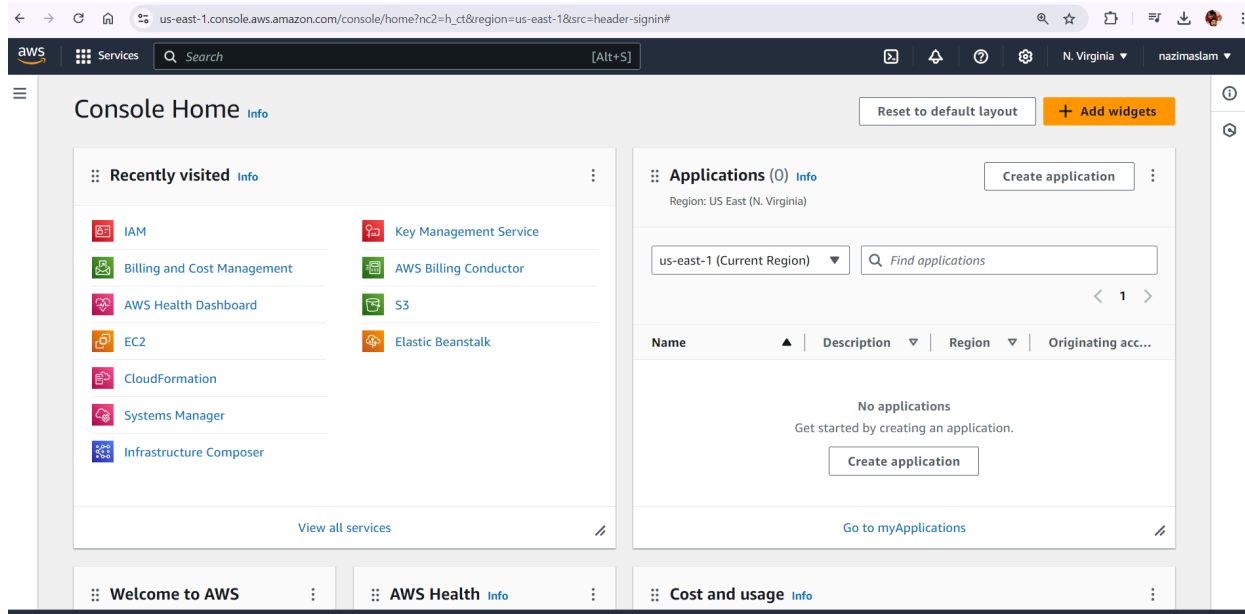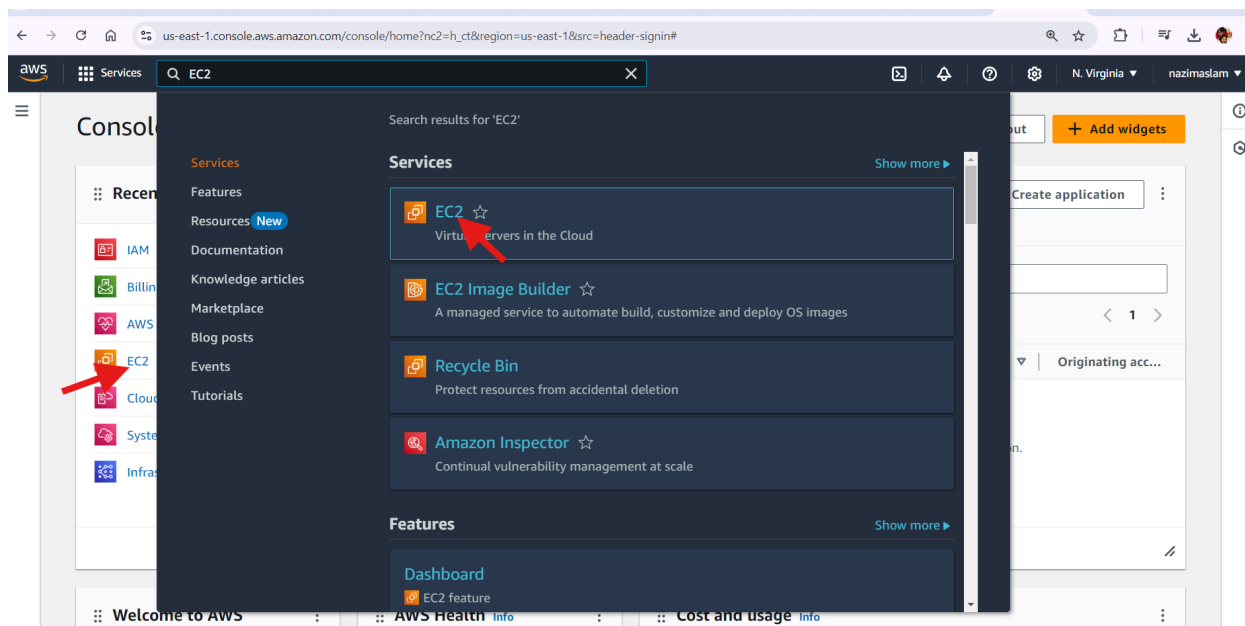