

TASK 5

INSTALL MVN ON UBUNTU

```
rithikkha@Rithikkha:~$ sudo apt install maven -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  libaopalliance-java libapache-pom-java libatinject-jsr330-api-java libcdi-api-java libcommons-cli-java
  libcommons-io-java libcommons-lang3-java libcommons-parent-java liberror-prone-java
  libgeronimo-annotation-1.3-spec-java libgeronimo-interceptor-3.0-spec-java libguava-java libjansi-java
  libjsr305-java libmaven-parent-java libmaven-resolver-java libmaven-shared-utils-java libmaven3-core-java
  libplexus-cipher-java libplexus-classworlds-java libplexus-component-annotations-java libplexus-interpolation-java
  libplexus-sec-dispatcher-java libplexus-utils2-java libsisu-inject-java libsisu-plexus-java libslf4j-java
  libwagon-file-java libwagon-http-shaded-java libwagon-provider-api-java
Suggested packages:
  libatinject-jsr330-api-java-doc libel-api-java libcommons-io-java-doc libasm-java libcglib-java libjsr305-java-doc
  libmaven-shared-utils-java-doc liblogback-java libplexus-utils2-java-doc junit4 testing libcommons-logging-java
  liblog4j1.2-java
The following NEW packages will be installed:
  libaopalliance-java libapache-pom-java libatinject-jsr330-api-java libcdi-api-java libcommons-cli-java
  libcommons-io-java libcommons-lang3-java libcommons-parent-java liberror-prone-java
  libgeronimo-annotation-1.3-spec-java libgeronimo-interceptor-3.0-spec-java libguava-java libjansi-java
  libjsr305-java libmaven-parent-java libmaven-resolver-java libmaven-shared-utils-java libmaven3-core-java
  libplexus-cipher-java libplexus-classworlds-java libplexus-component-annotations-java libplexus-interpolation-java
  libplexus-sec-dispatcher-java libplexus-utils2-java libsisu-inject-java libsisu-plexus-java libslf4j-java
  libwagon-file-java libwagon-http-shaded-java libwagon-provider-api-java maven
0 upgraded, 32 newly installed, 0 to remove and 8 not upgraded.
Need to get 10.1 MB of archives.
After this operation, 13.1 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/universe amd64 libapache-pom-java all 29-2 [5284 B]
Get:2 http://archive.ubuntu.com/ubuntu noble/universe amd64 libatinject-jsr330-api-java all 1.0+ds1-5 [5348 B]
Get:3 http://archive.ubuntu.com/ubuntu noble/universe amd64 libgeronimo-interceptor-3.0-spec-java all 1.0.1-4fakesync [8616 B]
Get:4 http://archive.ubuntu.com/ubuntu noble/universe amd64 libcdi-api-java all 1.2-3 [54.3 kB]
Get:5 http://archive.ubuntu.com/ubuntu noble/universe amd64 libcommons-cli-java all 1.6.0-1 [59.9 kB]
Get:6 http://archive.ubuntu.com/ubuntu noble/universe amd64 libcommons-parent-java all 56-1 [10.7 kB]
Get:7 http://archive.ubuntu.com/ubuntu noble/universe amd64 libcommons-io-java all 2.11.0-2 [297 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble/universe amd64 libcommons-lang3-java all 3.14.0-1 [586 kB]
Get:9 http://archive.ubuntu.com/ubuntu noble/universe amd64 libjsr305-java all 0.1+svn49-11 [27.0 kB]
Get:10 http://archive.ubuntu.com/ubuntu noble/universe amd64 libguava-java all 32.0.1-1 [2692 kB]
Get:11 http://archive.ubuntu.com/ubuntu noble/universe amd64 liberror-prone-java all 2.18.0-1 [22.5 kB]
Get:12 http://archive.ubuntu.com/ubuntu noble/universe amd64 libgeronimo-annotation-1.3-spec-java all 1.3-1 [11.2 kB]
Get:13 http://archive.ubuntu.com/ubuntu noble/universe amd64 libaopalliance-java all 20070526-7 [8166 B]
Get:14 http://archive.ubuntu.com/ubuntu noble/universe amd64 libguice-java all 4.2.3-2 [1434 kB]
Get:15 http://archive.ubuntu.com/ubuntu noble/universe amd64 libjansi-java all 2.4.1-2 [83.0 kB]
Get:16 http://archive.ubuntu.com/ubuntu noble/universe amd64 libmaven-parent-java all 25-1 [5810 B]
Get:17 http://archive.ubuntu.com/ubuntu noble/universe amd64 libplexus-utils2-java all 3.4.2-1 [256 kB]
Get:18 http://archive.ubuntu.com/ubuntu noble/universe amd64 libwagon-provider-api-java all 3.5.3-1 [47.9 kB]
Get:19 http://archive.ubuntu.com/ubuntu noble/universe amd64 libmaven-resolver-java all 1.6.3-1 [544 kB]
Get:20 http://archive.ubuntu.com/ubuntu noble/universe amd64 libmaven-shared-utils-java all 3.3.4-1 [137 kB]
Get:21 http://archive.ubuntu.com/ubuntu noble/universe amd64 libplexus-cipher-java all 2.0-1 [14.7 kB]
```

