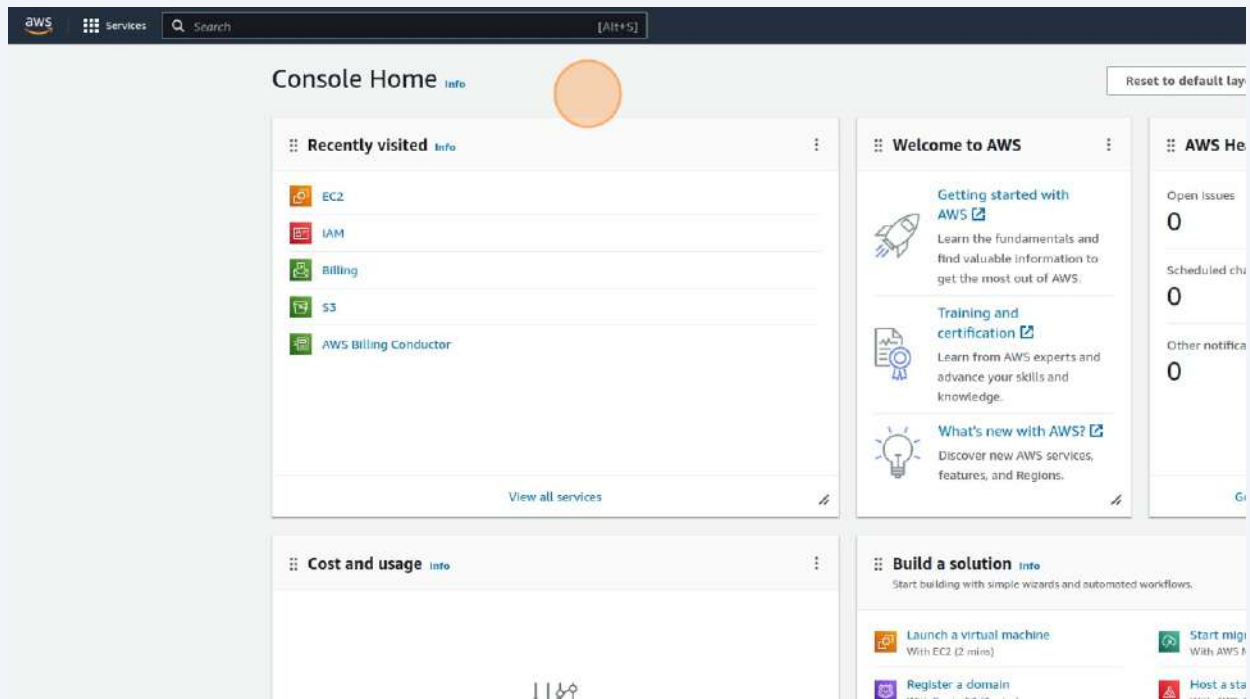
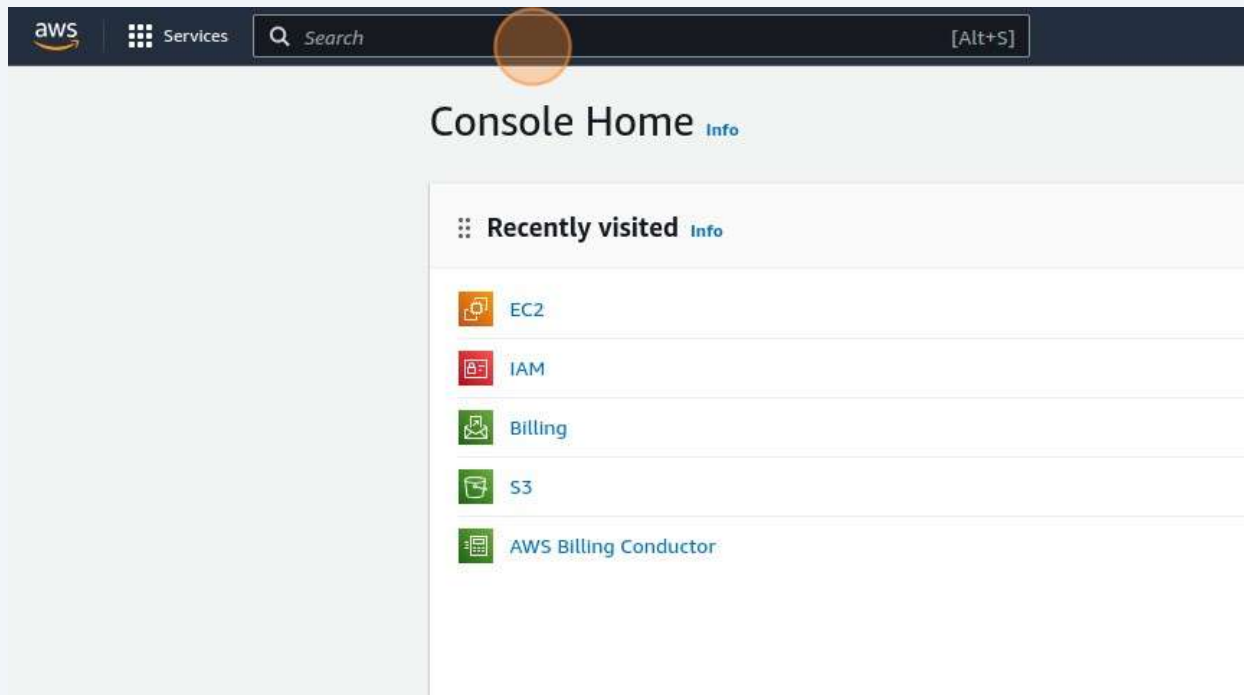


# How to Launch an EC2 Instance and Install Scribe Jenkins on AWS

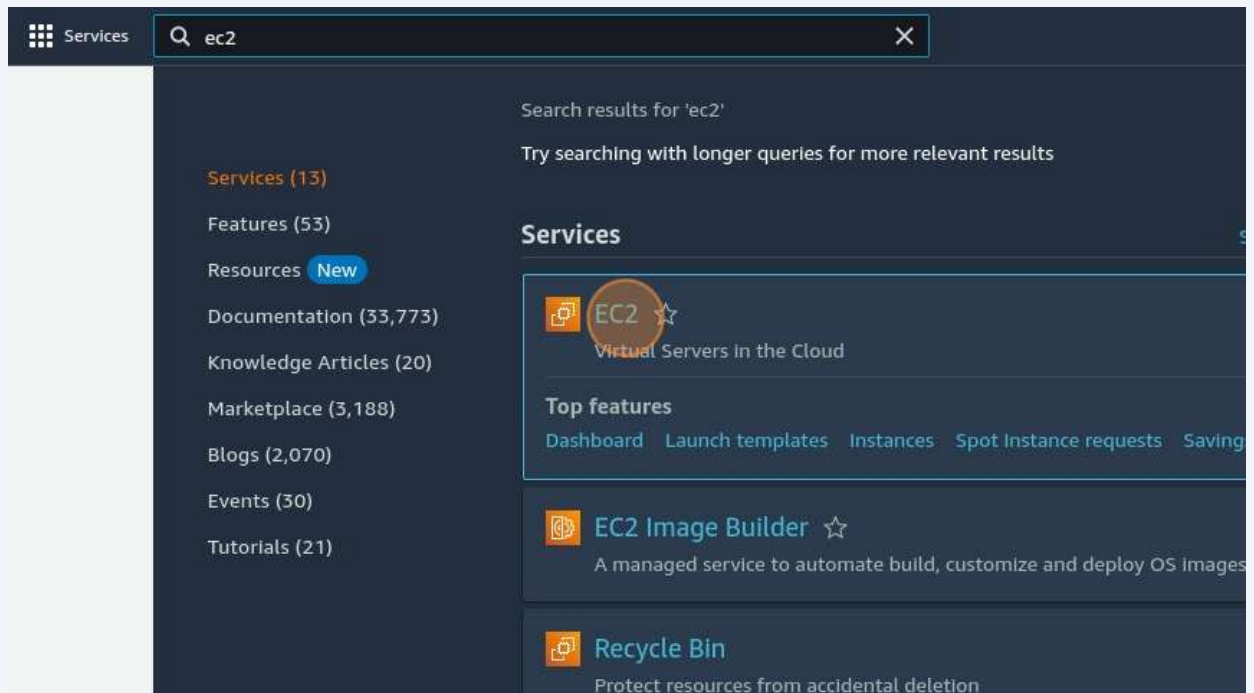
## 1 Open your AWS Account



2 Click the "Search" field.Type "ec2"



3 Click "EC2"



#### 4 To create Ec2 Instance.Click "Launch instance"

The screenshot shows the AWS Management Console interface. On the left is a navigation menu with categories like EC2 Dashboard, Instances, Images, Elastic Block Store, and Network & Security. The main content area is titled 'Resources' and shows a summary of EC2 resources in the US East (N. Virginia) Region. Below this, the 'Launch instance' section is visible, with the 'Launch instance' button highlighted by an orange circle. To the right of the 'Launch instance' button is a 'Migrate a server' button. Further right, the 'Service health' section shows the region as US East (N. Virginia) and a table of zones. On the far right, there are sections for 'Account attributes', 'Explore AWS', and 'Additional information'.

**Resources**

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Resource	Count
Instances (running)	0
Elastic IPs	0
Load balancers	0
Snapshots	0
Auto Scaling Groups	0
Instances	0
Placement groups	0
Volumes	0
Dedicated Hosts	0
Key pairs	0
Security groups	1

**Launch instance**

To get started, launch an Amazon EC2 instance, which is a virtual server in the cloud.

[Launch instance](#) [Migrate a server](#)

Note: Your instances will launch in the US East (N. Virginia) Region.

**Scheduled events**

US East (N. Virginia)  
No scheduled events

**Migrate a server**

Use AWS Application Migration Service to simplify and expedite migration from on-premises workloads to the AWS Cloud.

