

## 1. Create Jenkins Container:

```
docker run -dit -e JENKINS_USER=$(id -u) --rm -p  
8126:8080 -p 50001:50000 -v $PWD/jenkins_home:/var/  
jenkins_home -v /var/run/docker.sock:/var/run/  
docker.sock --name my-jenkins2 trion/jenkins-docker-  
client
```

<http://localhost:8126/>

## 2. Create Sample Java Application Using Docker

## Container:

```
docker run --rm -it -v $PWD/samplejava:/external \
-v /Users/abhijithvg/Training/Collabera/DevOps/.m2:/
root/.m2 \
-w /external maven mvn archetype:generate \
-DgroupId=com.schogini.dockermvn.example \
-DartifactId=SampleJava \
-DarchetypeArtifactId=maven-archetype-webapp \
-DinteractiveMode=false
```

## 3. Build the Java Project using Docker Container

```
docker run --rm -it -v /Users/abhijithvg/Training/  
Collabera/DevOps/.m2:/root/.m2 -v $PWD/samplejava/  
SampleJava:/project -w /project maven mvn clean  
package
```

#### 4. Run Tomcat Server Container

```
docker rm -f my-tcc2
```

```
docker run -d -p 7080:8080 --name my-tcc2 -v $PWD/  
samplejava/SampleJava/target/SampleJava.war:/usr/  
local/tomcat/webapps/sample-example.war tomcat
```

```
http://0.0.0.0:7080/sample-example
```

## 5. Build the Java Project using Docker Container **inside Jenkins**

```
docker run --rm -v /Users/abhijithvg/Training/Collabera/  
DevOps/.m2:/root/.m2 -v /Users/abhijithvg/Training/  
Collabera/DevOps3/forJenkins/samplejava/  
SampleJava:/project -w /project maven mvn clean  
package
```

## 6. Run Tomcat Server Container **inside Jenkins**

```
docker inspect my-tcc2 >/dev/null 2>&1 && docker rm -f  
my-tcc2 || echo No container to remove. Proceed.
```

```
docker run -d -p 7080:8080 --name my-tcc2 -v /Users/  
abhijithvg/Training/Collabera/DevOps3/forJenkins/  
samplejava/SampleJava/target/SampleJava.war:/usr/  
local/tomcat/webapps/sample-example.war tomcat
```

<http://0.0.0.0:7080/sample-example>