

TASK 5 – MAVEN CREATION

Step 1: Folder Creation

Create a folder named maven and install git in that folder.

```
Processing triggers for man-db (2.12.0-4build2) ...
root@sudharshana:/home/sudharshana/maven# git clone https://github.com/AranganathanPrakash/spring-framework-petclinic.git
Cloning into 'spring-framework-petclinic'...
remote: Enumerating objects: 7351, done.
remote: Counting objects: 100% (1111/1111), done.
remote: Compressing objects: 100% (78/78), done.
remote: Total 7351 (delta 1060), reused 1033 (delta 1033), pack-reused 6240 (from 1)
Receiving objects: 100% (7351/7351), 3.12 MiB | 8.61 MiB/s, done.
Resolving deltas: 100% (3600/3600), done.
root@sudharshana:/home/sudharshana/maven# cd spring-framework-petclinic
root@sudharshana:/home/sudharshana/maven/spring-framework-petclinic# ls
Jenkinsfile LICENSE.txt dockerfile mvnw mvnw.cmd pom.xml readme.md src
root@sudharshana:/home/sudharshana/maven/spring-framework-petclinic# cd ..
root@sudharshana:/home/sudharshana/maven# git install java
git: 'install' is not a git command. See 'git --help'.

The most similar command is
  instaweb
root@sudharshana:/home/sudharshana/maven# sudo apt install openjdk-17-jdk -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  alsa-topology-conf alsa-ucm-conf ca-certificates-java fonts-dejavu-extra java-common libasound2-data libasound2t64
  libatk-wrapper-java libatk-wrapper-java-jni libgif7 libice-dev libice6 libnspr4 libnss3 libpcsclite1
  libpthread-stubs0-dev libsm-dev libsm6 libx11-dev libxau-dev libxaw7 libxcb-shape0 libxcb1-dev libxdmcp-dev libxft2
  libxkbfile1 libxmu6 libxpm4 libxt-dev libxt6t64 libxv1 libxxf86dgal openjdk-17-jdk-headless openjdk-17-jre
  openjdk-17-jre-headless x11-utils x11proto-dev xorg-sgml-doctools xtrans-dev
Suggested packages:
  default-jre alsa-utils libasound2-plugins libice-doc pscd libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-17-demo
  openjdk-17-source visualvm libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei
  fonts-indic mesa-utils
Recommended packages:
  luit
The following NEW packages will be installed:
```

Step 2: Installing Java

Clone the repository inside the folder and install java openjdk-17-jdk -y

```
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Cloning into 'spring-framework-petclinic'...
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Resolving deltas: 100% (3600/3600), done.
root@sudharshana:/home/sudharshana/maven# cd spring-framework-petclinic
root@sudharshana:/home/sudharshana/maven/spring-framework-petclinic# ls
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root@sudharshana:/home/sudharshana/maven# git install java
git: 'install' is not a git command. See 'git --help'.

The most similar command is
  instaweb
root@sudharshana:/home/sudharshana/maven# sudo apt install openjdk-17-jdk -y
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
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  libatk-wrapper-java libatk-wrapper-java-jni libgif7 libice-dev libice6 libnspr4 libnss3 libpcsclite1
  libpthread-stubs0-dev libsm-dev libsm6 libx11-dev libxau-dev libxaw7 libxcb-shape0 libxcb1-dev libxdmcp-dev libxft2
  libxkbfile1 libxmu6 libxpm4 libxt-dev libxt6t64 libxv1 libxxf86dgal openjdk-17-jdk-headless openjdk-17-jre
  openjdk-17-jre-headless x11-utils x11proto-dev xorg-sgml-doctools xtrans-dev
Suggested packages:
  default-jre alsa-utils libasound2-plugins libice-doc pscd libsm-doc libx11-doc libxcb-doc libxt-doc openjdk-17-demo
  openjdk-17-source visualvm libnss-mdns fonts-ipafont-gothic fonts-ipafont-mincho fonts-wqy-microhei | fonts-wqy-zenhei
  fonts-indic mesa-utils
Recommended packages:
  luit
The following NEW packages will be installed:
```

Step 3: Maven test

Test the maven and check any errors present

[illegible]

Step 7: Minikube

Start the minikube using minikube start

```
sudharshana@sudharshana:~/maven/spring-framework-petclinic$ minikube start
🐹 minikube v1.35.0 on Ubuntu 24.04 (amd64)
🔧 Using the docker driver based on existing profile
👉 Starting "minikube" primary control-plane node in "minikube" cluster
🐳 Pulling base image v0.0.46 ...
🔥 docker "minikube" container is missing, will recreate.
🔨 Creating docker container (CPUs=2, Memory=2200MB) ...
🌐 Preparing Kubernetes v1.32.0 on Docker 27.4.1 ...
   ▪ Generating certificates and keys ...
   ▪ Booting up control plane ...
   ▪ Configuring RBAC rules ...
🔗 Configuring bridge CNI (Container Networking Interface) ...
🔍 Verifying Kubernetes components...
   ▪ Using image gcr.io/k8s-minikube/storage-provisioner:v5
🌟 Enabled addons: storage-provisioner, default-storageclass
🏁 Done! kubectl is now configured to use "minikube" cluster and "default" namespace by default
```

Step 8: Deployment

Create the deployment and expose it .Once it is exposed use minikube service to find the url of the webpage. Copy the url.

```
sudharshana@sudharshana:~/maven/spring-framework-petclinic$ minikube service petclinic
```

NAMESPACE	NAME	TARGET PORT	URL
default	petclinic	8080	http://192.168.49.2:31940

```
🔧 Starting tunnel for service petclinic.
```

NAMESPACE	NAME	TARGET PORT	URL
default	petclinic		http://127.0.0.1:45183

```
🌐 Opening service default/petclinic in default browser...
👉 http://127.0.0.1:45183
! Because you are using a Docker driver on linux, the terminal needs to be open to run it.
^C 🛑 Stopping tunnel for service petclinic.
```

Step 9: Output

Paste the url link in the browser and the output will be displayed.

777welcome Arangenathen 79998wdd777

