

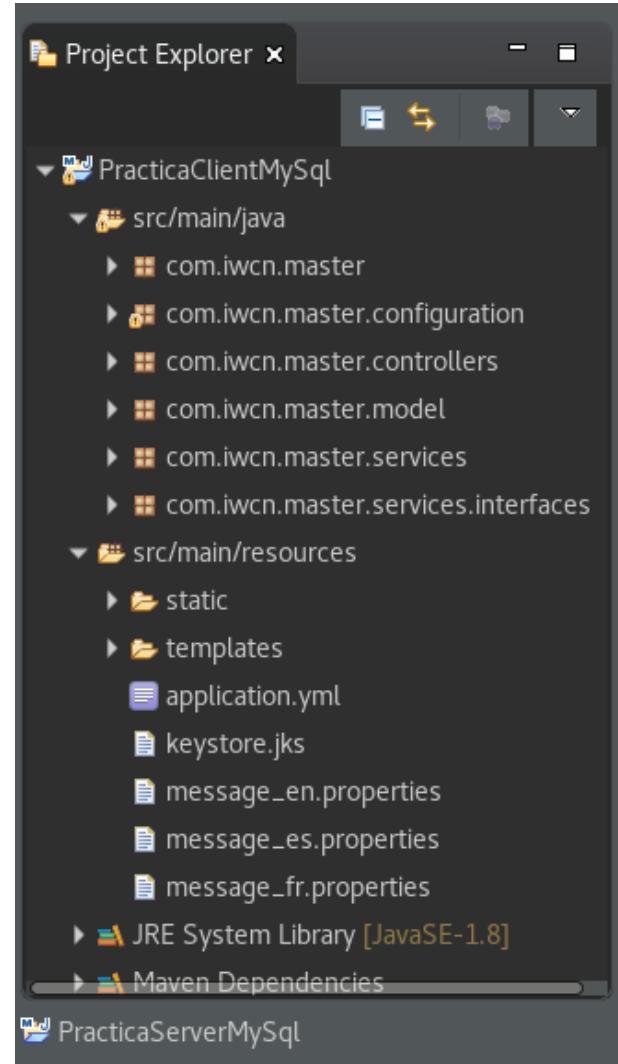
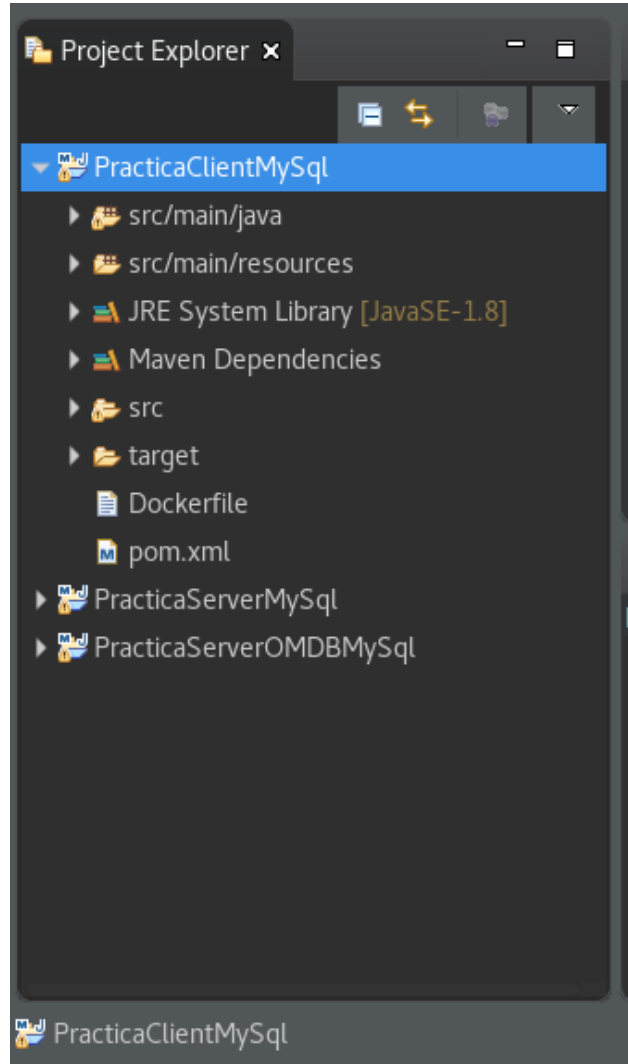
# Videoclub, Docker e Integración continua

