



University of Petroleum and Energy Studies

**Sub- CONTINOUS INTEGRATION AND CONTINUOUS
DELIVERY LAB**

Submitted To: Dr. Hitesh Kumar Sharma

Submitted by: PULKIT SINGH KATHAYAT

Sap id : 500094778

DevOps(B3)

Experiment 1-

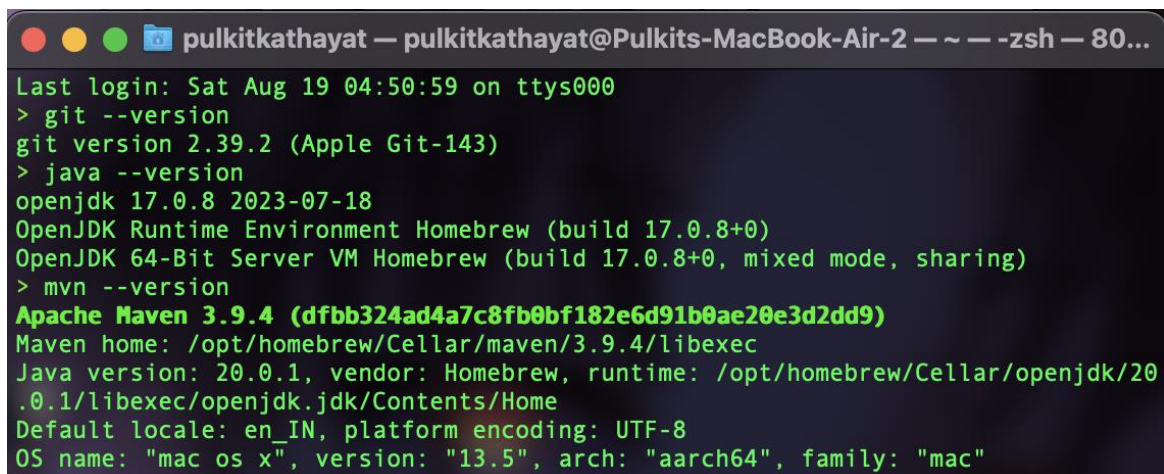
Installing and setting up Jenkins on our machine-

1- Checking all the requirements before installing Jenkins:

1.1-git

1.2-maven

1.3-javajdk 17 (as till version 17 its totally free)

A terminal window screenshot from a MacBook Air. The window title is 'pulkitkathayat — pulkitkathayat@Pulkits-MacBook-Air-2 — ~ — -zsh — 80...'. The terminal shows the following commands and outputs:

```
Last login: Sat Aug 19 04:50:59 on ttys000
> git --version
git version 2.39.2 (Apple Git-143)
> java --version
openjdk 17.0.8 2023-07-18
OpenJDK Runtime Environment Homebrew (build 17.0.8+0)
OpenJDK 64-Bit Server VM Homebrew (build 17.0.8+0, mixed mode, sharing)
> mvn --version
Apache Maven 3.9.4 (dfbb324ad4a7c8fb0bf182e6d91b0ae20e3d2dd9)
Maven home: /opt/homebrew/Cellar/maven/3.9.4/libexec
Java version: 20.0.1, vendor: Homebrew, runtime: /opt/homebrew/Cellar/openjdk/20.0.1/libexec/openjdk.jdk/Contents/Home
Default locale: en_IN, platform encoding: UTF-8
OS name: "mac os x", version: "13.5", arch: "aarch64", family: "mac"
```

2-Installing Jenkins on local machine using Homebrew commands-

- Install the latest LTS version: brew install jenkins-lts
- Start the Jenkins service: brew services start jenkins-lts
- Restart the Jenkins service: brew services restart jenkins-lts
- Update the Jenkins version: brew upgrade jenkins-lts

```
pulkitkathayat — pulkitkathayat@Pulkits-MacBook-Air-2 — ~ — -zsh — 80...
> brew install jenkins-lts
==> Downloading https://formulae.brew.sh/api/formula.jws.json
##### 100.0%
==> Downloading https://formulae.brew.sh/api/cask.jws.json
##### 100.0%
Warning: jenkins-lts 2.401.3 is already installed and up-to-date.
To reinstall 2.401.3, run:
  brew reinstall jenkins-lts
~ ----- took 6s at 05:24:13 AM
>
```

