Assisted practice 3

git clone https://github.com/Anuj1990/SpringBootDocker.git

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```
root@ip-172-31-86-69:~# git clone https://github.com/Anuj1990/SpringBootDocker.git
Cloning into 'SpringBootDocker'...
remote: Enumerating objects: 52, done.
remote: Counting objects: 100% (52/52), done.
remote: Compressing objects: 100% (31/31), done.
remote: Total 52 (delta 4), reused 52 (delta 4), pack-reused 0
Unpacking objects: 100% (52/52), done.
root@ip-172-31-86-69:~# cd SpringBootDocker/
root@ip-172-31-86-69:~/SpringBootDocker# ls -alrt
total 24
drwx----- 7 root root 4096 Jul 25 02:33 ..
drwxr-xr-x 4 root root 4096 Jul 25 02:33 src
-rw-r--r-- 1 root root 2601 Jul 25 02:33 pom.xml
-rw-r--r-- 1 root root 207 Jul 25 02:33 Dockerfile
drwxr-xr-x 8 root root 4096 Jul 25 02:33 .git
drwxr-xr-x 4 root root 4096 Jul 25 02:33
root@ip-172-31-86-69:~/SpringBootDocker#
```

mvn clean install

docker build -t springbootapp

```
root@ip-172-31-86-69:~/SpringBootDocker# docker build -t springbootapp .
Sending build context to Docker daemon 30.99MB
Step 1/5 : FROM java:8-jdk-alpine
  --> 3fd9dd82815c
Step 2/5 : COPY ./target/demo-docker-0.0.1-SNAPSHOT.jar /usr/app/
  --> 03af141fea64
Step 3/5 : WORKDIR /usr/app
 ---> Running in c5873bb5c094
Removing intermediate container c5873bb5c094
 ---> c7628e48b550
Step 4/5 : RUN sh -c 'touch demo-docker-0.0.1-SNAPSHOT.jar'
  --> Running in 090cab39b1ed
Removing intermediate container 090cab39b1ed
  --> 80f5bfb8c92e
Step 5/5 : ENTRYPOINT ["java","-jar","demo-docker-0.0.1-SNAPSHOT.jar"]
  --> Running in e3d6aaa482cc
Removing intermediate container e3d6aaa482cc
---> 5a26279c1de0
Successfully built 5a26279c1de0
Successfully tagged springbootapp:latest
root@ip-172-31-86-69:~/SpringBootDocker# docker images
                   TAG
REPOSITORY
                                        IMAGE ID
                                                            CREATED
                                                                                SIZE
                                                                                177MB
springbootapp
                    latest
                                        5a26279c1de0
                                                            4 seconds ago
                    8-jdk-alpine
                                        3fd9dd82815c
                                                                                 145MB
                                                            2 years ago
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root@ip-172-31-86-69:~/SpringBootDocker#
```

docker images

docker tag springbootapp anujsharma1990/springboot

docker push anujsharma1990/springboot

```
coot@ip-172-31-86-69:~# docker images
REPOSITORY
                                         IMAGE ID
                                                             CREATED
                                                                                 SIZE
                    latest
                                        5a26279c1de0
                                                                                 177MB
springbootapp
                                                            6 days ago
java
                                                                                 145MB
                    8-jdk-alpine
                                        3fd9dd82815c
                                                            2 years ago
root@ip-172-31-86-69:~# docker tag springbootapp anujsharma1990/springboot
root@ip-172-31-86-69:~# docker push anujsharma1990/springboot
The push refers to repository [docker.io/anujsharma1990/springboot]
3b9dfb836448: Pushed
e817cce62ea5: Pushed
ale7033f082e: Mounted from library/java
78075328e0da: Mounted from library/java
9f8566ee5135: Mounted from library/java
latest: digest: sha256:6705b88d681e987bb8ef39339b75421feca65675b128b90a36a3d8dfe51a93c8 size: 1371
root@ip-172-31-86-69:~#
```

export PATH=\$HOME/bin:\$PATH

kubectl get node

```
root@ip-172-31-86-69:~# export PATH=$HOME/bin:$PATH
root@ip-172-31-86-69:~# kubectl get node
NAME
                                               STATUS
                                                         ROLES
                                                                   AGE
                                                                             VERSION
ip-192-168-23-105.us-west-2.compute.internal
                                                                   10m
                                                                             v1.13.7-eks-c57ff8
                                               Ready
                                                         <none>
ip-192-168-72-78.us-west-2.compute.internal
                                                                             v1.13.7-eks-c57ff8
                                               Ready
                                                         <none>
                                                                   10m
root@ip-172-31-86-69:~#
```

kubectl run springbootapp--image=anujsharma1990/springboot --port=8080

kubectl expose deployment/springbootapp --port=8080 --target-port=8080 -- type=LoadBalancer

```
root@ip-172-31-86-69:~‡ kubectl run springbootapp --image=anujsharma1990/springboot --port=8080
deployment.apps "springbootapp" created
root@ip-172-31-86-69:~# kubectl expose deployment/springbootapp --port=8080 --target-port=8080 --type=LoadBalancer
service "springbootapp" exposed root@ip-172-31-86-69:~# kubectl get deployments
                  DESIRED CURRENT UP-TO-DATE AVAILABLE AGE
NAME
springbootapp
coot@ip-172-31-86-69:~# kubectl get pods
NAME
                                       READY
                                                   STATUS
                                                               RESTARTS
springbootapp-b6f746b89-sj2sq 1/1 Rur
root@ip-172-31-86-69:~# kubectl get services
                                                   Running
                                                                             16s
                                                        EXTERNAL-IP
                                                                               PORT (S)
NAME
                                     CLUSTER-IP
                                                                                                    AGE
springbootapp LoadBalancer root@ip-172-31-86-69:~#
                                                                               8080:31060/TCP
                                                        a6fd149f5b407...
```

root@ip-172-31-86-69:~# kubectl describe svc springbootapp Name: springbootapp Namespace: default Labels: run=springbootapp Annotations: <none> Selector: run=springbootapp Type: LoadBalancer IP: 10.100.132.0 LoadBalancer Ingress: a6fd149f5b40711e986440ef68ec90d9-1889437699.us-west-2.elb.amazonaws.com Port: <unset> 8080/TCP



 $\label{lem:curl-w} $$ url-w ''n' a6fd149f5b40711e986440ef68ec90d9-1889437699.us-west2.elb.amazonaws.com: 8080/greet/EKSSpringboot$

root@ip-172-31-86-69:~# curl -w "\n" a6fd149f5b40711e986440ef68ec90d9-1889437699.us-west-2.elb.amazonaws.com:8080/greet/EKSSpringboot Hi!! EKSSpringboot root@ip-172-31-86-69:~#