

Simular un XAMP amb l'eina Docker Compose

1.1) Expliqueu quins són els avantatges de treballar amb la tecnologia Docker respecte altres tecnologies similars.

- Solament s'ha de programar l'aplicació una vegada, s'obté una major consistència entre els entorns de prova i els entorns de producció, s'obté major modularitat, i que els contenidors són gratuïts i de codi obert.

1.2) Específicament, per què convé encaridament simular un XAMP amb Docker en lloc de amb el XAMP tradicional?

- Perquè amb el XAMP tradicional, cada cop que volguéssim actualitzar l'aplicació, hauríem d'eliminar i tornar a instal·lar l'aplicació de nou.

1.3) Llegiu els 3 documents que s'adjunten. Són una guia per a crear el XAMP amb Docker. També es plantegen activitats d'ampliació. Caldrà documentar tot el procés de creació del Docker adequadament amb explicacions, captures, dificultats que heu trobat i com ho heu resol, bibliografia i tot el que considereu necessari.

1.-Com instal·lar i utilitzar Docker a Ubuntu 16.04

1) Primer de tot, fem un update:

```
adriaac@mv-Ubuntu18:~$ sudo apt-get update
[sudo] password for adriaac:
Get:1 http://security.ubuntu.com/ubuntu bionic-security InRelease [88,7 kB]
Hit:2 http://es.archive.ubuntu.com/ubuntu bionic InRelease
Get:3 http://es.archive.ubuntu.com/ubuntu bionic-updates InRelease [88,7 kB]
Get:4 http://es.archive.ubuntu.com/ubuntu bionic-backports InRelease [74,6 kB]
```

2) A continuació, anem a instal·lar el Docker:

```
adriaac@mv-Ubuntu18:~$ sudo apt-key adv --keyserver hkp://p80.pool.sks-keyservers.net:80 --recv-keys
58118E89F3A912897C070ADB76221572C52609D
[sudo] password for adriaac:
Executing: /tmp/apt-key-gpghome.G7HxNFBkIP/gpg.1.sh --keyserver hkp://p80.pool.sks-keyservers.net:80
--recv-keys 58118E89F3A912897C070ADB76221572C52609D
gpg: key F76221572C52609D: 7 signatures not checked due to missing keys
gpg: key F76221572C52609D: public key "Docker Release Tool (releasedocker) <docker@docker.com>" impor
ted
gpg: Total number processed: 1
gpg: imported: 1
adriaac@mv-Ubuntu18:~$
```

3) Agreguem el repositori Docker:

```
adriaac@mv-Ubuntu18:~$ sudo apt-add-repository 'deb https://apt.dockerproject.org/repo ubuntu-xenial
main'
Get:1 http://security.ubuntu.com/ubuntu bionic-security InRelease [88,7 kB]
Hit:2 http://es.archive.ubuntu.com/ubuntu bionic InRelease
Get:3 https://apt.dockerproject.org/repo ubuntu-xenial InRelease [48,7 kB]
Hit:4 http://es.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:5 http://es.archive.ubuntu.com/ubuntu bionic-backports InRelease
Get:6 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages [4.177 B]
Fetched 142 kB in 1s (124 kB/s)
Reading package lists... Done
adriaac@mv-Ubuntu18:~$
```

4) Tornem a fer un update:

```
adriaac@mv-Ubuntu18:~$ sudo apt-get update
Hit:1 http://es.archive.ubuntu.com/ubuntu bionic InRelease
Hit:2 http://es.archive.ubuntu.com/ubuntu bionic-updates InRelease
Hit:3 http://es.archive.ubuntu.com/ubuntu bionic-backports InRelease
Hit:4 http://security.ubuntu.com/ubuntu bionic-security InRelease
Hit:5 https://apt.dockerproject.org/repo ubuntu-xenial InRelease
Reading package lists... Done
```