3-After starting the Jenkins service, browse to <http://localhost:8080>

Unlock Jenkins

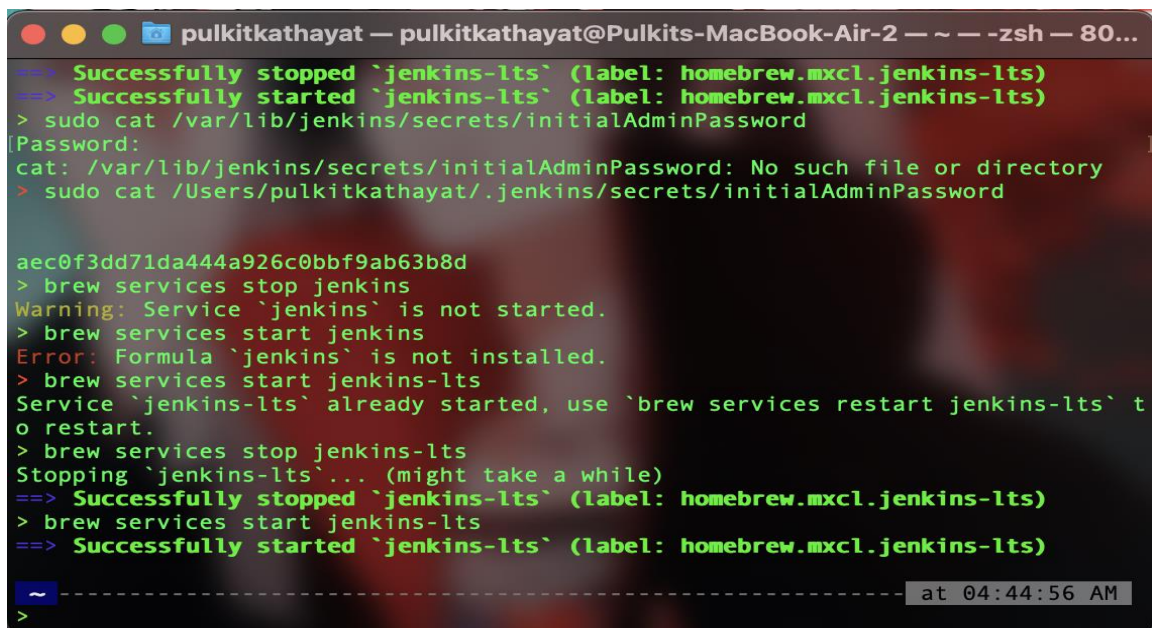
To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

`/Users/pulkitkathayat/.jenkins/secrets/initialAdminPassword`

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

Administrator password

4- Use command “ `sudo cat /var/lib/jenkins/secrets/initialAdminPassword` ”

A terminal window on a MacBook Air showing the installation of Jenkins. The user runs 'brew services stop jenkins-lts' and 'brew services start jenkins-lts'. Then they run 'sudo cat /var/lib/jenkins/secrets/initialAdminPassword' which outputs a long alphanumeric string. They then run 'brew services stop jenkins-lts' and 'brew services start jenkins-lts' again. The terminal title is 'pulkitkathayat — pulkitkathayat@Pulkits-MacBook-Air-2 — ~ — -zsh — 80...'.

```
pulkitkathayat — pulkitkathayat@Pulkits-MacBook-Air-2 — ~ — -zsh — 80...
==> Successfully stopped `jenkins-lts` (label: homebrew.mxcl.jenkins-lts)
==> Successfully started `jenkins-lts` (label: homebrew.mxcl.jenkins-lts)
> sudo cat /var/lib/jenkins/secrets/initialAdminPassword
Password:
cat: /var/lib/jenkins/secrets/initialAdminPassword: No such file or directory
> sudo cat /Users/pulkitkathayat/.jenkins/secrets/initialAdminPassword

aec0f3dd71da444a926c0bbf9ab63b8d
> brew services stop jenkins
Warning: Service `jenkins` is not started.
> brew services start jenkins
Error: Formula `jenkins` is not installed.
> brew services start jenkins-lts
Service `jenkins-lts` already started, use `brew services restart jenkins-lts` t
o restart.
> brew services stop jenkins-lts
Stopping `jenkins-lts`... (might take a while)
==> Successfully stopped `jenkins-lts` (label: homebrew.mxcl.jenkins-lts)
> brew services start jenkins-lts
==> Successfully started `jenkins-lts` (label: homebrew.mxcl.jenkins-lts)

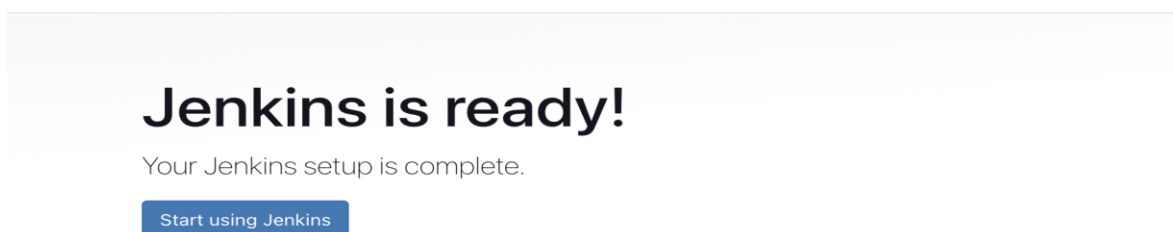
~ ----- at 04:44:56 AM
>
```

Some password will be generated use it to get to next page on localhost:8080

5- Setup your Jenkins account as per your choice .

6-This window will appear after you are done setting up your Jenkins-

Getting Started



7-after login succesfull-

