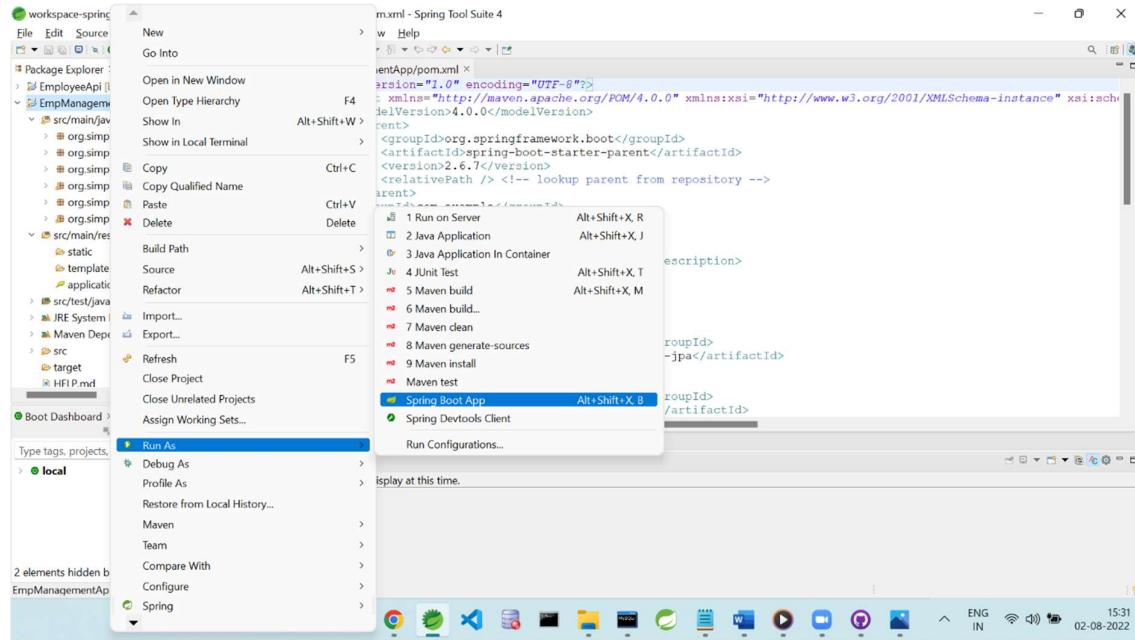


CI/CD Deployment for Springboot Application

SCREENSHOTS

1. Running Spring Boot Project



```
workspace-spring-tool-suite-4-4.14.1.RELEASE - EmpManagementApp/pom.xml - Spring Tool Suite 4
File Edit Navigate Search Project Run Window Help
Console X
EmpManagementApp - EmpManagementAppApplication [Spring Boot App] C:\Users\Sateesh Althi\Downloads\sts-4.14.1.RELEASE\plugins\org.eclipse.jdt.core\jdt.launcher\bin\java.exe
[15:31:46.265 [Thread-0] DEBUG org.springframework.boot.devtools.restart.classloader.RestartClassLoader - Created RestartClassLoader org.springframework.boot.devtools.restart.classloader.RestartClassLoader@12345678
:: Spring Boot :: (v2.6.7)

2022-08-02 15:31:46.549 INFO 25380 --- [ restartedMain] o.s.EmpManagementAppApplication : Starting EmpManagementAppApplication using Java 17.0.
2022-08-02 15:31:46.550 INFO 25380 --- [ restartedMain] o.s.EmpManagementAppApplication : No active profile set, falling back to 1 default profile: 'devtools'.
2022-08-02 15:31:46.558 INFO 25380 --- [ restartedMain] e.DevToolsPropertyDefaultsPostProcessor : Devtools property defaults active! Set 'spring.devtools.restart.enabled' to false to disable.
2022-08-02 15:31:46.558 INFO 25380 --- [ restartedMain] e.DevToolsPropertyDefaultsPostProcessor : For additional web related logging consider setting 'logging.level.org.springframework.boot.devtools.log=DEBUG'.
2022-08-02 15:31:47.113 INFO 25380 --- [ restartedMain] s.d.r.c.RepositoryConfigurationDelegate : Bootstrapping Spring Data JPA repositories in DEFAULT mode.
2022-08-02 15:31:47.154 INFO 25380 --- [ restartedMain] a.d.r.c.RepositoryConfigurationDelegate : Finished Spring Data repository scanning in 33 ms. Found 1 JPA repository interfaces.
2022-08-02 15:31:47.651 INFO 25380 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat initialized with port(s): 1020 (http).
2022-08-02 15:31:47.661 INFO 25380 --- [ restartedMain] o.apache.catalina.core.StandardService : Starting service [Tomcat]
2022-08-02 15:31:47.661 INFO 25380 --- [ restartedMain] o.apache.catalina.core.StandardEngine : Starting Servlet engine: [Apache Tomcat/9.0.62]
2022-08-02 15:31:47.923 INFO 25380 --- [ restartedMain] o.a.c.c.C.[Tomcat].[localhost].[/app] : At least one JAR was scanned for TLDs yet contained no Servlets or annotations.
2022-08-02 15:31:47.933 INFO 25380 --- [ restartedMain] w.s.c.ServletWebServerApplicationContext : Initializing Spring embedded WebApplicationContext
2022-08-02 15:31:48.055 INFO 25380 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource : Root WebApplicationContext: initialization completed in 1 ms.
2022-08-02 15:31:48.366 INFO 25380 --- [ restartedMain] com.zaxxer.hikari.HikariDataSource : HikariPool-1 - Start completed.
2022-08-02 15:31:48.435 INFO 25380 --- [ restartedMain] o.hibernate.jpa.internal.util.LogHelper : HHH000204: Processing PersistenceUnitInfo [name: defautl]
2022-08-02 15:31:48.510 INFO 25380 --- [ restartedMain] o.hibernate.Version : HHH000412: Hibernate ORM core version 5.6.8.Final
2022-08-02 15:31:48.766 INFO 25380 --- [ restartedMain] o.hibernate.annotations.common.Version : HCANN000001: Hibernate Commons Annotations (5.1.2.Final)
2022-08-02 15:31:49.295 INFO 25380 --- [ restartedMain] o.hibernate.dialect.Dialect : HHH000400: Using dialect: org.hibernate.dialect.MySQL5InnoDBDialect
2022-08-02 15:31:49.501 INFO 25380 --- [ restartedMain] o.h.e.t.j.p.i.JtaPlatformInitiator : HHH000490: Using JtaPlatform implementation: [org.hibernate.engine.transaction.jta.platform.internal.JtaPlatformFactory]
2022-08-02 15:31:49.510 INFO 25380 --- [ restartedMain] j.LocalContainerEntityManagerFactoryBean : Initialized JPA EntityManagerFactory for persistence unit 'defautl'.
2022-08-02 15:31:49.845 WARN 25380 --- [ restartedMain] o.p.BaseConfigurationJpaWebConfiguration : OpaBaseConfiguration$JpaWebConfiguration
2022-08-02 15:31:50.199 INFO 25380 --- [ restartedMain] o.s.b.d.a.OptionalLiveReloadServer : LiveReload server is running on port 35729.
2022-08-02 15:31:50.274 INFO 25380 --- [ restartedMain] o.s.b.w.embedded.tomcat.TomcatWebServer : Tomcat started on port(s): 1020 (http) with context path ''.
2022-08-02 15:31:50.286 INFO 25380 --- [ restartedMain] o.s.EmpManagementAppApplication : Started EmpManagementAppApplication in 4.014 seconds
```

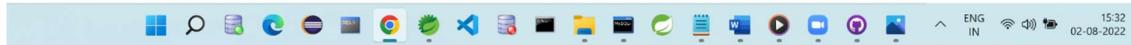
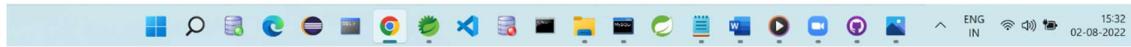
2.Output Using Local Host