5)

```
adriaac@mv-Ubuntu18:~$ apt-cache policy docker-engine
docker-engine:
  Installed: (none)
  Candidate: 17.05.0~ce-0~ubuntu-xenial
  Version table:
   17.05.0~ce-0~ubuntu-xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   17.04.0~ce-0~ubuntu-xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   17.03.1~ce-0~ubuntu-xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   17.03.0~ce-0~ubuntu-xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.13.1-0~ubuntu-xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.13.0-0~ubuntu-xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.12.6-0~ubuntu-xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.12.5-0~ubuntu-xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.12.4-0~ubuntu-xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.12.3-0~xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.12.2-0~xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.12.1-0~xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.12.0-0~xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.11.2-0~xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.11.1-0~xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
   1.11.0-0~xenial 500
        500 https://apt.dockerproject.org/repo ubuntu-xenial/main amd64 Packages
adriaac@mv-Ubuntu18:~$
```

6)

```
adriaac@mv-Ubuntu18:~$ sudo apt-get install -y docker-engine
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  linux-headers-5.0.0-23 linux-headers-5.0.0-23-generic linux-image-5.0.0-23-generic
```

7)

```
adriaac@mv-Ubuntu18:~$ sudo systemctl status docker
● docker.service - Docker Application Container Engine
   Loaded: loaded (/lib/systemd/system/docker.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2019-09-26 08:50:09 CEST; 28s ago
     Docs: https://docs.docker.com
   Main PID: 6512 (dockerd)
```

8)

```
adriaac@mv-Ubuntu18:~$ docker docker-subcommand --help
Usage:  docker COMMAND

A self-sufficient runtime for containers

Options:
  --config string      Location of client config files (default "/home/adriaac/.docker")
  -D, --debug           Enable debug mode
```

9) Si intento fer-ho sense sudo, no funciona. S'ha de fer amb sudo.

```
adriaac@mv-Ubuntu18:~$ docker info
Got permission denied while trying to connect to the Docker daemon socket at unix:///var/run/docker.sock: Get http://%2Fvar%2Frun%2Fdocker.sock/v1.29/info: dial unix /var/run/docker.sock: connect: permission denied
adriaac@mv-Ubuntu18:~$ sudo docker info
[sudo] password for adriaac:
Containers: 0
Running: 0
Paused: 0
```

10)

```
adriaac@mv-Ubuntu18:~$ sudo docker run hello-world
Unable to find image 'hello-world:latest' locally

latest: Pulling from library/hello-world
1b930d010525: Pull complete
Digest: sha256:b8ba256769a0ac28dd126d584e0a2011cd2877f3f76e093a7ae560f2a5301c00
Status: Downloaded newer image for hello-world:latest

Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
 1. The Docker client contacted the Docker daemon.
 2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
    (amd64)
 3. The Docker daemon created a new container from that image which runs the
    executable that produces the output you are currently reading.
 4. The Docker daemon streamed that output to the Docker client, which sent it
    to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

11)

```
adriaac@mv-Ubuntu18:~$ sudo docker search ubuntu
NAME                STARS     OFFICIAL   AUTOMATED  DESCRIPTION
ubuntu              9997      [OK]
dorowu/ubuntu-desktop-lxde-vnc  347      [OK]
rastasheep/ubuntu-sshd  231      [OK]
```

12)

```
adriaac@mv-Ubuntu18:~$ sudo docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
5667fdb72017: Pull complete
d83811f270d5: Pull complete
ee671aafb583: Pull complete
7fc152dfb3a6: Pull complete
Digest: sha256:b88f8848e9a1a4e4558ba7cfc4acc5879e1d0e7ac06401409062ad2627e6fb58
Status: Downloaded newer image for ubuntu:latest
adriaac@mv-Ubuntu18:~$
```

13)

```
adriaac@mv-Ubuntu18:~$ sudo docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
ubuntu               latest              2ca708c1c9cc       11 days ago        64.2MB
hello-world          latest              fce289e99eb9       9 months ago       1.84kB
adriaac@mv-Ubuntu18:~$
```

14)

```
adriaac@mv-Ubuntu18:~$ sudo docker run -it ubuntu
root@e0972e724554:/#
```

15) Al principi m'han sortit uns quants errors, però al torna-ho a aplicar no m'ha n'ha sortit cap.

