Creating Docker image to run spring boot application.

Create simple spring boot application which contains one rest api end point.

Web starter :

Create the rest api ie get method and test using spring boot.

After tested that application please stop.

Now we need to create jar/war file for our spring boot project which contains all programs.

1st option using eclipse we can create jar

2nd using mvn command we can create jar

After created .jar file we create Dockerfile which is responsible to create the image to run spring boot application.

**Dockerfile**

FROM openjdk:17

COPY ./target/spring-boot-docker-app-0.0.1-SNAPSHOT.jar .

CMD ["java","-jar","spring-boot-docker-app-0.0.1-SNAPSHOT.jar"]

**docker build -t my-spring . -f Dockerfile**

if image is responsible to run the web application

docker run -d -p 8080:8080 imageName/imageId

-d : detach mode or background

8080 in yellow colour or left side expose port number. This port number can be same or different.

8080 in red colour or right side actual application port number

To check container running or not

docker ps it check all running container

docker ps -a it show all container doesn’t matter they are running or stop

docker stop containerName/containerId stop container

docker start containerName/containerId start the container

docker rm containerName/containerId remove the container

docker rm imageName/imageId

docker rm imageName/imageId -f : remove by force