Docker compose in windows system via docker toolbox software

MINGW64:/c/Program Files/Docker Toolbox

```
                           ##         .
                     ## ## ##        ==
                  ## ## ## ## ##    ===
              /"""""""""""""""""\___/ ===
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docker is configured to use the default machine with IP 192.168.99.100
For help getting started, check out the docs at https://docs.docker.com


Start interactive shell

PRADEEP@DESKTOP-N22R4FB MINGW64 /c/Program Files/Docker Toolbox
$
```


MINGW64:/d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test

```
PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$ cat Docker
Docker Screenshot/        Docker_Screenshots.docx  Docker_Screenshots.pdf    docker-compose.yml        Dockerfile

PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$ cat Dockerfile
FROM tomcat:latest
ADD ./target/war-test.war /usr/local/tomcat/webapps/
CMD chmod +x /usr/local/tomcat/bin/catalina.sh
CMD ["catalina.sh", "run"]
PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$ cat docker-compose.yml
version: '3'

services:

  tomcat-dev:
    build: .
    ports:
      - "8080:8080"

  database:
    image: mysql
    command: --default-authentication-plugin=mysql_native_password
    restart: always
    ports:
      - "3306:3306"
    environment:
      MYSQL_ROOT_PASSWORD: example
PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$
```

```
PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$ pwd
/d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test

PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$ docker images
REPOSITORY          TAG              IMAGE ID          CREATED          SIZE

PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$ docker-compose up -d
Building tomcat-dev
Step 1/4 : FROM tomcat:latest
latest: Pulling from library/tomcat
e9afc4f90ab0: Already exists
989e6b19a265: Already exists
af14b6c2f878: Already exists
5573c4b30949: Already exists
fb1a405f128d: Already exists
612a9f566fdc: Already exists
4226f9b63dac: Already exists
cb8bfe875d7f: Already exists
5aa366608b6d: Already exists
4b7c9018ca5f: Already exists
Digest: sha256:46456ccf216f2fde198844d5c7d511f60e3ffc2ea3828e0cce9a2eed566e48e2
Status: Downloaded newer image for tomcat:latest
 ---> df72227b40e1
Step 2/4 : ADD ./target/war-test.war /usr/local/tomcat/webapps/
 ---> 0d5c5e54385f
Step 3/4 : CMD chmod +x /usr/local/tomcat/bin/catalina.sh
 ---> Running in 5f57fe95e625
Removing intermediate container 5f57fe95e625
 ---> 3c5210e1e1af
Step 4/4 : CMD ["catalina.sh", "run"]
 ---> Running in 8b50e00efafe
Removing intermediate container 8b50e00efafe
 ---> 8cff63c6eab4
Successfully built 8cff63c6eab4
Successfully tagged war-test_tomcat-dev:latest
WARNING: Image for service tomcat-dev was built because it did not already exist. To rebuild this image you must use `docker-compose build` or `docker-compose up --build`.
Pulling database (mysql:)...
latest: Pulling from library/mysql
8559a31e96f4: Already exists
d51ce1c2e575: Already exists
c2344adc4858: Already exists
fcf3ceff18fc: Already exists
16da0c38dc5b: Already exists
b905d1797e97: Already exists
4b50d1c6b05c: Already exists
571e8a282156: Already exists
```

```
Digest: sha256:46456ccf216f2fde198844d5c7d511f60e3ffc2ea3828e0cce9a2eed566e48e2
Status: Downloaded newer image for tomcat:latest
 ---> df72227b40e1
Step 2/4 : ADD ./target/war-test.war /usr/local/tomcat/webapps/
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 ---> Running in 8b50e00efafe
Removing intermediate container 8b50e00efafe
 ---> 8cff63c6eab4
Successfully built 8cff63c6eab4
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16da0c38dc5b: Already exists
b905d1797e97: Already exists
4b50d1c6b05c: Already exists
571e8a282156: Already exists
e7cc823c6090: Already exists
89f6364a8689: Already exists
55e5b10f33a4: Already exists
68129e7a0316: Already exists
Digest: sha256:c455bbcaa8b9c5c636c45f6184f970caeb3d8b545a0390e1b72a253e07aef8fd
Status: Downloaded newer image for mysql:latest
Recreating war-test_tomcat-dev_1 ... error
Starting war-test_database_1    ...

Starting war-test_database_1    ... done

ERROR: for tomcat-dev  no such image: sha256:946844db16f494695875f0d0a57395727e60d228eb72dfeb7435c3a9fba8356e: No such image: sha256:946844db16f494695875f0d0a57395727e60d228eb72dfeb7435c3a9fba8356e
ERROR: The image for the service you're trying to recreate has been removed. If you continue, volume data could be lost. Consider backing up your data before continuing.

Continue with the new image? [yN]y
war-test_database_1 is up-to-date
Recreating 4f0104d9fdeb_war-test_tomcat-dev_1 ... done

PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$
```

```
PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$ docker-compose up -d
Starting war-test_tomcat-dev_1 ... done                                                    Starting war-test_database_1   ... done

PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$ docker ps
CONTAINER ID     IMAGE               COMMAND                CREATED        STATUS          PORTS                                   NAMES
9188ef4a29a9     war-test_tomcat-dev "catalina.sh run"      16 hours ago   Up 32 minutes   0.0.0.0:8080->8080/tcp                  war-test_tomcat-dev_1
078aae438858     mysql               "docker-entrypoint.s…" 16 hours ago   Up 32 minutes   0.0.0.0:3306->3306/tcp, 33060/tcp       war-test_database_1

PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$ docker exec -it 078aae438858
"docker exec" requires at least 2 arguments.
See 'docker exec --help'.

Usage:  docker exec [OPTIONS] CONTAINER COMMAND [ARG...]

Run a command in a running container

PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$ mysql --version
bash: mysql: command not found

PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$ docker exec -it 078aae438858 bash
root@078aae438858:/# mysql --version
mysql  Ver 8.0.21 for Linux on x86_64 (MySQL Community Server - GPL)
root@078aae438858:/# exit
exit

PRADEEP@DESKTOP-N22R4FB MINGW64 /d/Software/eclipse-jee-neon-3-win32-x86_64/workspace/war-test (master)
$
```

DevOps World

Not secure | 192.168.99.100:8080/war-test/

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