Create a Docker Image for your Spring Boot Application and RUN it on Docker Container

Part 1 - Create a Docker Image

1. Go to the Jenkins job folder

In this case, it is **boot-001** which is a Jenkins job.

cd /Users/nanda/.jenkins/workspace/boot-001

dir

You will observe that there is a Dockerfile

2. Use docker build command to create a Docker image

docker build -t boot-app-05nov-01:1.0 .

```
/Users/nanda/.jenkins/workspace/boot-001
Nandakumars-MacBook-Pro:boot-001 nanda$ ls
Dockerfile
               Jenkinsfile
                              README.md
                                             pom.xml
                                                                            target
Nandakumars-MacBook-Pro:boot-001 nanda$ docker build -t boot-app-05nov-01:1.0 .
Sending build context to Docker daemon 16.55MB
Step 1/4: FROM openjdk:8-jdk-alpine
8-jdk-alpine: Pulling from library/openjdk
e7c96db7181b: Downloading [==========>>
                                                                          ] 1.883MB/2.757MB
f910a506b6cb: Download complete
c2274a1a0e27: Downloading [>
                                                                          ] 531.1kB/70.73MB
```

3. It would create an image for your Spring Boot application

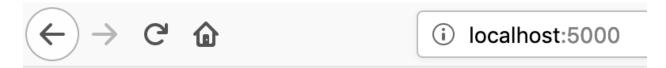
docker images

```
Successfully built ed031beab71c
Successfully tagged boot-app-05nov-01:1.0
Nandakumars-MacBook-Pro:boot-001 nanda$ docker images
REPOSITORY
                    TAG
                                        IMAGE ID
                                                            CREATED
boot-app-05nov-01
                    1.0
                                        ed031beab71c
                                                            About a minute ago
                                                                                  121MB
openidk
                    8-jdk-alpine
                                        a3562aa0b991
                                                            5 months ago
                                                                                  105MB
Nandakumars-MacBook-Pro:boot-001 nanda$
```

Part 2 - Start a Docker Container out of your Docker Image

- 4. Use docker run command to start a container
- # docker run -it -d boot-app-05nov-01:1.0

5. Visit http://localhost:5000/

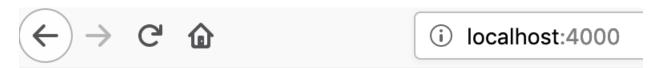


Hello Spring Boot!!

6. You can do a port number mapping to start on a different port number

docker run -it -p 4000:5000 -d boot-app-05nov-01:1.0

7. Visit http://localhost:4000/



Hello Spring Boot!!