Eva López Puente  
Lorena Martín Tejera

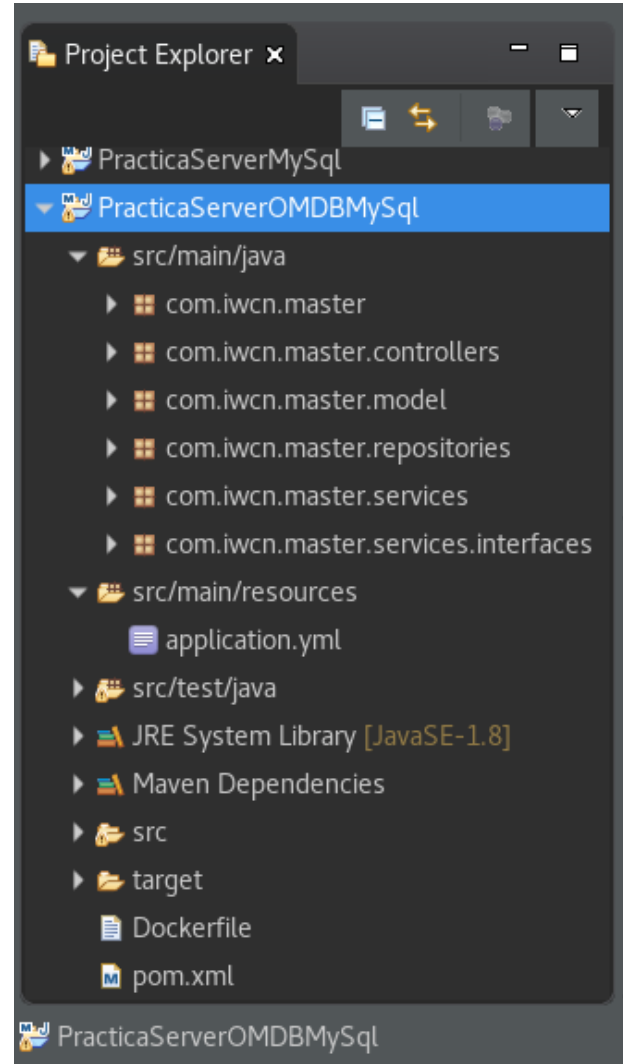
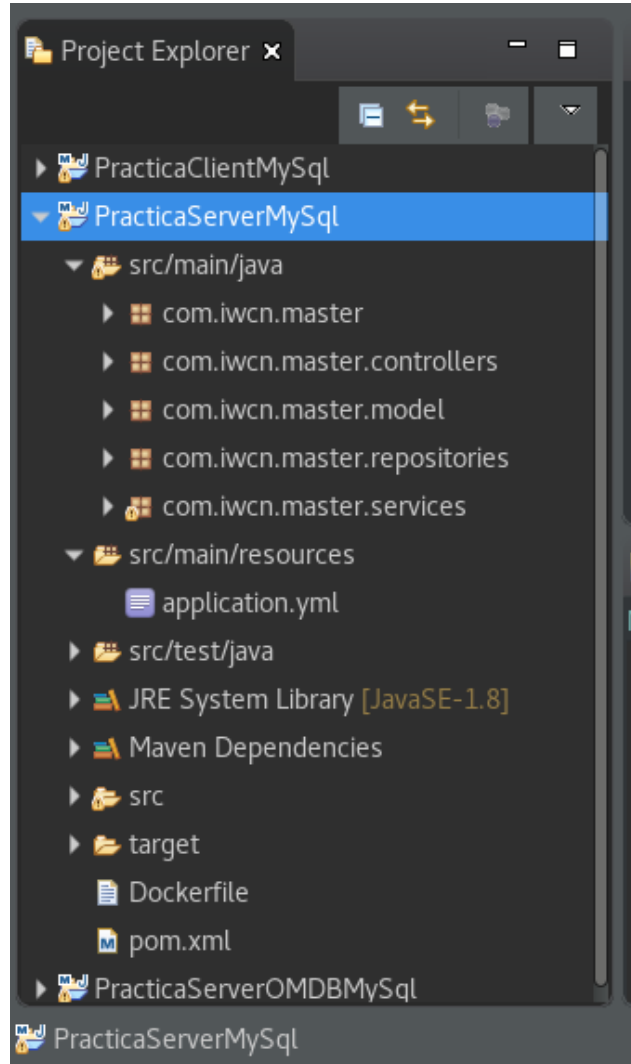
# ÍNDICE

- ▶ Arquitectura de la aplicación
- ▶ Descripción de la implementación
- ▶ Sonar
- ▶ Docker
- ▶ Travis
- ▶ Dificultades encontradas
- ▶ Conclusiones

# ARQUITECTURA DE LA APLICACIÓN



# ARQUITECTURA DE LA APLICACIÓN



# DESCRIPCIÓN DE LA IMPLEMENTACIÓN: ENDPOINT USUARIOS

- ▶ /denied
- ▶ / y /principal
- ▶ /login y /salir
- ▶ /principal/usuario
- ▶ /principal/finUsuario
- ▶ /principal/listUser
- ▶ /principal/busqueda4
- ▶ /principal/usuario/{optio}
- ▶ /principal/usuario/borrar/{optio}
- ▶ /principal/usuario/editar/{optio}
- ▶ /principal/usuario/modificar

# DESCRIPCIÓN DE LA IMPLEMENTACIÓN: ENDPOINT PELÍCULAS

- ▶ /error
- ▶ /principal/busqueda
- ▶ /principal/busqueda2
- ▶ /principal/busqueda3
- ▶ /principal/peliculaBD/anadir
- ▶ /principal/pelicula/{optio}
- ▶ /principal/new
- ▶ /principal/fin
- ▶ /principal/finOMDB/{optio}