**Service health**

Region: US East (N. Virginia)

**Zones**

Zone name	Zone ID
us-east-1a	use1-az5
us-east-1b	use1-az1
us-east-1c	use1-az2
us-east-1d	use1-az4
us-east-1e	use1-az3
us-east-1f	use1-az6

**Account attributes**

[Default VPC](#)  
vpc-0045dec918b6ed1dc

**Settings**

[Data protection and security](#)  
[Zones](#)  
[EC2 Serial Console](#)  
[Default credit specification](#)  
[Console experiments](#)

**Explore AWS**

**Get Up to 40% Better Price Performance**  
T4g instances deliver the best price performance for business purpose workloads in Amazon EC2. [Learn more](#)

**Enable Best Price-Performance with AWS Graviton2**  
AWS Graviton2 powered EC2 instances enable up to 40% performance for a broad spectrum of cloud workloads.

**10 Things You Can Do Today to Reduce AWS Costs**  
Explore how to effectively manage your AWS costs with on performance or capacity. [Learn more](#)

**Additional information**

[Getting started guide](#)

#### 5 Click the "Name" field.Type "test-aws".This is our Ec2 Instance Name

The screenshot shows the 'Launch instance' wizard in the AWS Management Console. The 'Name and tags' section is active, and the 'Name' field is highlighted with an orange circle. The text 'test-aws' is entered in the field. Below the 'Name and tags' section, the 'Application and OS Images (Amazon Machine Image)' section is visible, showing a search bar and a list of AMIs. The 'Name' field is a text input box with a blue border and a blue cursor. The 'test-aws' text is in a blue font. The 'Add additional tags' button is to the right of the 'Name' field. The 'Application and OS Images' section has a dropdown arrow and a title. Below the title is a paragraph of text and a search bar.

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

**Name and tags** [Info](#)

Name

test-aws [Add additional tags](#)

**Application and OS Images (Amazon Machine Image)** [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

## 6 There are different choose Ubuntu

**Application and OS Images (Amazon Machine Image)** Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Search our full catalog including 1000s of application and OS Images

Recents Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Linux

Browse more AMIs  
Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)  
Amazon Linux 2023 AMI Free tier eligible

CloudShell Feedback

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the Internet.

Cancel

## 7 Click "Create new key pair"

**Instance type**

t2.micro  
Family: t2, 1 vCPU, 1 GiB Memory, Current generation: true  
On-Demand Windows base pricing: 0.0162 USD per Hour  
On-Demand SUSE base pricing: 0.0116 USD per Hour  
On-Demand RHEL base pricing: 0.0716 USD per Hour  
On-Demand Linux base pricing: 0.0116 USD per Hour  
Free tier eligible

All generations  
Compare instance types

Additional costs apply for AMIs with pre-installed software

**Key pair (login)** Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required  
Select

Create new key pair

**Network settings** Info Edit

Network Info  
vpc-0045dec916b0ed1dc

Subnet Info  
No preference (Default subnet in any availability zone)

Auto-assign public IP Info  
Enable

Firewall (security groups) Info  
A security group is a set of Firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

**Summary**

Number of instances Info  
1

Software Image (AMI)  
Canonical, Ubuntu, 22.04 LTS, ...read more  
ami-0fc5d935ebf8bc3bc

Virtual server type (Instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the Internet.

Cancel Launch Instance  
Review commands

8 Click the "Key pair name" field. Type "test-aws".

Search [Alt+S]

Free tier eligible

Summary

Number of instances: 1

Create key pair

Key pair name

Key pairs allow you to connect to your instance securely.

Enter key pair name

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA  
RSA encrypted private and public key pair.

☐ ED25519  
ED25519 encrypted private and public key pair.

Private key file format

☒ .pem  
For use with OpenSSH

☐ .ppk  
For use with PuTTY

⚠ When prompted, store the private key in a secure and accessible location on your computer.

9 Click "Create key pair" and download the .csv file

key file format

☒ .pem  
For use with OpenSSH

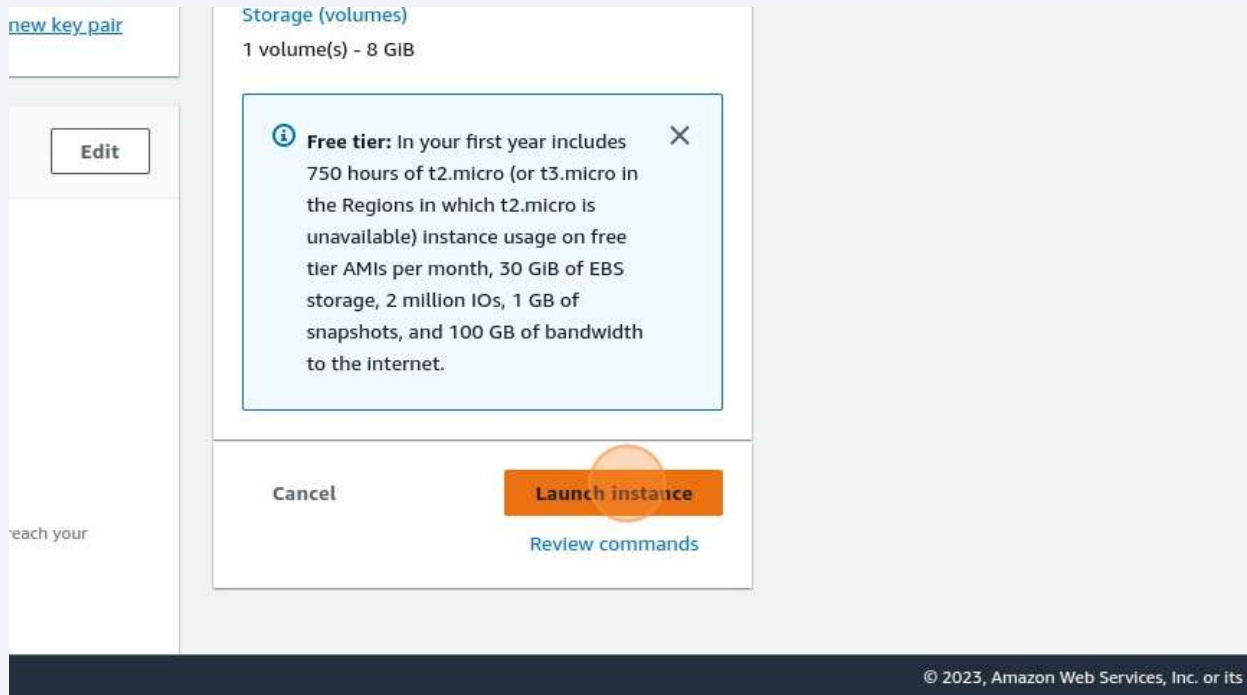
☐ .ppk  
For use with PuTTY

When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Cancel Create key pair

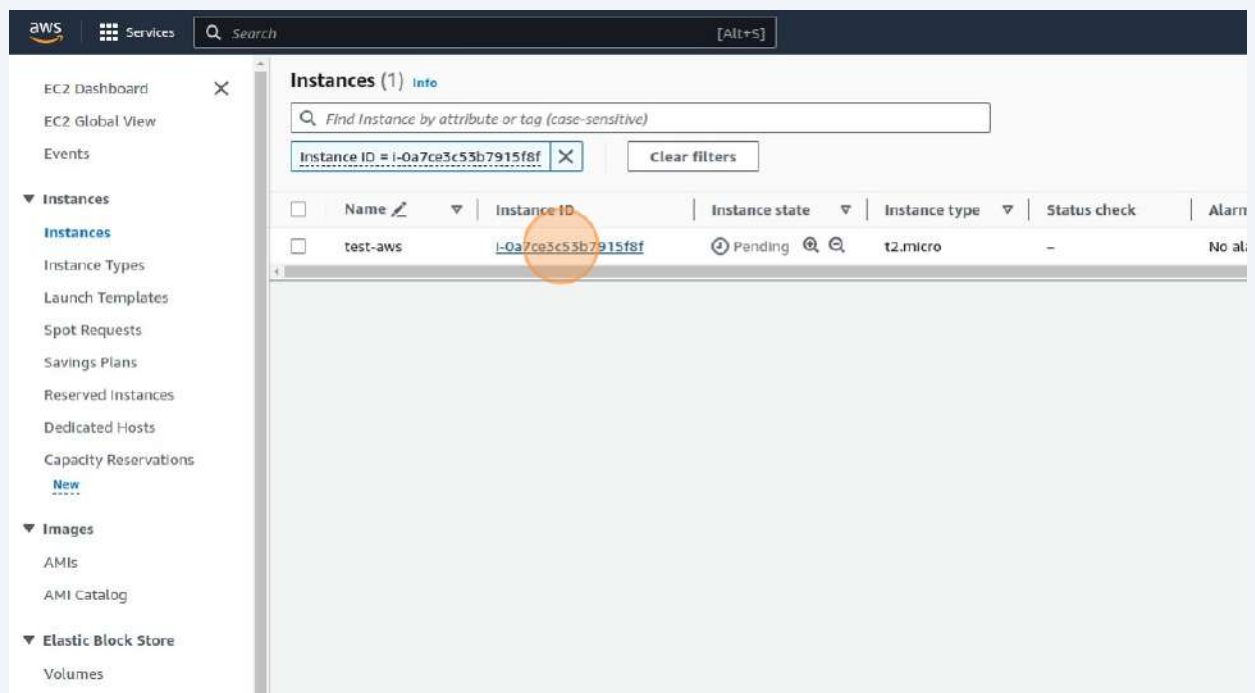
10

Don't change another settings. make sure everything in free tier. then Click "Launch instance"



11

Click on instance



## 12 Now you will be redirected to this page where you will manage your EC2 instance

The screenshot shows the AWS Management Console interface for an EC2 instance named 'test-aws'. The instance ID is 'i-0a7ce3c5b7915f8f'. The instance is in a 'Pending' state. The public IPv4 address is '54.145.221.218'. The instance type is 't2.micro'. The VPC ID is 'vpc-0045d0c916b6d1dc'. The subnet ID is 'subnet-073a0edff3f1f2ed9'. The instance is running on the 'ami-0fc5d955abf8bc3bc' AMI. The platform is 'Ubuntu (Inferred)'. The instance details show the platform as 'Linux/UNIX' and the stop protection as 'Disabled'. The instance is located in the 'us-east-1' region.