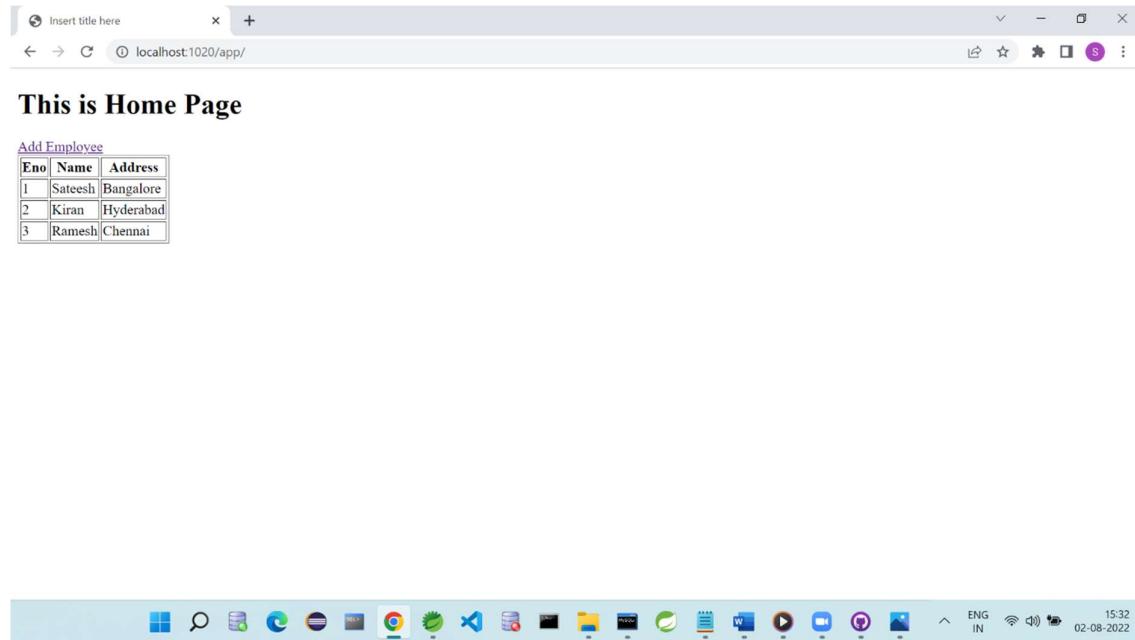


This is Home Page

Add Employee

Eno	Name	Address
1	Sateesh	Bangalore
2	Kiran	Hyderabad





3. Maven Build Process

workspace-spring-tool-suite-4-4.14.1.RELEASE - Spring Tool Suite 4

```

File Edit Navigate Search Project Run Window Help
# Package Explorer X
# EmployeeApi [boot]
  EmpManagementApp [boot] [devtools]
    src/main/java
    src/main/resources
    src/test/java
    JRE System Library [JavaSE-1.8]
    Maven Dependencies
    src
      target
    HELP.md
    mvnw
    mvnw.cmd
    pom.xml
    sporty_shoes [boot]
  Console X
<terminated> EmpManagementApp (2) [Maven Build] C:\Users\Sateesh Althi\Downloads\sts-4.14.1.RELEASE\plugins\org.eclipse.jdt.openjdk.hotspot.jre.full.win32.x86_64_17.0.2
[INFO] Scanning for projects...
[INFO] ------------------------------------------------------------------------
[INFO] < com.example:EmpManagementApp >-
[INFO] Building EmpManagementApp 0.0.1-SNAPSHOT
[INFO] --- [ jar ] ---
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-clean-plugin-3.1.0.jar
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-clean-plugin/3.1.0/maven-clean-plugin-3.1.0.jar (1.0 kB at 1.0 kB/s)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.5.2/maven-install-plugin-2.5.2.jar
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/plugins/maven-install-plugin/2.5.2/maven-install-plugin-2.5.2.jar (1.0 kB at 1.0 kB/s)
[INFO] --- maven-clean-plugin:3.1.0:clean (default-clean) @ EmpManagementApp ---
[INFO] Deleting D:\A SIMPLILEARN\Phase3\EmpManagementApp\target
[INFO] --- maven-resources-plugin:3.2.0:resources (default-resources) @ EmpManagementApp ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] Copying 1 resource
[INFO] Copying 0 resources
[INFO] --- maven-compiler-plugin:3.8.1:compile (default-compile) @ EmpManagementApp ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 7 source files to D:\A SIMPLILEARN\Phase3\EmpManagementApp\target\classes
[INFO] --- maven-resources-plugin:3.2.0:testResources (default-testResources) @ EmpManagementApp ---
[INFO] Using 'UTF-8' encoding to copy filtered resources.
[INFO] Using 'UTF-8' encoding to copy filtered properties files.
[INFO] skip non existing resourceDirectory D:\A SIMPLILEARN\Phase3\EmpManagementApp\src\test\resources
[INFO] --- maven-compiler-plugin:3.8.1:testCompile (default-testCompile) @ EmpManagementApp ---
[INFO] Changes detected - recompiling the module!
[INFO] Compiling 1 source file to D:\A SIMPLILEARN\Phase3\EmpManagementApp\target\test-classes
[INFO] --- maven-surefire-plugin:2.22.2:test (default-test) @ EmpManagementApp ---
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/surefire/maven-surefire-common/2.22.2/maven-surefire-common-2.22.2.jar
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/apache/maven/surefire/maven-surefire-common/2.22.2/maven-surefire-common-2.22.2.jar (1.0 kB at 1.0 kB/s)

```


4. Maven Build Success

```
<terminated> EmpManagementApp [boot] C:\Users\Sateesh Althi\Downloads\sts-4.4.14.1.RELEASE\plugins/org.eclipse.justjavac/jdkhotspot.jre.full.win32.x86_64_17.0.2
[INFO] Downloaded from : https://repo.maven.apache.org/maven2/org/ow2/asm/asm-util/8.0/asm-util-8.0.jar (85 KB at: 17.0.2)
[INFO] Downloading from : https://repo.maven.apache.org/maven2/com/google/errorprone/error_prone_annotations/2.3.4/
[INFO] Downloading from : https://repo.maven.apache.org/maven2/com/google/guava/failureaccess/1.0.1/failureaccess-1.0.1.jar
[INFO] Downloading from : https://repo.maven.apache.org/maven2/com/google/j2objc/j2objc-annotations/1.3/j2objc-ann
[INFO] Downloading from : https://repo.maven.apache.org/maven2/com/google/guava/listenablefuture/9999.0-empty-to-av
[INFO] Downloading from : https://repo.maven.apache.org/maven2/com/apache/commons-lang3/3.7/commons-lang3-3.7.jar
[INFO] Downloading from : https://repo.maven.apache.org/maven2/com/google/guava/guava/28.2-android/guava-28.2-android.jar
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/checkerframework/checker-compat/2.5.5/checker-compat-2.5.5.jar
[INFO] Downloading from : https://repo.maven.apache.org/maven2/com/google/errorprone/error_prone_annotations/2.3.4/
[INFO] Downloading from : https://repo.maven.apache.org/maven2/com/google/j2objc/j2objc-annotations/1.3/j2objc-anno
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/commons/commons-lang3/3.7/commons-lang3-3.7.jar
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:2.5.2:install (default-install) @ EmpManagementApp ---
[INFO] Downloading from : https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.p
[INFO] Downloading from : https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.por
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/commons/commons-parent/22/commons-parent-
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/commons/commons-parent/22/commons-parent-1
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-util/0.4/maven
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-util/0.4/maven
[INFO] Downloading from : https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.ja
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-util
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-util/0.4/maven
[INFO] Downloading from : https://repo.maven.apache.org/maven2/commons-codec/commons-codec/1.6/commons-codec-1.6.ja
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/apache/maven/shared/maven-shared-util/0.4/maven
[INFO] Downloading from : https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils/3.0.15/plexus-util
[INFO] Installing D:\A SIMPLILEARN\Phase3\EmpManagementApp\target\EmpManagementApp-0.0.1-SNAPSHOT.jar to C:\Users\Sateesh Althi\.m2\repository\com\example\EmpManagementApp\0.0.1\EmpManagementApp-0.0.1-SNAPSHOT.jar
[INFO] Installing D:\A SIMPLILEARN\Phase3\EmpManagementApp\pom.xml to C:\Users\Sateesh Althi\.m2\repository\com\example\EmpManagementApp\0.0.1\pom.xml
[INFO]
[INFO] BUILD SUCCESS
[INFO]
[INFO] Total time: 02:28 min
[INFO] Finished at: 2022-08-02T15:53:10+05:30
[INFO]
```

5. AfterClone Build

6.AWS EC2 Instance Creation Process

This launch experience will soon be reaching end of life
We've introduced a new launch experience with new and updated features. You can opt in now by choosing Opt in to the new experience.
Currently, you can opt out to the old experience at any time. Please send us your feedback about the new experience so that we can continue to improve it.

Step 1: Choose an Amazon Machine Image (AMI)

Image	Name	Description	Select
	Ubuntu Server 20.04 LTS (HVM), SSD Volume Type - ami-08d4ac5b634553e16 (64-bit x86) / ami-0888c389af05d881a (64-bit Arm)	Ubuntu Server 20.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services). Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	<input checked="" type="button"/> Select
	Microsoft Windows Server 2019 Base - ami-05912b6333beaa478	Microsoft Windows 2019 Datacenter edition. [English] Root device type: ebs Virtualization type: hvm ENA Enabled: Yes	<input type="button"/> Select

Feedback Looking for language selection? Find it in the new [Unified Settings](#) © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Step 2: Choose an Instance Type

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
t2	t2.micro	1	1	EBS only	-	Low to Moderate	Yes
t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes
t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes

Feedback Looking for language selection? Find it in the new [Unified Settings](#) © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

MAVENJOB #7 Console [Jenkins] | SateeshAlthi/EmpManagementA | Practice Labs | Launch instance wizard | EC2 Main | +

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

AWS Services Search for services, features, blogs, docs, and more [Alt+5]

N. Virginia Corestack_Role/asvs887_gmail @ 0083-4936-4069

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-03eacad87c44517d	16	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel Previous Review and Launch Next: Add Tags

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 10:30 03-08-2022

MAVENJOB #7 Console [Jenkins] | SateeshAlthi/EmpManagementA | Practice Labs | Launch instance wizard | EC2 Main | +

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

AWS Services Search for services, features, blogs, docs, and more [Alt+5]

N. Virginia Corestack_Role/asvs887_gmail @ 0083-4936-4069

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances	Volumes	Network Interfaces
Name	jenkins-server	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (Up to 50 tags maximum)

Cancel Previous Review and Launch Next: Configure Security Group

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences ENG IN 10:30 03-08-2022

MAVENJOB #7 Console [Jenkins] | SateeshAlthi/EmpManagementA | Practice Labs | Launch instance wizard | EC2 Mai... | +

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

AWS Services Search for services, features, blogs, docs, and more [Alt+S]

N. Virginia Corestack_Role/asvs887_gmail @ 0083-4936-4069

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group Select an existing security group

Security group name: jenkins-server-5g

Description: launch-wizard-1 created 2022-08-03T10:30:43.317+05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	My IP 49.207.217.182/32	self ip
Custom TCP F	TCP	80	Anywhere 0.0.0.0/:/0	open to all
Custom TCP F	TCP	8080	Anywhere 0.0.0.0/:/0	open to all

Add Rule Cancel Previous Review and Launch

Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

ENG IN 10:32 03-08-2022

MAVENJOB #7 Console [Jenkins] | SateeshAlthi/EmpManagementA | Practice Labs | Launch instance wizard | EC2 Mai... | +

us-east-1.console.aws.amazon.com/ec2/v2/home?region=us-east-1#LaunchInstanceWizard:

AWS Services Search for services, features, blogs, docs, and more [Alt+S]

N. Virginia Corestack_Role/asvs887_gmail @ 0083-4936-4069

Launch Status

Initiating Instance Launches

Please do not close your browser while this is loading

Creating security groups... Successful

Authorizing inbound rules... Successful

Initiating launches...