# DESCRIPCIÓN DE LA IMPLEMENTACIÓN: ENDPOINT PELÍCULAS

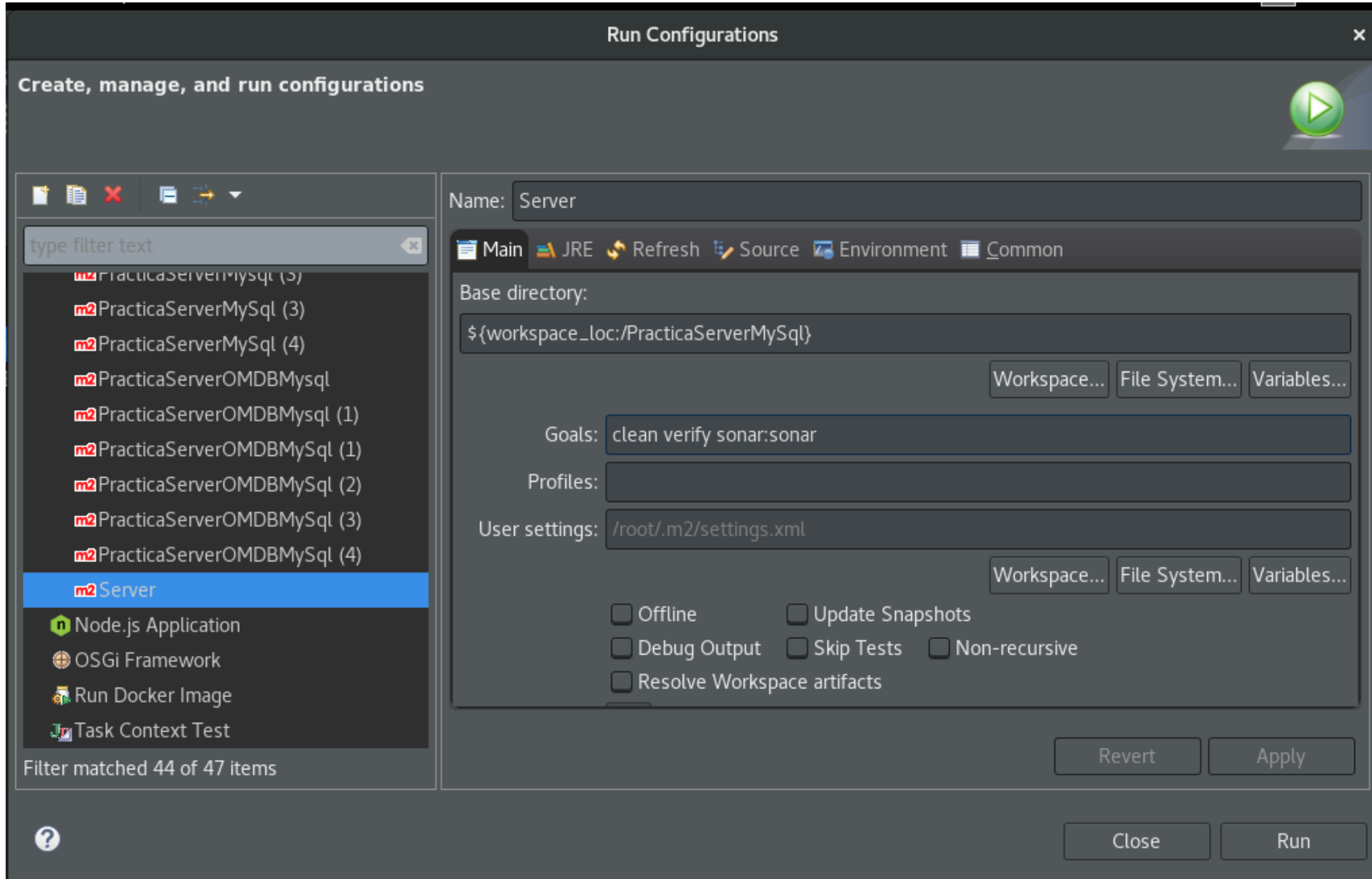
- ▶ /principal/list
- ▶ /principal/peliculaBD/{optio}
- ▶ /principal/peliculaBD/borrar/{optio}
- ▶ /principal/peliculaBD/editar/{optio}
- ▶ /principal/peliculaBD/modificar

# SONAR

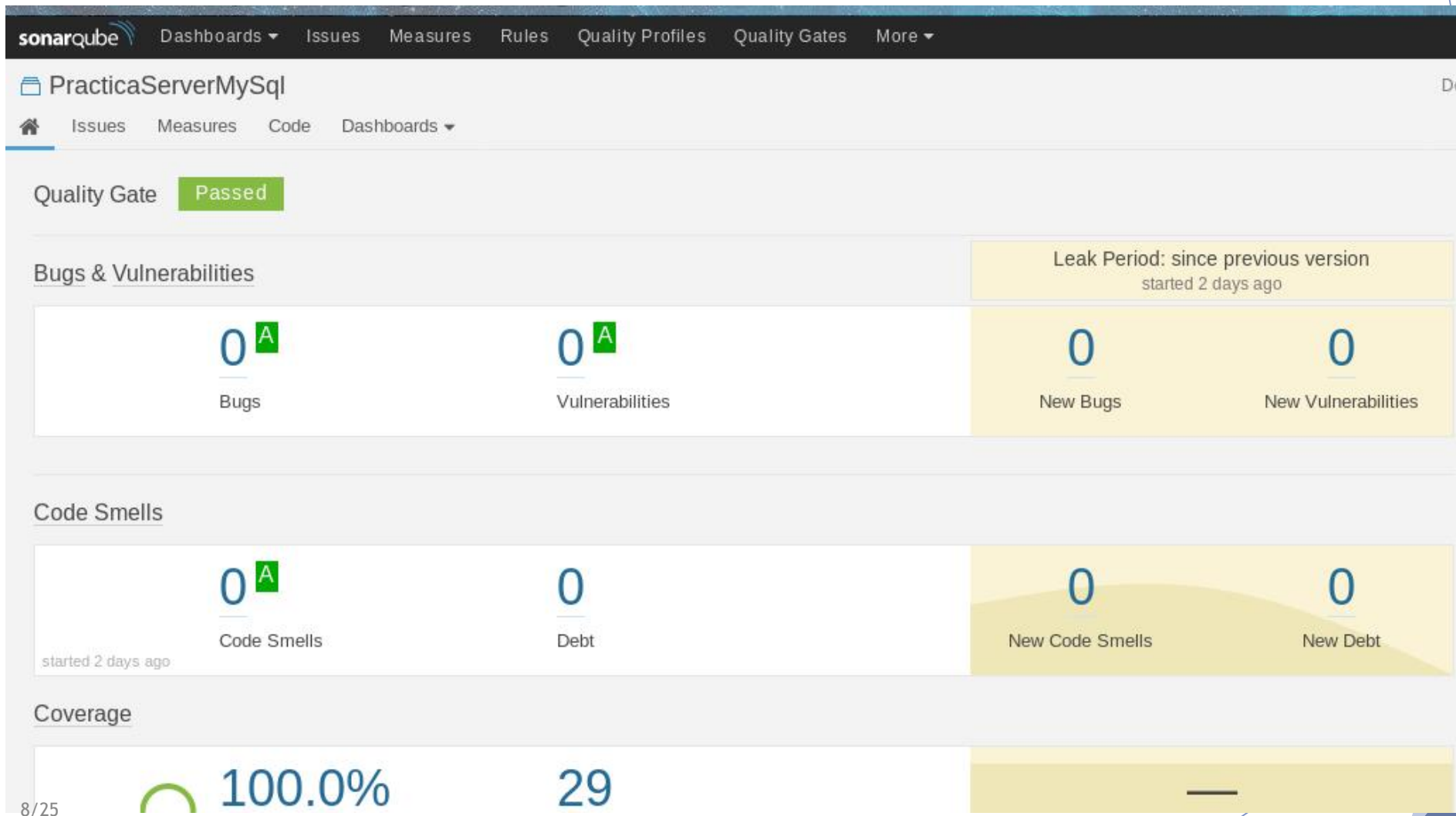
```
root@kali: /etc/sonarqube/bin/linux-x86-64
File Edit View Search Terminal Help
root@kali:/etc/sonarqube/bin/linux-x86-64# ./sonar.sh console
Running SonarQube...
wrapper --> WrapperStarted as Console sonar.sh wrapper
wrapper Launching a JVM...
jvm 1 | Wrapper (Version 3.2.3) http://wrapper.tanukisoftware.org
jvm 1 | Copyright 1999-2006 Tanuki Software, Inc. All Rights Reserved.
jvm 1 |
jvm 1 | 2017.12.13 11:20:30 INFO app[o.s.a.AppFileSystem] Cleaning or creating temp directory /etc/sonarqube/temp
jvm 1 | 2017.12.13 11:20:30 INFO app[o.s.p.m.JavaProcessLauncher] Launch process[es]: /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java -Djava.awt.h
eadless=true -Xmx1G -Xms256m -Xss256k -Djava.net.preferIPv4Stack=true -XX:+UseParNewGC -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75
-XX:+UseCMSInitiatingOccupancyOnly -XX:+HeapDumpOnOutOfMemoryError -Djava.io.tmpdir=/etc/sonarqube/temp -javaagent:/usr/lib/jvm/java-8-openjdk-amd64/
jre/lib/management-agent.jar -cp ./lib/common/*:./lib/search/* org.sonar.search.SearchServer /etc/sonarqube/temp/sq-process6957729758438595536propert
