22CSR044 DHAMAYANDHI.R

TASK 5

STEP 1: Create a folder and move to the folder

```
dhamayandhi@LAPTOP-MR2CDKC6:~$ cd maven
dhamayandhi@LAPTOP-MR2CDKC6:~/maven$ git clone https://github.com/Dhamayandhi2004/spring-framework-petclinic.git
```

STEP 2: Move to the cloning repository

```
dhamayandhi@LAPTOP-MR2CDKC6:~/maven$ ls
spring-framework-petclinic
dhamayandhi@LAPTOP-MR2CDKC6:~/maven$ cd spring-framework-petclinic
```

STEP 3:Execute the maven commands

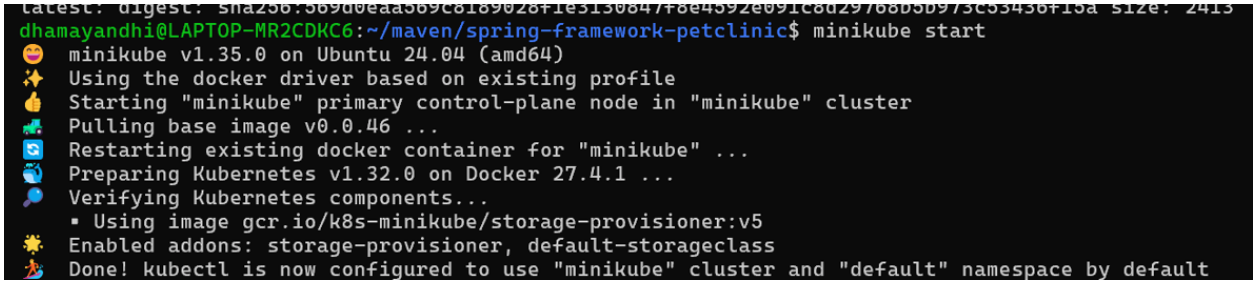
- mvn test ->Runs the unit tests
- mvn clean->Clean the previous builds
- mvn install->Install require package and plugins
- mvn package->Provides jar or war file for entire application

```
[INFO] -------------------------------------------------------
[INFO] Running org.springframework.samples.petclinic.model.ValidatorTests
INFO  Version - HV000001: Hibernate Validator 8.0.1.Final
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 1.630 s -- in org.springframework.samples.petclinic.m
odel.ValidatorTests
[INFO] Running org.springframework.samples.petclinic.web.VisitControllerTests
WARNING: A Java agent has been loaded dynamically (/home/dhamayandhi/.m2/repository/net/bytebuddy/byte-buddy-agent/1.14.11/b
yte-buddy-agent-1.14.11.jar)
WARNING: If a serviceability tool is in use, please run with -XX:+EnableDynamicAgentLoading to hide this warning
WARNING: If a serviceability tool is not in use, please run with -Djdk.instrument.traceUsage for more information
WARNING: Dynamic loading of agents will be disallowed by default in a future release
OpenJDK 64-Bit Server VM warning: Sharing is only supported for boot loader classes because bootstrap classpath has been app
ended
INFO  MockServletContext - Initializing Spring TestDispatcherServlet ''
INFO  TestDispatcherServlet - Initializing Servlet ''
INFO  TestDispatcherServlet - Completed initialization in 1 ms
INFO  MockServletContext - Initializing Spring TestDispatcherServlet ''
INFO  TestDispatcherServlet - Initializing Servlet ''
INFO  TestDispatcherServlet - Completed initialization in 1 ms
INFO  MockServletContext - Initializing Spring TestDispatcherServlet ''
INFO  TestDispatcherServlet - Initializing Servlet ''
INFO  TestDispatcherServlet - Completed initialization in 1 ms
INFO  MockServletContext - Initializing Spring TestDispatcherServlet ''
INFO  TestDispatcherServlet - Initializing Servlet ''
INFO  TestDispatcherServlet - Completed initialization in 0 ms
[INFO] Tests run: 4, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 4.806 s -- in org.springframework.samples.petclinic.w
eb.VisitControllerTests
[INFO] Running org.springframework.samples.petclinic.web.PetTypeFormatterTests
[INFO] Tests run: 3, Failures: 0, Errors: 0, Skipped: 0, Time elapsed: 0.089 s -- in org.springframework.samples.petclinic.w
eb.PetTypeFormatterTests
[INFO] Running org.springframework.samples.petclinic.web.OwnerControllerTests
INFO  MockServletContext - Initializing Spring TestDispatcherServlet ''
INFO  TestDispatcherServlet - Initializing Servlet ''
INFO  TestDispatcherServlet - Completed initialization in 0 ms
INFO  MockServletContext - Initializing Spring TestDispatcherServlet ''
```

```
[ERROR] [Help 1] http://cwiki.apache.org/confluence/display/MAVEN/MissingProjectException
dhamayandhi@LAPTOP-MR2CDKC6:~/maven/spring-framework-petclinic/target$ cd ..
dhamayandhi@LAPTOP-MR2CDKC6:~/maven/spring-framework-petclinic$ mvn test
[INFO] Scanning for projects...
[INFO]
[INFO] -------< org.springframework.samples:spring-framework-petclinic >-------
[INFO] Building Spring Framework Petclinic 6.1.4
[INFO] --------------------------------[ war ]---------------------------------
[INFO]
[INFO] --- maven-enforcer-plugin:3.4.1:enforce (enforce-maven) @ spring-framework-petclinic ---
[INFO] Rule 0: org.apache.maven.enforcer.rules.version.RequireMavenVersion passed
[INFO]
[INFO] --- jacoco-maven-plugin:0.8.11:prepare-agent (prepare-agent) @ spring-framework-petclinic ---
[INFO] argLine set to -javaagent:/home/dhamayandhi/.m2/repository/org/jacoco/org.jacoco.agent/0.8.11/org.jacoco.agent-0.8.11
-runtime.jar=destfile=/home/dhamayandhi/maven/spring-framework-petclinic/target/jacoco.exec
[INFO]
[INFO] --- maven-resources-plugin:3.3.1:resources (default-resources) @ spring-framework-petclinic ---
[INFO] Copying 21 resources from src/main/resources to target/classes
[INFO]
[INFO] --- maven-compiler-plugin:3.11.0:compile (default-compile) @ spring-framework-petclinic ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-resources-plugin:3.3.1:testResources (default-testResources) @ spring-framework-petclinic ---
[INFO] Copying 11 resources from src/test/java to target/test-classes
[INFO] Copying 1 resource from src/test/resources to target/test-classes
[INFO]
[INFO] --- maven-compiler-plugin:3.11.0:testCompile (default-testCompile) @ spring-framework-petclinic ---
[INFO] Nothing to compile - all classes are up to date
[INFO]
[INFO] --- maven-surefire-plugin:3.2.3:test (default-test) @ spring-framework-petclinic ---
[INFO] Using auto detected provider org.apache.maven.surefire.junitplatform.JUnitPlatformProvider
[INFO]
[INFO] -------------------------------------------------------
[INFO]  T E S T S
[INFO] -------------------------------------------------------
```