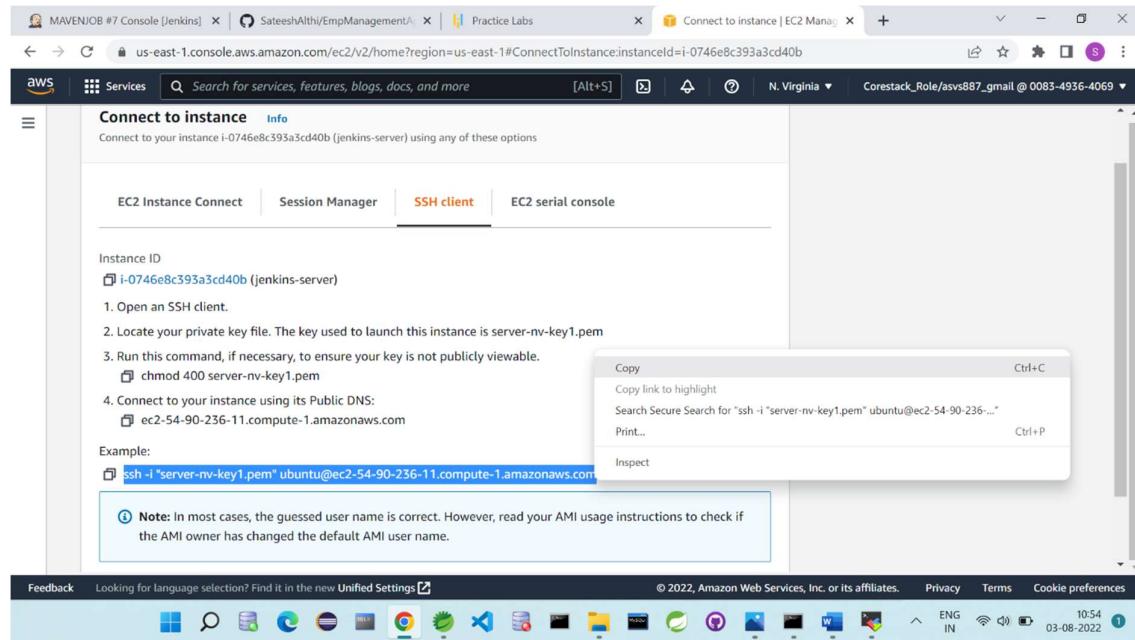
Feedback Looking for language selection? Find it in the new Unified Settings © 2022, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

ENG IN 10:35 03-08-2022

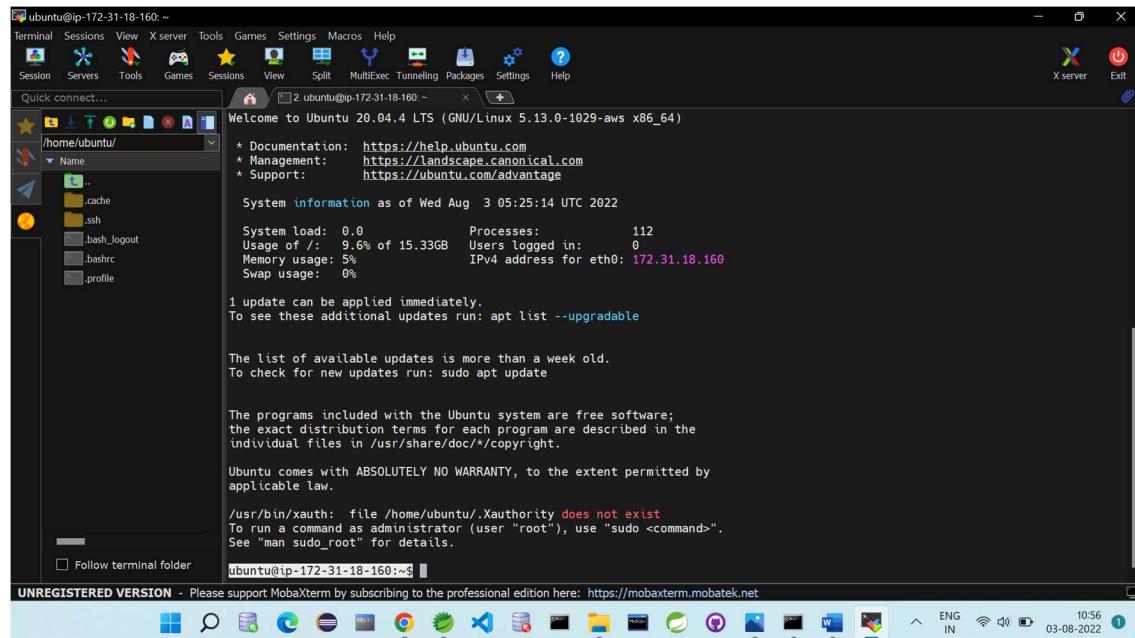
The screenshot shows the AWS Launch Instance Wizard interface. At the top, there are four tabs: MAVENJOB #7 Console [Jenkins], SateeshAlthi/EmpManagementA, Practice Labs, and Launch instance wizard | EC2 Manag. The main content area is titled "Launch Status". It displays a green success message: "Your instances are now launching. The following instance launches have been initiated: i-0746e8c393a3cd40b" with a "View launch log" link. Below this, there's an information message: "Get notified of estimated charges. Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier)." A section titled "How to connect to your instances" provides instructions: "Your instances are launching, and it may take a few minutes until they are in the running state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances." It also suggests monitoring instances via the "View Instances" link. A sidebar on the left lists helpful resources like "How to connect to your Linux instance" and "Amazon EC2: User Guide". The bottom of the screen shows the AWS navigation bar with links for Feedback, Unified Settings, Privacy, Terms, and Cookie preferences, along with system status icons.

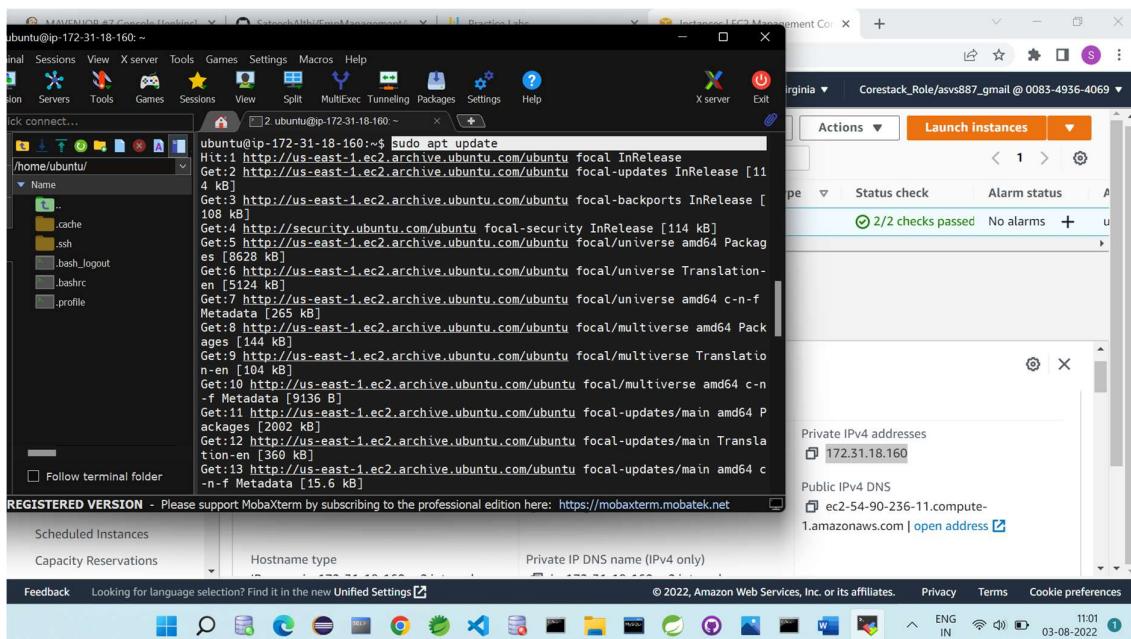
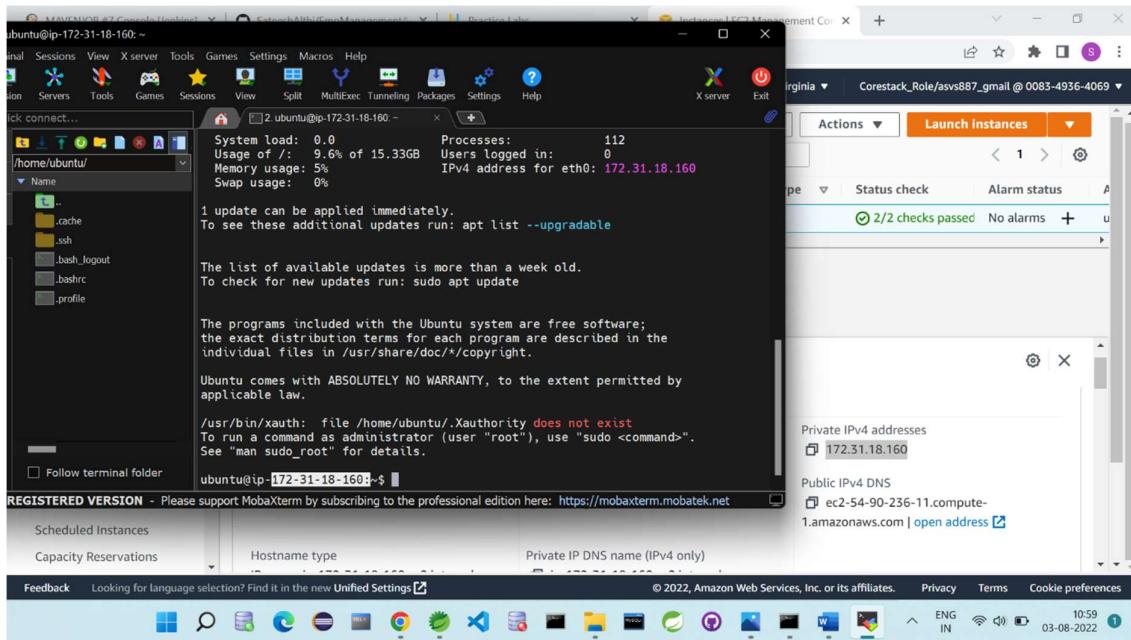
7. EC2 Instance Running

The screenshot shows the AWS EC2 Management Console. The top navigation bar includes tabs for MAVENJOB #7 Console [Jenkins], SateeshAlthi/EmpManagementA, Practice Labs, and Instances | EC2 Management Con. The main content area is titled "Instances (1/1) Info". It shows a single instance named "jenkins-server" with the ID "i-0746e8c393a3cd40b", which is currently "Running". The "Actions" dropdown menu is open, showing options like "Launch instances", "Stop instances", "Terminate instances", and "Reboot instances". On the left, a sidebar titled "Instances" lists various EC2 management options: New EC2 Experience, EC2 Dashboard, EC2 Global View, Events, Tags, Limits, and a detailed "Instances" section with sub-links for Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, and Capacity Reservations. The bottom of the screen shows the AWS navigation bar with links for Feedback, Unified Settings, Privacy, Terms, and Cookie preferences, along with system status icons.



