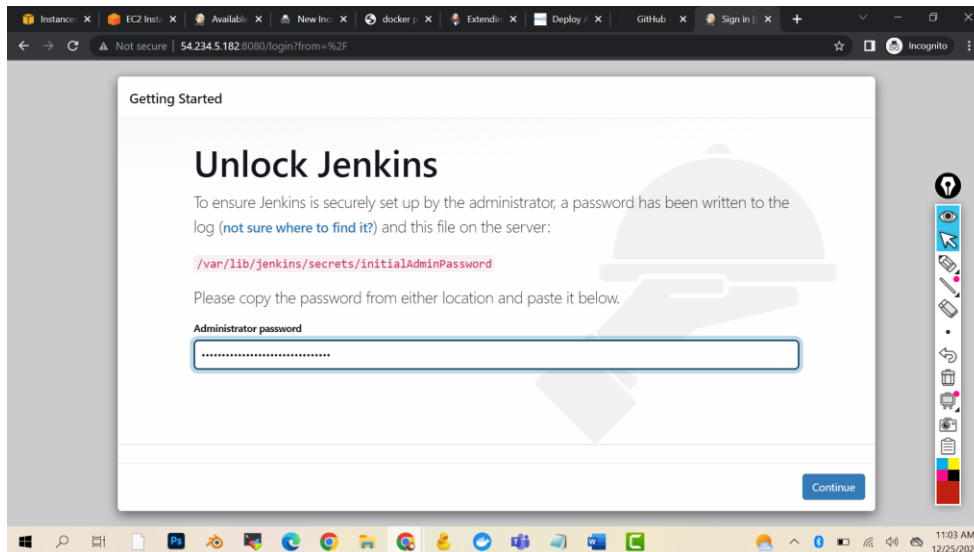


```
cat /var/lib/jenkins/secrets/initialAdminPassword
```





Copy the pass and paste in the browser



Continue

Install suggested plugins

Username: admin

Pass: admin

Akshat Gupta

Full name: Akshat

Email: [akshu20791@gmail.com](mailto:akshu20791@gmail.com)

Save and finish

Start using Jenkins