**Instance summary for i-0a7ce3c5b7915f8f (test-aws)**

Updated less than a minute ago

Instance ID: i-0a7ce3c5b7915f8f (test-aws)

Public IPv4 address: 54.145.221.218 [open address]

Private IPv4 addresses: 172.31.16.109

Instance state: Pending

Public IPv4 DNS: ec2-54-145-221-218.compute-1.amazonaws.com [open address]

Private IP DNS name (IPv4 only): ip-172-31-16-109.ec2.internal

Instance type: t2.micro

VPC ID: vpc-0045d0c916b6d1dc

Subnet ID: subnet-073a0edff3f1f2ed9

Auto-assigned IP address: 54.145.221.218 [Public IP]

Answer private resource DNS name: IPv4 (A)

Platform: Ubuntu (Inferred)

Platform details: Linux/UNIX

Stop protection: Disabled

AMI ID: ami-0fc5d955abf8bc3bc

AMI name: ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20230919

Launch time: Fri Nov 10 2023 15:32:40 GMT+0530 (India Standard Time) (less than a minute)

Monitoring: disabled

Termination protection: Disabled

AMI location: amazon/ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-20230919

## 13 Copy your EC2 Instance Public IP Address

The screenshot shows the same AWS Management Console interface for the EC2 instance 'test-aws'. The public IPv4 address '54.145.221.218' is highlighted with an orange circle, indicating it should be copied.

**Instance summary for i-0a7ce3c5b7915f8f (test-aws)**

Updated less than a minute ago

Instance ID: i-0a7ce3c5b7915f8f (test-aws)

Public IPv4 address: 54.145.221.218 [open address]

Private IPv4 addresses: 172.31.16.109

Instance state: Pending

Public IPv4 DNS: ec2-54-145-221-218.c

Private IP DNS name (IPv4 only): ip-172-31-16-109.ec2.internal

Instance type: t2.micro

VPC ID: vpc-0045d0c916b6d1dc

Subnet ID: subnet-073a0edff3f1f2ed9

Auto-assigned IP address: 54.145.221.218 [Public IP]

Answer private resource DNS name: IPv4 (A)

Platform: Ubuntu (Inferred)

Platform details: Linux/UNIX

Stop protection: Disabled

AMI ID: ami-0fc5d955abf8bc3bc

AMI name: ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20230919

Monitoring: disabled

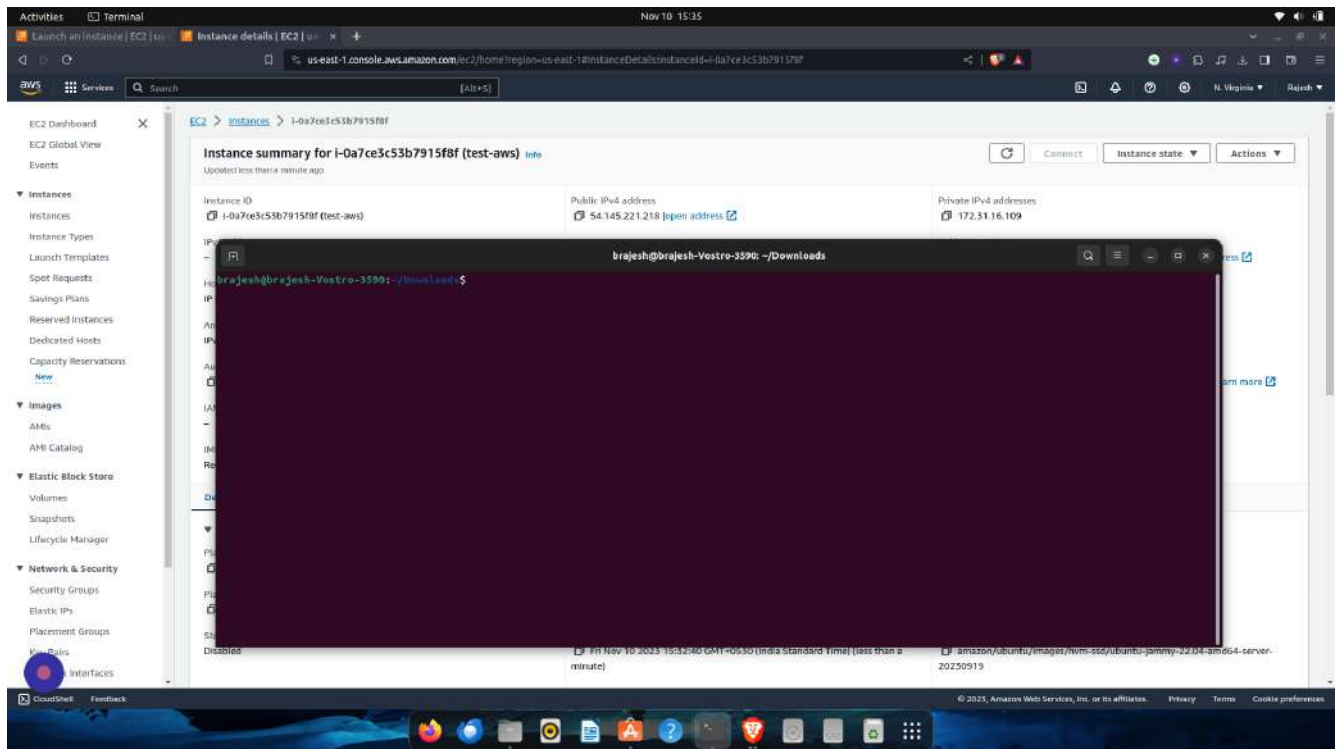
Termination protection: Disabled

AMI location: amazon/ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-20230919



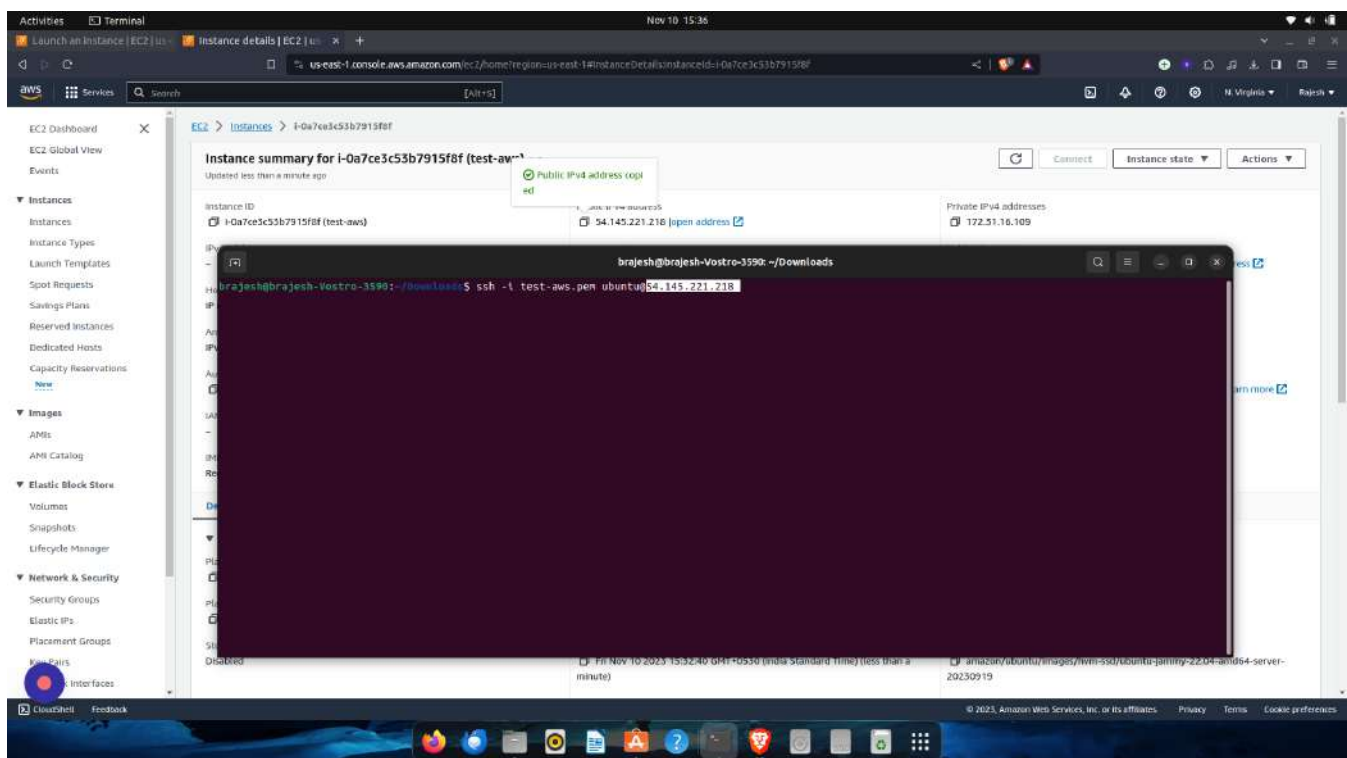
14

Open Your Terminal .Currently I am using Ubuntu. If you are using windows then go for better terminals



