Application Image Build

```
dbasak2013@bootcamp-1:~/bootcamp/war-test$ sudo docker build -t dipankar435/war-test -f warapp.Dockerfile .
Sending build context to Docker daemon  138.2kB
Step 1/6 : FROM dipankar435/tomcat9_ubuntu18.04
 ---> 11ea7a884d01
Step 2/6 : MAINTAINER dbasak2013@gmail.com
 ---> Using cache
 ---> 3549f0dbe022
Step 3/6 : WORKDIR /opt/tomcat/webapps
 ---> Using cache
 ---> 75e3e3887e99
Step 4/6 : COPY target/*.war .
 ---> Using cache
 ---> 2f0925279ef0
Step 5/6 : EXPOSE 8080
 ---> Using cache
 ---> 1b6b7910ddd4
Step 6/6 : CMD ["/opt/tomcat/bin/catalina.sh", "run"]
 ---> Using cache
 ---> c4c2b5c856d7
Successfully built c4c2b5c856d7
Successfully tagged dipankar435/war-test:latest
```

docker-compose up

```
dbasak2013@bootcamp-1:~/bootcamp$ sudo docker-compose up
Creating bootcamp_webapp_1 ... done
Creating bootcamp_db_1     ... done
Attaching to bootcamp_webapp_1, bootcamp_db_1
db_1       | 2020-07-22 09:25:40+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.21-1debian10 started.
db_1       | 2020-07-22 09:25:40+00:00 [Note] [Entrypoint]: Switching to dedicated user 'mysql'
db_1       | 2020-07-22 09:25:40+00:00 [Note] [Entrypoint]: Entrypoint script for MySQL Server 8.0.21-1debian10 started.
db_1       | 2020-07-22 09:25:40+00:00 [Note] [Entrypoint]: Initializing database files
db_1       | 2020-07-22T09:25:40.437012Z 0 [System] [MY-013169] [Server] /usr/sbin/mysqld (mysqld 8.0.21) initializing of server in progress as process 42
db_1       | 2020-07-22T09:25:40.455779Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
webapp_1   | 22-Jul-2020 09:25:40.970 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server version name:   Apache Tomcat/9.0.36
webapp_1   | 22-Jul-2020 09:25:40.979 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server built:          Jun 3 2020 17:07:09 UTC
webapp_1   | 22-Jul-2020 09:25:40.980 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Server version number: 9.0.36.0
webapp_1   | 22-Jul-2020 09:25:40.982 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Name:               Linux
webapp_1   | 22-Jul-2020 09:25:40.983 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log OS Version:            5.4.0-1021-gcp
webapp_1   | 22-Jul-2020 09:25:40.983 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Architecture:          amd64
webapp_1   | 22-Jul-2020 09:25:40.986 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Java Home:             /usr/lib/jvm/java-8-openjdk-amd64/jre
webapp_1   | 22-Jul-2020 09:25:40.987 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Version:           1.8.0_252-8u252-b09-1~18.04-b09
webapp_1   | 22-Jul-2020 09:25:40.988 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log JVM Vendor:            Private Build
webapp_1   | 22-Jul-2020 09:25:40.988 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_BASE:         /opt/tomcat
webapp_1   | 22-Jul-2020 09:25:40.988 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log CATALINA_HOME:         /opt/tomcat
webapp_1   | 22-Jul-2020 09:25:40.989 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.util.logging.config.file=/opt/tomcat/conf/
logging.properties
webapp_1   | 22-Jul-2020 09:25:40.992 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.util.logging.manager=org.apache.juli.Class
LoaderLogManager
webapp_1   | 22-Jul-2020 09:25:40.993 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djdk.tls.ephemeralDHKeySize=2048
webapp_1   | 22-Jul-2020 09:25:40.993 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.protocol.handler.pkgs=org.apache.catalina.
webresources
webapp_1   | 22-Jul-2020 09:25:40.994 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dorg.apache.catalina.security.SecurityListener.U
MASK=0027
webapp_1   | 22-Jul-2020 09:25:40.995 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dignore.endorsed.dirs=
webapp_1   | 22-Jul-2020 09:25:40.995 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.base=/opt/tomcat
webapp_1   | 22-Jul-2020 09:25:40.996 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Dcatalina.home=/opt/tomcat
webapp_1   | 22-Jul-2020 09:25:40.997 INFO [main] org.apache.catalina.startup.VersionLoggerListener.log Command line argument: -Djava.io.tmpdir=/opt/tomcat/temp
webapp_1   | 22-Jul-2020 09:25:40.998 INFO [main] org.apache.catalina.core.AprLifecycleListener.lifecycleEvent The Apache Tomcat Native library which allows using OpenSSL was n
ot found on the java.library.path: [/usr/java/packages/lib/amd64:/usr/lib/x86_64-linux-gnu/jni:/lib/x86_64-linux-gnu:/usr/lib/x86_64-linux-gnu:/usr/lib/jni:/lib:/usr/lib]
webapp_1   | 22-Jul-2020 09:25:41.621 INFO [main] org.apache.coyote.AbstractProtocol.init Initializing ProtocolHandler ["http-nio-8080"]
```

```
webapp_1   | 22-Jul-2020 09:25:43.224 INFO [main] org.apache.catalina.startup.HostConfig.deployDirectory Deployment of web application directory [/opt/tomcat/webapps/docs] has
finished in [51] ms
webapp_1   | 22-Jul-2020 09:25:43.235 INFO [main] org.apache.coyote.AbstractProtocol.start Starting ProtocolHandler ["http-nio-8080"]
webapp_1   | 22-Jul-2020 09:25:43.267 INFO [main] org.apache.catalina.startup.Catalina.start Server startup in [1,541] milliseconds
db_1       | 2020-07-22T09:25:44.047609Z 6 [Warning] [MY-010453] [Server] root@localhost is created with an empty password ! Please consider switching off the --initialize-inse
cure option.
