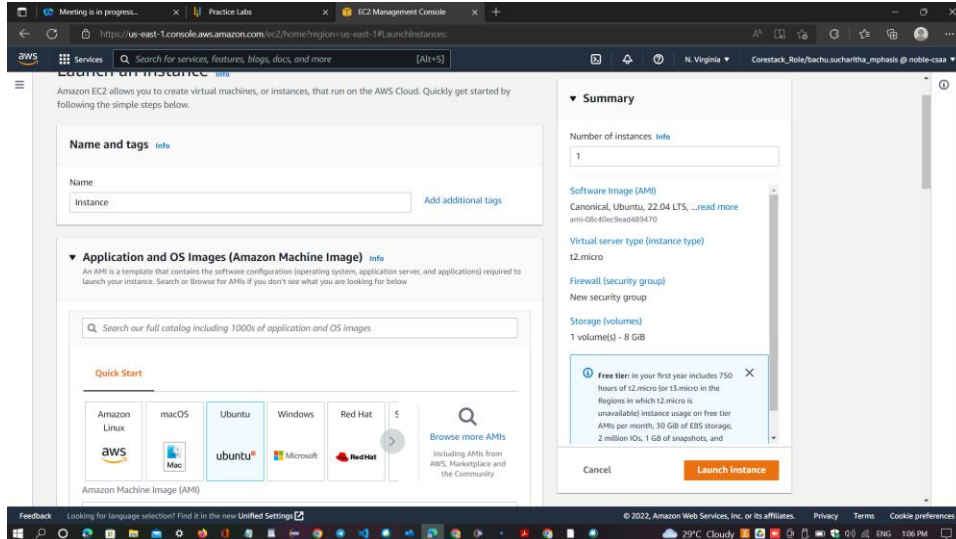
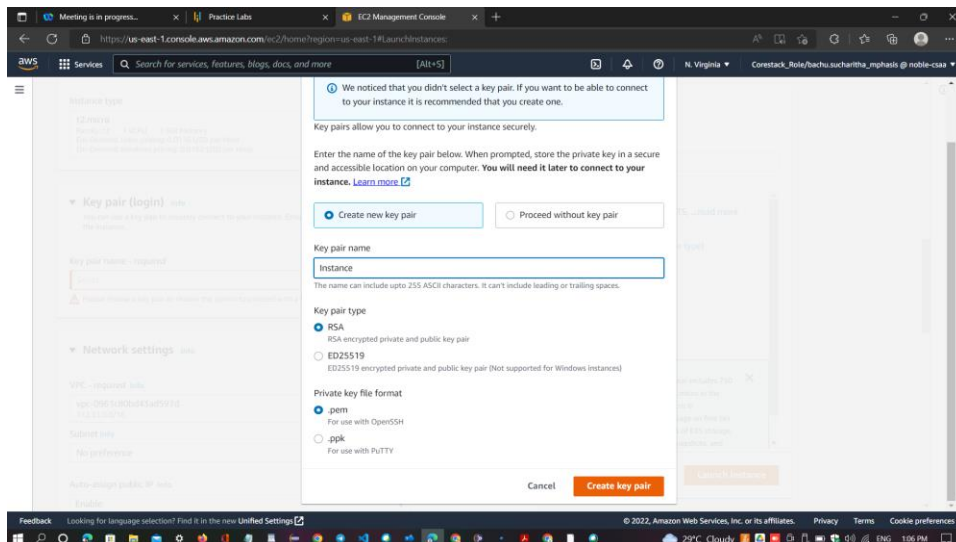