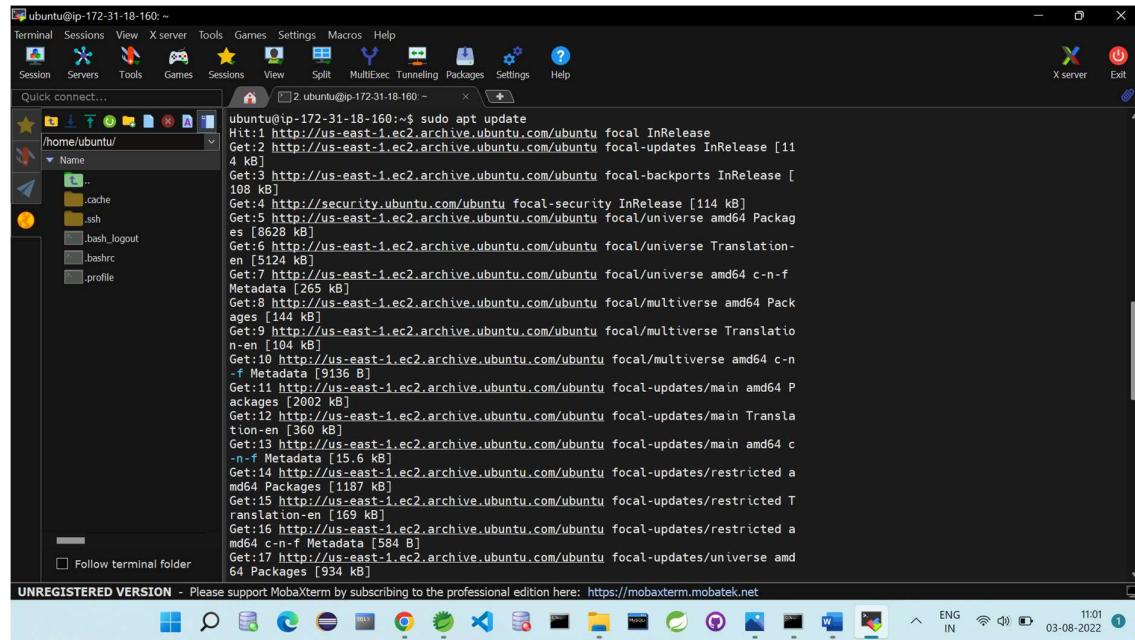
8. Connected to EC2 instance from Local Machine





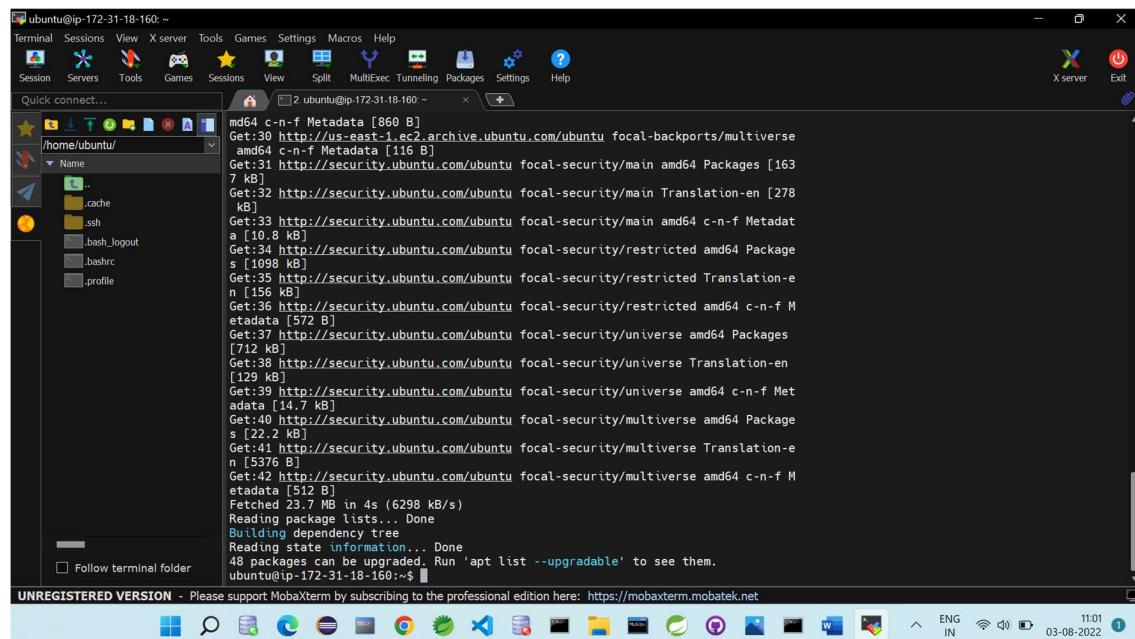
```
ubuntu@ip-172-31-18-160: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2 ubuntu@ip-172-31-18-160 - X
ubuntu@ip-172-31-18-160:~$ sudo apt update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Get:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease [11
4 kB]
Get:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:4 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:5 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 Packag
es [8628 kB]
Get:6 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe Translation-
en [5124 kB]
Get:7 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/universe amd64 c-n-f
Metadata [265 kB]
Get:8 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 Pack
ages [144 kB]
Get:9 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse Translatio
n-en [104 kB]
Get:10 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/multiverse amd64 c-n
-f Metadata [9136 kB]
Get:11 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 P
ackages [2002 kB]
Get:12 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main Transla
tion-en [360 kB]
Get:13 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/main amd64 c
-n-f Metadata [15.6 kB]
Get:14 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted a
md64 Packages [1197 kB]
Get:15 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted T
ranslation-en [169 kB]
Get:16 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/restricted a
md64 c-n-f Metadata [584 kB]
Get:17 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd
64 Packages [934 kB]
Follow terminal folder
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

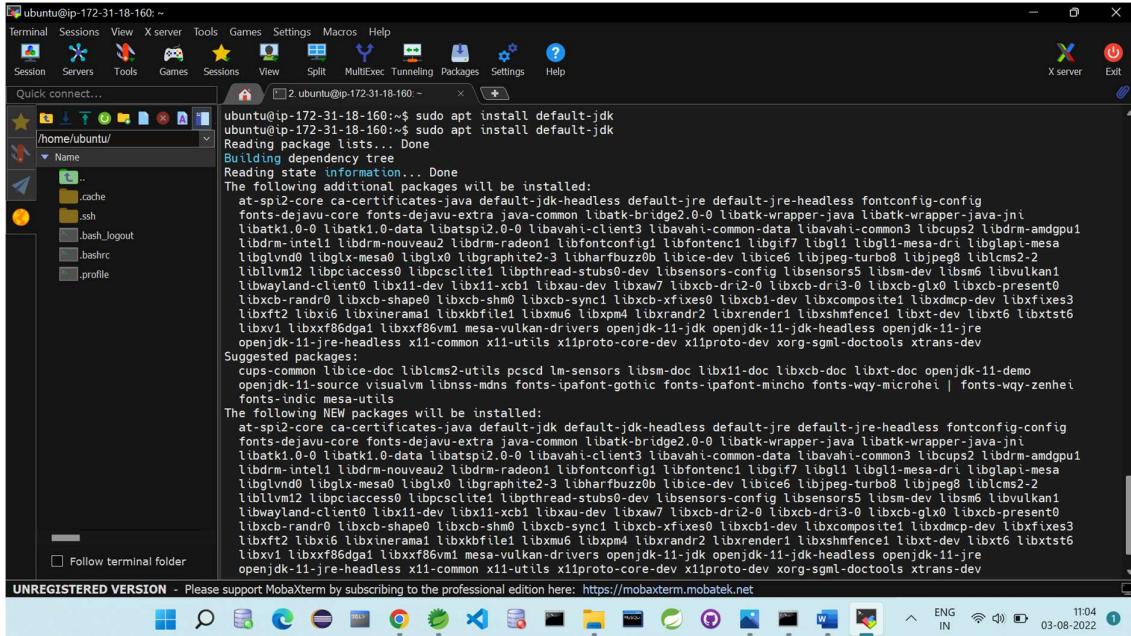


```
ubuntu@ip-172-31-18-160: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
X server Exit
Quick connect...
2 ubuntu@ip-172-31-18-160 - X
md64 c-n-f Metadata [860 B]
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports/multiverse
amd64 c-n-f Metadata [116 B]
Get:2 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [163
7 kB]
Get:3 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [278
kB]
Get:4 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadat
a [10.8 kB]
Get:5 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 Package
s [1098 kB]
Get:6 http://security.ubuntu.com/ubuntu focal-security/restricted Translation-e
n [156 kB]
Get:7 http://security.ubuntu.com/ubuntu focal-security/restricted amd64 c-n-f M
etadata [572 kB]
Get:8 http://security.ubuntu.com/ubuntu focal-security/universe amd64 Packages
[712 kB]
Get:9 http://security.ubuntu.com/ubuntu focal-security/universe Translation-en
[129 kB]
Get:10 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Met
adata [14.7 kB]
Get:11 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 Package
s [22.2 kB]
Get:12 http://security.ubuntu.com/ubuntu focal-security/multiverse Translation-e
n [5376 kB]
Get:13 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f M
etadata [512 kB]
Fetched 23.7 MB in 4s (6298 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
48 packages can be upgraded. Run 'apt list --upgradable' to see them.
ubuntu@ip-172-31-18-160:~$
```

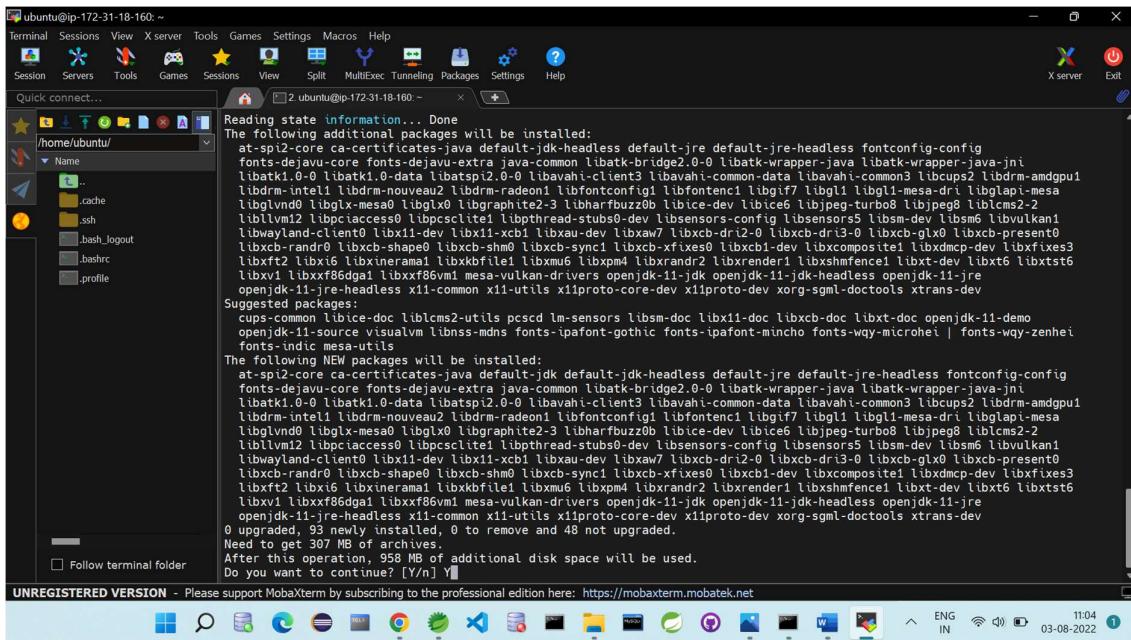
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>



9. Installing Java & Maven on EC2 VM