ies
jvm 1 | 2017.12.13 11:20:50 INFO app[o.s.p.m.Monitor] Process[es] is up
jvm 1 | 2017.12.13 11:20:50 INFO app[o.s.p.m.JavaProcessLauncher] Launch process[web]: /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java -Djava.awt.
headless=true -Dfile.encoding=UTF-8 -Djruby.management.enabled=false -Djruby.compile.invokedynamic=false -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemory
Error -Djava.net.preferIPv4Stack=true -Djava.io.tmpdir=/etc/sonarqube/temp -javaagent:/usr/lib/jvm/java-8-openjdk-amd64/jre/lib/management-agent.jar
-cp ./lib/common/*:./lib/server/*:./etc/sonarqube/lib/jdbc/h2/h2-1.3.176.jar org.sonar.server.app.WebServer /etc/sonarqube/temp/sq-process548425556057
1332931properties
jvm 1 | 2017.12.13 11:22:10 INFO app[o.s.p.m.Monitor] Process[web] is up
jvm 1 | 2017.12.13 11:22:10 INFO app[o.s.p.m.JavaProcessLauncher] Launch process[ce]: /usr/lib/jvm/java-8-openjdk-amd64/jre/bin/java -Djava.awt.h
eadless=true -Dfile.encoding=UTF-8 -Xmx512m -Xms128m -XX:+HeapDumpOnOutOfMemoryError -Djava.net.preferIPv4Stack=true -Djava.io.tmpdir=/etc/sonarqube/
temp -javaagent:/usr/lib/jvm/java-8-openjdk-amd64/jre/lib/management-agent.jar -cp ./lib/common/*:./lib/server/*:./lib/ce/*:./etc/sonarqube/lib/jdbc/h
2/h2-1.3.176.jar org.sonar.ce.app.CeServer /etc/sonarqube/temp/sq-process848939959600399077properties
jvm 1 | 2017.12.13 11:22:34 INFO app[o.s.p.m.Monitor] Process[ce] is up
```



