Nombre: De La Torre Zelaya Daniel German Carrera: Ingeniería de Sistemas

## 1. Comprueba la versión de Docker:

```
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> docker --version Docker version 28.3.2, build 578ccf6
```

# 2. Descarga una imagen de Docker, por ejemplo, httpd (Apache):

```
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> docker pull httpd
Using default tag: latest
latest: Pulling from library/httpd
Digest: sha256:3198c1839e1a875f8b83803083758a7635f1ae999f0601f30f2f3b8ce2ac99e3
Status: Image is up to date for httpd:latest
docker.io/library/httpd:latest
```

# 3. Consulta las imágenes descargadas:

```
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> docker images
REPOSITORY
             TAG
                          IMAGE ID
                                         CREATED
                                                        SIZE
             13
                          27236001f2a4
                                         7 days ago
                                                        620MB
postgres
httpd
             latest
                          3198c1839e1a
                                         13 days ago
                                                        174MB
                          95a98776f273
                                         4 weeks ago
mongo
             latest
                                                        1.22GB
             8.0
                          f483084b3708
                                         4 weeks ago
                                                        1.07GB
mysql
node
             20-alpine
                          df02558528d3
                                         5
                                           weeks ago
                                                        192MB
```

# 4. Ejecuta una instancia (contenedor) de la imagen descargada (httpd):

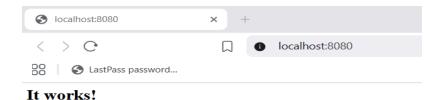
```
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> docker run -it -d -p 8080:80 httpd 9bf3256cf6802d6582f6478be39399d4754adae608e9b228b23579761b835434
```

#### 5. Consulta todos los contenedores creadores:

```
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2>
CONTAINER ID IMAGE COMMAND ______CREATED _____STATUS
          NAMES
 bf3256cf680
                httpd
                                                                                                   0.0.0.0:8080->80/tcp, [::]:8080-
                            "httpd-foreground"
                                                    About a minute ago
                                                                             Up About a minute
         funny_farada
   C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> <mark>docker</mark> ps
TAINER ID IMAGE COMMAND CREATED STATUS
CONTAINER ID
                 NAMES
9bf3256cf680
                                                                                                           0.0.0.0:8080->80/tcp, [::]
                httpd
                                "httpd-foreground"
                                                             2 minutes ago
                                                                               Up 2 minutes
                 8080->80/tcp
)4d9bd7e51f4
                postgres:13
                                                            5 days ago
                                                                               Exited (0) 3 days ago
                db_server11
mysql:8.0
c72d3857fc7
                                "docker-entrypoint.s..."
                                                            5 days ago
                                                                               Exited (0) 3 days ago
```

# 6. Comprueba el funcionamiento del contenedor desde el host:

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## 7. Ejecuta la terminal de Linux dentro del contenedor:

PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica\_clase\_2> docker exec -it 9bf3256cf6802d6582f64| 78be39399d4754adae608e9b228b23579761b835434 bash root@9bf3256cf680:/usr/local/apache2#|

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#### 8. Borra el contenedor creado:

PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica\_clase\_2> docker rm 9bf3256cf6802d6582f6478be39 399d4754adae608e9b228b23579761b835434 9bf3256cf6802d6582f6478be39399d4754adae608e9b228b23579761b835434

## 9. Comprueba que el contenedor ha sido eliminado:

```
C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ`
ITAINER ID IMAGE COMMAND CREATED
                                                                                                        PORTS
CONTAINER ID
                                                                            STATUS
                                                                                                                   NAMES
                                 "docker-entrypoint.s.."
                                                                            Exited (0) 3 days ago
                 postgres:13
04d9bd7e51f4
                                                             5 days ago
                                                                                                                   db_server11
                                 "docker-entrypoint.s.."
5c72d3857fc7
                                                                            Exited (0) 3 days ago
                 mysql:8.0
                                                             5 days ago
                                                                                                                   db_server12
```

# 10. Borra la imagen usando la identificación del Comprueba que el contenedor ha sido eliminado:

PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica\_clase\_2> docker rmi sha256:3198c1839e1a875f8b8 3803083758a7635f1ae999f0601f30f2f3b8ce2ac99e3 Untagged: httpd:latest Deleted: sha256:3198c1839e1a875f8b83803083758a7635f1ae999f0601f30f2f3b8ce2ac99e3

#### 11. Reinicia el contenedor:

PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica\_clase\_2> docker restart 1e7a06e995b8de5e842a3e 84e061776ca2188af9a9fc59cdd5b6651e8d3c7983 1e7a06e995b8de5e842a3e84e061776ca2188af9a9fc59cdd5b6651e8d3c7983 Nombre: De La Torre Zelaya Daniel German Carrera: Ingeniería de Sistemas

## 12. Detén y levanta el contenedor:

PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica\_clase\_2> docker stop 1e7a06e995b8de5e842a3e84e 061776ca2188af9a9fc59cdd5b6651e8d3c7983 1e7a06e995b8de5e842a3e84e061776ca2188af9a9fc59cdd5b6651e8d3c7983

```
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
```

```
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> docker start 1e7a06e995b8de5e842a3e84
e061776ca2188af9a9fc59cdd5b6651e8d3c7983
1e7a06e995b8de5e842a3e84e061776ca2188af9a9fc59cdd5b6651e8d3c7983
```