```
ubuntu@ip-172-31-18-160:~$ sudo apt install default-jdk
ubuntu@ip-172-31-18-160:~$ sudo apt install default-jdk
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  at-sp1-core ca-certificates-java default-jdk-headless default-jre default-jre-headless fontconfig-config
  fonts-dejavu-core fonts-dejavu-extra java-common libatk-bridge2.0-0 libatk-wrapper-java libatk-wrapper-java-jni
  libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common3 libcurl2 libdrm-amdgpu1
  libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libfontconfig1 libfontenc1 libgl1_mesa-dri libglapi-mesa
  libglvnd0 libglx-mesa0 libglx0 libglraphite2-3 libharfbuzz0b libice-dev libice libjpeg-turbo8 libjpeg8 liblcms2-2
  liblvm1 liblpcaccess0 libpcslite1 libpthread-stubs0-dev libsensors-config libsensors5 libsm-dev libsm libvulkan1
  libwayland-client0 libxi1-dev libx11-xcb1 libxau-dev libxaw7 libxcb-dr1-2.0 libxcb-dr13-0 libxcb-glx0 libxcb-present0
  libxcb-randr0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcb1-dev libcomposite1 libxdmcp-dev libxfices3
  libxf2.0 libxf86dgai libxxinerama1 libxbxkfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6 libxtst6
  libxv1 libxf86dgai libxxf86vm1 mesa-vulkan-drivers openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre
  openjdk-11-jre-headless x11-common x11-utils x1proto-core-dev x1proto-dev xorg-sgml-doctools xtrans-dev
Suggested packages:
  cups-common libice-doc liblcms2-utils pcsxd lm-sensors libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-11-demo
  openjdk-11-source visualvm libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei
  fonts-indic mesa-utils
The following NEW packages will be installed:
  at-sp1-core ca-certificates-java default-jdk default-jdk-headless default-jre default-jre-headless fontconfig-config
  fonts-dejavu-core fonts-dejavu-extra java-common libatk-bridge2.0-0 libatk-wrapper-java libatk-wrapper-java-jni
  libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common3 libcurl2 libdrm-amdgpu1
  libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libfontconfig1 libfontenc1 libgl1_mesa-dri libglapi-mesa
  libglvnd0 libglx-mesa0 libglx0 libglraphite2-3 libharfbuzz0b libice-dev libice libjpeg-turbo8 libjpeg8 liblcms2-2
  liblvm1 liblpcaccess0 libpcslite1 libpthread-stubs0-dev libsensors-config libsensors5 libsm-dev libsm libvulkan1
  libwayland-client0 libxi1-dev libx11-xcb1 libxau-dev libxaw7 libxcb-dr1-2.0 libxcb-dr13-0 libxcb-glx0 libxcb-present0
  libxcb-randr0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcb1-dev libcomposite1 libxdmcp-dev libxfices3
  libxf2.0 libxf86dgai libxxinerama1 libxbxkfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6 libxtst6
  libxv1 libxf86dgai libxxf86vm1 mesa-vulkan-drivers openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre
  openjdk-11-jre-headless x11-common x11-utils x1proto-core-dev x1proto-dev xorg-sgml-doctools xtrans-dev
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
```



```
ubuntu@ip-172-31-18-160:~$ sudo apt install default-jdk
ubuntu@ip-172-31-18-160:~$ sudo apt install default-jdk
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  at-sp1-core ca-certificates-java default-jdk-headless default-jre default-jre-headless fontconfig-config
  fonts-dejavu-core fonts-dejavu-extra java-common libatk-bridge2.0-0 libatk-wrapper-java libatk-wrapper-java-jni
  libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common3 libcurl2 libdrm-amdgpu1
  libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libfontconfig1 libfontenc1 libgl1_mesa-dri libglapi-mesa
  libglvnd0 libglx-mesa0 libglx0 libglraphite2-3 libharfbuzz0b libice-dev libice libjpeg-turbo8 libjpeg8 liblcms2-2
  liblvm1 liblpcaccess0 libpcslite1 libpthread-stubs0-dev libsensors-config libsensors5 libsm-dev libsm libvulkan1
  libwayland-client0 libxi1-dev libx11-xcb1 libxau-dev libxaw7 libxcb-dr1-2.0 libxcb-dr13-0 libxcb-glx0 libxcb-present0
  libxcb-randr0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcb1-dev libcomposite1 libxdmcp-dev libxfices3
  libxf2.0 libxf86dgai libxxinerama1 libxbxkfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6 libxtst6
  libxv1 libxf86dgai libxxf86vm1 mesa-vulkan-drivers openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre
  openjdk-11-jre-headless x11-common x11-utils x1proto-core-dev x1proto-dev xorg-sgml-doctools xtrans-dev
Suggested packages:
  cups-common libice-doc liblcms2-utils pcsxd lm-sensors libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-11-demo
  openjdk-11-source visualvm libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei
  fonts-indic mesa-utils
The following NEW packages will be installed:
  at-sp1-core ca-certificates-java default-jdk default-jdk-headless default-jre default-jre-headless fontconfig-config
  fonts-dejavu-core fonts-dejavu-extra java-common libatk-bridge2.0-0 libatk-wrapper-java libatk-wrapper-java-jni
  libatk1.0-0 libatk1.0-data libatspi2.0-0 libavahi-client3 libavahi-common3 libcurl2 libdrm-amdgpu1
  libdrm-intel1 libdrm-nouveau2 libdrm-radeon1 libfontconfig1 libfontenc1 libgl1_mesa-dri libglapi-mesa
  libglvnd0 libglx-mesa0 libglx0 libglraphite2-3 libharfbuzz0b libice-dev libice libjpeg-turbo8 libjpeg8 liblcms2-2
  liblvm1 liblpcaccess0 libpcslite1 libpthread-stubs0-dev libsensors-config libsensors5 libsm-dev libsm libvulkan1
  libwayland-client0 libxi1-dev libx11-xcb1 libxau-dev libxaw7 libxcb-dr1-2.0 libxcb-dr13-0 libxcb-glx0 libxcb-present0
  libxcb-randr0 libxcb-shape0 libxcb-shm0 libxcb-sync1 libxcb-xfixes0 libxcb1-dev libcomposite1 libxdmcp-dev libxfices3
  libxf2.0 libxf86dgai libxxinerama1 libxbxkfile1 libxmu6 libxpm4 libxrandr2 libxrender1 libxshmfence1 libxt-dev libxt6 libxtst6
  libxv1 libxf86dgai libxxf86vm1 mesa-vulkan-drivers openjdk-11-jdk openjdk-11-jdk-headless openjdk-11-jre
  openjdk-11-jre-headless x11-common x11-utils x1proto-core-dev x1proto-dev xorg-sgml-doctools xtrans-dev
0 upgraded, 93 newly installed, 0 to remove and 48 not upgraded.
Need to get 307 MB of archives.
After this operation, 958 MB of additional disk space will be used.
Do you want to continue? [Y/n] Y
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: https://mobaxterm.mobatek.net
```

```
ubuntu@ip-172-31-18-160: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
2 ubuntu@ip-172-31-18-160 ~
Adding debian:GCA_TrustAUTH_R5_ROOT.pem
Adding debian:COMODO RSA Certification_Authority.pem
Adding debian:GlobalSign_Root_E46.pem
Adding debian:e-Szigno Root CA_2017.pem
Adding debian:certSIGN_ROOT_CA.pem
Adding debian:AC_RAIZ_FNMTR-RCM.pem
Adding debian:TrustCorr_ECA-1.pem
Adding debian:NetLock_Arany_eClass_Gold_Fótanúsítvány.pem
Adding debian:SSL_com_Root_Certification_Authority_ECC.pem
Adding debian:GlobalSign_Root_CA - R2.pem
Adding debian:Trustwave_Global_ECC_P256_Certification_Authority.pem
Adding debian:SSL_com_EV_Root_Certification_Authority_ECC.pem
Adding debian:QuoVadis_Root_CA_2_G3.pem
Adding debian:QuoVadis_Root_CA_1_G3.pem
Adding debian:T-Telesec_GlobalRoot_Class_2.pem
Adding debian:GlobalSign_Root_CA.pem
Adding debian:Certum_Trusted_Root_CA.pem
done.
Setting up default-jdk (2:1.11-72) ...
Processing triggers for systemd (245.4-4ubuntu3.17) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for ca-certificates (20211016~20.04.1) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...

