

## 1. Docker images

```
ubuntu@ip-172-31-11-27:~/war-test$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
tomcat_webapp        2.0                aa2a80a56941       2 hours ago        147MB
tomcat_webapp        1.0                f4b0bcefd0eb       2 hours ago        147MB
mysql                latest             5ac22cccc3ae       36 hours ago       544MB
tomcat                8.0-alpine         624fb61775c3       22 months ago      147MB
ubuntu@ip-172-31-11-27:~/war-test$
```

## 2. Dockerfile

```
ubuntu@ip-172-31-11-27:~/war-test$ cat Dockerfile
FROM tomcat:8.0-alpine

COPY target/*.war webapps/

MAINTAINER "rahulkalithkar1996@gmail.com"
ubuntu@ip-172-31-11-27:~/war-test$
```

## 3. Docker container running

```
ubuntu@ip-172-31-11-27:~/war-test$ docker ps
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS
b60737249160       aa2a80a56941       "catalina.sh run"   4 minutes ago      Up 28 seconds      0.0.0.0:8080->8080
/tcp               modest_wilbur
ubuntu@ip-172-31-11-27:~/war-test$
```

## 4. Web application running on local:



## 5. docker-compose.yaml file

```
ubuntu@ip-172-31-11-27:~/war-test$ cat docker-compose.yaml
version: '3.1'

services:

  db:
    image: mysql
    command: --default-authentication-plugin=mysql_native_password
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: example

  tomcat_web:
    image: tomcat_webapp:2.0
    ports:
      - "8080:8080"
ubuntu@ip-172-31-11-27:~/war-test$
```

## 6. docker-compose up and running

```
ubuntu@ip-172-31-11-27:~/war-test$ docker-compose up -d
Creating network "wartest_default" with the default driver
Creating wartest_tomcat_web_1 ...
Creating wartest_db_1 ...
Creating wartest_tomcat_web_1
Creating wartest_tomcat_web_1 ... done
ubuntu@ip-172-31-11-27:~/war-test$ docker ps
CONTAINER ID   IMAGE             COMMAND                  CREATED        STATUS        PORTS
8765deaac82f   mysql            "docker-entrypoint.s..." 15 seconds ago Up 14 seconds 3306/tcp, 330
60/tcp        wartest_db_1
6c3ce78f24e5   tomcat_webapp:2.0 "catalina.sh run"        15 seconds ago Up 13 seconds  0.0.0.0:8080->
>8080/tcp     wartest_tomcat_web_1
ubuntu@ip-172-31-11-27:~/war-test$
```