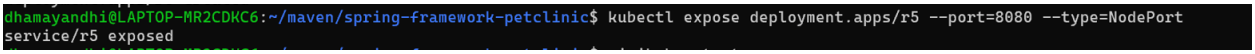
```
[INFO]
[INFO] ------------------------------------------------------------------------
[INFO] BUILD SUCCESS
[INFO] ------------------------------------------------------------------------
[INFO] Total time:  18.489 s
[INFO] Finished at: 2025-03-21T10:10:25Z
[INFO] ------------------------------------------------------------------------
dhamayandhi@LAPTOP-MR2CDKC6:~/maven/spring-framework-petclinic$ ls
Jenkinsfile  LICENSE.txt  dockerfile  mvnw  mvnw.cmd  pom.xml  readme.md  src  target
dhamayandhi@LAPTOP-MR2CDKC6:~/maven/spring-framework-petclinic$ cd target
dhamayandhi@LAPTOP-MR2CDKC6:~/maven/spring-framework-petclinic/target$ cd ..
dhamayandhi@LAPTOP-MR2CDKC6:~/maven/spring-framework-petclinic$ cd target
dhamayandhi@LAPTOP-MR2CDKC6:~/maven/spring-framework-petclinic/target$ ls
classes            generated-test-sources  maven-archiver  petclinic      site             test-classes
generated-sources  jacoco.exec             maven-status    petclinic.war  surefire-reports
dhamayandhi@LAPTOP-MR2CDKC6:~/maven/spring-framework-petclinic/target$ cd ..
dhamayandhi@LAPTOP-MR2CDKC6:~/maven/spring-framework-petclinic$ cat dockerfile
FROM tomcat:latest
COPY target/*.war /usr/local/tomcat/webapps/ROOT.war
EXPOSE 8080
CMD ["catalina.sh", "run"]
dhamayandhi@LAPTOP-MR2CDKC6:~/maven/spring-framework-petclinic$ docker build -t example .
[+] Building 7.8s (8/8) FINISHED                                                                                docker:d
efault
 => [internal] load build definition from dockerfile
  0.0s
 => => transferring dockerfile: 148B
  0.0s
 => [internal] load metadata for docker.io/library/tomcat:latest
  1.9s
 => [auth] library/tomcat:pull token for registry-1.docker.io
  0.0s
 => [internal] load .dockerignore
  0.0s
 => => transferring context: 2B
```