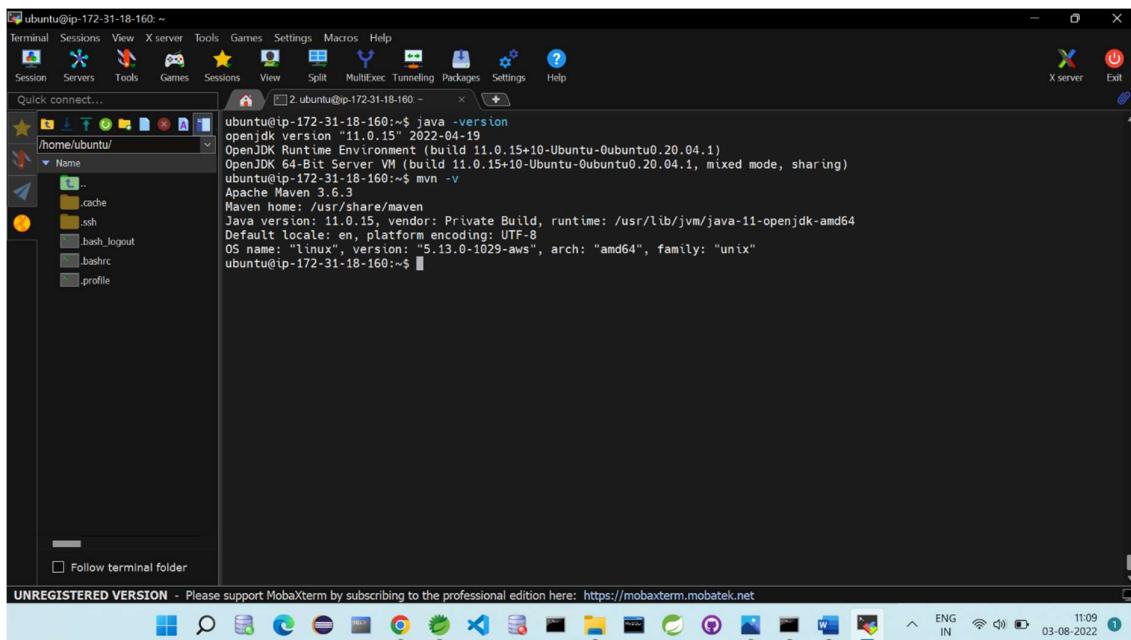
done.
done.
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
ubuntu@ip-172-31-18-160:~$
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

```
ubuntu@ip-172-31-18-160: ~
Terminal Sessions View X server Tools Games Settings Macros Help
Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help
Quick connect...
2 ubuntu@ip-172-31-18-160 ~
ubuntu@ip-172-31-18-160:~$ sudo apt install maven -y
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

10. Java & Maven installed EC2 VM



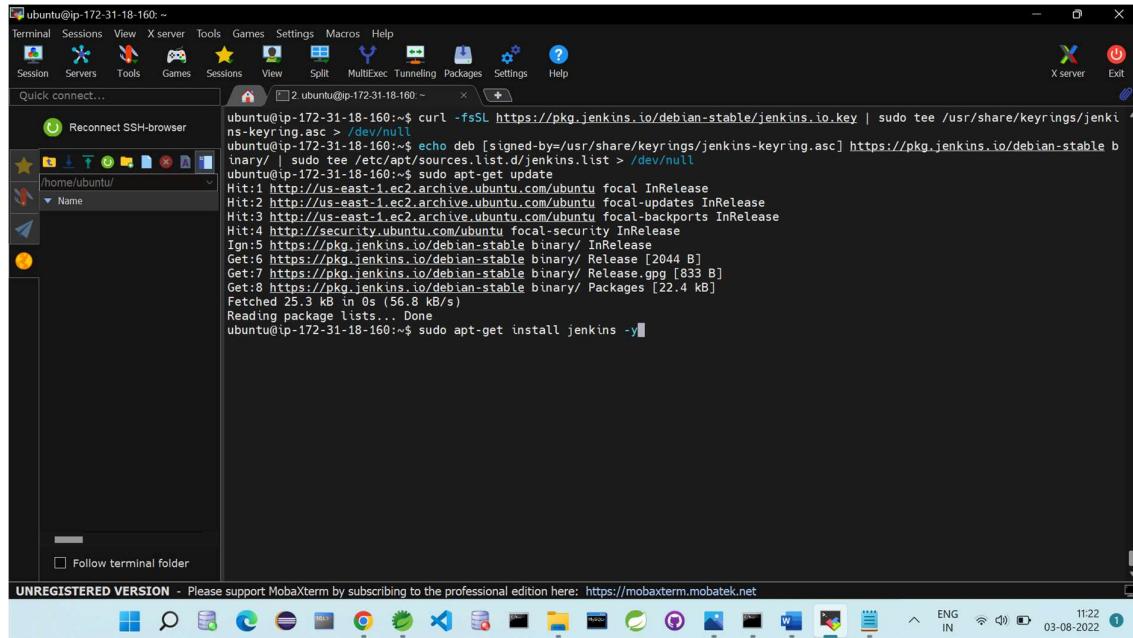
11. Jenkins installation commands

The screenshot shows a browser window with the URL 'jenkins.io/doc/book/installing/linux/'. The page title is 'User Handbook'. The left sidebar contains a navigation menu with links like 'User Handbook overview', 'Installing Jenkins' (which is expanded to show 'Docker', 'Kubernetes', 'Linux', 'macOS', 'WAR files', 'Windows', 'Other Systems', 'Offline Installations', 'Initial Settings'), 'Using Jenkins', 'Pipeline', 'Blue Ocean', 'Managing Jenkins', 'Securing Jenkins', 'System Administration', 'Scaling Jenkins', 'Troubleshooting Jenkins', 'Appendix', and 'Glossary'. The main content area discusses 'Long Term Support release' and 'Weekly release'. It includes a section on how to install Jenkins on Debian/Ubuntu using apt, with a copyable command:

```
curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io.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
sudo apt-get install jenkins
```

At the bottom of the page, there is a note about weekly releases: '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.'

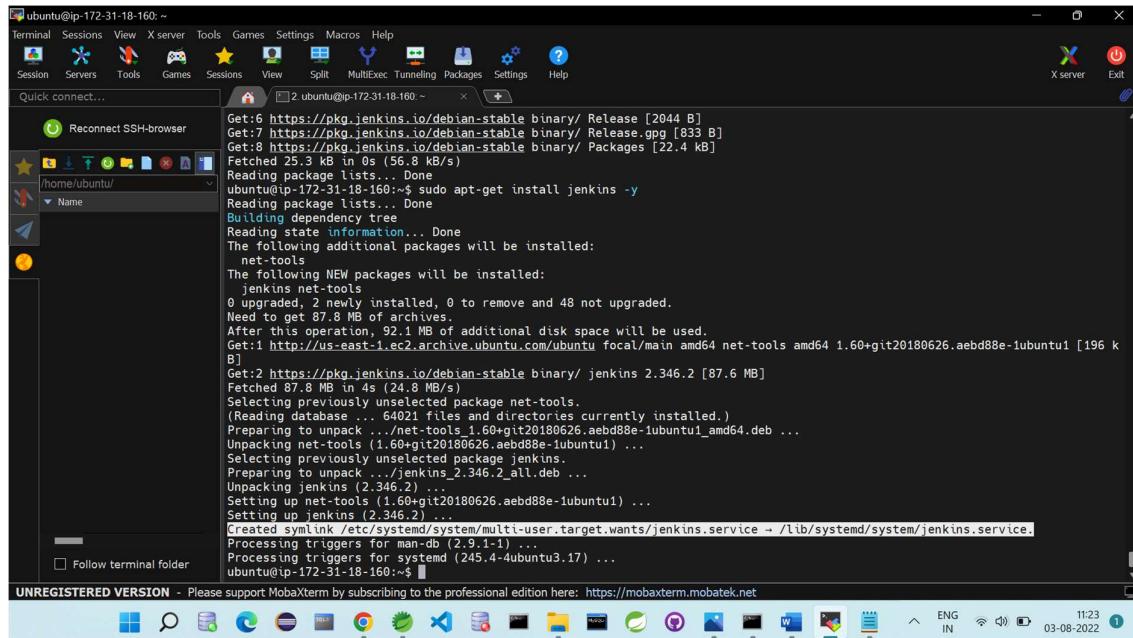
12. Installing Jenkins on EC2 VM



ubuntu@ip-172-31-18-160: ~