```
root@e0972e724554:/# apt-get update
Get:1 http://archive.ubuntu.com/ubuntu bionic InRelease [242 kB]
Get:2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Ign:3 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages
Get:4 http://security.ubuntu.com/ubuntu bionic-security/multiverse amd64 Packages [5230 B]
Err:5 http://archive.ubuntu.com/ubuntu bionic-updates InRelease
  403 Forbidden [IP: 91.189.88.149 80]
Get:6 http://archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:7 http://security.ubuntu.com/ubuntu bionic-security/restricted amd64 Packages [9585 B]
Get:8 http://security.ubuntu.com/ubuntu bionic-security/universe amd64 Packages [769 kB]
Get:9 http://archive.ubuntu.com/ubuntu bionic/main amd64 Packages [1344 kB]
Ign:9 http://archive.ubuntu.com/ubuntu bionic/main amd64 Packages
Ign:10 http://archive.ubuntu.com/ubuntu bionic/universe amd64 Packages
Get:11 http://archive.ubuntu.com/ubuntu bionic/restricted amd64 Packages [13.5 kB]
Get:12 http://archive.ubuntu.com/ubuntu bionic/multiverse amd64 Packages [186 kB]
Get:13 http://archive.ubuntu.com/ubuntu bionic-backports/universe amd64 Packages [4227 B]
Get:14 http://archive.ubuntu.com/ubuntu bionic-backports/main amd64 Packages [2496 B]
Get:9 http://archive.ubuntu.com/ubuntu bionic/main amd64 Packages [1344 kB]
Get:10 http://archive.ubuntu.com/ubuntu bionic/universe amd64 Packages [11.3 MB]
Get:3 http://security.ubuntu.com/ubuntu bionic-security/main amd64 Packages [663 kB]
Reading package lists... Done
E: Failed to fetch http://archive.ubuntu.com/ubuntu/dists/bionic-updates/InRelease 403 Forbidden [IP: 91.189.88.149 80]
E: The repository 'http://archive.ubuntu.com/ubuntu bionic-updates InRelease' is not signed.
N: Updating from such a repository can't be done securely, and is therefore disabled by default.
N: See apt-secure(8) manpage for repository creation and user configuration details.
```

```
root@e0972e724554:/# apt-get update
Hit:1 http://archive.ubuntu.com/ubuntu bionic InRelease
Hit:2 http://security.ubuntu.com/ubuntu bionic-security InRelease
Get:3 http://archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Hit:4 http://archive.ubuntu.com/ubuntu bionic-backports InRelease
Get:5 http://archive.ubuntu.com/ubuntu bionic-updates/universe amd64 Packages [1288 kB]
Get:6 http://archive.ubuntu.com/ubuntu bionic-updates/main amd64 Packages [960 kB]
Get:7 http://archive.ubuntu.com/ubuntu bionic-updates/restricted amd64 Packages [20.3 kB]
Get:8 http://archive.ubuntu.com/ubuntu bionic-updates/multiverse amd64 Packages [8284 B]
Fetched 2366 kB in 5s (482 kB/s)
Reading package lists... Done
root@e0972e724554:/#
```

16) Al principi m'han sortit uns quants errors:

```
root@e0972e724554:/# apt-get install -y nodejs
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  ca-certificates libc-ares2 libhttp-parser2.7.1 libicu60 libnghttp2-14 libssl1.0.0 libssl1.1
  libuv1 nodejs-doc openssl
Err:3 http://archive.ubuntu.com/ubuntu bionic/main amd64 ca-certificates all 20180409
Temporary failure resolving 'archive.ubuntu.com'
Fetched 14.9 MB in 1min 59s (125 kB/s)
E: Failed to fetch http://security.ubuntu.com/ubuntu/pool/main/o/openssl/libssl1.1_1.1.1-1ubuntu2.1~1
8.04.4_amd64.deb Temporary failure resolving 'archive.ubuntu.com'
E: Failed to fetch http://security.ubuntu.com/ubuntu/pool/main/o/openssl/openssl_1.1.1-1ubuntu2.1~18.
04.4_amd64.deb Temporary failure resolving 'archive.ubuntu.com'
E: Failed to fetch http://archive.ubuntu.com/ubuntu/pool/main/c/ca-certificates/ca-certificates_20180
409_all.deb Temporary failure resolving 'archive.ubuntu.com'
E: Unable to fetch some archives, maybe run apt-get update or try with --fix-missing?
```

He tornat a fer la mateixa comanda, però amb el mateix resultat. Per això he fet aquesta comanda, la qual al final sí que m'ha funcionat:

```
root@e0972e724554:/# apt-get install -y nodejs --fix-missing
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  ca-certificates libc-ares2 libhttp-parser2.7.1 libicu60 libnghttp2-14 libssl1.0.0 libssl1.1
  libuv1 nodejs-doc openssl
The following NEW packages will be installed:
  ca-certificates libc-ares2 libhttp-parser2.7.1 libicu60 libnghttp2-14 libssl1.0.0 libssl1.1
```

17)

```
root@e0972e724554:/# exit
exit
adriaac@mv-Ubuntu18:~$
```

18)

```
adriaac@mv-Ubuntu18:~$ sudo docker commit -m "added node.js" -a "Dilluns Badalona" e0972e724554 finid
/ubunt-nodejs
sha256:b8314a137659fd8ea51188f5f76f08fd9f5fe20c43af1a65f0e12129b0721f2d
adriaac@mv-Ubuntu18:~$
```

19)

```
adriaac@mv-Ubuntu18:~$ sudo docker images
REPOSITORY          TAG          IMAGE ID          CREATED          SIZE
finid/ubunt-nodejs  latest      2dead5234bc8     About a minute ago  152MB
<none>              <none>      b8314a137659     5 minutes ago    152MB
ubuntu              latest      2ca708c1c9cc     11 days ago      64.2MB
hello-world         latest      fce289e99eb9     9 months ago     1.84kB
adriaac@mv-Ubuntu18:~$
```

20)

```
adriaac@mv-Ubuntu18:~$ sudo docker ps
CONTAINER ID        IMAGE          COMMAND           CREATED          STATUS          P
ORTS              NAMES
adriaac@mv-Ubuntu18:~$
```


21)

```
adriaac@mv-Ubuntu18:~$ sudo docker ps -a
```

CONTAINER ID	PORTS	IMAGE	NAMES	COMMAND	CREATED	STATUS
e0972e724554		ubuntu	kind_goodall	"/bin/bash"	45 minutes ago	Exited (0) 10 minutes ago
912fdd57fb7b		hello-world	cranky_poitras	"/hello"	About an hour ago	Exited (0) About an hour ago
9a5554f5d59c		hello-world	nostalgic_payne	"/hello"	About an hour ago	Exited (0) About an hour ago

```
adriaac@mv-Ubuntu18:~$
```

22)

```
adriaac@mv-Ubuntu18:~$ sudo docker ps -l
```

CONTAINER ID	PORTS	IMAGE	NAMES	COMMAND	CREATED	STATUS
e0972e724554		ubuntu	kind_goodall	"/bin/bash"	45 minutes ago	Exited (0) 11 minutes ago

```
adriaac@mv-Ubuntu18:~$
```

23) Com que no tinc cap contenidor executant-se, no puc fer aquest prova:

```
adriaac@mv-Ubuntu18:~$ sudo docker stop container-id
Error response from daemon: No such container: container-id
adriaac@mv-Ubuntu18:~$
```

24) Primer m'he registrat a Docker Hub. Un cop fet això, he anat al terminal. M'ha deixat accedir al meu compte, però un cop he volgut fer un push de la imatge, m'ha donat un error:

```
adriaac@mv-Ubuntu18:~$ sudo docker login -u 123456789101112131499
Password:
Login Succeeded
adriaac@mv-Ubuntu18:~$ sudo docker push 123456789101112131499/ubuntu-nodejs
The push refers to a repository [docker.io/123456789101112131499/ubuntu-nodejs]
An image does not exist locally with the tag: 123456789101112131499/ubuntu-nodejs
adriaac@mv-Ubuntu18:~$
```

```
adriaac@mv-Ubuntu18:~$ sudo docker commit -m "added node.js" -a "Dilluns Badalona" e0972e724554 finid /ubuntu-nodejs
sha256:b8314a137659fd8ea51188f5f76f08fd9f5fe20c43af1a65f0e12129b0721f2d
adriaac@mv-Ubuntu18:~$
```

Il·lustración 1/ Ejercicio nº18

Bibliografia

- Ex 16) Samuel

2.-Com instal·lar Docker Compose

1) Executo la comanda, però em diu que no tinc instal·lada la comanda curl:

```
adriaac@mv-Ubuntu18:~$ sudo curl -L "https://github.com/docker/compose/releases/download/1.24.0/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
[sudo] password for adriaac:
sudo: curl: command not found
```

La instal·lo:

```
adriaac@mv-Ubuntu18:~$ sudo apt install curl
Reading package lists... Done
Building dependency tree
Reading state information... Done
```

Executo de nou la comanda:

```
adriaac@mv-Ubuntu18:~$ sudo curl -L "https://github.com/docker/compose/releases/download/1.24.0/docker-compose-$(uname -s)-$(uname -m)" -o /usr/local/bin/docker-compose
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left   Speed
100  617      0  617    0     0    824      0 --:--:-- --:--:-- --:--:--    824
 84 15.4M   84 13.0M    0     0   737k      0  0:00:21  0:00:18  0:00:03 1277k
```

2)

```
adriaac@mv-Ubuntu18:~$ sudo chmod +x /usr/local/bin/docker-compose
[sudo] password for adriaac:
adriaac@mv-Ubuntu18:~$
```

Bibliografia

- Ex 1) https://www.luminanetworks.com/docs-lsc-610/Topics/SDN_Controller_Software_Installation_Guide/Appendix/Installing_cURL_for_Ubuntu_1.html

3.-Com aixecar els serveis d'un XAMP sobre Docker Compose

1)

```
GNU nano 2.9.3 docker-compose.yml

version: "3"
services:

  miservicio_mysql:
    image: mysql:5.7
    environment:
      - MYSQL_DATABASE=nombre
      - MYSQL_ROOT_PASSWORD=claveroot
      - MYSQL_USER=miusuario
      - MYSQL_PASSWORD=mipassword
    volumes:
      # Montamos un volumen para MySQL para no perder los datos de bd
      - ./volumenes/mysql:/var/lib/mysql
    expose:
      - 3306
    ports:
      - 3306:3306

  miservicio_php:
    image: php:7-apache
    volumes:
      # Montamos nuestra web desde fuera en el directorio web del contenedor
      - ./miweb:/var/www/html
    expose:
      - 80
    ports:
      - 80:80
    links:
      - miservicio_mysql
```

2) He executat la comanda, però m'ha sortit aquest error:

```
adriaac@mv-Ubuntu18:~/DAW$ docker-compose up -d
ERROR: In file './docker-compose.yml', service must be a mapping, not a NoneType.
adriaac@mv-Ubuntu18:~/DAW$
```

He buscat per internet sobre el error, hi semblava que era per la tabulació. Ho sol·luciono:

```
GNU nano 2.9.3 docker-compose.yml

version: "3"
services:

  miservicio_mysql:
    image: mysql:5.7
    environment:
      - MYSQL_DATABASE=nombre
      - MYSQL_ROOT_PASSWORD=claveroot
      - MYSQL_USER=miusuario
      - MYSQL_PASSWORD=mipassword
    volumes:
      # Montamos un volumen para MySQL para no perder los datos de bd
      - ./volumenes/mysql:/var/lib/mysql
    expose:
      - 3306
    ports:
      - 3306:3306

  miservicio_php:
    image: php:7-apache
    volumes:
      # Montamos nuestra web desde fuera en el directorio web del contenedor
      - ./miweb:/var/www/html
    expose:
      - 80
    ports:
      - 80:80
    links:
      - miservicio_mysql
```

Executo la comanda, però em surt un error:

```
adriaac@mv-Ubuntu18:~/DAW$ docker-compose up -d
ERROR: yaml.scanner.ScannerError: while scanning for the next token
found character '\t' that cannot start any token
in "./docker-compose.yml", line 4, column 1
adriaac@mv-Ubuntu18:~/DAW$
```

Arreglo amb espais (no tabulat) el text:

```
GNU nano 2.9.3 docker-compose.yml
version: "3"
services:

  miservicio_mysql:
    image: mysql:5.7
    environment:
      - MYSQL_DATABASE=nombre
      - MYSQL_ROOT_PASSWORD=claveroot
      - MYSQL_USER=miusuario
      - MYSQL_PASSWORD=mipassword
    volumes:
      # Montamos un volumen para MySQL para no perder los datos de bd
      - ./volumenes/mysql:/var/lib/mysql
    expose:
      - 3306
    ports:
      - 3306:3306

  miservicio_php:
    image: php:7-apache
    volumes:
      # Montamos nuestra web desde fuera en el directorio web del contenedor
      - ./miweb:/var/www/html
    expose:
      - 80
    ports:
      - 80:80
    links:
      - miservicio_mysql
```

Executo la comanda, però em surt un error:

```
adriaac@mv-Ubuntu18:~/DAW$ docker-compose up -d
ERROR: Couldn't connect to Docker daemon at http+docker://localhost - is it running?

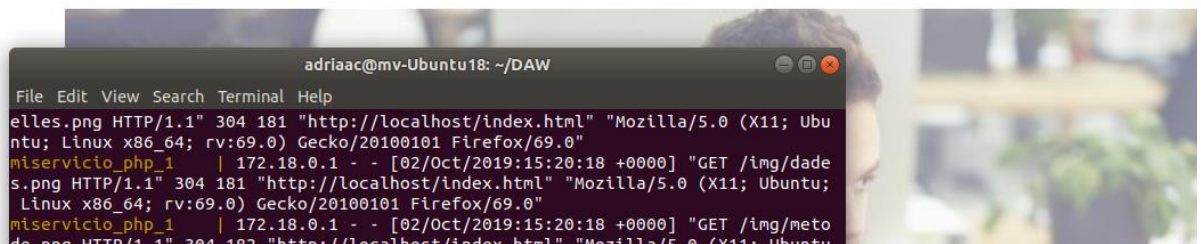
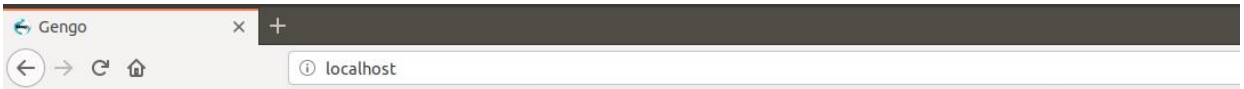
If it's at a non-standard location, specify the URL with the DOCKER_HOST environment variable.
adriaac@mv-Ubuntu18:~/DAW$
```

Ho faig amb sudo i ja funciona:

```
adriaac@mv-Ubuntu18:~/DAW$ sudo docker-compose up -d
Pulling miservicio_mysql (mysql:5.7)...
5.7: Pulling from library/mysql
8f91359f1fff: Downloading [=====>] 5.307MB/22.51MB
6bbb1c853362: Download complete
e6e554c0af6f: Download complete
f391c1a77330: Download complete
414a8a88eabc: Download complete
fee78658f4dd: Downloading [=====>] 4.914MB/12.11MB
9568f6bfff01b: Download complete
76041efb6f83: Download complete
ea54dbd83183: Waiting
566857d8f022: Waiting
01c09495c6e7: Waiting
```

3)

```
adriaac@mv-Ubuntu18:~/DAW$ sudo docker-compose up
[sudo] password for adriaac:
daw_miservicio_mysql_1 is up-to-date
daw_miservicio_php_1 is up-to-date
Attaching to daw_miservicio_mysql_1, daw_miservicio_php_1
miservicio_mysql_1 | Initializing database
miservicio_mysql_1 | 2019-10-01T10:38:12.239130Z 0 [Warning] TIMESTAMP with implicit DEFAULT value is deprecated. Please use --explicit_defaults_for_timestamp server option (see documentation for more details).
```



4) En el document docker-compose.yml afegim aquesta línia:

```
phpmyadmin:
  image: phpmyadmin/phpmyadmin
  ports:
    - 9191:80
  environment:
    MYSQL_USERNAME: adria
    MYSQL_ROOT_PASSWORD: adria
    PMA_HOST: mysql
```

A continuació, obrim un buscador i cerquem: localhost/9191:



Welcome to phpMyAdmin

Language

English

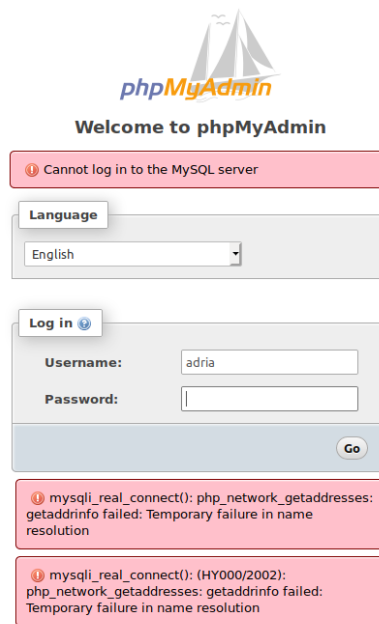
Log in

Username:

Password:

Go

Però al intentar accedir amb el usuari i contraseya, em surt això:



The screenshot shows the phpMyAdmin interface. At the top is the phpMyAdmin logo and the text "Welcome to phpMyAdmin". Below this is a red error message box that says "Cannot log in to the MySQL server". Underneath is a "Language" dropdown menu set to "English". Below that is a "Log in" button and a login form with fields for "Username:" (containing "adria") and "Password:". A "Go" button is to the right of the password field. At the bottom, there are two more red error message boxes. The first one says "mysqli_real_connect(): php_network_getaddresses: getaddrinfo failed: Temporary failure in name resolution". The second one says "mysqli_real_connect(): (HY000/2002): php_network_getaddresses: getaddrinfo failed: Temporary failure in name resolution".

He buscat per internet, però no he sigut capaç de sol·lucionar el problema.

5)

No he sabut accedir a la terminal de MySQL del servei amb Docker.

Bibliografia

- Ex 2) <https://stackoverflow.com/questions/43452448/docker-compose-yml-service-must-be-a-mapping-not-a-nonetype>
- Ex 3) <https://maslinux.es/guia-facil-para-instalar-phpmyadmin-en-ubuntu/>
- Ex 4) <https://github.com/andreaskoch/dockerized-magento/issues/18>
- Ex 4) <https://gist.github.com/bradtraversy/faa8de544c62eef3f31de406982f1d42>

Conclusions

En aquesta pràctica hem pogut veure com s'instal·lava i configurava el Docker, amb la resta dels seus complements. A sigut una bona pràctica per començar el temari.