# ScreenShots

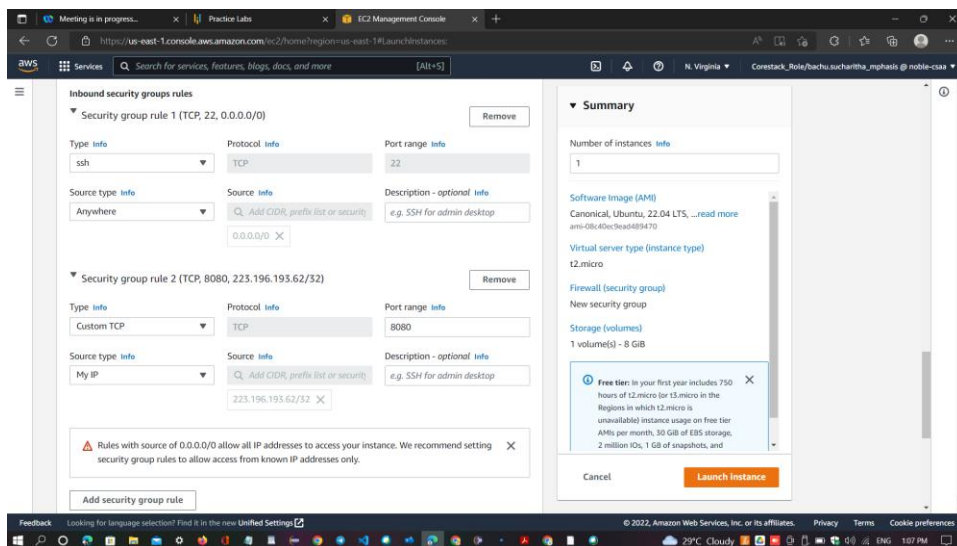
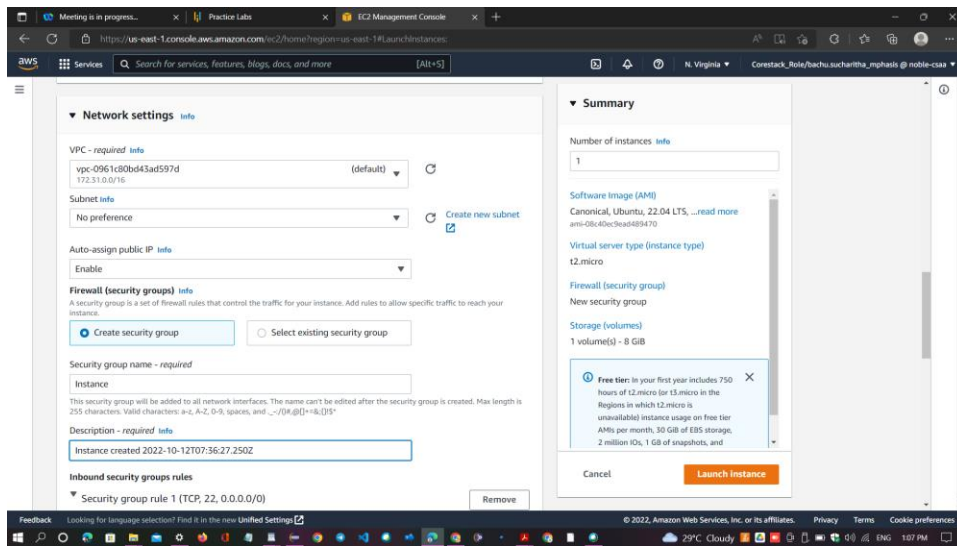
## CREATE AN AWS UBUNTU INSTANCE WITH PORT NO:8080



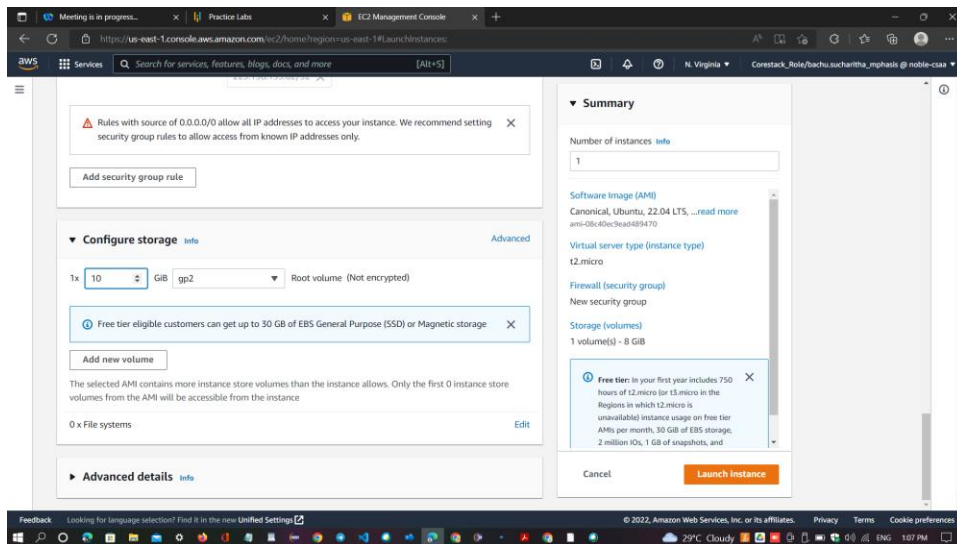
## Create a Key Pair:



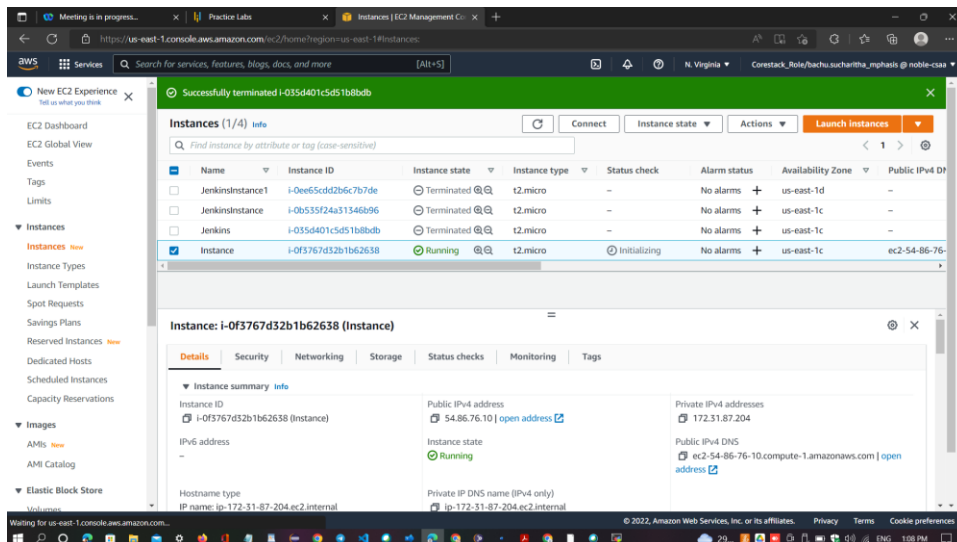
## Edit the Network settings:



**Storage:**



## Instance Created:



**Connect the instance with Jenkins pipeline using mobaxterm:**

**INSTALL DOCKER,**

**INSTALL JDK,**

**INSTALL MAVEN**

**INSTALL JENKINS**

```
ubuntu@ip-172-31-87-204:~$ cd /
ubuntu@ip-172-31-87-204:~$ cd /usr/bin/
ubuntu@ip-172-31-87-204:~$ cd /usr/bin/
ubuntu@ip-172-31-87-204:~$ cd /usr/bin/
Warning: Permanently added 'ec2-52-86-76-10.compute-1.amazonaws.com' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-103-aws x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

System information as of Wed Oct 12 07:38:53 UTC 2022

System load: 0.46630859375   Processes:            105
Usage of /:  15.6% of 9.51GB   Users logged in:       0
Memory usage: 22%            IPv4 address for eth0: 172.31.87.204
Swap usage:   0%

0 updates can be applied immediately.

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

/usr/bin/sudo: file /home/ubuntu/.Xauthority does not exist
To run a command as administrator (user "root"), use "sudo ->command".
See "man sudo_root" for details.

ubuntu@ip-172-31-87-204:~$
```

```
ubuntu@ip-172-31-87-204:~$ sudo apt update
Selecting previously unselected package docker-scanner-plugin.
Preparing to unpack .../6-docker-scanner-plugin_0.17.0-ubuntu-jammy_amd64.deb ...
Unpacking docker-scanner-plugin (0.17.0-ubuntu-jammy) ...
Selecting previously unselected package libltdl7:amd64.
Preparing to unpack .../7-libltdl7_2.4.6-15build2_amd64.deb ...
Unpacking libltdl7:amd64 (2.4.6-15build2) ...
Selecting previously unselected package libslirp0:amd64.
Preparing to unpack .../8-libslirp0_4.6.1-1build1_amd64.deb ...
Unpacking libslirp0:amd64 (4.6.1-1build1) ...
Selecting previously unselected package slirpnetns.
Preparing to unpack .../9-slirpnetns_1.0.1-2_amd64.deb ...
Unpacking slirpnetns (1.0.1-2) ...
Setting up docker-scanner-plugin (0.17.0-ubuntu-jammy) ...
Setting up containerd (1.6.8-1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/containerd.service -> /lib/systemd/system/containerd.service.
Setting up docker-compose-plugin (2.10.2-ubuntu-jammy) ...
Setting up libltdl7:amd64 (2.4.6-15build2) ...
Setting up docker-cxx11 (5:20.10.10-3-ubuntu-jammy) ...
Setting up libslirp0:amd64 (4.6.1-1build1) ...
Setting up pigz (2.6-1) ...
Setting up docker-cerlogless-extras (5:20.10.10-3-ubuntu-jammy) ...
Setting up slirpnetns (1.0.1-2) ...
Setting up dockercxx (5:20.10.10-3-ubuntu-jammy) ...
Created symlink /etc/systemd/system/multi-user.target.wants/docker.service -> /lib/systemd/system/docker.service.
Created symlink /etc/systemd/system/sockets.target.wants/docker.socket -> /lib/systemd/system/docker.socket.
Processing triggers for man-db (2.10.2-1) ...
Processing triggers for libc-bin (2.35-0ubuntu3.1) ...
Scanning processes...
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.
ubuntu@ip-172-31-87-204:~$ sudo docker -v
Docker version 20.10.18, build b40c2f6
ubuntu@ip-172-31-87-204:~$
```

```
ubuntu@ip-172-31-87-204:~$ sudo docker --help
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jar to provide /usr/bin/jar (jar) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jarsigner to provide /usr/bin/jarsigner (jarsigner) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/javac to provide /usr/bin/javac (javac) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/javadoc to provide /usr/bin/javadoc (javadoc) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jmap to provide /usr/bin/jmap (jmap) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jcmd to provide /usr/bin/jcmd (jcmd) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdb to provide /usr/bin/jdb (jdb) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdepscan to provide /usr/bin/jdepscan (jdepscan) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jdeps to provide /usr/bin/jdeps (jdeps) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jfr to provide /usr/bin/jfr (jfr) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jimage to provide /usr/bin/jimage (jimage) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jinfo to provide /usr/bin/jinfo (jinfo) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jmap to provide /usr/bin/jmap (jmap) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jmod to provide /usr/bin/jmod (jmod) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jps to provide /usr/bin/jps (jps) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jrunscript to provide /usr/bin/jrunscript (jrunscript) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jshell to provide /usr/bin/jshell (jshell) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstack to provide /usr/bin/jstack (jstack) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstat to provide /usr/bin/jstat (jstat) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jstatd to provide /usr/bin/jstatd (jstatd) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jtmc to provide /usr/bin/jtmc (jtmc) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jvarkit to provide /usr/bin/jvarkit (jvarkit) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jvarkit to provide /usr/bin/jvarkit (jvarkit) in auto mode
update-alternatives: using /usr/lib/jvm/java-11-openjdk-amd64/bin/jvarkit to provide /usr/bin/jvarkit (jvarkit) in auto mode
Setting up default-jre (2:11-72ubuntu1) ...
Setting up default-jdk-headless (2:11-72ubuntu1) ...
Setting up openjdk-11-jdk-headless (11.0.16-0ubuntu1-22.04) ...
Setting up default-jdk (2:11-72ubuntu1) ...
Scanning processes...
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.
ubuntu@ip-172-31-87-204:~$
```

Getting Started

Username:  
Sucharitha

Password:  
\*\*\*\*\*

Confirm password:  
\*\*\*\*\*

Full name:  
Sucharitha Bachu

E-mail address:  
sucharithashetty2002@gmail.com

Jenkins 2.361.2

[Skip and continue as admin](#) [Save and Continue](#)

Jenkins

Search (CTRL+K)

Sucharitha Bachu log out

Dashboard

Enter an item name

JenkinsPipeline

= Required field

**Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**Pipeline**  
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.

**Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

**Folder**  
Creates a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a namespace, so you can have multiple things of the same name as long as they are in different folders.