```
ubuntu@ip-172-31-18-160: ~$ curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io.key | sudo tee /usr/share/keyrings/jenkins-keyring.asc > /dev/null
ubuntu@ip-172-31-18-160: ~$ echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] https://pkg.jenkins.io/debian-stable b
inary/ | sudo tee /etc/apt/sources.list d/jenkins.list > /dev/null
ubuntu@ip-172-31-18-160: ~$ sudo apt-get update
Hit:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal InRelease
Hit:2 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-updates InRelease
Hit:3 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu focal-security InRelease
Ign:5 https://pkg.jenkins.io/debian-stable binary/ InRelease
Get:6 https://pkg.jenkins.io/debian-stable binary/ Release [2044 B]
Get:7 https://pkg.jenkins.io/debian-stable binary/ Release.gpg [833 B]
Get:8 https://pkg.jenkins.io/debian-stable binary/ Packages [22.4 kB]
Fetched 25.3 kB in 0s (56.8 kB/s)
Reading package lists...
Reading package lists... Done
ubuntu@ip-172-31-18-160: ~$ sudo apt-get install jenkins -y
```

UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>



ubuntu@ip-172-31-18-160: ~

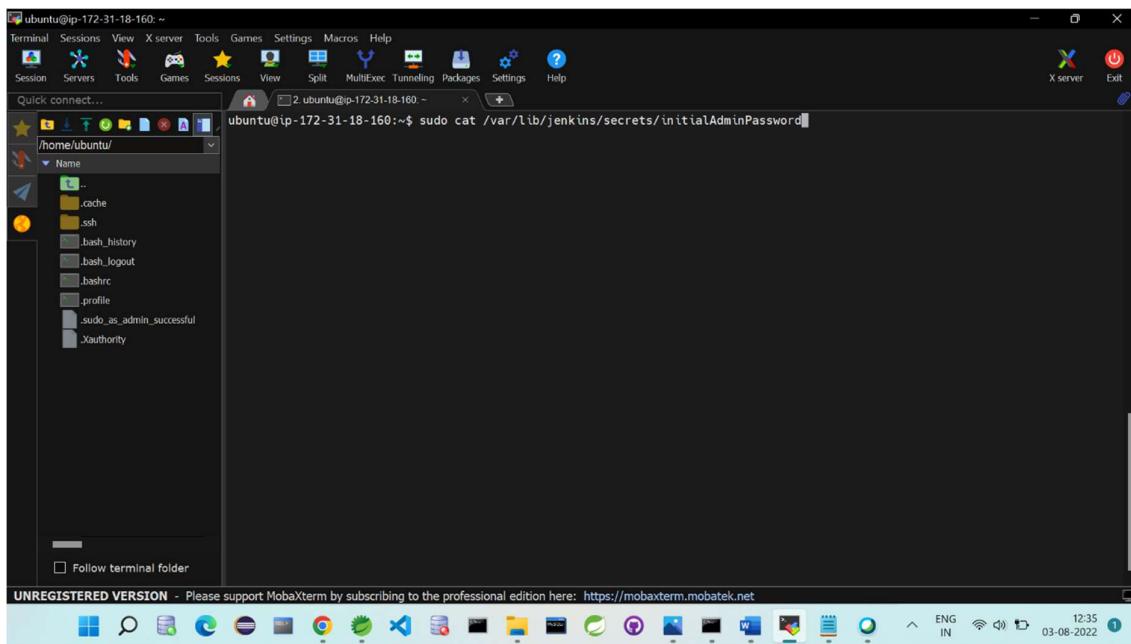
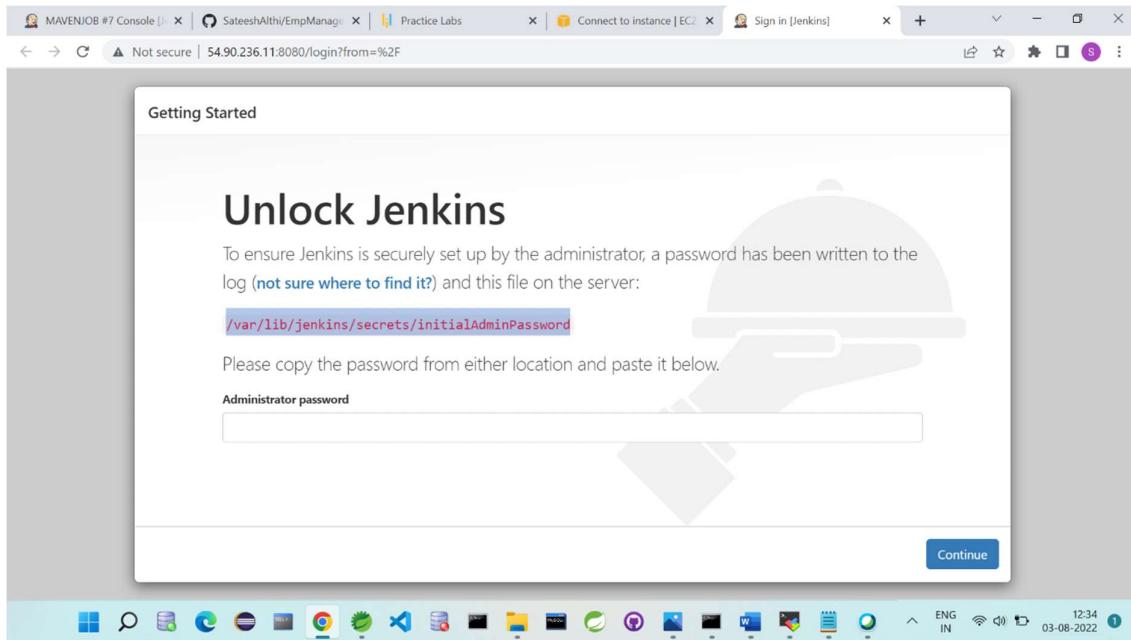
```
ubuntu@ip-172-31-18-160: ~$ curl -fsSL https://pkg.jenkins.io/debian-stable/binary/ Release [2044 B]
ubuntu@ip-172-31-18-160: ~$ curl -fsSL https://pkg.jenkins.io/debian-stable/binary/ Release.gpg [833 B]
ubuntu@ip-172-31-18-160: ~$ curl -fsSL https://pkg.jenkins.io/debian-stable/binary/ Packages [22.4 kB]
Fetched 25.3 kB in 0s (56.8 kB/s)
Reading package lists...
Reading package lists... Done
Building dependency tree
Reading state information...
The following additional packages will be installed:
  net-tools
The following NEW packages will be installed:
  jenkins net-tools
0 upgraded, 2 newly installed, 0 to remove and 48 not upgraded.
Need to get 87.8 MB of archives.
After this operation, 92.1 MB of additional disk space will be used.
Get:1 http://us-east-1.ec2.archive.ubuntu.com/ubuntu focal/main amd64 net-tools amd64 1.60+git20180626.aebd88e-1ubuntu1 [196 kB]
Get:2 https://pkg.jenkins.io/debian-stable/binary/ jenkins 2.346.2 [87.6 MB]
Fetched 87.8 MB in 4s (24.8 MB/s)
Selecting previously unselected package net-tools.
(Reading database ... 64021 files and directories currently installed.)
Preparing to unpack .../net-tools_1.60+git20180626.aebd88e-1ubuntu1_amd64.deb ...
Unpacking net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Selecting previously unselected package jenkins.
Preparing to unpack .../jenkins_2.346.2_all.deb ...
Unpacking jenkins (2.346.2) ...
Setting up net-tools (1.60+git20180626.aebd88e-1ubuntu1) ...
Setting up jenkins (2.346.2) ...
Created symlink /etc/systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for systemd (245.4-4ubuntu3.17) ...
ubuntu@ip-172-31-18-160: ~$
```

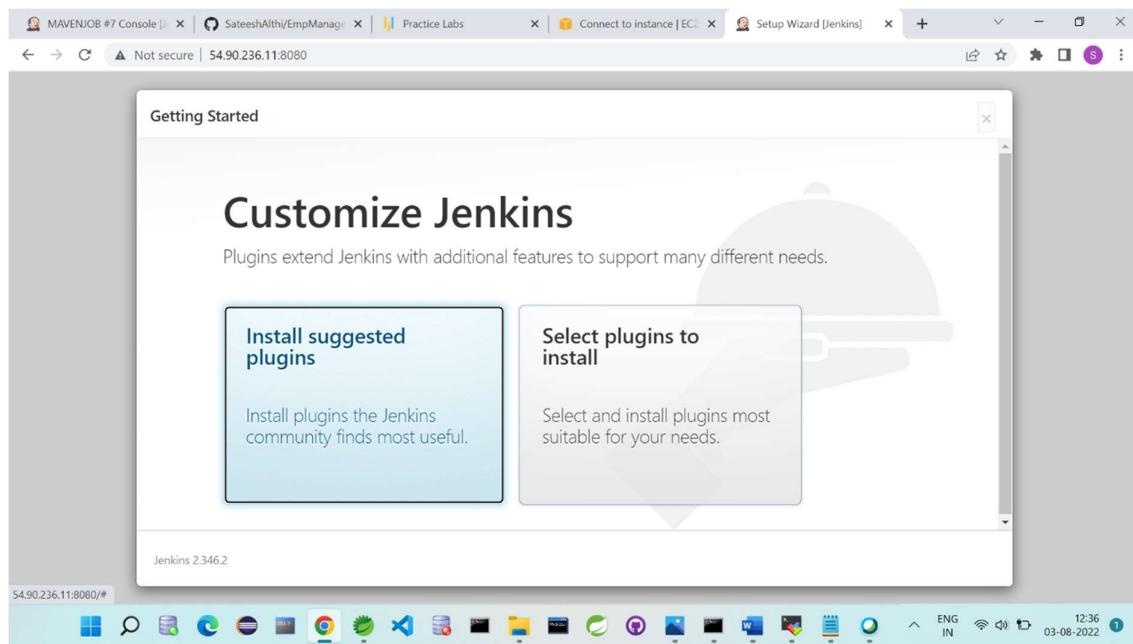
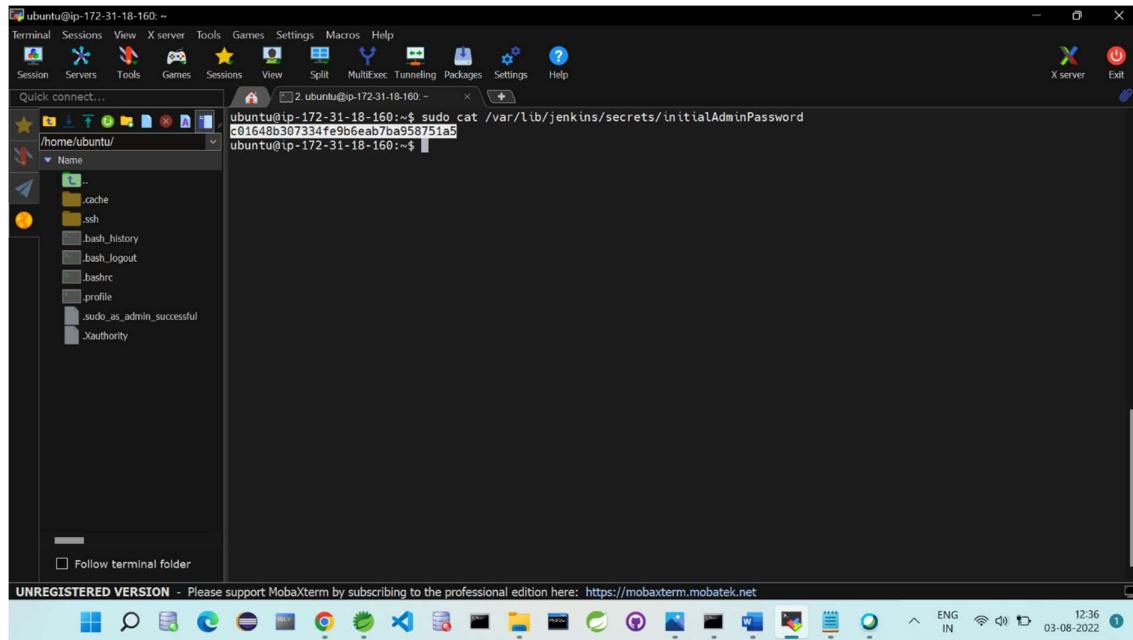
UNREGISTERED VERSION - Please support MobaXterm by subscribing to the professional edition here: <https://mobaxterm.mobatek.net>

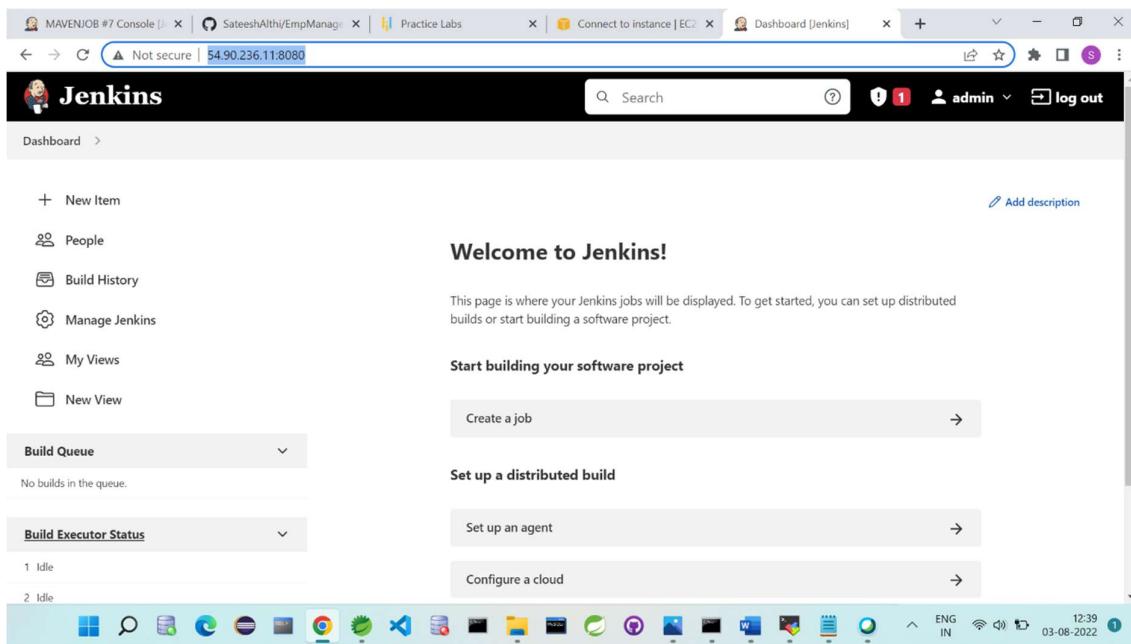
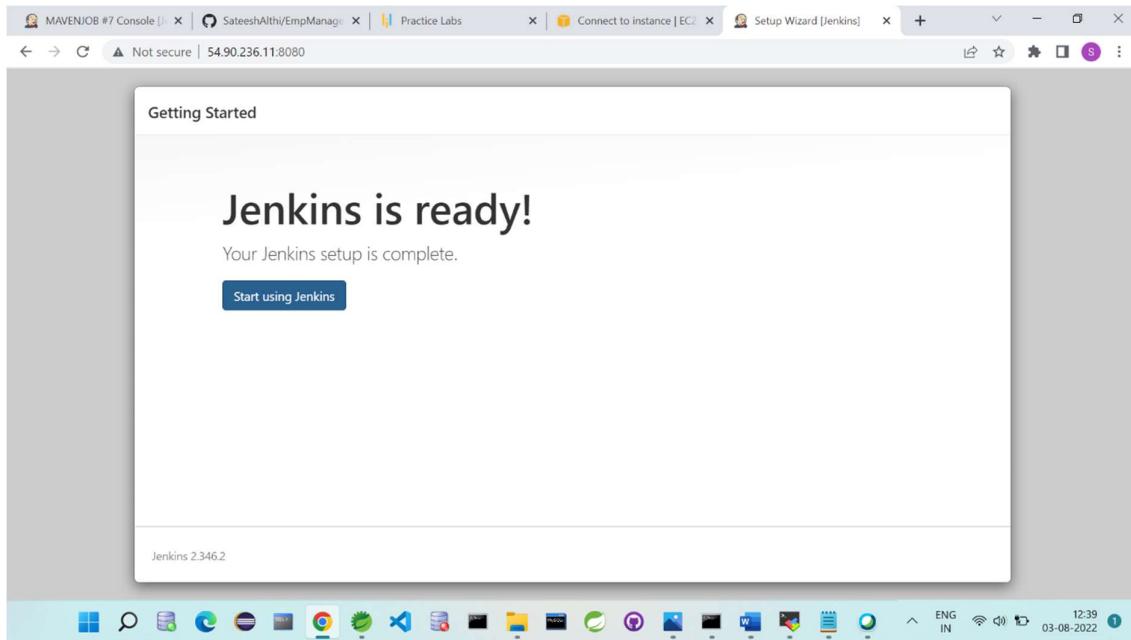
```
ubuntu@ip-172-31-18-160:~ Terminal Sessions View X server Tools Games Settings Macros Help Session Servers Tools Games Sessions View Split MultiExec Tunneling Packages Settings Help Quick connect... 2: ubuntu@ip-172-31-18-160:~ x + Reconnect SSH-browser ● jenkins.service - Jenkins Continuous Integration Server
   Loaded: loaded (/lib/systemd/system/jenkins.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2022-08-03 05:52:38 UTC; 2min 11s ago
     Main PID: 17589 (java)
        Tasks: 42 (limit: 4691)
       Memory: 1.2G
      CGroup: /system.slice/jenkins.service
              └─17589 /usr/bin/java -Djava.awt.headless=true -jar /usr/share/java/jenkins.war --webroot=/var/cache/jenkins/war