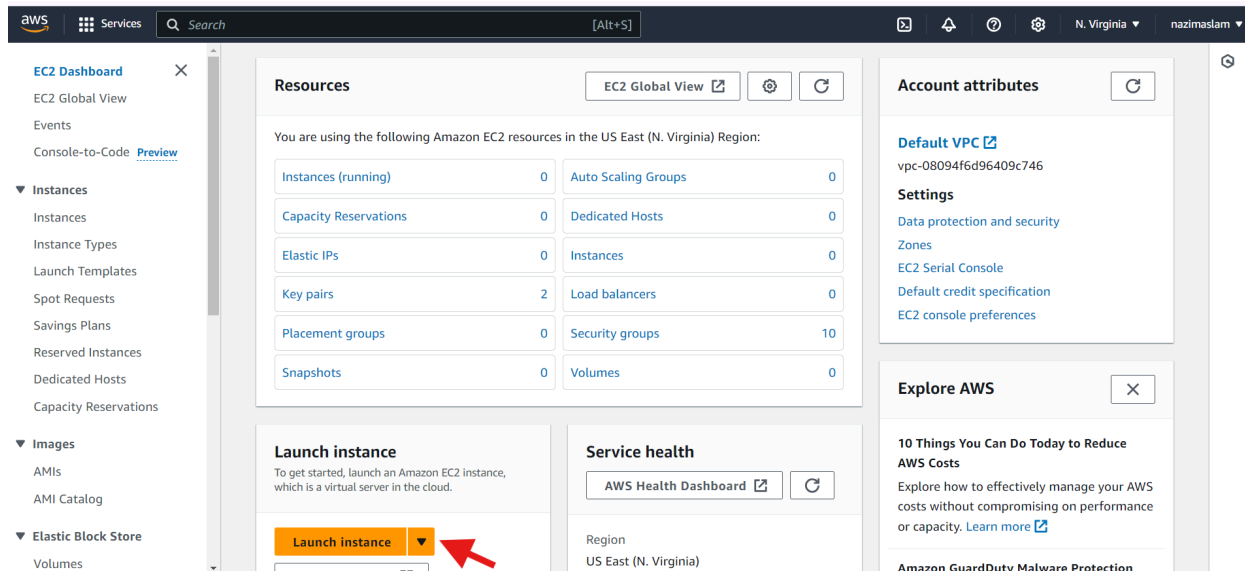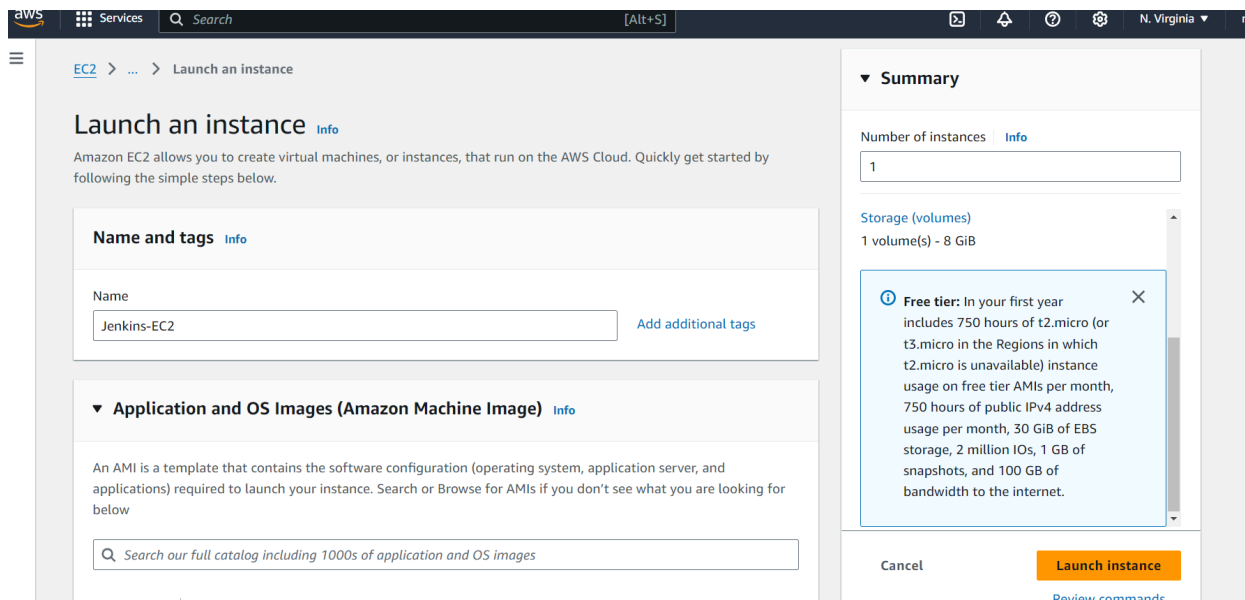Login AWS Console:

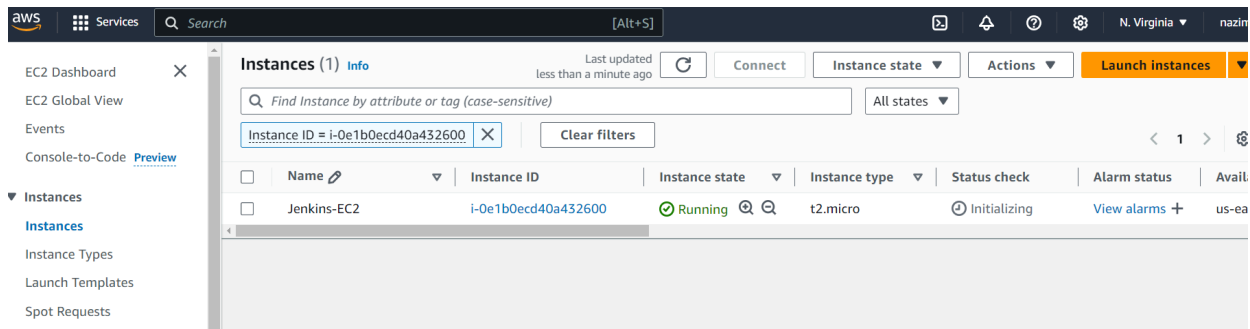Click on EC2 or Enter EC2 in Search and then Click

