DOCKER PROJECT HANDSON

E video project di -

https://www.youtube.com/watch?v=5FfpNuk0sBg&t=4s

Step1 - Take the EC2 Ubuntu instance from AWS with below configurations

Type - Ubuntu

Size - T2.Micro

GB - 8

Step 2 Install tools like

Maven -

sudo apt update -y sudo apt install maven -y mvn -version

Docker -

sudo apt update -y

sudo apt install apt-transport-https ca-certificates curl software-properties-common -y

curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo apt-key add -

sudo add-apt-repository "deb [arch=amd64] https://download.docker.com/linux/ubuntu bionic stable" -y

sudo apt update -y

apt-cache policy docker-ce -y

sudo apt install docker-ce -y

#sudo systemctl status docker

sudo chmod 777 /var/run/docker.sock

Git

apt install git

Step 3 - Clone the code

git clone

https://github.com/DEVOPS-WITH-WEB-DEV/spring-cloud-kubernetes.git

Step 4 - Go over the docker file in above repo

https://github.com/DEVOPS-WITH-WEB-DEV/spring-clo ud-kubernetes/blob/main/kubernetes-configmap-reload/ Dockerfile

Step 5 - Build the code with maven

mvn clean install -DskipTests

```
at 1.3 MB/s)
Downloaded from central: https://repo.maven.apache.org/maven2/org/codehaus/plexus/plexus-utils
r (239 kB at 1.4 MB/s)
[INFO] Installing /home/ubuntu/docker demo/spring-cloud-kubernetes/kubernetes-configmap-reload/
eload-0.0.1-SNAPSHOT.jar to /root/.m2/repository/com/minikube/sample/kubernetes-configmap-reloa
onfigmap-reload-0.0.1-SNAPSHOT.jar
[INFO] Installing /home/ubuntu/docker_demo/spring-cloud-kubernetes/kubernetes-configmap-reload
ry/com/minikube/sample/kubernetes-configmap-reload/0.0.1-SNAPSHOT/kubernetes-configmap-reload-0
[INFO]
[INFO] BUILD SUCCESS
INFO
[INFO] Total time: 40.608 s
oot@ip-172-31-29-34:/home/ubuntu/docker_demo/spring-cloud-kubernetes/kubernetes-configmap-reload# cd target
 oot@ip-172-31-29-34:/home/ubuntu/docker_demo/spring-cloud-kubernetes/kubernetes-configmap-reload/target# 1s
                                                                                    maven-status
                        kubernetes-configmap-reload-0.0.1-SNAPSHOT.jar.original test-classes
generated-sources
 oot@ip-172-31-29-34:/home/ubuntu/docker_demo/spring-cloud-kubernetes/kubernetes-configmap-reload/target# ls -lrta
total 38620
                           4096 Feb 15 14:58 ..
4096 Feb 15 14:58 generated-sources
drwxr-xr-x 5 root root
 rwxr-xr-x 3 root root
                           4096 Feb 15 14:58 maven-status
4096 Feb 15 14:58 classes
4096 Feb 15 14:58 generated-test-sources
4096 Feb 15 14:58 test-classes
 rwxr-xr-x 3 root root
drwxr-xr-x 3 root root
 rwxr-xr-x 3 root root
drwxr-xr-x 2 root root
-rw-r--r-- 1 root root
drwxr-xr-x 8 root root
                           4096 Feb 15 14:59 maven-archiver
6323 Feb 15 14:59 kubernetes-configmap-reload-0.0.1-SNAPSHOT.jar.original
4096 Feb 15 14:59 .
           1 root root 39501161 Feb 15 14:59
```

Step 6 - Go to project folder in Ubuntu where dockerfile is present

Step 7 - Run the below command to create the docker image

docker build -t bahubali/1:latest.

```
root@ip-172-31-29-34:/home/ubuntu/docker_demo/spring-cloud-kubernetes/kubernetes-configmap-reload# docker images
REPOSITORY
            TAG
                     IMAGE ID
                                     CREATED
                                                          SIZE
oahubali/1
            latest
                      b142872d6397
                                     About a minute ago
                                                          144MB
ahubali/2
                      b142872d6397
                                   About a minute ago
            latest
                                     About a minute ago
                      b142872d6397
 ot@ip-172-31-29-34:/home/ubuntu/docker_demo/spring-cloud-kubernetes/kubernetes-configmap-reload#
```

Step 7 - Run the below command to create the image into container

docker run -itd <imageID> -name chirutha

Here chirutha is container name Imageld is from above screenshot

```
07c1cde6de00
                 b142872d6397
                                      "/bin/sh -c 'exec ja..."
                                                                     2 minutes ago
                                                                                           Exited (130) About a minute ago
                                                                                                                                                   chirutha
                                     "/bin/sh -c 'exec ja..."
088da0ecd040 b142872d6397 "/bin/sh -c 'exec ja..." 3 minutes ago Exited (130) 2 minutes ago
coot@ip-172-31-29-34:/home/ubuntu/docker_demo/spring-cloud-kubernetes/kubernetes-configmap-reload# docker ps -a
b88da0ecd040
                                                                                                                                                   chirutha
CONTAINER ID
                  IMAGE
                                     COMMAND
                                                                     CREATED
                                                                                           STATUS
                                                                                                                                                   NAMES
                                      "/bin/sh -c 'exec ja..."
                  b142872d6397
                                                                     12 seconds ago
                                                                                          Up 11 seconds
Safb57fc2f8f
                                                                                                                                                   chirutha
                  b142872d6397
                                    "/bin/sh -c 'exec ja..."
7c1cde6de00
                                                                     2 minutes ago
                                                                                           Exited (130) About a minute ago
                                                                                                                                                   chirutha
                                                                     4 minutes ago
 88da0ecd040 b142872d6397 "/bin/sh -c 'exec ja..."
  8da0ecd040 b142872d6397 "/bin/sh -c 'exec ja..." 4 minutes ago Exited (130) 2 minutes ago ot@ip-172-31-29-34:/home/ubuntu/docker_demo/spring-cloud-kubernetes/kubernetes-configmap-reload#
                                                                                                                                                   chirutha
```

Step 8 - Go inside the container and check the data docker exec -it <containerID> /bin/sh

Step 9 - Check the app.jar file in docker

```
176 root
                         root
                                           0 Feb 15 15:23 proc
drwxr-xr-x
              1 root
                                        4096 Feb 15 15:23 etc
                          root
                                           0 Feb 15 15:23 .dockerenv
-rwxr-xr-x
              1 root
                          root
                                             Feb 15 15:23 ...
drwxr-xr-x
              1 root
                         root
drwxr-xr-x
              1 root
                                        4096 Feb 15 15:23
                         root
                                         360 Feb 15 15:23 dev
drwxr-xr-x
              5 root
                          root
drwxrwxrwt
                                        4096 Feb 15 15:23 tmp
              1 root
                          root
                                        4096 Feb 15 15:25 root
              1 root
                          root
            grep -i app.jar
   ps ef
    1 root
                0:11 java -jar app.jar --info
   48 root
                0:00 grep -i app.jar
```

