Assignment: 4
Name :Yashwant Singh
Topic : Docker

Date : 24 April 2023

```
s ago    Up 4 minutes    80/tcp     sharp_heisenberg

Administrator@DESKTOP-FIK5SPH MINGW64 ~/Desktop/Docker
$ cd Spring_boot_Docker

Administrator@DESKTOP-FIK5SPH MINGW64 ~/Desktop/Docker/Spring_boot_Docker
$ docker build -t spring-boot-docker.jar .
#1 [internal] load build definition from Dockerfile
#1 sha256:0d76ff74e1810b8c568bedc89f68d4daea634bc319dfbc85b302ab99d59e21a2
#1 transferring dockerfile:
#1 ...

#2 [internal] load .dockerignore
#2 sha256:e7fdd4cfdad19e14f287cc59f494b22369bd4479758414a8b4aaca6bcaa99804
#2 transferring context: 2B 0.7s done
#2 DONE 1.6s

#1 [internal] load build definition from Dockerfile
#1 sha256:0d76ff74e1810b8c568bedc89f68d4daea634bc319dfbc85b302ab99d59e21a2
#1 transferring dockerfile: 178B 1.2s done
#1 DONE 2.2s

#3 [internal] load metadata for docker.io/library/openjdk:8
#3 sha256:c1006613b124ab347fbb29ae49e2ab62add271baf34bdfe7a7a4c383ac159b76
#3 ...

#4 [auth] library/openjdk:pull token for registry-1.docker.io
#4 sha256:636dca5a2f17363d208f1e13a5c69ace98062ffd2dcc5dc7caa8c14bdbfb2ba7
#4 DONE 0.0s

#3 [internal] load metadata for docker.io/library/openjdk:8
#3 sha256:c1006613b124ab347fbb29ae49e2ab62add271baf34bdfe7a7a4c383ac159b76
#3 DONE 11.0s
```

```
#8 naming to docker.io/library/spring-boot-docker.jar
#8 naming to docker.io/library/spring-boot-docker.jar 0.0s done
#8 DONE 1.2s

Administrator@DESKTOP-FIK5SPH MINGW64 ~/Desktop/Docker/Spring_boot_Docker
$ ^C

Administrator@DESKTOP-FIK5SPH MINGW64 ~/Desktop/Docker/Spring_boot_Docker
$ docker build -t spring-boot-docker.jar .
#1 [internal] load build definition from Dockerfile
#1 sha256:b5b33d761c8fc5e67ee83853ed34553ecaf8b016e8bb7d57e78fcc0e62ff78ab
#1 transferring dockerfile: 32B 0.2s done
#1 DONE 0.4s

#2 [internal] load .dockerignore
#2 sha256:97bf367e5160e1ef5740c0c45b716d715bc6914f03976f8fb7ca0857fc03cab5
#2 transferring context: 2B 0.1s done
#2 DONE 0.3s

#3 [internal] load metadata for docker.io/library/openjdk:8
#3 sha256:c1006613b124ab347fbb29ae49e2ab62add271baf34bdfe7a7a4c383ac159b76
#3 DONE 1.5s

#6 [1/2] FROM docker.io/library/openjdk:8@sha256:86e863cc57215cfb181bd319736d0baf625fe8f150577f9eb58bd937f5452cb8
#6 sha256:1e7d9e224eeb34ef733a8ab6274c72dbf6d09407a6df09d7e6001657f4d7ee92
#6 DONE 0.0s

#5 [internal] load build context
#5 sha256:eccb7e9083bb3ed1854c9bd58abf291ff3e9d385155e964d5936d2d9a789dafe
#5 transferring context: 79B 0.0s done
#5 DONE 0.3s

#4 [2/2] ADD target/spring-boot-docker.jar spring-boot-docker.jar
```

```
MINGW64:/c/Users/Administrator/Desktop/Docker/Spring_boot_Docker

Administrator@DESKTOP-FIK5SPH MINGW64 ~/Desktop/Docker/Spring_boot_Docker
$ docker image ls
REPOSITORY              TAG       IMAGE ID       CREATED        SIZE
spring-boot-docker.jar  latest    bee6857fe7f7   4 minutes ago  545MB
docker/getting-started  latest    3e4394f6b72f   4 months ago   47MB

Administrator@DESKTOP-FIK5SPH MINGW64 ~/Desktop/Docker/Spring_boot_Docker
$ docker run -p 9090:8080 spring-boot-docker.jar
Error: A JNI error has occurred, please check your installation and try again
Exception in thread "main" java.lang.UnsupportedClassVersionError: org/springframework/boot/loader/JarLauncher has been co
n 61.0), this version of the Java Runtime only recognizes class file versions up to 52.0
        at java.lang.ClassLoader.defineClass1(Native Method)
        at java.lang.ClassLoader.defineClass(ClassLoader.java:756)
        at java.security.SecureClassLoader.defineClass(SecureClassLoader.java:142)
        at java.net.URLClassLoader.defineClass(URLClassLoader.java:473)
        at java.net.URLClassLoader.access$100(URLClassLoader.java:74)
        at java.net.URLClassLoader$1.run(URLClassLoader.java:369)
        at java.net.URLClassLoader$1.run(URLClassLoader.java:363)
        at java.security.AccessController.doPrivileged(Native Method)
        at java.net.URLClassLoader.findClass(URLClassLoader.java:362)
        at java.lang.ClassLoader.loadClass(ClassLoader.java:418)
        at sun.misc.Launcher$AppClassLoader.loadClass(Launcher.java:352)
        at java.lang.ClassLoader.loadClass(ClassLoader.java:351)
        at sun.launcher.LauncherHelper.checkAndLoadMain(LauncherHelper.java:601)

Administrator@DESKTOP-FIK5SPH MINGW64 ~/Desktop/Docker/Spring_boot_Docker
$ docker run -p 9090:8080 spring-boot-docker.jar
Error: A JNI error has occurred, please check your installation and try again
Exception in thread "main" java.lang.UnsupportedClassVersionError: org/springframework/boot/loader/JarLauncher has been co
n 61.0), this version of the Java Runtime only recognizes class file versions up to 52.0
        at java.lang.ClassLoader.defineClass1(Native Method)
        at java.lang.ClassLoader.defineClass(ClassLoader.java:756)
```