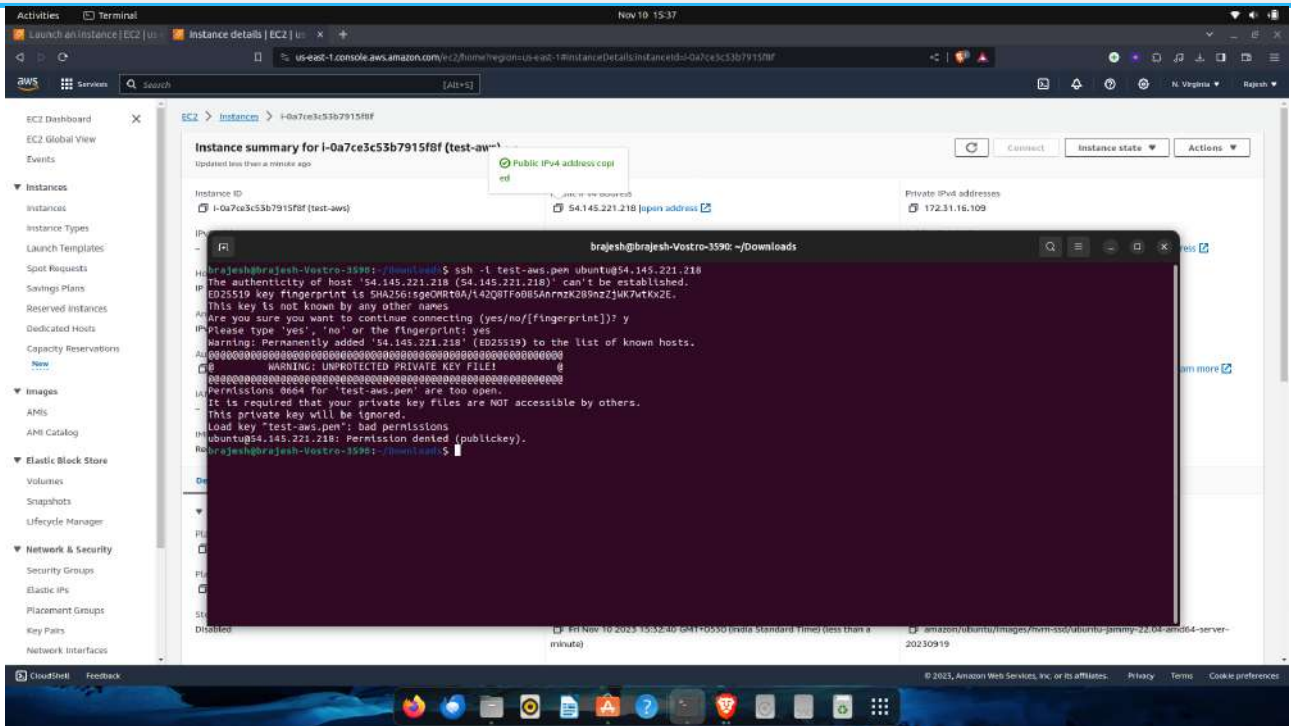
Now using ssh command we will connect to the instance .open your downloaded .pem file location in your terminal and execute this command: "ssh -i test-aws.pem ubuntu@54.145.221.210"

'replace your pem file name and replace your Ec2 public IP'