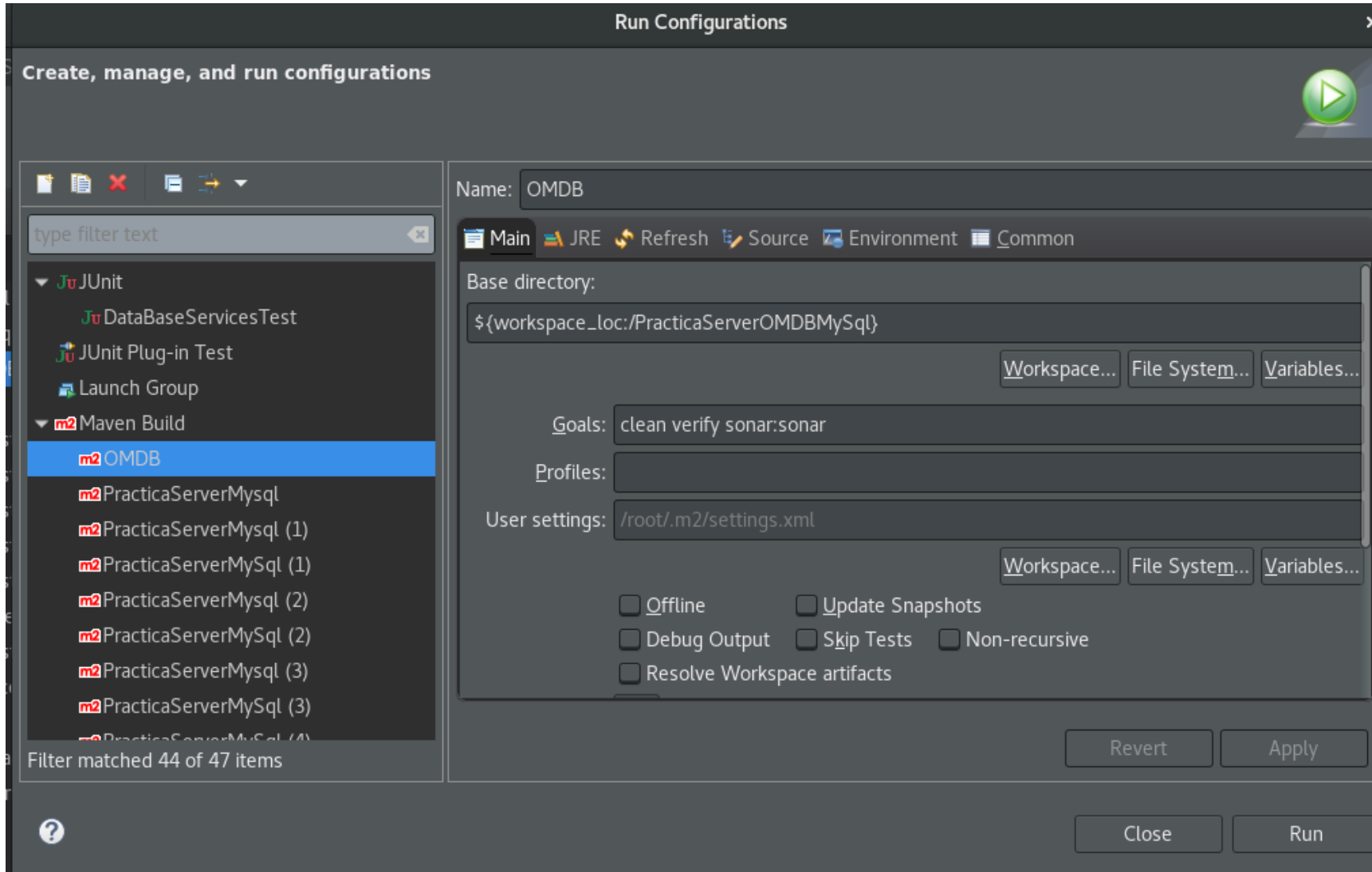
# SONAR: SERVIDOR



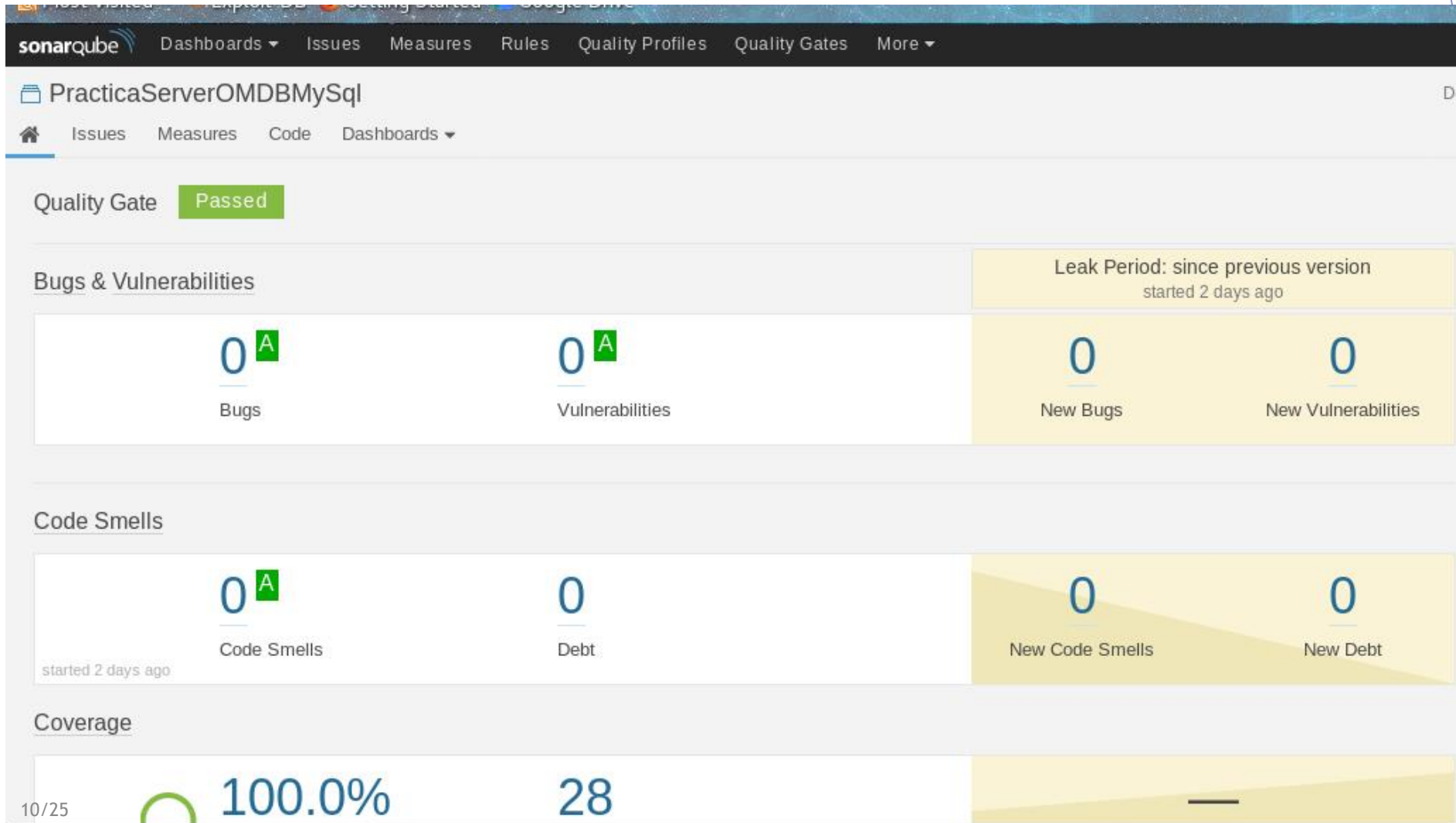
# SONAR: SERVIDOR



# SONAR: SERVIDOR OMDB



# SONAR: SERVIDOR OMDB



# DOCKER: DOCKERFILE SERVIDOR

---

```
1 FROM java:8
2 MAINTAINER Eva Lopez Puente, Lorena Martin Tejera
3 EXPOSE 8080
4 VOLUME /tmp
5 ADD /target/PracticaServerMySql-0.0.1-SNAPSHOT.jar practicaserver.jar
6 ENTRYPOINT ["java","-jar","practicaserver.jar"]
```

---

# DOCKER: DOCKERFILE SERVIDOR OMDB

---

```
1 FROM java:8
2 MAINTAINER Eva Lopez Puente, Lorena Martin Tejera
3 EXPOSE 8081
4 VOLUME /tmp
5 ADD /target/PracticaServerOMDBMySQL-0.0.1-SNAPSHOT.jar practicaomdb.jar
6 ENTRYPOINT ["java","-jar","practicaomdb.jar"]
```

