

Cofiguración Docker

Materia: Programación Móvil

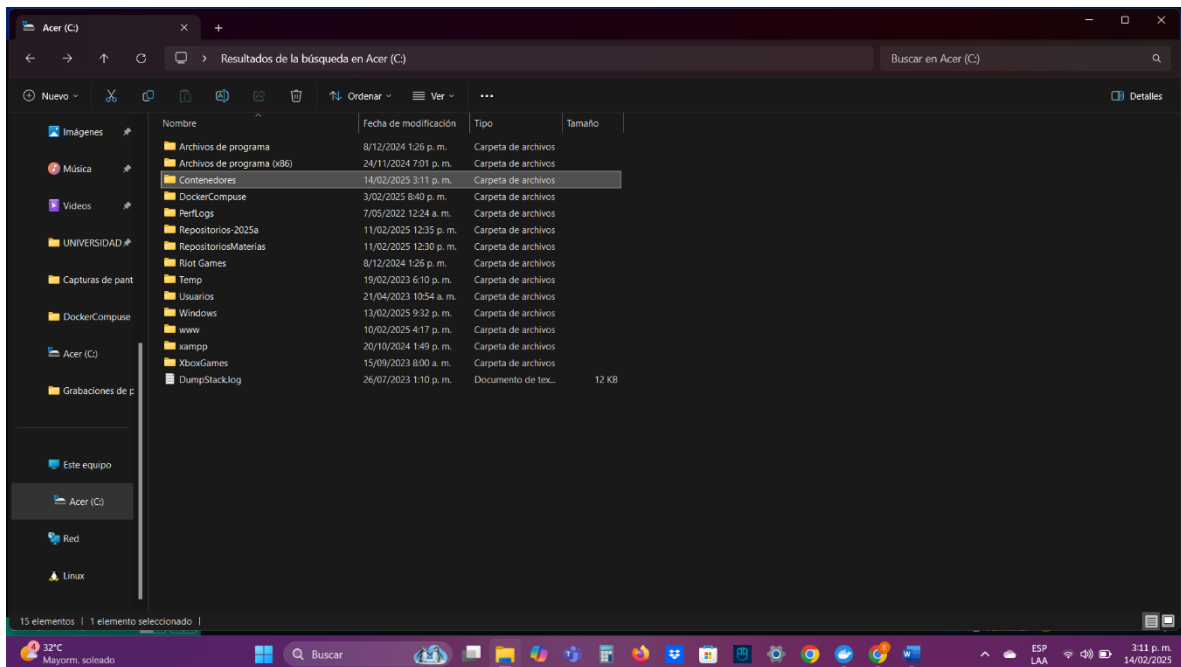
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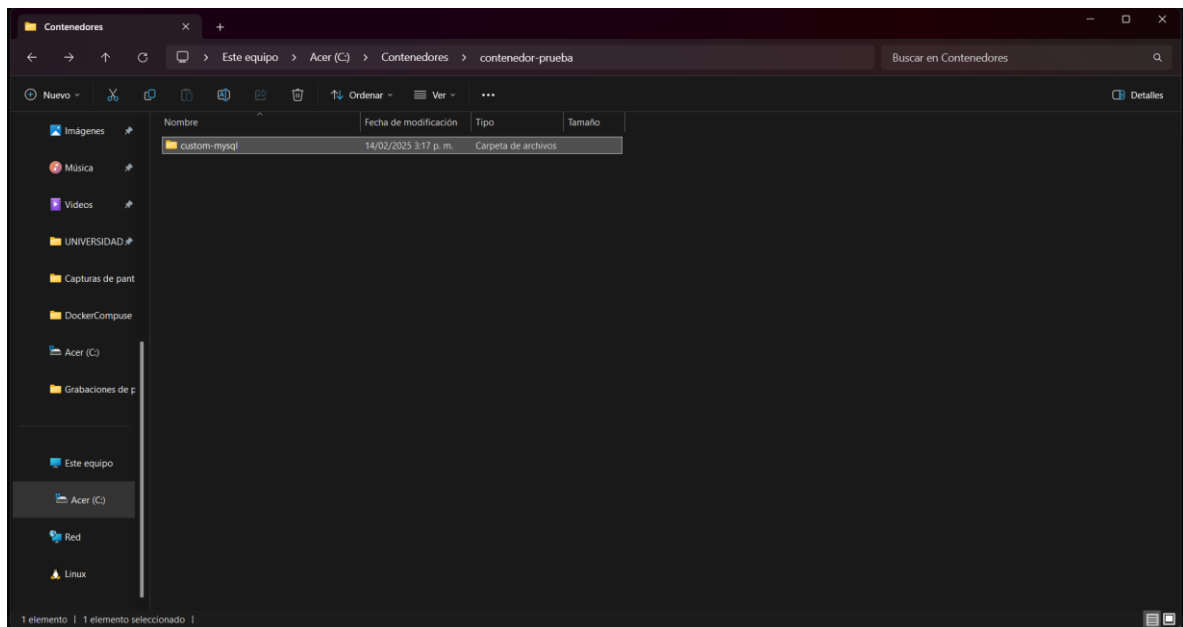
Grupo: 2