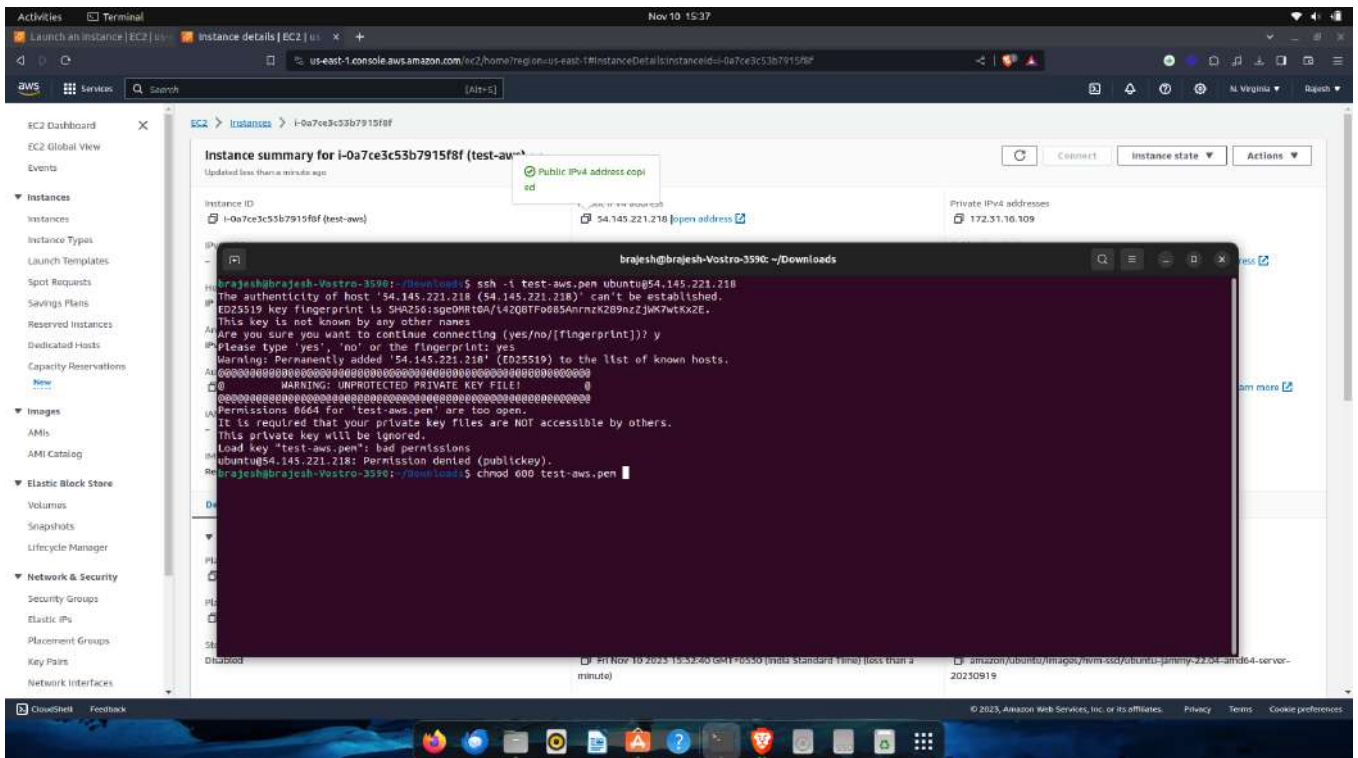


**Now you will get this error. Don't worry, this error means you need to provide the execution permission.**

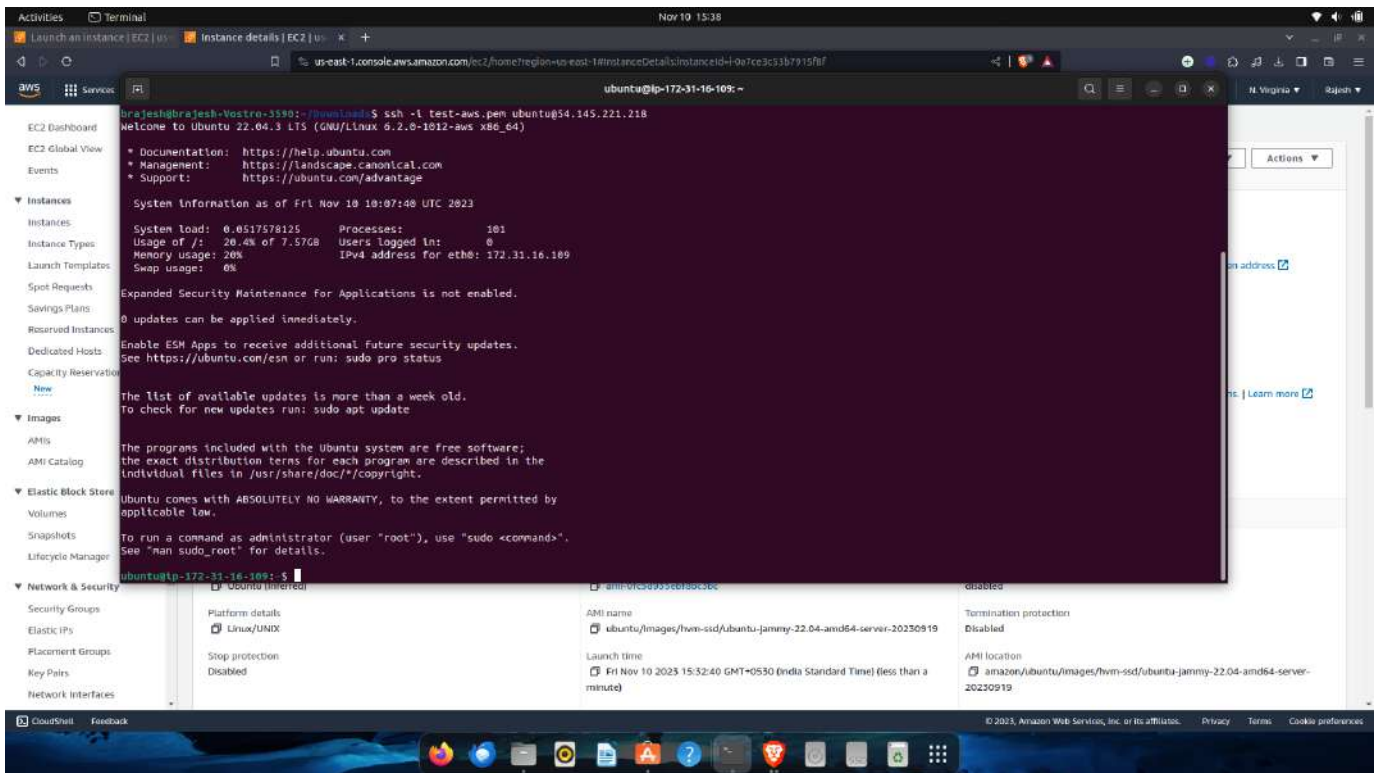


**Now Execute this command : "chmod 600 test-aws.pem"**

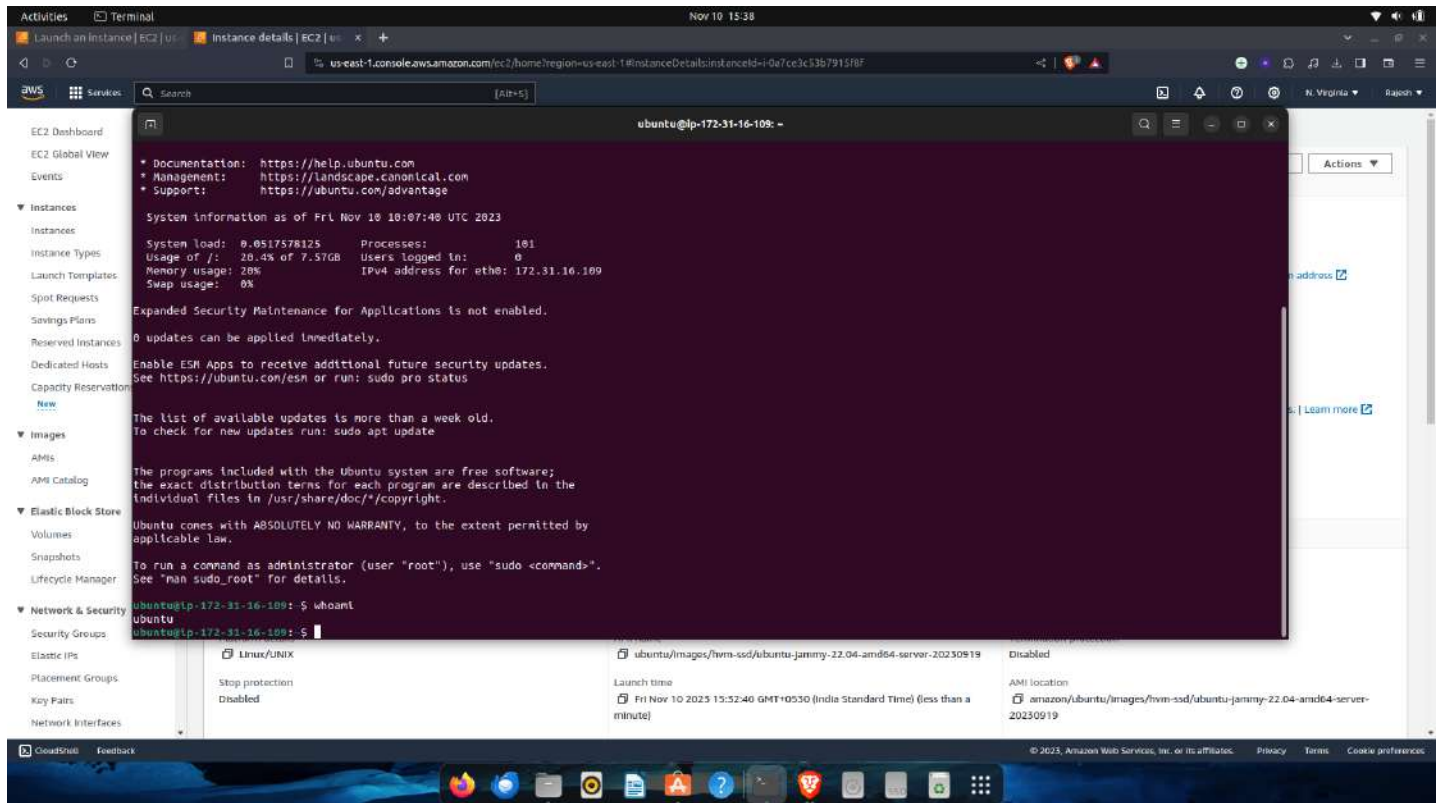
Replace the file name with your .pem file name



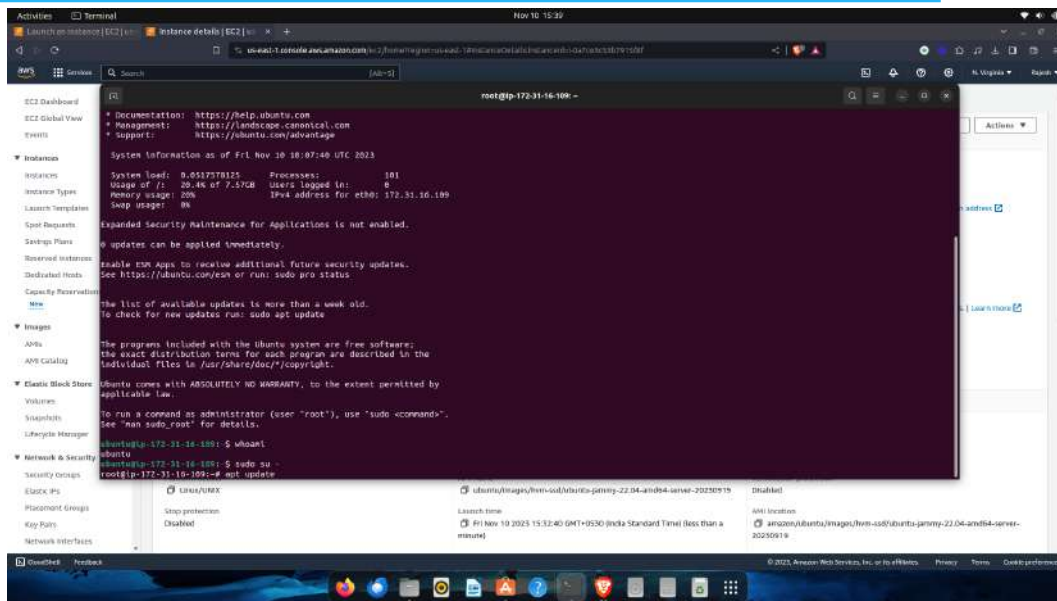
Now run the previous ssh command. It will run successfully



Now we successfully connected to our ec2 instance .  
To verify it execute this command: "whoami"

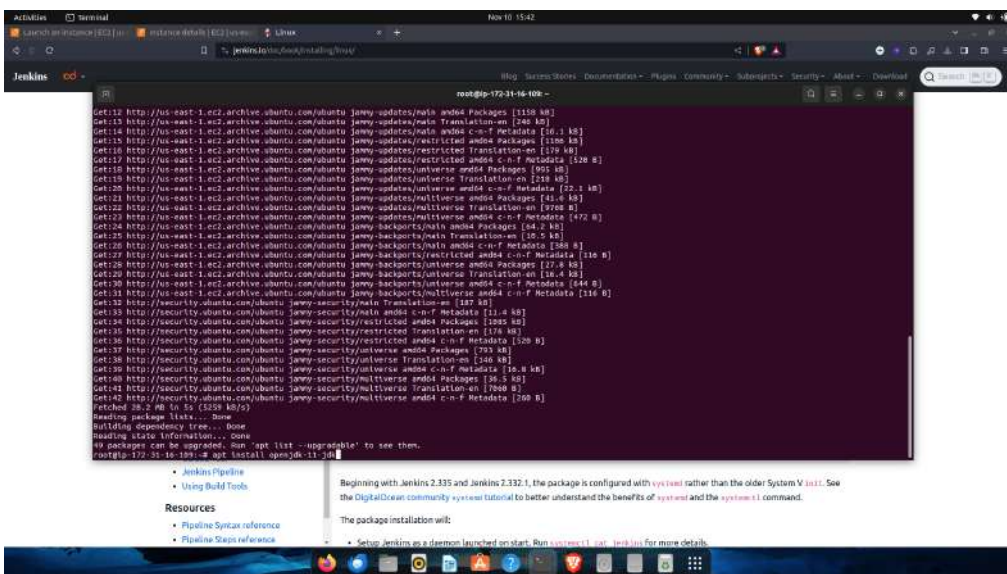


It's good to update our instance. Before that change to root user.  
Execute this command : "sudo su -"  
Let's update: apt update

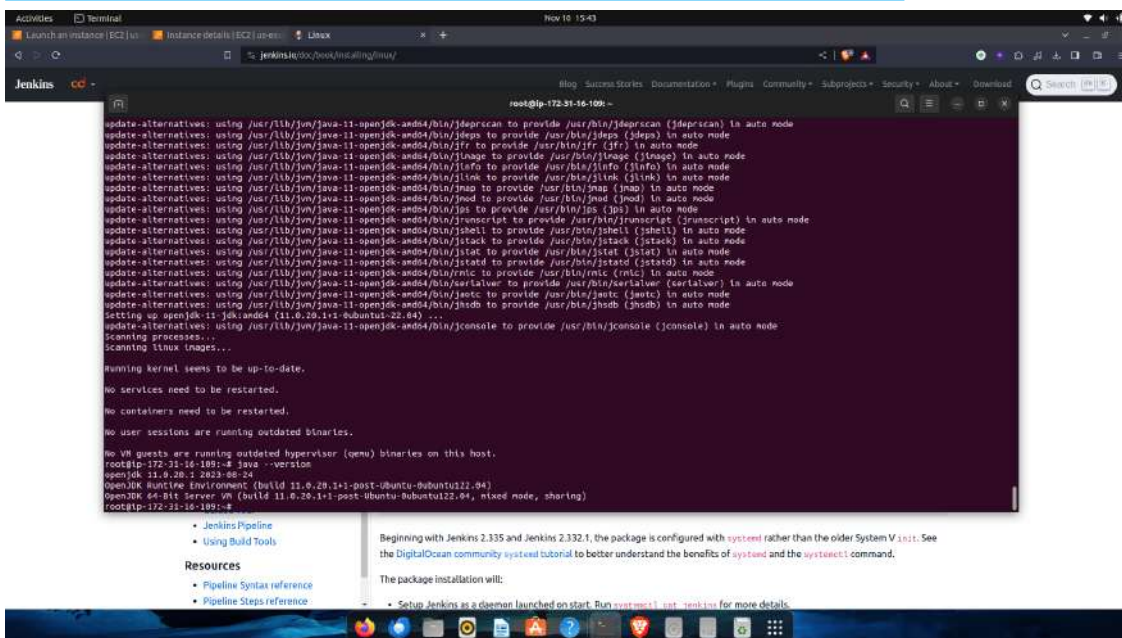


Now we are ready to deploy application in our Instance.we will deploy Jenkins in our instance.  
Before that we need to install java.To install java in our system.Execute this command.

```
"apt install openjdk-11-jdk"
```