MVN VERSION AND UPDATE

```
rithikkha@Rithikkha:~$ mvn -version
Apache Maven 3.8.7
Maven home: /usr/share/maven
Java version: 17.0.14, vendor: Ubuntu, runtime: /usr/lib/jvm/java-17-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "5.15.167.4-microsoft-standard-WSL2", arch: "amd64", family: "unix"
rithikkha@Rithikkha:~$ sudo apt update
Hit:1 https://download.docker.com/linux/ubuntu noble InRelease
Ign:2 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:3 https://pkg.jenkins.io/debian-stable binary/ Release
Hit:5 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:6 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:7 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:8 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
8 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

INSTALL JDK

```
rithikkha@Rithikkha:~$ sudo apt install default-jdk -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  default-jdk-headless default-jre default-jre-headless openjdk-21-jdk openjdk-21-jdk-headless openjdk-21-jre
  openjdk-21-jre-headless
Suggested packages:
  openjdk-21-demo openjdk-21-source visualvm libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei
  | fonts-wqy-zenhei fonts-indic
The following NEW packages will be installed:
  default-jdk default-jdk-headless default-jre default-jre-headless openjdk-21-jdk openjdk-21-jdk-headless openjdk-21-jre
  openjdk-21-jre-headless
0 upgraded, 8 newly installed, 0 to remove and 8 not upgraded.
Need to get 131 MB of archives.
After this operation, 381 MB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/universe/main amd64 openjdk-21-jre-headless amd64 21.0.6+7-1-24.04.1 [46.4 MB]
Ign:1 http://archive.ubuntu.com/ubuntu noble/universe/main amd64 openjdk-21-jre-headless amd64 21.0.6+7-1-24.04.1 [46.4 MB]
Get:2 http://archive.ubuntu.com/ubuntu noble/main amd64 default-jre-headless amd64 2:1.21-75+exp1 [3094 B]
Get:3 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openjdk-21-jre amd64 21.0.6+7-1-24.04.1 [227 kB]
Get:4 http://archive.ubuntu.com/ubuntu noble/main amd64 default-jre amd64 2:1.21-75+exp1 [922 B]
Get:5 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openjdk-21-jdk-headless amd64 21.0.6+7-1-24.04.1 [82.6 MB]
Get:6 http://archive.ubuntu.com/ubuntu noble/main amd64 default-jdk-headless amd64 2:1.21-75+exp1 [960 B]
Get:7 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openjdk-21-jdk amd64 21.0.6+7-1-24.04.1 [1648 kB]
Get:8 http://archive.ubuntu.com/ubuntu noble/main amd64 default-jdk amd64 2:1.21-75+exp1 [926 B]
