systemctl start docker # start docker daemon

docker images # can check whether daemon is running

or docker image ls

docker ps # check which docker running.

Successfully built b34ba7abcca4

Successfully tagged com.aaacoker/my.docker:0.0.1

<--- docker name

# gradle will use this package during docker building

# put at top of gradle.build

buildscript {

dependencies {

classpath('se.transmode.gradle:gradle-docker:1.2')

}

}

# at bottom of gralde.build , modify the WAR's name accordingly

apply plugin: 'docker'

task buildDocker(type: Docker, dependsOn: build) {

push = false

applicationName = 'my.docker'

dockerfile = file('src/main/docker/Dockerfile')

doFirst {

copy {

from "build/libs/${project.getName()}-${version}.war"

into 'build/docker'

}

}

}

FROM tomcat:8.5.47-jdk8-openjdk

MAINTAINER AndersonChau

# copy war file into container image under app directory

COPY my.docker-0.0.1.war webapps/testserver.war

# expose server port accept connections

RUN sed -i 's/port="8080"/port="9000"/' /usr/local/tomcat/conf/server.xml

EXPOSE 9000

# start application

CMD ["catalina.sh","run"]

./gradlew buildDocker # generate docker image

docker run -p 9000:9000 -t com.project/my.docker:0.0.1

# run docker

docker cp demo.war <CONTAINER\_ID>:/usr/local/tomcat/webapps

=============================================================================

root@anderson-Veriton-X4620G:~/workspace# docker rmi bf756fb1ae65

Error response from daemon: conflict: unable to delete bf756fb1ae65 (must be forced) - image is being used by stopped container f898988ba4e2

docker ps -a

docker stop container\_id # this is the way to graceful shutdown a docker

docker rm container\_id

OR

docker stop $(docker ps -a -q)

docker rm $(docker ps -a -q)

=============================================================================

Networking :

docker network ls # check container's network mode

default it is bridge mode

docker exec -it d07917419fc2 ip addr show # to check docker's

#by default bridge mode, the container can already to outside world( if host can)

docker exec -it d07917419fc2 ping www.google.com # for checking

=============================================================================

log file location (e.g. tomcat bootup , system exception ) :

/var/lib/docker/containers/<container\_id>/<container\_id>-json.log

=============================================================================

docker volume :

docker run -p 9000:9000 -t com.project/my.docker:0.0.1

docker run -p 9000:9000 -t com.project/my.docker:0.0.1

docker run -v /home/anderson/docker\_host\_data:/data -p 9000:9000 -t com.example/dome.docker:0.0.1

(/home/anderson/docker\_host\_data -> host machine mount point )

(/data -> mapped to docker mount point )