---

# DOCKER: BASE DE DATOS

```
root@kali: ~/mysql-master
File Edit View Search Terminal Help

mysql> select * from ejercicio.usuario;
+-----+-----+-----+-----+-----+-----+
| id | cont | cont2 | correo | nombre | rol |
+-----+-----+-----+-----+-----+-----+
| 1 | $2a$10$WzUK61x1rekBpbyRe5uxp0qe4m1c84ezwF/nNqa1C8DIJTfgCT6bq | user1 | user@ejemplo.com | user | ROLE_USER |
| 2 | $2a$10$kDaitYFq/JxvGnrXKpaRveeaiUx3Stfp/OLSGt1TAWDWDlUIgQFJm | root1 | admin@ejemplo.com | root | ROLE_ADMIN |
| 4 | $2a$10$Fyw2VmamUIYeKGrJxbKHxuXK7/cUc10yX3gHbx5Aht8uUmu3TQ5Bm | abc12 | abc12@abc.com | abc12 | ROLE_USER |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.00 sec)

mysql> select * from ejercicio.pelicula_concreta;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| id | actors | director | plot | poster | runtime | title |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| video | imdbid | imdb_rating | released | runtime | title |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 2 | Chris Hemsworth, Natalie Portman, Tom Hiddleston, Anthony Hopkins | Kenneth Branagh | The powerful, but arrogant god Thor, is cast out of Asgard to live amongst humans in Midgard (Earth), where he soon becomes one of their finest defenders. | https://images-na.ssl-images-amazon.com/images/M/MV5B0GE4NzU1YTAtNzA3Mi00ZTA2LTg2YmYtMDJmMThtMjlkYjg2XkEyXkFqcGdeQXVyNTgzMDMzMTg@._V1_SX300.jpg | 06 May 2011 | 115 min | Thor |
| https://www.youtube.com/watch?v=J0ddp-nlNvQ | tt0800369 | 7.0 |
| 3 | Amanda Seyfried, Stellan Skarsgård, Pierce Brosnan, Nancy Baldwin | Phyllida Lloyd | The story of a bride-to-be trying to find her real father told using hit songs by the popular 1970s group ABBA. | https://images-na.ssl-images-amazon.com/images/M/MV5BMTA2MDU0MjM0MzReQjE0QWpwZ15BbWU3MDYwNzgwNzE@._V1_SX300.jpg | 18 Jul 2008 | 108 min | Mamma Mia! |
| https://www.youtube.com/watch?v=ag7Vj3f7yMk | tt0795421 | 6.4 |
| 4 | Gary Goetzman, Phyllida Lloyd, Björn Ulvæus, Catherine Johnson | N/A | N/A | N/A |
| 10 Nov 2008 | 24 min | Mamma Mia: The Making of Ma
mma Mia | https://www.voutube.com/watch?v=aq7Vi3f7vMk | tt1525411 | 6.1 |
```



# DOCKER: SERVIDOR

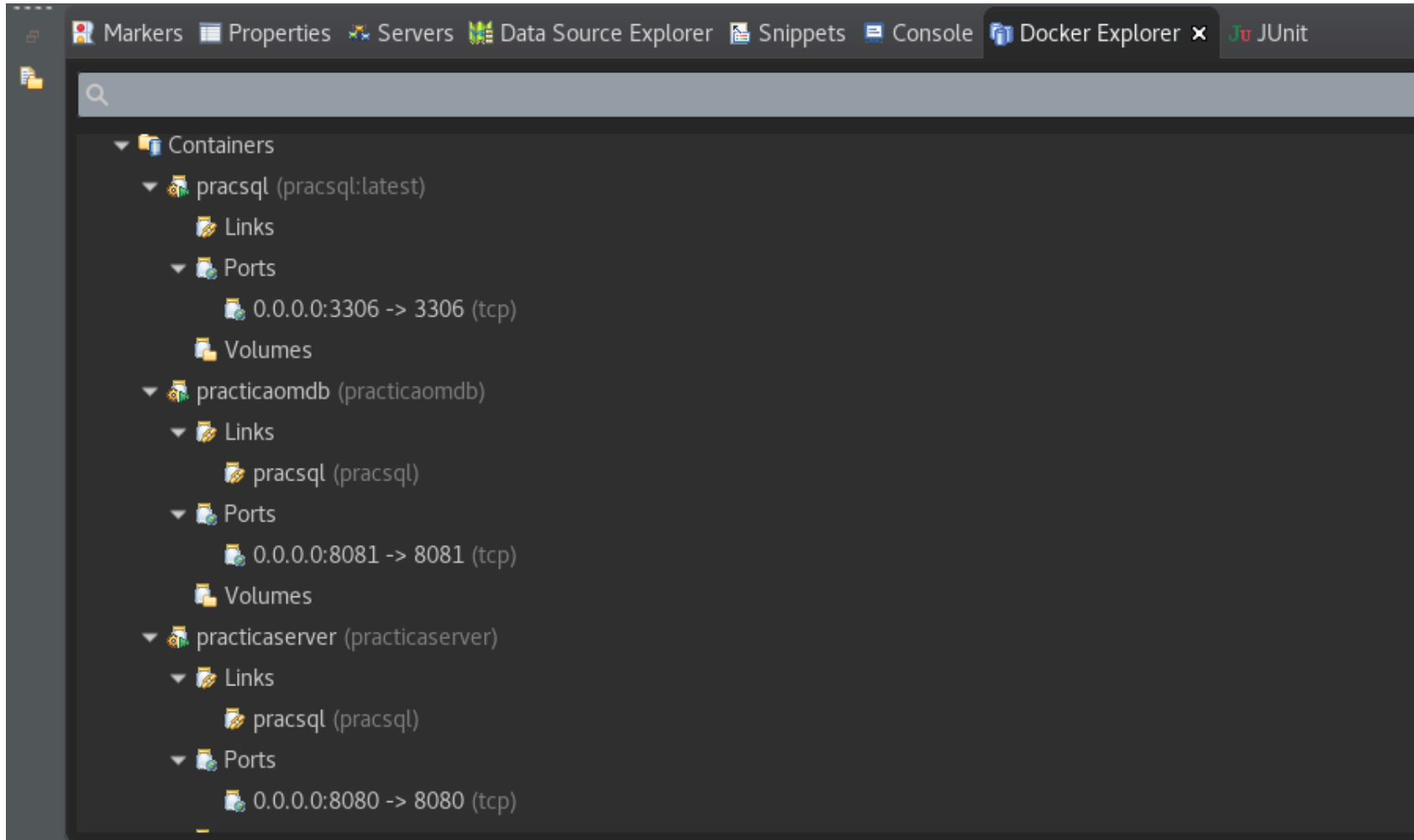
```
root@kali: ~/Programas/eclipse/WSEclipse/practica/PracticaServerMySQL
File Edit View Search Terminal Help
root@kali:~/Programas/eclipse/WSEclipse/practica/PracticaServerMySQL# docker build -t practicaserver .
Sending build context to Docker daemon 29.64MB
Step 1/6 : FROM java:8
----> d23bdf5b1b1b
Step 2/6 : MAINTAINER Eva Lopez Puente, Lorena Martin Tejera
----> Running in da5809e6e8b4
----> 5b1c385b2c83
Removing intermediate container da5809e6e8b4
Step 3/6 : EXPOSE 8080
----> Running in 856b31015eec
----> de744f70301e
Removing intermediate container 856b31015eec
Step 4/6 : VOLUME /tmp
----> Running in f68b9a808ff1
----> 1fb7b76efec9
Removing intermediate container f68b9a808ff1
Step 5/6 : ADD /target/PracticaServerMySQL-0.0.1-SNAPSHOT.jar practicaserver.jar
----> 683c9bcd8dec
Removing intermediate container 7e9fae19d3fa
Step 6/6 : ENTRYPOINT java -jar practicaserver.jar
----> Running in a4e29f3de099
----> 256286b61408
Removing intermediate container a4e29f3de099
Successfully built 256286b61408
Successfully tagged practicaserver:latest
root@kali:~/Programas/eclipse/WSEclipse/practica/PracticaServerMySQL#
```