Aug 03 05:52:20 ip-172-31-18-160 jenkins[17589]: This may also be found at: /var/lib/jenkins/secrets/initialAdminPassword
Aug 03 05:52:20 ip-172-31-18-160 jenkins[17589]: ****
Aug 03 05:52:38 ip-172-31-18-160 jenkins[17589]: 2022-08-03 05:52:38.011+0000 [id=45] INFO h.m.DownloadServices
Aug 03 05:52:38 ip-172-31-18-160 jenkins[17589]: 2022-08-03 05:52:38.011+0000 [id=45] INFO hudson.util.Retrive
Aug 03 05:52:38 ip-172-31-18-160 jenkins[17589]: 2022-08-03 05:52:38.013+0000 [id=45] INFO hudson.model.AsyncPe
Aug 03 05:52:38 ip-172-31-18-160 jenkins[17589]: 2022-08-03 05:52:38.068+0000 [id=29] INFO jenkins.InitReactorR
Aug 03 05:52:38 ip-172-31-18-160 jenkins[17589]: 2022-08-03 05:52:38.086+0000 [id=22] INFO hudson.lifecycle.Lif
Aug 03 05:52:38 ip-172-31-18-160 systemd[1]: Started Jenkins Continuous Integration Server.
[lines 1-19/19 (END)]
```

13.Jenkins Installed on EC2 VM and running on port no. 8080.







14. Creating Pipeline Job

The screenshot shows the Jenkins dashboard with a new job creation dialog open. The dialog title is "Enter an item name" and contains a single input field with the value "EmpManagementApp Job". Below the input field is a message indicating it is a required field. Three project types are listed: "Freestyle project", "Pipeline", and "Multi-configuration project". The "Pipeline" option is selected, and its description states: "Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type." A blue "OK" button is visible at the bottom of the dialog. The Jenkins logo is in the top left, and the top navigation bar includes links for MAVENJOB #7 Console, SateeshAlithi/EmpManage, Practice Labs, Connect to instance | EC2, New Item [Jenkins], and log out.

The screenshot shows the Jenkins dashboard with the "EmpManagementApp Job" page open. The page title is "Project EmpManagementApp Job". On the left, there is a sidebar with links: "Back to Dashboard", "Status" (which is currently selected), "Changes", "Workspace", "Build Now", "Configure", "Delete Project", and "Rename". The main content area displays the status message: "This is a test pipeline job." It also shows a "Workspace" section with a folder icon and the text "Workspace", and a "Recent Changes" section with a diff icon and the text "Recent Changes". At the bottom right of the main content area are "Edit description" and "Disable Project" buttons. The Jenkins logo is in the top left, and the top navigation bar includes links for MAVENJOB #7 Console, SateeshAlithi/EmpManage, Practice Labs, Connect to instance | EC2, EmpManagementApp Job, and log out. The status bar at the bottom shows ENG IN, 12:45, and 03-08-2022.

15. Providing the Project Github link for to Build

The screenshot shows the Jenkins job configuration interface for 'EmpManagementApp Job'. The 'Source Code Management' tab is selected. Under the 'Git' section, the 'Repository URL' field contains the value 'https://github.com/SateeshAlthi/EmpManagementApp'. The 'Save' button is visible at the bottom.

The screenshot shows the Jenkins console output for build #1. The log indicates a successful build process:

```
Started by user admin
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/EmpManagementApp Job
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/SateeshAlthi/EmpManagementApp
> git init /var/lib/jenkins/workspace/EmpManagementApp Job # timeout=10
Fetching upstream changes from https://github.com/SateeshAlthi/EmpManagementApp
> git -version # timeout=10
> git -version # 'git version 2.25.1'
> git fetch --tags --force --progress -- https://github.com/SateeshAlthi/EmpManagementApp refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/SateeshAlthi/EmpManagementApp # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 04cd46773c5cbase69952d54aaaaef7614471 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 04cd46773c5cbase69952d54aaaaef7614471 # timeout=10
Commit message: "Updated!!"
First time build. Skipping changelog.
Finished: SUCCESS
```

16. Build Success

The screenshot shows a Jenkins job named "EmpManagementApp Job" with a successful build #1 from August 3, 2022, at 7:16:30 AM. The build status is green with a checkmark icon. The build took 3.4 seconds. The Jenkins version is 2.346.2. The interface includes a navigation bar with links like "Dashboard", "EmpManagementApp Job", and "#1". On the left, there's a sidebar with options like "Status", "Changes", "Console Output", "Edit Build Information", "Delete build '#1'", and "Git Build Data". The main content area displays build details such as revision, repository URL, and commit message.

17. We can able to see our project in Workspace

The screenshot shows the workspace for the "EmpManagementApp Job" on a built-in node. The workspace path is "EmpManagementApp Job /". The workspace contains several files and directories: ".git", ".mvn/wrapper", "src", ".gitignore", "mvnw", "mvnw.cmd", and "pom.xml". The "pom.xml" file was last modified on Aug 3, 2022, at 7:16:30 AM. The Jenkins version is 2.346.2. The interface includes a navigation bar with links like "Dashboard", "EmpManagementApp Job", and "#1". On the left, there's a sidebar with options like "Status", "Changes", "Workspace", "Build Now", "Configure", "Delete Project", and "Rename". The main content area displays the workspace contents with file details and a "zip" link.

18. Output using AWS IPv4 Address.



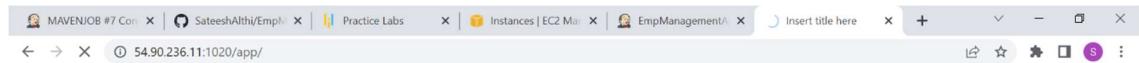
This is Home Page

Add Employee		
Eno	Name	Address
1	Sateesh	Bangalore
2	Kiran	Hyderabad
3	Ramesh	Chennai



Name:	Suresh
Address:	Mumbai
<input type="button" value="submit"/>	





This is Home Page

Add Employee

Eno	Name	Address
1	Sateesh	Bangalore
2	Kiran	Hyderabad
3	Ramesh	Chennai
4	Suresh	Mumbai