Click on Launch Instance:

Enter All the details and launch instance- EC2

EC2 is launched and running

Connect EC2
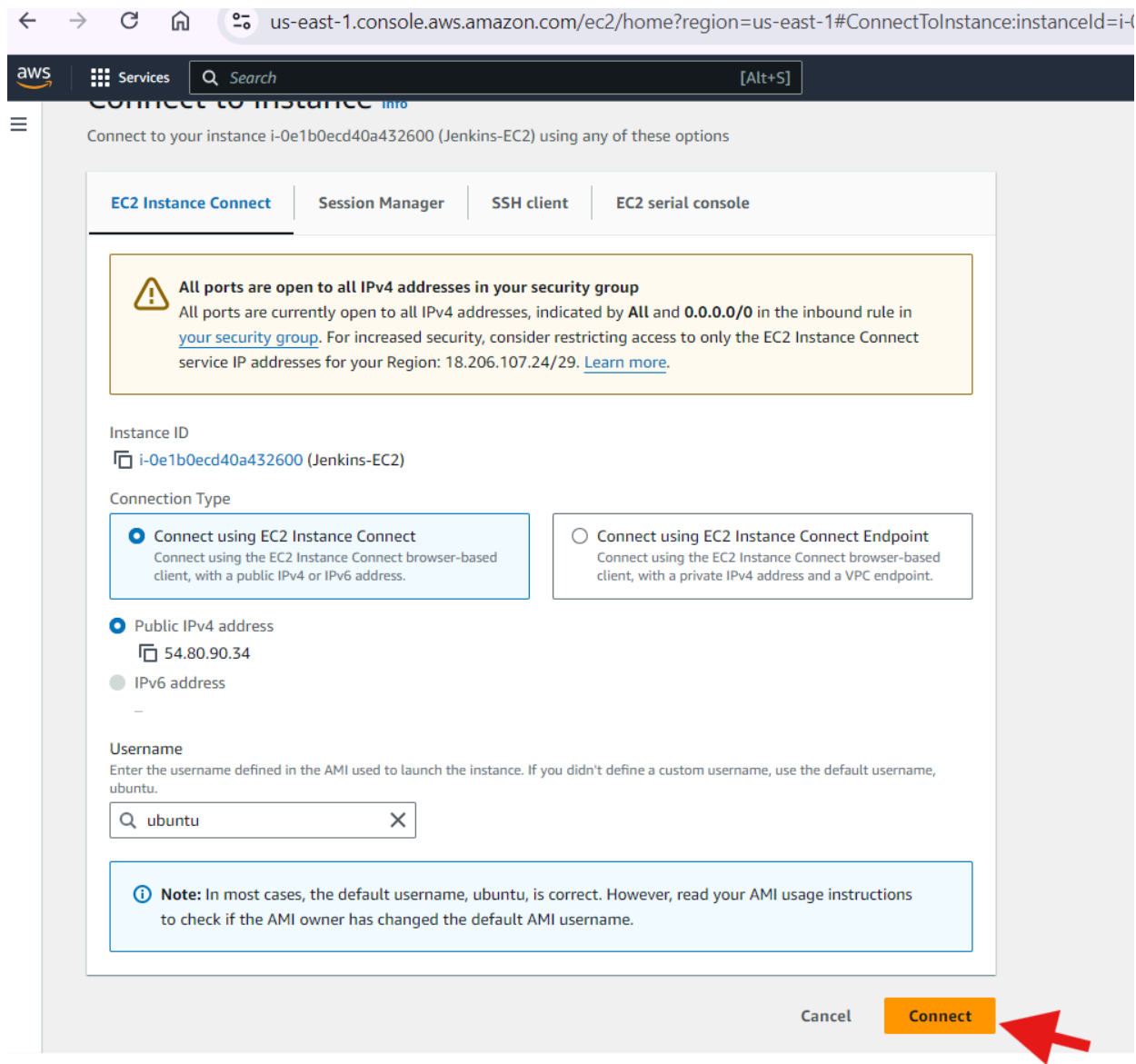
EC2 Connected successfully.
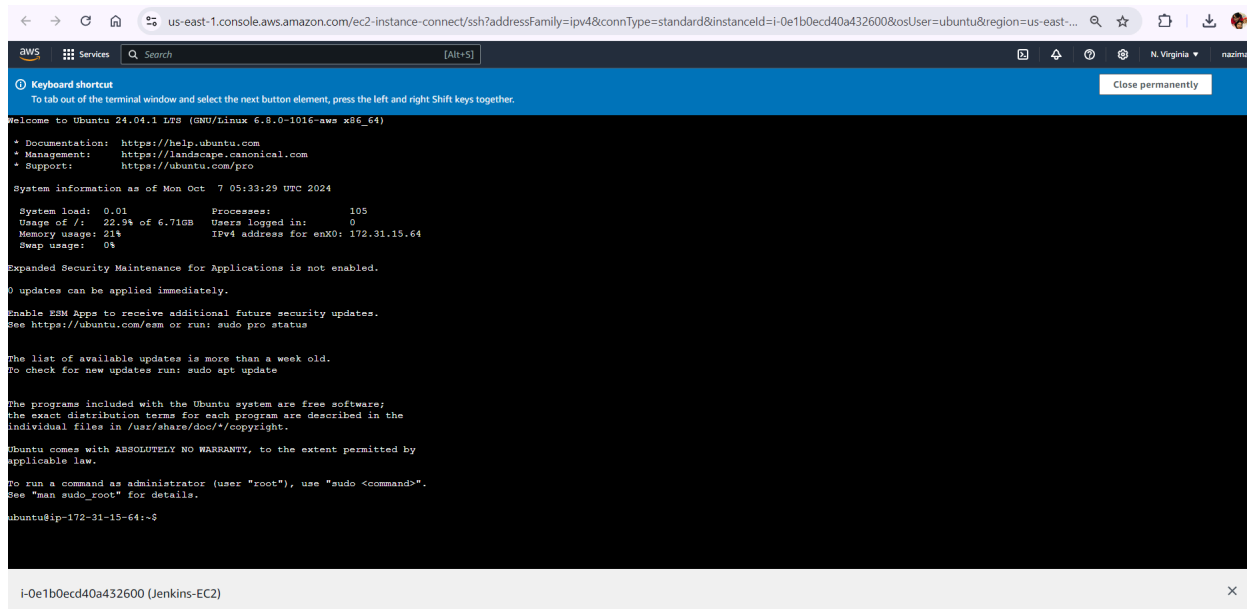
Run below commands one by one:

sudo apt update

```
sudo apt install openjdk-8-jdk -y
```

curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee \
  /usr/share/keyrings/jenkins-keyring.asc > /dev/null

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 -y
sudo apt-get install jenkins -y

Create install.sh file with below commands and then run this file

#install.sh file
sudo systemctl daemon-reload
sudo systemctl enable jenkins
sudo systemctl start jenkins
sudo systemctl status jenkins

bash install.sh

After this copy public ip and enter in browser.

If below screen displayed it means jenkins is successfully installed.
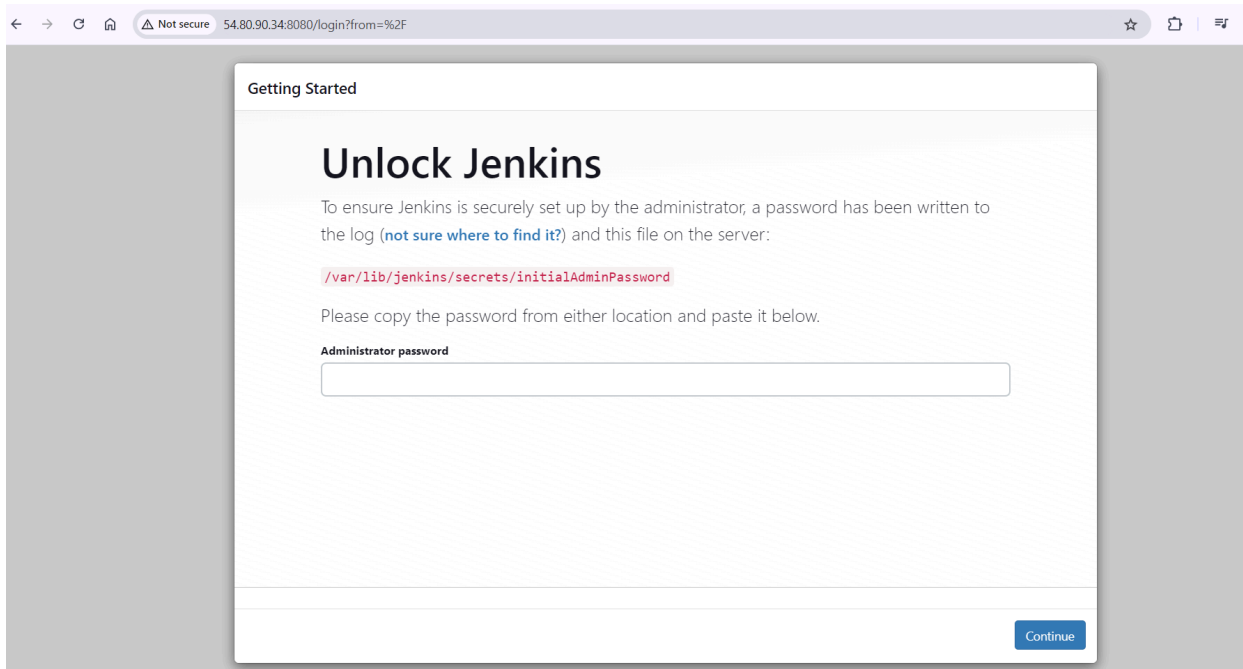
To Be able to use jenkins you need to unlock it first.
Copy path

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

Go to EC2

And enter below command to find the admin password

Keyboard shortcut
To tab out of the terminal window and select the next button element, press the left and right Shift keys together.

```
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.
ubuntu@ip-172-31-15-64:~$ nano install.sh
ubuntu@ip-172-31-15-64:~$ install.sh
install.sh: command not found
ubuntu@ip-172-31-15-64:~$ bash install.sh
Synchronizing state of jenkins.service with SysV service script with /usr/lib/systemd/systemd-sysv-install.
Executing: /usr/lib/systemd/systemd-sysv-install enable jenkins
● jenkins.service - Jenkins Continuous Integration Server
     Loaded: loaded (/usr/lib/systemd/system/jenkins.service; enabled; preset: enabled)
     Active: active (running) since Mon 2024-10-07 05:50:11 UTC; 42ms ago
   Main PID: 5741 (java)
      Tasks: 41 (limit: 1130)
     Memory: 316.3M (peak: 325.9M)
        CPU: 16.776s
     CGroup: /system.slice/jenkins.service
             └─5741 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war --httpPort=8080

Oct 07 05:50:04 ip-172-31-15-64 jenkins[5741]: Jenkins initial setup is required. An admin user has been created and a password generated.
Oct 07 05:50:04 ip-172-31-15-64 jenkins[5741]: Please use the following password to proceed to installation:
Oct 07 05:50:04 ip-172-31-15-64 jenkins[5741]: 34e5beb60562436680ba79d013db3eba
Oct 07 05:50:04 ip-172-31-15-64 jenkins[5741]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Oct 07 05:50:04 ip-172-31-15-64 jenkins[5741]: ***********************************************************
Oct 07 05:50:04 ip-172-31-15-64 jenkins[5741]: ***********************************************************
Oct 07 05:50:04 ip-172-31-15-64 jenkins[5741]: ***********************************************************
Oct 07 05:50:11 ip-172-31-15-64 jenkins[5741]: 2024-10-07 05:50:11.765+0000 [id=32]     INFO    jenkins.InitReactorRunner$1#onAttained: Completed initialization
Oct 07 05:50:11 ip-172-31-15-64 jenkins[5741]: 2024-10-07 05:50:11.809+0000 [id=24]     INFO    hudson.lifecycle.Lifecycle#onReady: Jenkins is fully up and running
Oct 07 05:50:11 ip-172-31-15-64 systemd[1]: Started jenkins.service - Jenkins Continuous Integration Server.
ubuntu@ip-172-31-15-64:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
34e5beb60562436680ba79d013db3eba
ubuntu@ip-172-31-15-64:~$
```