To confirm the installation run this command: "java --version"

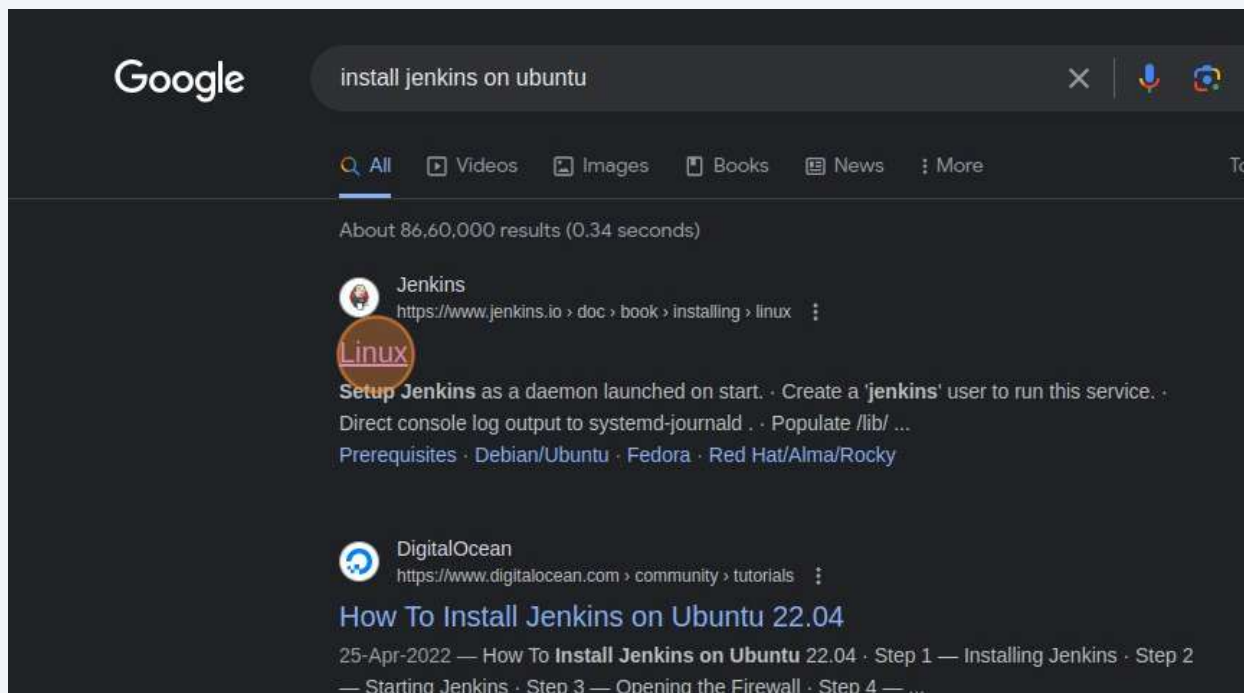




14 Open Your Terminal .Currently I am using Ubuntu. If you are using windows then go for better terminals

15 In a new tab, navigate to <https://www.google.com/>

16 Click "Linux"



17 scroll down

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Linux

Jenkins installers are available for several Linux distributions.

- Debian/Ubuntu
- Fedora
- Red Hat/Alma/Rocky

Prerequisites

Minimum hardware requirements:

- 256 MB of RAM
- 1 GB of drive space (although 10 GB is a recommended minimum if running Jenkins as a Docker container)

Recommended hardware configuration for a small team:

- 4 GB+ of RAM
- 50 GB+ of drive space

Comprehensive hardware recommendations:

- Hardware: see the [Hardware Recommendations](#) page

Software requirements:

- Java: see the [Java Requirements](#) page
- Web browser: see the [Web Browser Compatibility](#) page
- For Windows operating system: [Windows Support Policy](#)

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- Customizing .
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**18** Click "Copied!"

Jenkins

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### Resources

- Pipeline Syntax reference
- Pipeline Steps reference

With the release of Debian 12, OpenJDK 11 is no longer included. It has been replaced with OpenJDK 17, which is reflected in the instructions below.

## Long Term Support release

A LTS (Long-Term Support) release is chosen every 12 weeks from the stream of regular releases as the stable release for that time period. It can be installed from the [debians-stable apt repository](#).

```
sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
https://pkg.jenkins.io/debian-stable binary | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update
sudo apt-get install jenkins
```

## Weekly release

A new release is produced weekly to deliver bug fixes and features to users and plugin developers. It can be installed from the [debian apt repository](#).

```
sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
https://pkg.jenkins.io/debian/jenkins.io-2023.key
echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
https://pkg.jenkins.io/debian binary | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update
sudo apt-get install jenkins
```

Beginning with Jenkins 2.335 and Jenkins 2.332.1, the package is configured with `systemd` rather than the older `System V init`. See the [DigitalOcean community systemd tutorial](#) to better understand the benefits of `systemd` and the `systemctl` command.

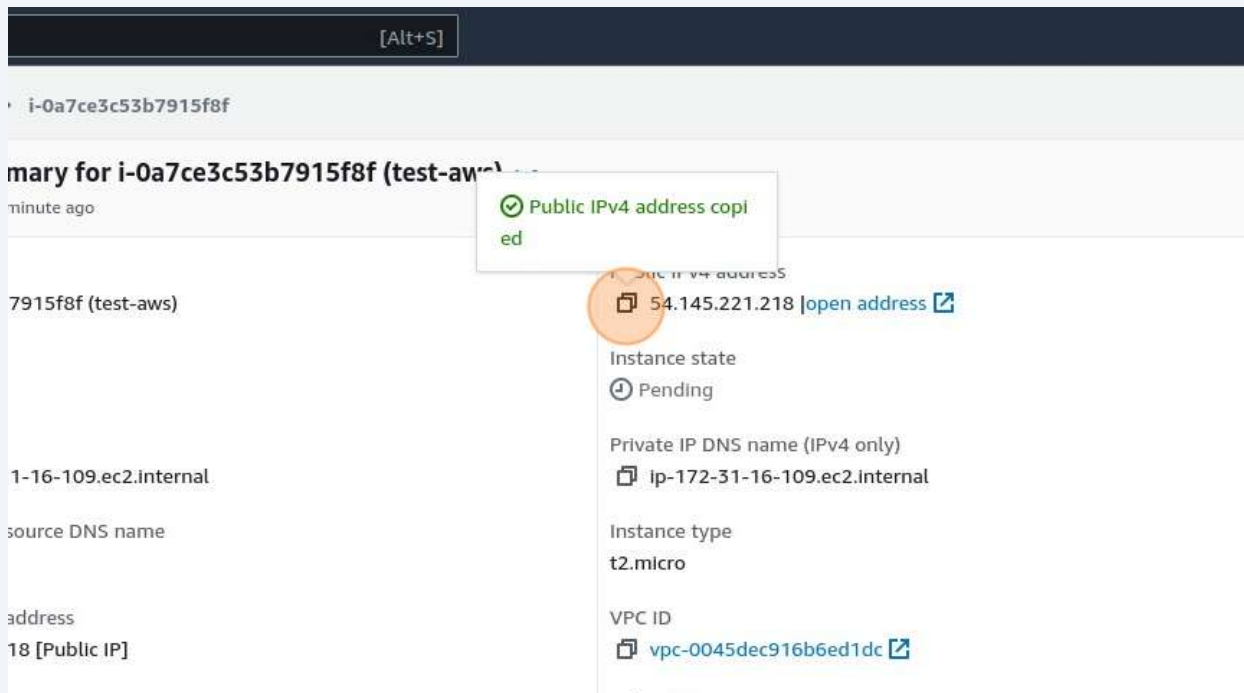
The package installation will:

- Setup Jenkins as a daemon launched on start. Run `sudo systemctl cat jenkins` for more details.

**19** Paste it and hit enter to run in your terminal



## 20 copy your Public IP



## 21 Open a new tab and paste it .Jenkins port number is 8080. So make sure to attach the port number at the end like this "http://54.145.221.218:8080/"

Our instance will not be opened before that we need to do a setting.