# DOCKER: SERVIDOR OMDB

```
root@kali: ~/Programas/eclipse/WSEclipse/practica/PracticaServerOMDBMySQL
File Edit View Search Terminal Help
root@kali:~/Programas/eclipse/WSEclipse/practica/PracticaServerOMDBMySQL# docker build -t practicaomdb .
Sending build context to Docker daemon 30.2MB
Step 1/6 : FROM java:8
----> d23bdf5b1b1b/ENTRYPOINT ["java","-jar","/practicaomdb.jar"]
Step 2/6 : MAINTAINER Eva Lopez Puente, Lorena Martin Tejera
----> Using cache Maven Build --> clean install verify package
----> 5b1c385b2c83
Step 3/6 : EXPOSE 8081
----> Running in faf1170443f4 hasta la carpeta donde se encuentra el dockerfile
----> 7888ccb8d538
Removing intermediate container faf1170443f4
Step 4/6 : VOLUME /tmp
----> Running in 8549548b37d4 practicaomdb -p 8081:8081 --link pracsqldb -d practicaomdb
----> 677013cf330c
Removing intermediate container 8549548b37d4
Step 5/6 : ADD /target/PracticaServerOMDBMySQL-0.0.1-SNAPSHOT.jar practicaomdb.jar
----> de0dbcbc8e53
Removing intermediate container 254dddc77c49
Step 6/6 : ENTRYPOINT java -jar practicaomdb.jar
----> Running in 82eec329c297
----> 7390c47b815a/mkimage --create
Removing intermediate container 82eec329c297
Successfully built 7390c47b815a
Successfully tagged practicaomdb:latest
root@kali:~/Programas/eclipse/WSEclipse/practica/PracticaServerOMDBMySQL#
```

# DOCKER: ECLIPSE



# DOCKER: SUBIR IMÁGENES A DOCKER HUB

```
root@kali: ~
File Edit View Search Terminal Help
-----+-----+-----+
mysql> exit
Bye
root@kali:~# docker login
Login with your Docker ID to push and pull images from Docker Hub. If you don't have a Docker ID, head over to https://hub.docker.com to create one.
Username (evaurjc2017): evaurjc2017
Password:
Login Succeeded
root@kali:~# docker tag pracsq evaurjc2017/videoclub:pracsq
root@kali:~# docker tag practicaserver evaurjc2017/videoclub:practicaserver
root@kali:~# docker tag practica_omdb evaurjc2017/videoclub:practicaomdb
"docker tag" requires exactly 2 argument(s).
See 'docker tag --help'.
Usage: docker tag SOURCE_IMAGE[:TAG] TARGET_IMAGE[:TAG]
Create a tag TARGET_IMAGE that refers to SOURCE_IMAGE
root@kali:~# docker tag practicaomdb evaurjc2017/videoclub:practicaomdb
root@kali:~# docker push evaurjc2017/videoclub
The push refers to a repository [docker.io/evaurjc2017/videoclub]
fc50b96434cc: Pushed
232a653356bf8: Pushed
51625d8954f8: Pushing [====>2017] 16.08MB/241.3MB
a9f87737a7fe: Pushed
c54a503aed6f: Pushed
eaa8069a9635: Pushing [=====>] 7.573MB/38.6MB
a87bc60aeb32: Pushed
f2fe3ad63ed3: Pushing [=====>] 4.59MB
311332b37564: Pushed
c01c63c6823d: Preparing
```

