

Neo4j Docker Container (local machine docker test)

1. Download neo4j db image from docker hub.

Command to use:

list docker images that are downloaded from docker hub

```
docker images
```

download/pull image from docker hub

```
docker pull neo4j:latest
```

```
Vijays-MacBook-Air:~ vijay$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
gumball              latest             9cc381bf009a       6 days ago         757MB
goapi                latest             c670df46c03b       7 days ago         783MB
rabbitmq             3-management       2ac724eab066       7 days ago         124MB
starbucks            latest             796ad55f160c       7 days ago         743MB
golang              latest             99e596fc807e       10 days ago        733MB
openjdk              latest             74c95c985a85       11 days ago        740MB
mysql                5.5                6929c9b0e536       11 days ago        257MB
mongo                latest             42e262dc0845       11 days ago        361MB
cassandra            2.2                d7903aea3314       11 days ago        366MB
kong                 0.9.9              3456bd2afcb5       5 weeks ago        324MB
kong                 latest             604ef970973d       5 weeks ago        313MB
Vijays-MacBook-Air:~ vijay$
Vijays-MacBook-Air:~ vijay$
Vijays-MacBook-Air:~ vijay$ docker pull neo4j:latest
latest: Pulling from library/neo4j
88286f41530e: Pull complete
720349d0916a: Pull complete
9431a0557160: Pull complete
1b189c09a59e: Pull complete
78d0293957da: Pull complete
77827d12bff4: Pull complete
e332506dd94f: Pull complete
Digest: sha256:da613afd807734cbdbbce473cf60aef0043a9393ab7763837b57053596f9f23
Status: Downloaded newer image for neo4j:latest
Vijays-MacBook-Air:~ vijay$ docker images | grep -i neo4j
neo4j                latest             fafb244f3223       2 weeks ago        174MB
Vijays-MacBook-Air:~ vijay$
```

2. Run docker container

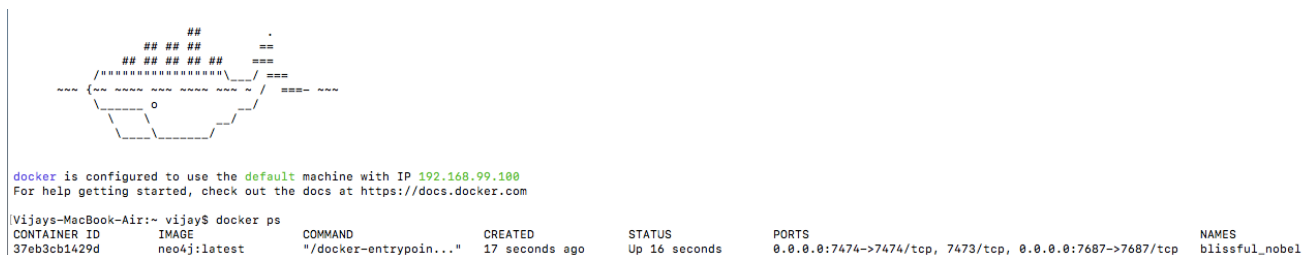
list running docker container

```
docker ps
```

run docker container using image neo4j:latest that we have downloaded above

```
docker run \
  --publish=7474:7474 --publish=7687:7687 \
  --volume=$HOME/neo4j/data:/data \
  neo4j
```

This bind two ports (7474 and 7687) for HTTP and Bolt access to the Neo4j API. A volume is bound to /data to allow the database to be persisted outside the container.



```
root@default:~#  
root@default:~#  
root@default:~#  
root@default:~# ps -ef | grep -i neo4j  
root      2850   2837  30   04:54  ?                00:00:18 /usr/lib/jvm/java-1.8-openjdk/jr  
e/bin/java -cp /var/lib/neo4j/plugins:/var/lib/neo4j/conf:/var/lib/neo4j/lib/*:/  
var/lib/neo4j/plugins/* -server -Xms512M -Xmx512M -XX:+UseG1GC -XX:-OmitStackTra  
ceInFastThrow -XX:+AlwaysPreTouch -XX:+UnlockExperimentalVMOptions -XX:+TrustFin  
alNonStaticFields -XX:+DisableExplicitGC -Djdk.tls.ephemeralDHKeySize=2048 -Duns  
upported.dbms.udc.source=tarball -Dfile.encoding=UTF-8 org.neo4j.server.Communit  
yEntryPoint --home-dir=/var/lib/neo4j --config-dir=/var/lib/neo4j/conf  
root      3160   1204  0   04:55  tty1            00:00:00 grep -i neo4j  
root@default:~#  
root@default:~#
```

5. Access neo4j via browser at `http://localhost:7474` or via local machine IP i.e. `http://192.168.99.100:7474` (in this case).