Step 4 Initialize the minikube

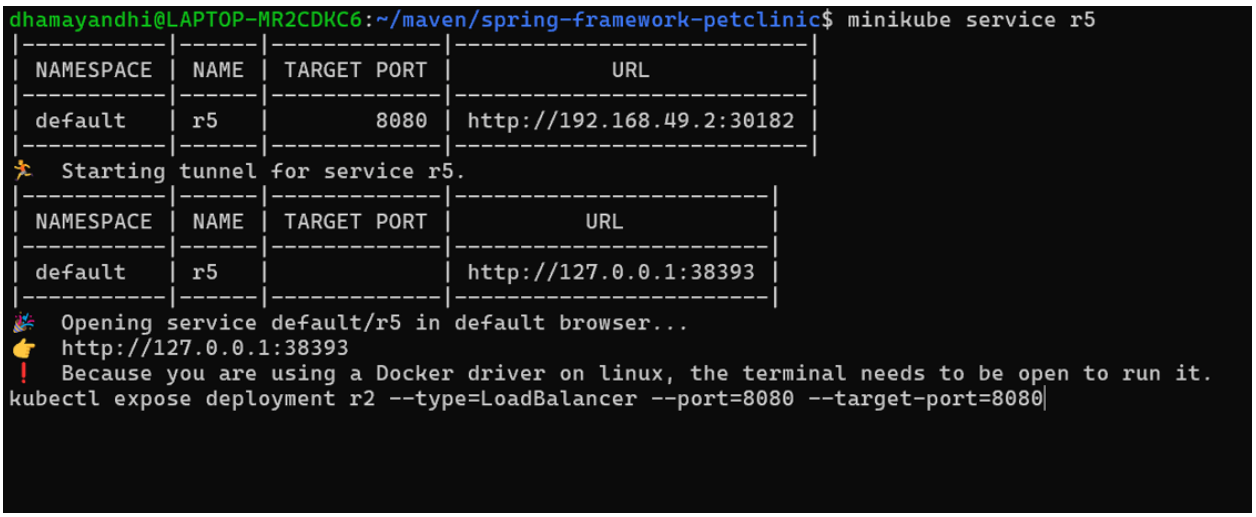


Step 5: Create the deployment

Step 6: Expose the Deployment



Step 7: Expose the Service



Step 8: Open the URL in the web browser