# DOCKER: SUBIR IMÁGENES A DOCKER HUB

```
root@kali: ~  
File Edit View Search Terminal Help  
root@kali:~# docker tag practicaomdb evaurjc2017/videoclub:practicaomdb  
root@kali:~# docker push evaurjc2017/videoclub  
The push refers to a repository [docker.io/evaurjc2017/videoclub]  
fc50b96434cc: Pushed  
232a65356bf8: Pushed  
51625d8954f8: Pushed  
a9f87737a7fe: Pushed  
c54a503aed6f: Pushed  
eaa8069a9635: Pushed  
a87bc60aeb32: Pushed  
f2fe3ad63ed3: Pushed  
311332b37564: Pushed  
c01c63c6823d: Layer already exists  
pracsqldigest: sha256:77d56c6d2bbfa9f6ed9b71ba4f50bc970101d8f0f42408eb9604889cf22b9207 size: 2410  
242aba8eacb3: Pushed  
35c20f26d188: Layer already exists  
c3fe59dd9556: Layer already exists  
6ed1a81ba5b6: Layer already exists  
a3483ce177ce: Layer already exists  
ce6c8756685b: Layer already exists  
30339f20ced0: Layer already exists  
0eb22bfb707d: Layer already exists  
a2ae92ffcd29: Layer already exists  
practicaomdb: digest: sha256:e6c7e4fcfd9fe75e0138399858a12931c8fc173e6f40b715a4912cacfc36bf0f size: 2212  
386ff98a7bf2: Pushed  
35c20f26d188: Layer already exists  
c3fe59dd9556: Layer already exists  
6ed1a81ba5b6: Layer already exists  
a3483ce177ce: Layer already exists  
ce6c8756685b: Layer already exists  
30339f20ced0: Layer already exists  
0eb22bfb707d: Layer already exists  
a2ae92ffcd29: Layer already exists  
practicaserver: digest: sha256:b1a6c6b654a76ae75e12c0b6417c2a46d18b7386ae04b6ef0273cba55f606a size: 2212  
root@kali:~#
```

# DOCKER: SUBIR IMÁGENES A DOCKER HUB

PRIVATE REPOSITORY

evaurjc2017/videoclub ☆

Last pushed: a minute ago

[Repo Info](#)

[Tags](#)

[Collaborators](#)

[Webhooks](#)

[Settings](#)


Tag Name	Compressed Size	Last Updated	
practicaserver	270 MB	a minute ago	
practicaomdb	270 MB	2 minutes ago	
pracsq1	144 MB	2 minutes ago	

# TRAVIS: ARCHIVO .TRAVIS.YML SERVIDOR

```
1  language: java
2
3  jdk:
4    - oraclejdk8
5
6  services:
7    - docker
8
9  sudo: required
10
11 before_install:
12   - docker pull evaurjc2017/videoclub:pracsq1
13   - docker build -t practicaserver .
14   - docker images
15
16 script:
17   - mvn clean test
18
19 after_success:
20   - if [ "$TRAVIS_BRANCH" == "master" ]; then
21     docker login -u "evaurjc2017" -p "qwertyuiop";
22     docker tag practicaserver evaurjc2017/videoclubel:practicaserver;
23     docker tag evaurjc2017/videoclub:pracsq1 evaurjc2017/videoclubel:pracsq1;
24     docker push evaurjc2017/videoclubel;
25   fi
```

# TRAVIS: SERVIDOR

Travis CI




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✓ VideoclubIWCN/ServerDocke # 7

🕒 Duration: 1 min 40 sec

📅 Finished: less than a minute ago

✓ VideoclubIWCN/ServerOMDBTes # 1


🕒 Duration: 54 sec

📅 Finished: 2 days ago

✓ VideoclubIWCN/ServerTestNoH # 1

🕒 Duration: 51 sec

📅 Finished: 2 days ago

VideoclubIWCN / ServerDocke 

build canceled


Current

Branches


Build History


Pull Requests


> Build #7

More options 

✓ master Update .travis.yml

🔗 Commit 910c246 

🔗 Compare 38b1f40..910c246 

🔗 Branch master 

📄 VideoclubIWCN authored

📄 GitHub committed

🔄 #7 passed

🕒 Ran for 1 min 40 sec

📅 less than a minute ago

🔄 Restart build

Job log

View config

1 Worker information

6 Build system information

worker\_info

system\_info

Remove log

Raw log


# TRAVIS: ARCHIVO .TRAVIS.YML SERVIDOR OMDB


```
1  language: java
2
3  jdk:
4    - oraclejdk8
5
6  services:
7    - docker
8
9  sudo: required
10
11 before_install:
12   - docker build -t practicaomdb .
13   - docker images
14
15 script:
16   - mvn clean test
17
18 after_success:
19   - if [ "$TRAVIS_BRANCH" == "master" ]; then
20     docker login -u "evaurjc2017" -p "qwertyuiop";
21     docker tag practicaomdb evaurjc2017/videoclubel:practicaomdb;
22     docker push evaurjc2017/videoclubel;
23   fi
```



# TRAVIS: SERVIDOR OMDB

Travis CI



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✓ VideoclubiWCN/ServerOMDBDo # 2


 Duration: 1 min 31 sec  
 Finished: less than a minute ago

✓ VideoclubiWCN/ServerDocker # 7

 Duration: 1 min 40 sec  
 Finished: 10 minutes ago

✓ VideoclubiWCN/ServerOMDBTes # 1




 Duration: 54 sec  
 Finished: 2 days ago



VideoclubiWCN / ServerOMDBDocker  build unknown


Current Branches Build History Pull Requests > Build #2


More options



✓ master Update .travis.yml

 Commit 3431ed2 [↗](#)  
 Compare e4df4e4..3431ed2 [↗](#)  
 Branch master [↗](#)

 VideoclubiWCN authored  GitHub committed

 #2 passed

 Restart build

 Ran for 1 min 31 sec  
 less than a minute ago

Job log View config

Remove log Raw log

1 Worker information worker\_info

6 Build system information system\_info

# DIFICULTADES ENCONTRADAS

- ▶ Configurar los estilos y javascript
- ▶ Generar el archivo “.jar” si se modifica algún fichero del proyecto
- ▶ Problemas al subir el archivo “.jar” a GitHub
- ▶ Atributos de las películas de OMDB en minúscula
- ▶ Eliminar los code smells de Sonar
- ▶ Integración de la base de datos con Travis

# CONCLUSIONES

- ▶ Docker es útil para usar mysql como base de datos
- ▶ Travis permite hacer de una vez testing y docker