Get:1 http://archive.ubuntu.com/ubuntu noble-updates/main amd64 openjdk-21-jre-headless amd64 21.0.6+7-1-24.04.1 [46.4 MB]
Fetched 84.5 MB in 45s (1865 kB/s)
Selecting previously unselected package openjdk-21-jre-headless:amd64.
(Reading database ... 44072 files and directories currently installed.)
Preparing to unpack .../0-openjdk-21-jre-headless_21.0.6+7-1-24.04.1_amd64.deb ...
Unpacking openjdk-21-jre-headless:amd64 (21.0.6+7-1-24.04.1) ...
Selecting previously unselected package default-jre-headless.
Preparing to unpack .../1-default-jre-headless_2%3a1.21-75+exp1_amd64.deb ...
Unpacking default-jre-headless (2:1.21-75+exp1) ...
Selecting previously unselected package openjdk-21-jre:amd64.
Preparing to unpack .../2-openjdk-21-jre_21.0.6+7-1-24.04.1_amd64.deb ...
Unpacking openjdk-21-jre:amd64 (21.0.6+7-1-24.04.1) ...
Selecting previously unselected package default-jre.
Preparing to unpack .../3-default-jre_2%3a1.21-75+exp1_amd64.deb ...
Unpacking default-jre (2:1.21-75+exp1) ...
Selecting previously unselected package openjdk-21-jdk-headless:amd64.
Preparing to unpack .../4-openjdk-21-jdk-headless_21.0.6+7-1-24.04.1_amd64.deb ...
Unpacking openjdk-21-jdk-headless:amd64 (21.0.6+7-1-24.04.1) ...
Selecting previously unselected package default-jdk-headless.
Preparing to unpack .../5-default-jdk-headless_2%3a1.21-75+exp1_amd64.deb ...
Unpacking default-jdk-headless (2:1.21-75+exp1) ...
Selecting previously unselected package openjdk-21-jdk:amd64.
Preparing to unpack .../6-openjdk-21-jdk_21.0.6+7-1-24.04.1_amd64.deb ...
```

TASK 5

JAVA VERSION

```
rithikkha@Rithikkha:~$ java -version
openjdk version "21.0.6" 2025-01-21
OpenJDK Runtime Environment (build 21.0.6+7-Ubuntu-124.04.1)
OpenJDK 64-Bit Server VM (build 21.0.6+7-Ubuntu-124.04.1, mixed mode, sharing)
```

CONNECTING TO APACHE ORG

```
rithikkha@Rithikkha:~$ wget https://dlcdn.apache.org/maven/maven-3/3.9.9/binaries/apache-maven-3.9.9-bin.tar.gz -P /tmp
--2025-03-21 06:02:54-- https://dlcdn.apache.org/maven/maven-3/3.9.9/binaries/apache-maven-3.9.9-bin.tar.gz
Resolving dlcdn.apache.org (dlcdn.apache.org)... 151.101.2.132, 2a04:4e42::644
Connecting to dlcdn.apache.org (dlcdn.apache.org)[151.101.2.132]:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 9102945 (8.7M) [application/x-gzip]
Saving to: '/tmp/apache-maven-3.9.9-bin.tar.gz'

apache-maven-3.9.9-bin.tar.gz 100%[=====] 8.68M 4.84MB/s in 1.8s

2025-03-21 06:02:56 (4.84 MB/s) - '/tmp/apache-maven-3.9.9-bin.tar.gz' saved [9102945/9102945]
```

MVN VERSION