[OK](#)

Multi-branch Pipeline

Jenkins

Search (CTRL+K)

Sucharitha Bachu log out

Dashboard > JenkinsPipeline

**Configuration**

General

Advanced Project Options

Pipeline

General

Enabled

Description

Jenkins Pipeline

[Plain text] Preview

☐ Discard old builds

☐ Do not allow concurrent builds

☐ Do not allow the pipeline to resume if the controller restarts

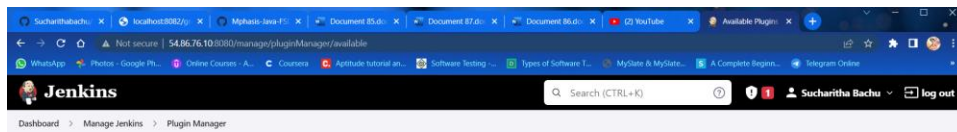
☐ GitHub project

☐ Pipeline speed/durability override

☐ Preserve stashes from completed builds

☐ This project is parameterized

[Save](#) [Apply](#)



- Back to Dashboard
- Manage Jenkins
- Update Center

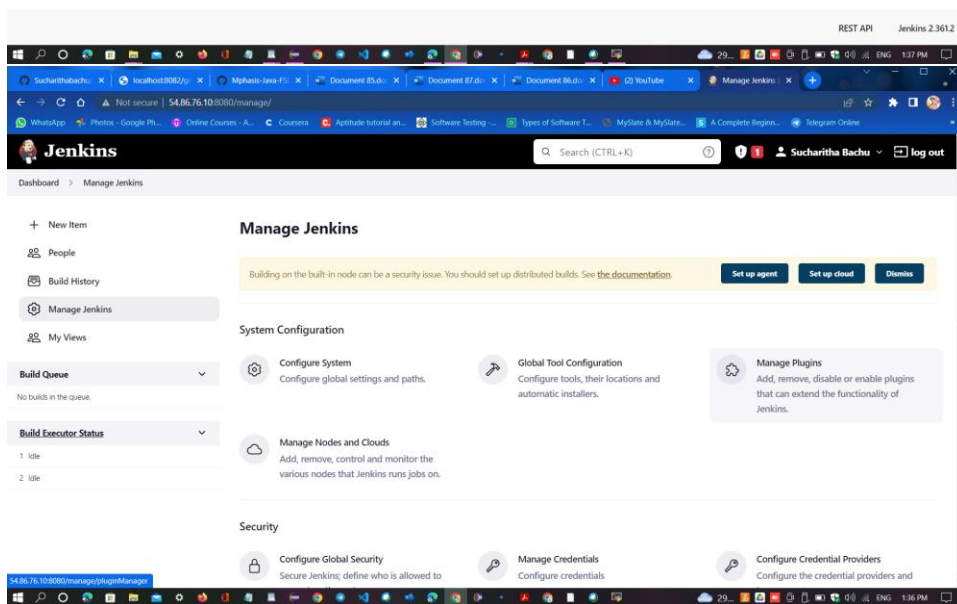
## Plugin Manager

Updates Available Installed Advanced

maven integration

Install	Name	Released
<input checked="" type="checkbox"/>	<a href="#">Pipeline Maven Integration</a> 1205.vccca_7b_972817 <a href="#">pipeline</a> <a href="#">Maven</a>	23 days ago
This plugin provides integration with Pipeline, configures maven environment to use within a pipeline job by calling sh mvn or bat mvn. The selected maven installation will be configured and prepended to the path.		

[Install without restart](#) [Download now and install after restart](#) Update information obtained: 23 min ago [Check now](#)





Jenkins

Dashboard > Manage Jenkins > Plugin Manager

### Plugin Manager

Updates Available Installed Advanced

Search (CTRL+K)

maven integration

Install	Name	Released
<input checked="" type="checkbox"/>	<b>Maven Integration</b> 3.19 <a href="#">Build Tools</a>	4 mo 12 days ago
<p>This plug-in provides a deep integration of Jenkins and Maven: Automatic triggers between projects depending on SNAPSHOTS, automated configuration of various Jenkins publishers (JUnit, ...). This plugin is deprecated and it's recommended to avoid using it.</p>		
<input type="checkbox"/>	<b>Pipeline Maven Integration</b> 1205.vceea.7b.972817 <a href="#">pipeline</a> <a href="#">Maven</a>	23 days ago
<p>This plugin provides integration with Pipeline, configures maven environment to use within a pipeline job by calling sh mvn or bat mvn. The selected maven installation will be configured and prepended to the path.</p>		

