DEPLOY THE JAR IN THE CONTAINER WITH THE HELP OF DOCKERFILE AND HIT THE ENDPOINT

PREREQUISITES - Create the EC2 instance with T2.MICRO and UBUNTU

Maven - https://github.com/praveen1994dec/tools_installation_scripts/blob/main/Maven.sh=

Docker - https://github.com/praveen1994dec/tools installation scripts/blob/main/docker.sh

Step 1 - Go to https://github.com/praveen1994dec/Java app 3.0.git

Step 2 - Clone the code in EC2 in OPT folder

cd /opt/

git clone https://github.com/praveen1994dec/Java app 3.0.git

```
root@ip-172-31-30-199:/opt# ls -lrta
total 16
drwxr-xr-x 19 root root 4096 Feb 3 05:12 ..
drwx--x-x 4 root root 4096 Feb 3 05:18 containerd
drwxr-xr-x 4 root root 4096 Feb 3 05:18 .
drwxr-xr-x 6 root root 4096 Feb 3 06:38 Java_app_3.0
```

Step 2.1 - Go to the folder Java app 3.0 and execute the below command

maven clean install -DskipTests

[Check inside the Target folder for the jar]

Step 3 - Go over the Dockerfile

cd Java_app_3.0/Dockerfile

```
WORKDIR /app

RUN chmod -R 777 /app

COPY ./target/*.jar /app.jar

CMD ["java", "-jar", "/app.jar"]

~
```

Step 4 - Build the Docker Image

docker image build -t praveensingam1994/heydevops:latest .

root@ip-172-31-30-199:/opt/Java_app_3.0# docker images							
REPOSITORY	TAG	IMAGE ID	CREATED	SIZE			
praveensingam1994/heydevops2	latest	f3f5f626d907	47 minutes ago	144MB			
praveensingam1994/heydevops3	latest	23281409a0f9	47 minutes ago	144MB			
praveensingam1994/heydevops1	latest	3f81ec2a1a59	About an hour ago	184MB			
praveensingam1994/heydevops	latest	1422ec2275c8	About an hour ago	144MB			

praveensingam1994 - Represents the docker repo username Heydevops - Image name Latest - tag . - current folder

Step 5 - Create the container

docker run -d -p 8080:8080 praveensingam1994/heydevops:latest

```
e451acb4133534eza104cz95170a06517ea06527c1bd91ee9a6cczzbzc]: B1Nd for 0.0.0.0:8080 failed: port is already alre
root@ip-172-31-30-199:/opt/Java_app_3.0# docker run -d -p 8081:8081 praveensingam1994/heydevops:latest
ld189bea0ccea27b364aeb25d02d790026738caf64e2e7cf6f445bc84d3f09bf
root@ip-172-31-30-199:/opt/Java_app_3.0#
```

Step 6 - Check all the running and non running list of containers

docker ps -a

		-		
root@ip-172-31	l-30-199:/opt/Java_app_3.0# docker ps	-a		
CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS
PORTS	NAME	S		
1d189bea0cce	praveensingam1994/heydevops:latest	"java -jar app.jar"	47 seconds ago	Exited (1) 46
	jovi	al kilby		
df44250d0d53	praveensingam1994/heydevops:latest	"java -jar app.jar"	About a minute ago	Created
	pens	ive sutherland		
6ebf9b521696	praveensingam1994/heydevops3:latest	"java -jar /app.jar"	About a minute ago	Created
	admi	ring leakey		
4ca58667deec	praveensingam1994/heydevops3:latest	"java -jar /app.jar"	31 minutes ago	Up 31 minutes
0.0.0.0:808	30->8080/tcp, :::8080->8080/tcp fros	ty mclean		•
7fc5allee4al	praveensingam1994/heydevops2:latest		50 minutes ago	Exited (1) 50
		boyant chandrasekhar		
8ea0814ef5d5	praveensingam1994/heydevops1:latest		55 minutes ago	Exited (1) 55
		keller		
1c7da1639e71	praveensingam1994/heydevops:latest		56 minutes ago	Exited (1) 56
		rdly sanderson	ago	(1) 30 .

Step 7 - Check the logs of container

docker logs <Container ID>

```
root@ip-172-31-30-199:/opt/Java_app_3.0# docker logs 4ca58667deec
2024-02-03 06:27:57.238 INFO 1 -
                                                                                                                                              main] trationDelegate$BeanPostProcessorChecker : Bean
                                                                                                         [
 .cloud.autoconfigure.ConfigurationPropertiesRebinderAutoConfiguration' of type [org.springframework.cloud.autoconfigure.ConfigurationPropertiesRebinderAutoConfiguration' of type [org.springframework.cloud.autoconfigure.ConfigurationPropertiesRebinderAutoConfiguration' of type [org.springframework.cloud.autoconfigurationPropertiesRebinderAutoConfiguration' of type [org.springframework.cloud.autoconfigurationPropertiesRebinderAutoConfiguration' of type [org.springframework.cloud.autoconfigurationPropertiesRebinderAutoConfiguration' of type [org.springframework.cloud.autoconfigurationPropertiesRebinderAutoConfiguration' of type [org.springframework.cloud.autoconfiguration] of type [org.springframework.cloud.autoconfigurationPropertiesRebinderAutoconfiguration] of type [org.springframework.cloud.autoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationPropertiesRebinderAutoconfigurationP
nfigurationPropertiesRebinderAutoConfiguration] is not eligible for getting processed by all BeanPostPr
le: not eligible for auto-proxying)
2024-02-03 06:27:57.346 WARN 1 -
                                                                                                                                              main] io.fabric8.kubernetes.client.Config
ount token from: [/var/run/secrets/kubernetes.io/serviceaccount/token]. Ignoring.
2024-02-03 06:27:57.349 WARN 1 --
                                                                                                                                              main] io.fabric8.kubernetes.client.Config
                                                                                                                                                                                                                                                                                          : Error
                                                                                                      - [
ount token from: [/var/run/secrets/kubernetes.io/serviceaccount/token]. Ignoring.
2024-02-03 06:27:57.353 WARN 1 --- [
                                                                                                                                              {\tt main] o.s.c.k.} Kubernetes {\tt AutoConfiguration}
                                                                                                                                                                                                                                                                                          : No name
 ected. Please specify KUBERNETES_NAMESPACE env var, or use a later kubernetes version (1.3 or later)
2024-02-03 06:27:58.266 WARN 1 ---
                                                                                                                                              main] o.s.c.k.config.ConfigMapPropertySource
                                                                                                                                                                                                                                                                                          : Can't
```

Step 8 - Go inside the container and check for JAR file

docker exec -it <Container ID> /bin/sh

```
root@ip-172-31-30-199:/opt/Java_app_3.0# docker exec -it 4ca58667deec /bin/sh
/app # cd /
 #
   ls
         bin
                  etc
                            lib
                                      mnt
                                               proc
                                                         run
                                                                   srv
                                                                            tmp
                                                                                      var
                                                         sbin
         dev
                            media
                  home
                                      opt
                                               root
                                                                   sys
                                                                            usr
```

Step 9 - Open the Security Groups to All traffic in EC2 instance and hit the below URL

http://<EC2 PUBLIC IP>:8080/home/data



["name":null,"id":1,"place":"Hyderabad","value":null}

Step 10 - Terminate the instance