## 22 go to your instance settings

Search [Alt+S]

EC2 > Instances > i-0a7ce3c53b7915f8f

Instance summary for i-0a7ce3c53b7915f8f (test-aws) [Info](#)

Updated less than a minute ago

Connect Instance state Actions

Instance ID i-0a7ce3c53b7915f8f (test-aws)	Public IPv4 address 54.145.221.218 <a href="#">Open address</a>	Private IPv4 addresses 172.31.16.109
IPv6 address -	Instance state Pending	Public IPv6 DNS ec2-54-145-221-218.compute-1.amazonaws.com <a href="#">Open address</a>
Hostname type IP name: ip-172-31-16-109.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-16-109.ec2.internal	Elastic IP addresses -
Answer private resource DNS name IPV4 (A)	Instance type t2.micro	AWS Compute Optimizer finding <a href="#">Opt-in to AWS Compute Optimizer for recommendations.</a> <a href="#">Learn more</a>
Auto-assigned IP address 54.145.221.218 [Public IP]	VPC ID vpc-0045d6ac916b6ed1dc	Auto Scaling Group name -
IAM Role -	Subnet ID subnet-07530e0ff31f2ed5	
IMDSv2 Required		

Details Security Networking Storage Status checks Monitoring Tags

▼ Instance details [Info](#)

Platform Ubuntu (Inferred)	AMI ID ami-0fcd5d955ebf8bc3bc	Monitoring disabled
Platform details Linux/UNIX	AMI name ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20230919	Termination protection Disabled
Stop protection Disabled	Launch time Fri Nov 10 2023 15:32:40 GMT+0530 (India Standard Time) (less than a minute)	AMI location amazon/ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20230919

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## 23 Click "Security"

Dedicated Hosts

Capacity Reservations

[New](#)

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AMIs

AMI Catalog

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

▼ Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

IPv4 (A)

Auto-assigned IP address  
54.145.221.218 [Public IP]

IAM Role  
-

IMDSv2  
Required

t2.micro

VPC ID  
vpc-0045d6ac916b6ed1dc

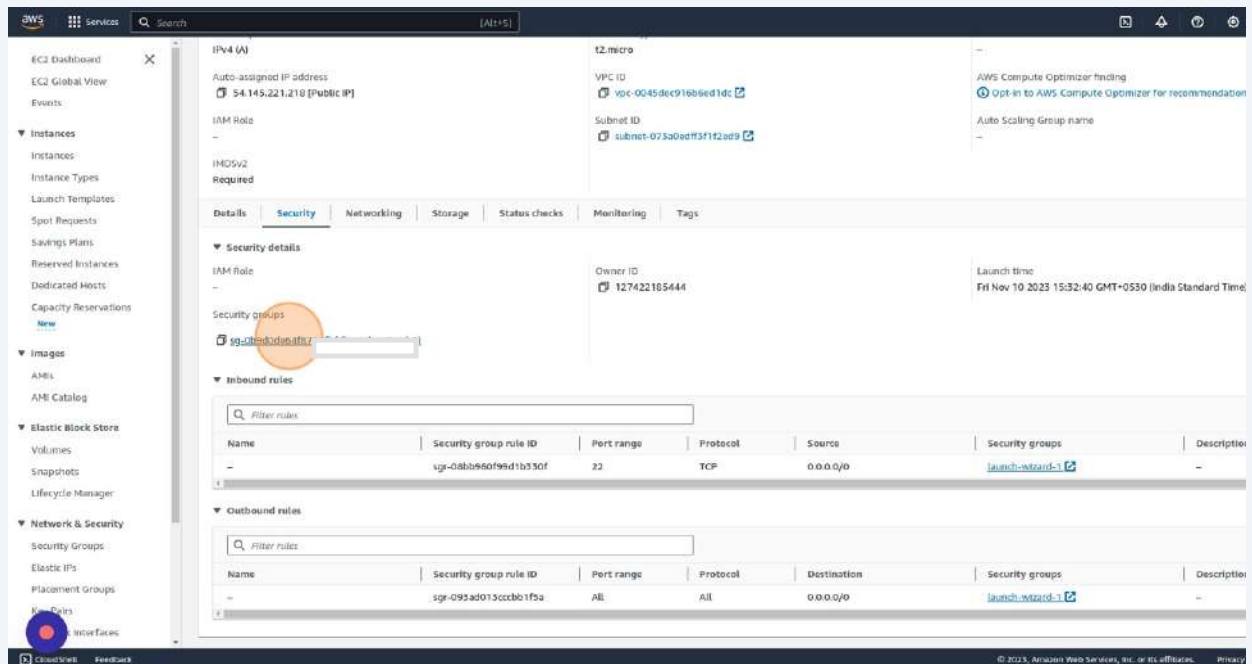
Subnet  
subnet-07530e0ff31f2ed5

Details Security Networking Storage Status checks Monitoring

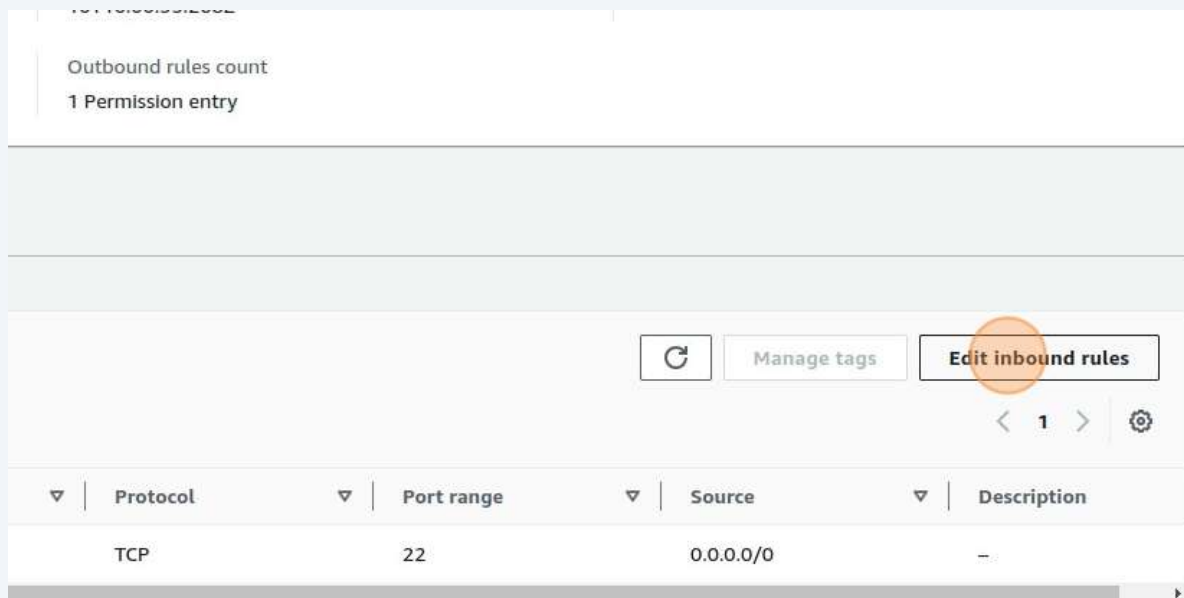
▼ Instance details [Info](#)

Platform Ubuntu (Inferred)	AMI ID ami-0fcd5d955ebf8bc3bc
Platform details Linux/UNIX	AMI name ubuntu/images/hvm-ssd/ubuntu-jammy-22.04-amd64-server-20230919
Stop protection Disabled	Launch time Fri Nov 10 2023 15:32:40 GMT+0530 (India Standard Time) (less than a minute)

## 24 Click "sg-0b9d0de64f8738fbf (launch-wizard-1)"



## 25 Click "Edit inbound rules"



26

EC2 > Security Groups > sg-0b9d0d6d4f873a8f0f - launch-wizard-1 > Edit inbound rules

### Edit inbound rules [Info](#)

Inbound rules control the incoming traffic that's allowed to reach the instance.

Security group rule ID	Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>	Source <a href="#">Info</a>	Description - optional <a href="#">Info</a>
sgr-061b960f99d1b330f	SSH	TCP	22	Custom	Q

[Add rule](#)

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

[Cancel](#) [Preview changes](#)

27 Click "Add rule"

### Inbound rules [Info](#)

Security group rule ID	Type <a href="#">Info</a>	Protocol <a href="#">Info</a>	Port range <a href="#">Info</a>
sgr-08bb960f99d1b330f	SSH	TCP	22

[Add rule](#)

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

## 28 Choose Custom Tcp. Click in the port range field. Type " Backspace 8080"


that's allowed to reach the instance.

Type Info	Protocol Info	Port range Info	Source Info	Description
SSH	TCP	22	Custom	<input type="text" value="0.0.0.0/0"/>
Custom TCP	TCP	0	Custom	<input type="text" value=""/>

0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

## 29 Click "Source"

Protocol Info	Port range Info	Source Info	Description
TCP	22	Custom	<input type="text" value="0.0.0.0/0"/>
TCP	8080	Custom	<input type="text" value=""/>

 CIDR block, a security group ID or a prefix list has to be specified.

We recommend setting security group rules to allow access from known IP addresses only.

### 30 Click "Anywhere-IPv4"

	Protocol Info	Port range Info	Source Info		Description
▼	TCP	22	Custom ▼	<input type="text" value="0.0.0.0/0"/>	
▼	TCP	8080	Custom ▲	<input type="text" value=""/>	
			Custom		
			Anywhere-IPv4		
			Anywhere-IPv6		
			My IP		

We recommend setting security group rules to allow access from known IP addresses only.