db_1       | 2020-07-22 09:25:47+00:00 [Note] [Entrypoint]: Database files initialized
db_1       | 2020-07-22 09:25:47+00:00 [Note] [Entrypoint]: Starting temporary server
db_1       | 2020-07-22T09:25:47.894837Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 8.0.21) starting as process 89
db_1       | 2020-07-22T09:25:47.916468Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
db_1       | 2020-07-22T09:25:48.191564Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
db_1       | 2020-07-22T09:25:48.319149Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Socket: /var/run/mysqld/mysqlx.sock
db_1       | 2020-07-22T09:25:48.443423Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is self signed.
db_1       | 2020-07-22T09:25:48.443676Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS. Encrypted connections are now supported for this channel.
db_1       | 2020-07-22T09:25:48.477760Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS
users. Consider choosing a different directory.
db_1       | 2020-07-22T09:25:48.469252Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Version: '8.0.21'  socket: '/var/run/mysqld/mysqld.sock'  port
: 0  MySQL Community Server - GPL.
db_1       | 2020-07-22 09:25:48+00:00 [Note] [Entrypoint]: Temporary server started.
db_1       | Warning: Unable to load '/usr/share/zoneinfo/iso3166.tab' as time zone. Skipping it.
db_1       | Warning: Unable to load '/usr/share/zoneinfo/leap-seconds.list' as time zone. Skipping it.
db_1       | Warning: Unable to load '/usr/share/zoneinfo/zone.tab' as time zone. Skipping it.
db_1       | Warning: Unable to load '/usr/share/zoneinfo/zone1970.tab' as time zone. Skipping it.
db_1       | 2020-07-22 09:25:51+00:00 [Note] [Entrypoint]: Creating database testdb
db_1       | 2020-07-22 09:25:51+00:00 [Note] [Entrypoint]: Creating user admin
db_1       | 2020-07-22 09:25:51+00:00 [Note] [Entrypoint]: Giving user admin access to schema testdb
db_1       |
db_1       | 2020-07-22 09:25:51+00:00 [Note] [Entrypoint]: Stopping temporary server
db_1       | 2020-07-22T09:25:51.800109Z 14 [System] [MY-013172] [Server] Received SHUTDOWN from user root. Shutting down mysqld (Version: 8.0.21).
db_1       | 2020-07-22T09:25:54.374886Z 0 [System] [MY-010910] [Server] /usr/sbin/mysqld: Shutdown complete (mysqld 8.0.21)  MySQL Community Server - GPL.
db_1       | 2020-07-22 09:25:54+00:00 [Note] [Entrypoint]: Temporary server stopped
db_1       |
db_1       | 2020-07-22 09:25:54+00:00 [Note] [Entrypoint]: MySQL init process done. Ready for start up.
db_1       |
db_1       | 2020-07-22T09:25:55.108450Z 0 [System] [MY-010116] [Server] /usr/sbin/mysqld (mysqld 8.0.21) starting as process 1
db_1       | 2020-07-22T09:25:55.120677Z 1 [System] [MY-013576] [InnoDB] InnoDB initialization has started.
db_1       | 2020-07-22T09:25:55.394550Z 1 [System] [MY-013577] [InnoDB] InnoDB initialization has ended.
db_1       | 2020-07-22T09:25:55.517615Z 0 [System] [MY-011323] [Server] X Plugin ready for connections. Bind-address: '::' port: 33060, socket: /var/run/mysqld/mysqlx.sock
db_1       | 2020-07-22T09:25:55.599821Z 0 [Warning] [MY-010068] [Server] CA certificate ca.pem is self signed.
db_1       | 2020-07-22T09:25:55.600087Z 0 [System] [MY-013602] [Server] Channel mysql_main configured to support TLS. Encrypted connections are now supported for this channel.
db_1       | 2020-07-22T09:25:55.604772Z 0 [Warning] [MY-011810] [Server] Insecure configuration for --pid-file: Location '/var/run/mysqld' in the path is accessible to all OS
users. Consider choosing a different directory.
db_1       | 2020-07-22T09:25:55.626475Z 0 [System] [MY-010931] [Server] /usr/sbin/mysqld: ready for connections. Version: '8.0.21'  socket: '/var/run/mysqld/mysqld.sock'  port
: 3306  MySQL Community Server - GPL.
```