i-0e1b0ecd40a432600 (Jenkins-EC2)

⚠ Not secure 54.80.90.34:8080/login?from=%2F
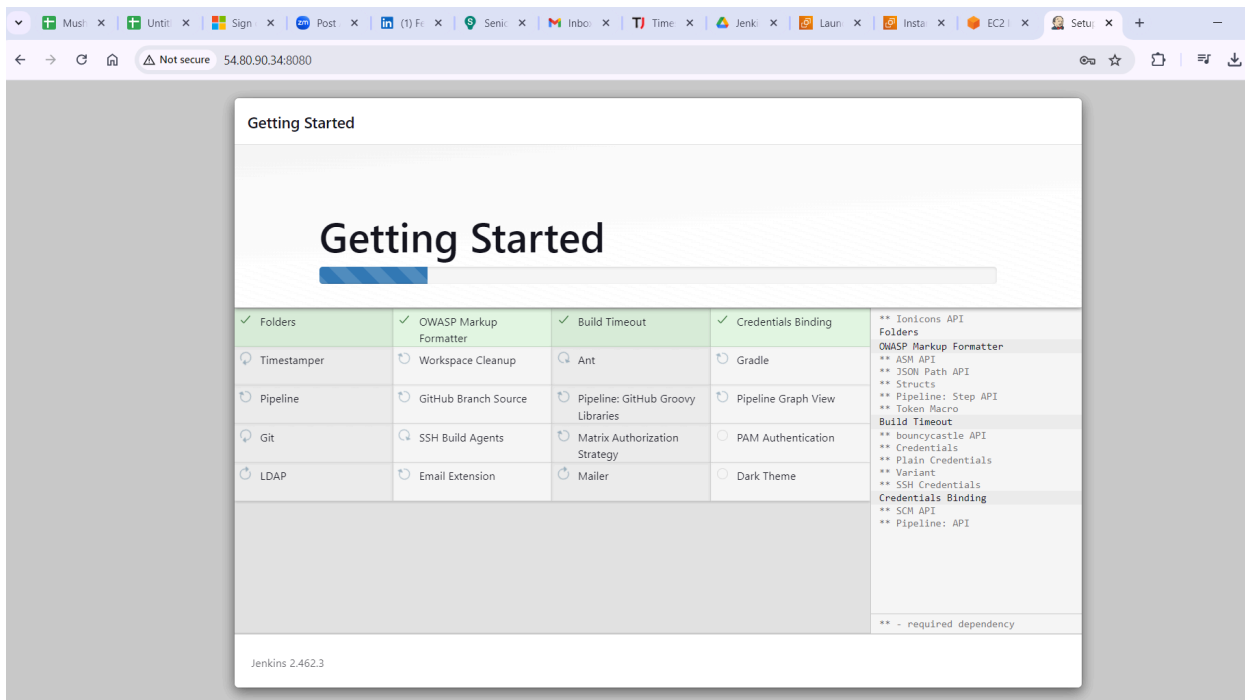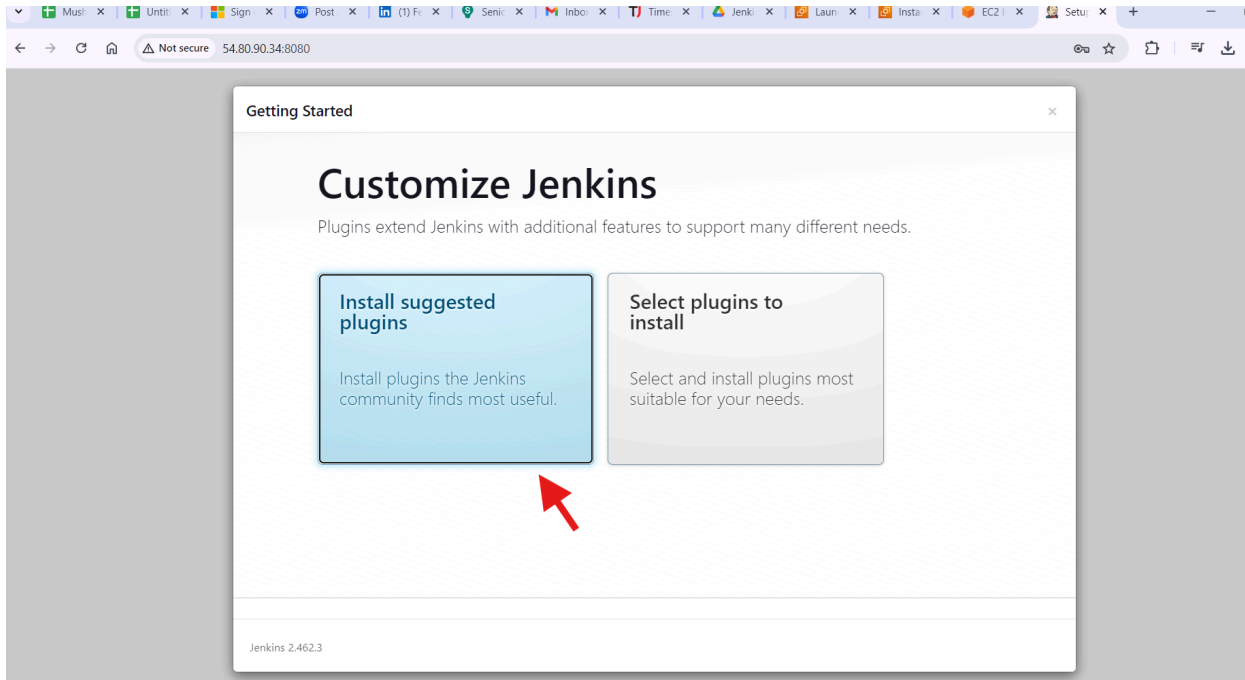
Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:

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

Please copy the password from either location and paste it below.

Administrator password

[••••••••••••••••••••••••••••••]

Continue

Getting Started

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Jenkins 2.462.3

Getting Started

Getting Started

Folders	OWASP Markup Formatter	Build Timeout	Credentials Binding	** Ionicons API
				Folders
				OWASP Markup Formatter
Timestamper	Workspace Cleanup	Ant	Gradle	** ASM API
				** JSON Path API
				** Structs
Pipeline	GitHub Branch Source	Pipeline: GitHub Groovy Libraries	Pipeline Graph View	** Pipeline: Step API
				** Token Macro
				Build Timeout
Git	SSH Build Agents	Matrix Authorization Strategy	PAM Authentication	** bouncycastle API
				** Credentials
				** Plain Credentials
				** Variant
LDAP	Email Extension	Mailer	Dark Theme	** SSH Credentials
				Credentials Binding
				** SCM API
				** Pipeline: API

** - required dependency

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Getting Started

Create First Admin User

Username

Password

Confirm password

Full name

E-mail address

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Skip and continue as admin   Save and Continue

Jenkins

Search (CTRL+K)

admin   log out

Dashboard

+ New Item

Build History

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Add description

Start building your software project

Create a job   +

Set up a distributed build

Set up an agent   🖥

Configure a cloud   ☁

Learn more about distributed builds   ?

REST API   Jenkins 2.462.3