### 31 Click "Save rules"

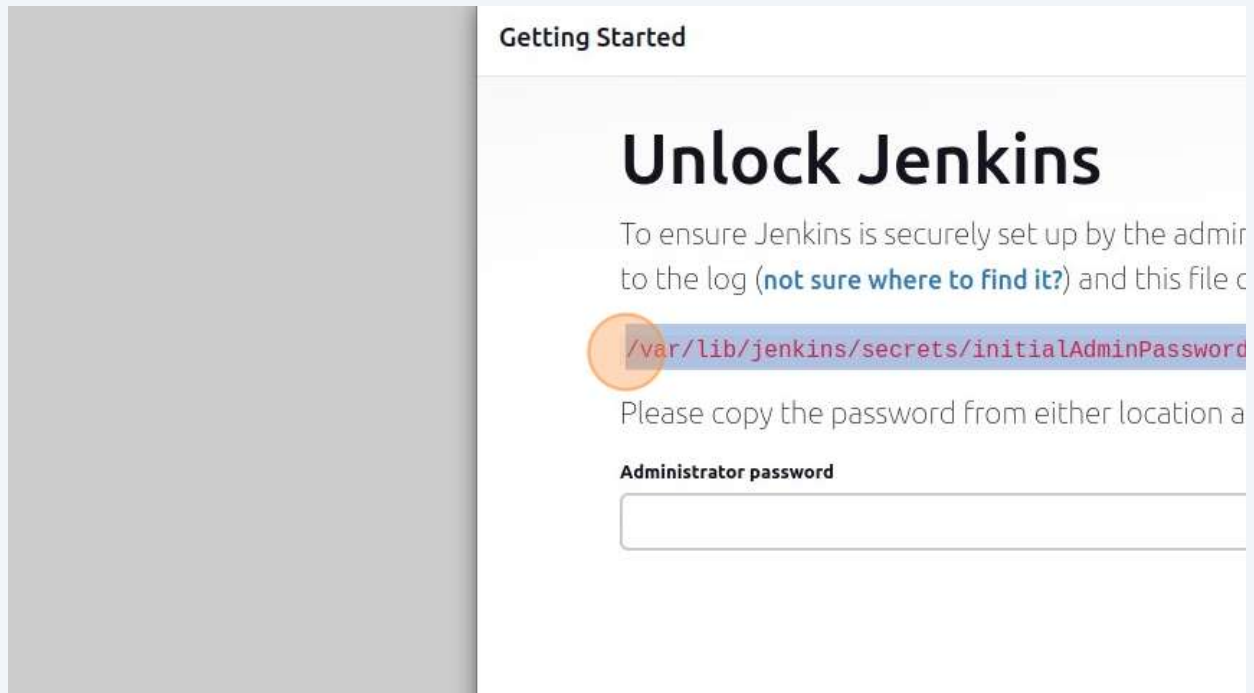
IP addresses only.

Cancel Preview changes Save rules

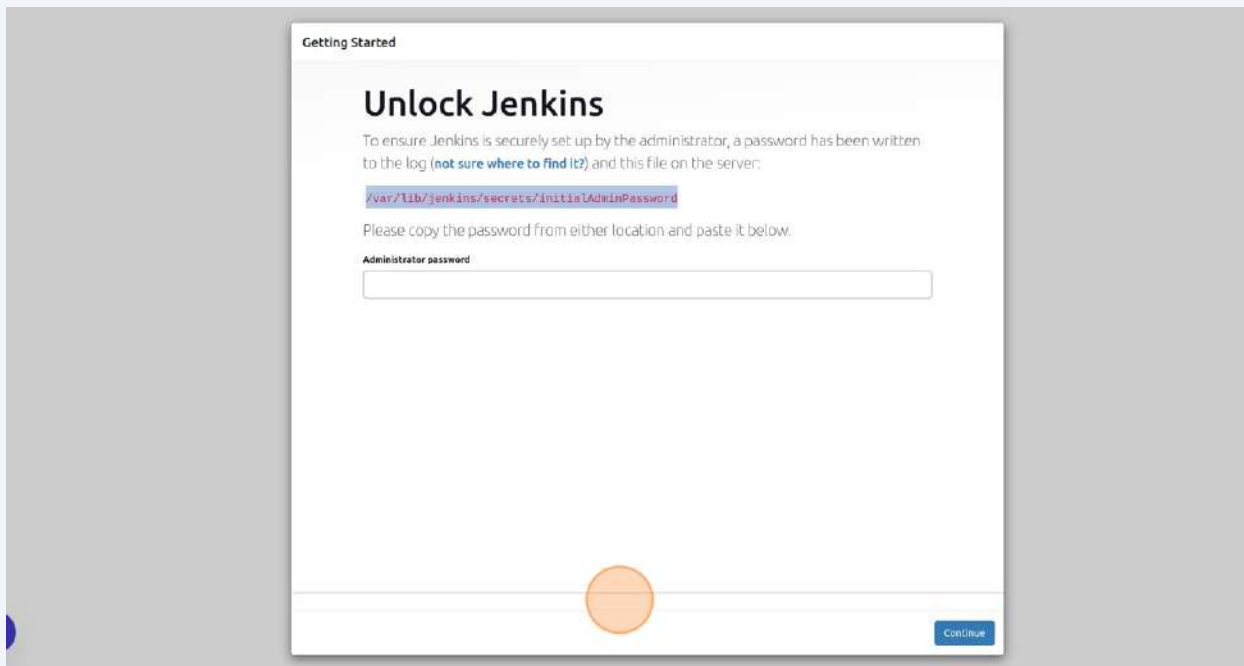
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**32** Now go back to the opened tab.And Refresh

**33** you will redirected to this jenkins page

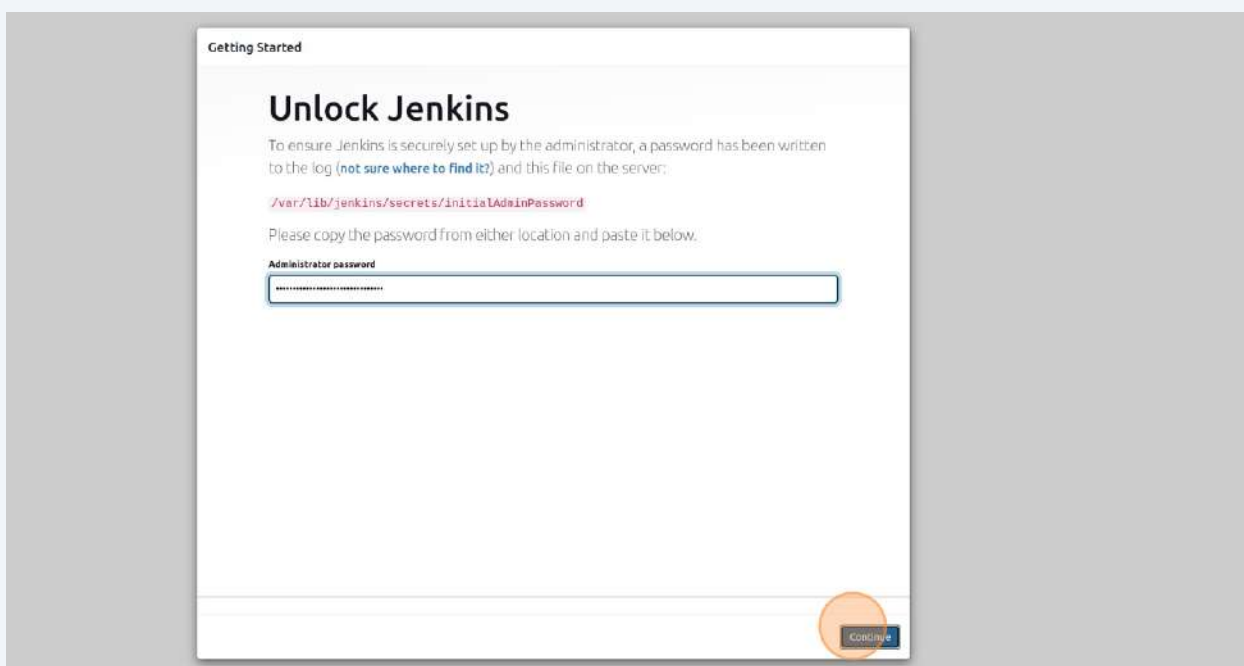


## 34 copy the address



## 35 Switch to the Terminal and open the file "cat /var/lib/jenkins/secrets/initialAdminPassword "

## 36 Click this confirm button





Activities

Terminal

Nov 10 17:22

Instances | EC2 | us-east-1

Instance details | EC2 | us-east-1 | Linux

Setup Wizard | Jenkins

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instanceDetails?instanceId=i-0a7ce3c53b7915f8f

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Network & Security

Security Groups

Elastic IPs

Placement Groups

Key Pairs

Network Interfaces

root@ip-172-31-16-109: ~

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-172-31-16-109:~# systemctl status jenkins

jenkins.service - Jenkins Continuous Integration Server

Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)

Active: active (running) since Fri 2023-11-10 10:16:06 UTC; 1min 7s ago

Main PID: 4902 (java)

Tasks: 37 (limit: 1121)

Memory: 299.6M

CPU: 46.014s

CGroup: /system.slice/jenkins.service

4902 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Nov 10 10:15:31 ip-172-31-16-109 jenkins[4902]: ca247f4bed16d0708564b9ca8139e5bb

Nov 10 10:15:31 ip-172-31-16-109 jenkins[4902]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword

Nov 10 10:15:31 ip-172-31-16-109 jenkins[4902]: \*\*\*\*\*

Nov 10 10:15:31 ip-172-31-16-109 jenkins[4902]: \*\*\*\*\*

Nov 10 10:16:06 ip-172-31-16-109 jenkins[4902]: 2023-11-10 10:16:06.660+0800 [id=29] INFO jenkins.InitReactorRunner\$1#onAttained: Completed initialization

Nov 10 10:16:06 ip-172-31-16-109 jenkins[4902]: 2023-11-10 10:16:06.708+0800 [id=22] INFO hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running

Nov 10 10:16:06 ip-172-31-16-109 systemd[1]: Started Jenkins Continuous Integration Server.

Nov 10 10:16:06 ip-172-31-16-109 jenkins[4902]: 2023-11-10 10:16:06.798+0800 [id=45] INFO h.n.DownloadService\$Downloadable#load: Obtained the updated data f

Nov 10 10:16:06 ip-172-31-16-109 jenkins[4902]: 2023-11-10 10:16:06.799+0800 [id=45] INFO hudson.util.Retrier#start: Performed the action check updates serv

lines 1-20/20 (END)

root@ip-172-31-16-109:~# cat /var/lib/jenkins/secrets/initialAdminPassword

ca247f4bed16d0708564b9ca8139e5bb

root@ip-172-31-16-109:~#

Name	Security group rule ID	Port range	Protocol	Destination	Security groups	Description
-	sgr-093ad013ccbb1f5a	All	All	0.0.0.0/0	launch-wizard-1	-

CloudShell

Feedback

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## 37 Now successfully deployed Jenkins in your ec2 instance



**Finally you have successfully created an Ec2 instance and deployed a Jenkins**