Dockerfile:
```
1  FROM openjdk:8
2  EXPOSE 8080
3  ADD target/spring-boot-docker.jar spring-boot-docker.jar
4  ENTRYPOINT ["java","-jar","/spring-boot-docker.jar"]
```

Console:
```
[INFO] Results:
[INFO]
[INFO] Tests run: 1, Failures: 0, Errors: 0, Skipped: 0
[INFO]
[INFO]
[INFO] --- maven-jar-plugin:3.3.0:jar (default-jar) @ Spring_boot_Docker ---
[INFO] Building jar: C:\Users\Administrator\Desktop\Docker\Spring_boot_Docker\target\spring-boot-docker.jar
[INFO]
[INFO] --- spring-boot-maven-plugin:3.0.6:repackage (repackage) @ Spring_boot_Docker ---
[INFO] Replacing main artifact with repackaged archive
[INFO]
[INFO] --- maven-install-plugin:3.0.1:install (default-install) @ Spring_boot_Docker ---
```

Screenshot 1 — Images

Docker Desktop   Upgrade plan

Search for local and remote images, containers, and more...   Ctrl+K   yashw...

- Containers
- **Images**
- Volumes
- Dev Environments   BETA
- Learning Center

Extensions

Add Extensions

Images   Give feedback

An image is a read-only template with instructions for creating a Docker container. Learn more

Local   Hub   Artifactory   EARLY ACCESS

591.61 MB / 46.95 MB in use   2 images   Last refresh: 33 minutes ago

Search

	Name	Tag	Status	Created	Size	Actions
	spring-boot-docker.jar bee6857fe7f7	latest	In use	16 minutes ago	544.65 MB	▶ ⋮ 🗑
	docker/getting-started 3e4394f6b72f	latest	In use	4 months ago	46.95 MB	▶ ⋮ 🗑

Showing 2 items

RAM 3.72 GB   CPU 2.51%   Connected to Hub   v4.18.0

Type here to search   16:38   24-04-2023

Screenshot 2 — Containers

Docker Desktop   Upgrade plan

Search for local and remote images, containers, and more...   Ctrl+K   yashw...

- **Containers**
- Images
- Volumes
- Dev Environments   BETA
- Learning Center

Extensions

Add Extensions

Containers   Give feedback

A container packages up code and its dependencies so the application runs quickly and reliably from one computing environment to another. Learn more

Search   Only show running containers

	Name	Image	Status	Port(s)	Last started	Actions
	amazing_robinson 95308df0be2b	docker/getting-started	Exited (255)	80:80	3 days ago	▶ ⋮ 🗑
	sharp_heisenberg 1a1cecf3eac3	docker/getting-started:latest	Running		30 minutes ago	■ ⋮ 🗑
	nifty_sinoussi 552af1cfba54	spring-boot-docker.jar	Exited (1)	9090:8080	15 minutes ago	▶ ⋮ 🗑
	lucid_tesla f7a6fc20d9df	spring-boot-docker.jar	Exited (1)	9090:8080	15 minutes ago	▶ ⋮ 🗑
	eager_kare bef8c3745cda	spring-boot-docker.jar	Exited (1)	9090:8080	11 minutes ago	▶ ⋮ 🗑
	stupefied_galois b96e39cd828c	spring-boot-docker.jar	Exited (1)	8080:8080	5 minutes ago	▶ ⋮ 🗑

Showing 6 items

RAM 3.71 GB   Connected to Hub   v4.18.0

Type here to search   16:38   24-04-2023