Install without restart Download now and install after restart Update information obtained: 22 min ago Check now

Jenkins

Dashboard > Manage Jenkins > Update Center

### Update Center

Folders	Status
JavaBeans Activation Framework (JAF) API	Success
JavaMail API	Success
bouncycastle API	Success
Instance Identity	Success
Mina SSHD API - Common	Success
Mina SSHD API - Core	Success
SSH server	Success
OWASP Markup Formatter	Success
Structs	Success
Token Macro	Success
Build Timeout	Success
Credentials	Success
Trilead API	Success
SSH Credentials	Success
Pipeline: Step API	Success
Plain Credentials	Success
Credentials Binding	Success
SCM API	Success
Pipeline: API	Success
Timestamp	Success
Caffeine API	Success
Script Security	Success
Icons API	Success

Jenkins

Dashboard > JenkinsPipeline

### Pipeline JenkinsPipeline

Jenkins Pipeline

Edit description Disable Project

### Stage View

Stage	Run	Time
1	Oct 12 08:13	149ms
2	Oct 12 08:13	307ms

Average stage time: 228ms  
Average full run time: -5s

### Build History

trend

Filter builds...

Build	Time
#2	Oct 12, 2022, 8:13 AM
#1	Oct 12, 2022, 8:13 AM

Atom feed for all Atom feed for failures

### Permalinks

REST API Jenkins 2.361.2

Jenkins Dashboard > JenkinsPipeline > #1

Status  
Changes  
Console Output  
View as plain text  
Edit build information  
Delete build #1  
Restart from Stage  
Replay  
Pipeline Steps  
Workspaces  
Next Build

### Console Output

Started by user Sucharitha Bachu  
[Pipeline] Start of Pipeline  
[Pipeline] node  
Running on Jenkins in /var/lib/jenkins/workspace/JenkinsPipeline  
[Pipeline] {  
[Pipeline] stage  
[Pipeline] { (Hello)  
[Pipeline] echo  
Hello World  
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] }  
[Pipeline] // node  
[Pipeline] End of Pipeline  
Finished: SUCCESS

Jenkins Dashboard > All

REST API Jenkins 2.361.2

Enter an item name

PipelineProject  
= Required field

**Freestyle project**  
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.

**Maven project**  
Build a maven project, Jenkins takes advantage of your POM files and drastically reduces the configuration.

**Pipeline**  
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.

**Multi-configuration project**  
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

OK

Jenkins Dashboard > PipelineProject

Configuration

General

Advanced Project Options  
Pipeline

General

Description

Pipeline Project

[Plain text] Preview

☐ Discard old builds ?  
☐ Do not allow concurrent builds  
☐ Do not allow the pipeline to resume if the controller restarts  
☐ GitHub project  
☐ Pipeline speed/durability override ?  
☐ Preserve stashes from completed builds ?  
☐ This project is parameterized ?

Save Apply



The top screenshot shows the Jenkins Pipeline configuration page. The 'Definition' is set to 'Pipeline script from SCM'. The 'SCM' is set to 'Git'. The 'Repository URL' is 'https://github.com/Sucharithabachu/SpringBootDockerApp.git'. The 'Credentials' are set to 'none'. The 'Save' button is highlighted.

The bottom screenshot shows the Jenkins Pipeline dashboard for 'Pipeline PipelineProject'. The 'Status' tab is selected. The 'Stage View' shows a table with columns 'Checkout Source Code' and 'Build'. The 'Build History' shows a table with columns 'Build Number', 'Status', and 'Timestamp'. The 'Permalinks' section is also visible.

Build Number	Status	Timestamp
1	Success	Oct 12, 2022, 8:16 AM

Stage	Checkout Source Code	Build
Checkout Source Code	615ms	3s

**Goto moba xterm**  
**and run below code**  
**Sudo docker images**