#### 13. Mata el contenedor:

```
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> docker kill 1e7a06e995b8de5e842a3e84e
061776ca2188af9a9fc59cdd5b6651e8d3c7983
1e7a06e995b8de5e842a3e84e061776ca2188af9a9fc59cdd5b6651e8d3c7983
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
```

#### 14. Visualiza los detalles de la red definida con los clústeres:

```
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> <mark>docke</mark>r network
Usage: docker network COMMAND
Manage networks
Commands:
              Connect a container to a network
 connect
 create
              Create a network
 disconnect Disconnect a container from a network
              Display detailed information on one or more networks
 inspect
 ls
              List networks
              Remove all unused networks
 prune
              Remove one or more networks
```

```
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> docker network ls
NETWORK ID
               NAME
                                                                  DRIVER
                                                                             SCOPE
1366137d4378
               bridge
                                                                  bridge
                                                                             local
8a843ce1c07c
               descargastallerdeespecialidad_laravel_network1
                                                                  bridge
                                                                             local
95501e29be84
               host
                                                                  host
                                                                             local
8a0bea21ebcc
               none
                                                                  null
                                                                             local
```

#### 15. Obtén información detallada sobre los recursos de Docker:

```
PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> docker info Client:

Version: 28.3.2
Context: desktop-linux
Debug Mode: false
Plugins:
ai: Docker AI Agent - Ask Gordon (Docker Inc.)
Version: v1.9.11
Path: C:\Program Files\Docker\cli-plugins\docker-ai.exe
buildx: Docker Buildx (Docker Inc.)
Version: v0.26.1-desktop.1
Path: C:\Program Files\Docker\cli-plugins\docker-buildx.exe
cloud: Docker Cloud (Docker Inc.)
Version: v0.4.18
Path: C:\Program Files\Docker\cli-plugins\docker-cloud.exe
compose: Docker Compose (Docker Inc.)
Version: v2.39.1-desktop.1
Path: C:\Program Files\Docker\cli-plugins\docker-compose.exe
debug: Get a shell into any image or container (Docker Inc.)
Version: 0.0.42
Path: C:\Program Files\Docker\cli-plugins\docker-debug.exe
desktop: Docker Desktop commands (Docker Inc.)
Version: v0.2.0
Path: C:\Program Files\Docker\cli-plugins\docker-desktop.exe
extension: Manages Docker extensions (Docker Inc.)
Version: v0.2.29
```

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# 16. Revisa el historial de una imagen:

PS C:\Users\GERMAN ZELAYA\OneDrive\Documentos\MicroserviciosDGDZ\practica_clase_2> docker history httpd							
IMAGE	CREATED	CREATED BY	SIZE	COMMENT			
3198c1839e1a	13 days ago	CMD ["httpd-foreground"]	0B	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	EXPOSE map[80/tcp:{}]	0B	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	COPY httpd-foreground /usr/local/bin/ # buil	20.5kB	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	STOPSIGNAL SIGWINCH	0B	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	RUN /bin/sh -c set -eux; savedAptMark="\$(a	34.8MB	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	ENV HTTPD_PATCHES=	0B	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	ENV HTTPD_SHA256=58b8be97d9940ec17f7656c0c6b	0B	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	ENV HTTPD_VERSION=2.4.65	0B	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	RUN /bin/sh -c set -eux; apt-get install	7MB	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	WORKDIR /usr/local/apache2	4.1kB	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	RUN /bin/sh -c mkdir -p "\$HTTPD_PREFIX" &&	16.4kB	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	ENV PATH=/usr/local/apache2/bin:/usr/local/s	0B	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	ENV HTTPD_PREFIX=/usr/local/apache2	0B	buildkit.dockerfile.v0			
<missing></missing>	13 days ago	# debian.sharch 'amd64' out/ 'trixie' '@1…	87.4MB	debuerreotype 0.15			

# 17. Busca una imagen según el nombre:

PS C:\Users\GFRMAN 7FLAYA\OneDrive	<pre>P\Documentos\MicroserviciosDGDZ\practica_clase_2&gt;</pre>	docker sea	arch mongo
NAME	DESCRIPTION	STARS	OFFICIAL
mongo	MongoDB document databases provide high avai	10618	[OK]
circleci/mongo	CircleCI images for MongoDB	16	
corpusops/mongo	https://github.com/corpusops/docker-images/	0	
rootpublic/mongo		0	
uselagoon/mongo		Θ	
ekesken/mongo	docker image for mongo that is configurable	1	
vepo/mongo -	Mongo image with default settings	1	
litmuschaos/mongo		1	
jelastic/mongo -	An image of the MongoDB database server main	0	
arm64v8/mongo	MongoDB document databases provide high avai…	36	
zinobe/mongo	mongo with custom user	0	
s390x/mongo	MongoDB document databases provide high avai…	1	
kubedb/mongo		0	
cescoferraro/mongo	docker alpine mongo	0	
ccitest/mongo	CircleCI test images for Mongo	0	
amd64/mongo	MongoDB document databases provide high avai…	0	
sacashgit/mongo		0	
excellalabs/mongo	Dockerfile and scripts to setup a production	2	
winamd64/mongo	MongoDB document databases provide high avai…	1	
mongodb/mongodb-community-server	The Official MongoDB Community Server	164	
healthcheck/mongo	https://github.com/docker-library/healthchec…	5	
pagarme/mongo		0	
pastvu/mongo		0	
sscpac/mongo	alpine mongo	0	
mongodb/mongodb-atlas-local	Create, manage, and automate MongoDB Atlas L	8	