```
rithikkha@Rithikkha:~$ mvn -version
Apache Maven 3.9.9 (8e8579a9e76f7d015ee5ec7bfc9c97d260186937)
Maven home: /opt/maven
Java version: 21.0.6, vendor: Ubuntu, runtime: /usr/lib/jvm/java-21-openjdk-amd64
Default locale: en, platform encoding: UTF-8
OS name: "linux", version: "5.15.167.4-microsoft-standard-wsl2", arch: "amd64", family: "unix"
```

JENKINS STATUS

Jenkins Dashboard > MVN

Status: ✔ MVN Add description

Changes: </> Build Now: ▶ Configure: ⚙️ Delete Pipeline: 🗑️ Full Stage View: 🔍 Stages: 📋 Rename: ✎ Pipeline Syntax: 🔗

Builds

- Filter:
- Today
 - ✔ #2 8:57 am
 - ✖ #1 8:54 am

Stage View


	Checkout Code	Build Application	Run Maven Tests	Build Docker Image	Login to Docker Hub	Push Docker Image	Deploy Docker Container	Declarative: Post Actions
Average stage times: (full run time: ~4min 14s)	3s	45s	13s	39s	3s	22s	859ms	118ms
#2 1427 No Changes	5s	1min 31s	26s	1min 17s	5s	44s	1s	125ms
#1 1424 No Changes	2s	100ms	100ms	111ms	107ms	102ms	92ms	111ms
	failed	failed	failed	failed	failed	failed	failed	failed

Permalinks

- Last build (#2), 1 hr 53 min ago
- Last stable build (#2), 1 hr 53 min ago
- Last successful build (#2), 1 hr 53 min ago
- Last failed build (#1), 1 hr 56 min ago
- Last unsuccessful build (#1), 1 hr 56 min ago
- Last completed build (#2), 1 hr 53 min ago

TASK 5

JENKINS CONSOLE OUTPUT

 **Jenkins**

Dashboard > MVN > #2

Status

Changes

Console Output

Edit Build Information

Delete build '#2'

Timings

Git Build Data

Pipeline Overview

Pipeline Console

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

Console Output


Skipping 641 KB. [Full Log](#)

Progress (2): 434/501 kB | 0.2/2.4 MB
Progress (2): 438/501 kB | 0.2/2.4 MB
Progress (2): 442/501 kB | 0.2/2.4 MB
Progress (2): 446/501 kB | 0.2/2.4 MB
Progress (2): 450/501 kB | 0.2/2.4 MB
Progress (2): 454/501 kB | 0.2/2.4 MB
Progress (2): 454/501 kB | 0.2/2.4 MB
Progress (2): 458/501 kB | 0.2/2.4 MB
Progress (2): 462/501 kB | 0.2/2.4 MB
Progress (2): 466/501 kB | 0.2/2.4 MB
Progress (2): 470/501 kB | 0.2/2.4 MB
Progress (2): 475/501 kB | 0.2/2.4 MB
Progress (2): 479/501 kB | 0.2/2.4 MB
Progress (2): 483/501 kB | 0.2/2.4 MB
Progress (2): 487/501 kB | 0.2/2.4 MB
Progress (2): 491/501 kB | 0.2/2.4 MB
Progress (2): 495/501 kB | 0.2/2.4 MB
Progress (2): 499/501 kB | 0.2/2.4 MB
Progress (2): 501 kB | 0.2/2.4 MB
Progress (2): 501 kB | 0.2/2.4 MB

Downloaded from central: <https://repo.maven.apache.org/maven2/commons-io/commons-io/2.15.0/commons-io-2.15.0.jar> (501 kB at 834 kB/s)
Progress (1): 0.2/2.4 MB
Progress (1): 0.2/2.4 MB

Download Copy View as plain text

DEPLOYMENT SUCCESSFULL

 **Jenkins**

Dashboard > MVN > #2 > Pipeline Console

< Build #2

Success 1 hr 56 min ago in 4 min 14 sec

Checkout Code
Build Application
Run Maven Tests
Build Docker Image
Login to Docker Hub
Push Docker Image
Deploy Docker Container
Post Actions

Stage 'Post Actions'

Started 1 hr 52 min ago
Queued 0 ms
Took 92 ms
Success
Running on Jenkins
[View as plain text](#)

Deployment Successful!

Print Message
Deployment Successful!

Rebuild Overview Configure ...