Fecha: 14/2/2025

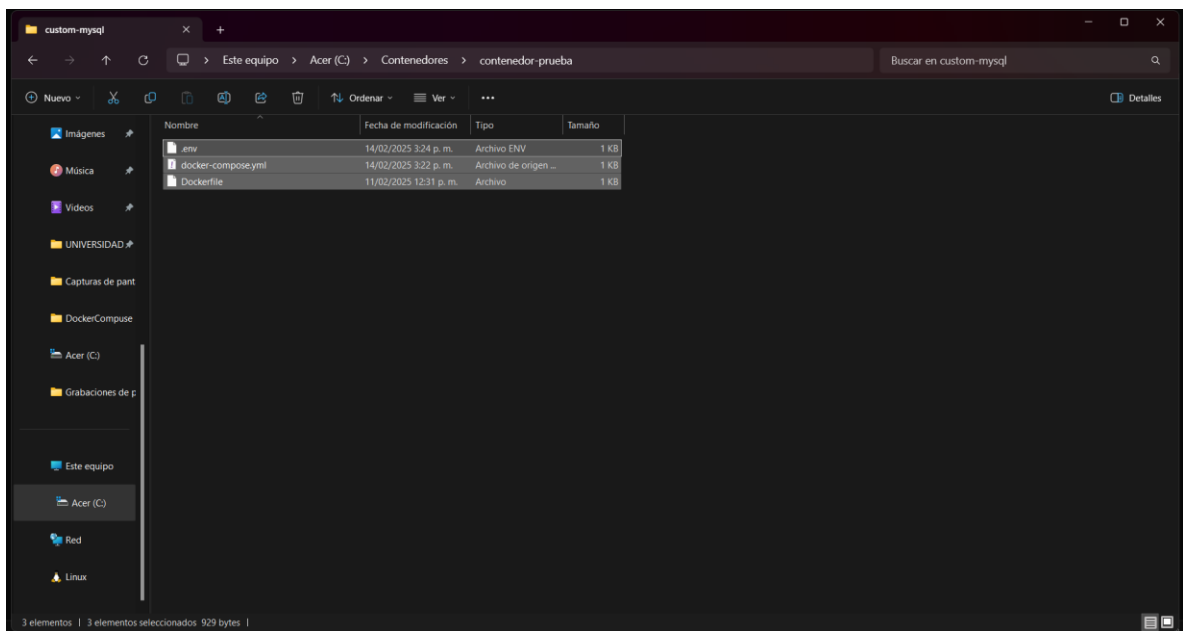
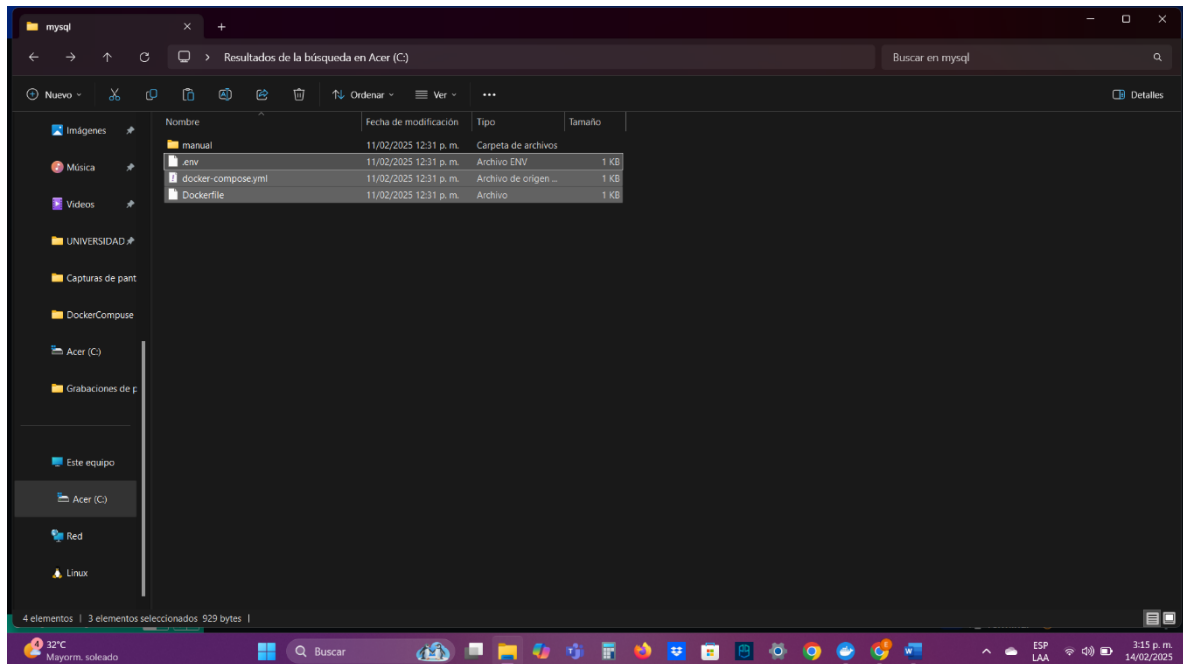
1. Creamos una carpeta, en mi caso la creé en el disco c y la nombré 'Contenedores', para almacenar allí todos los contenedores que tenga que crear.



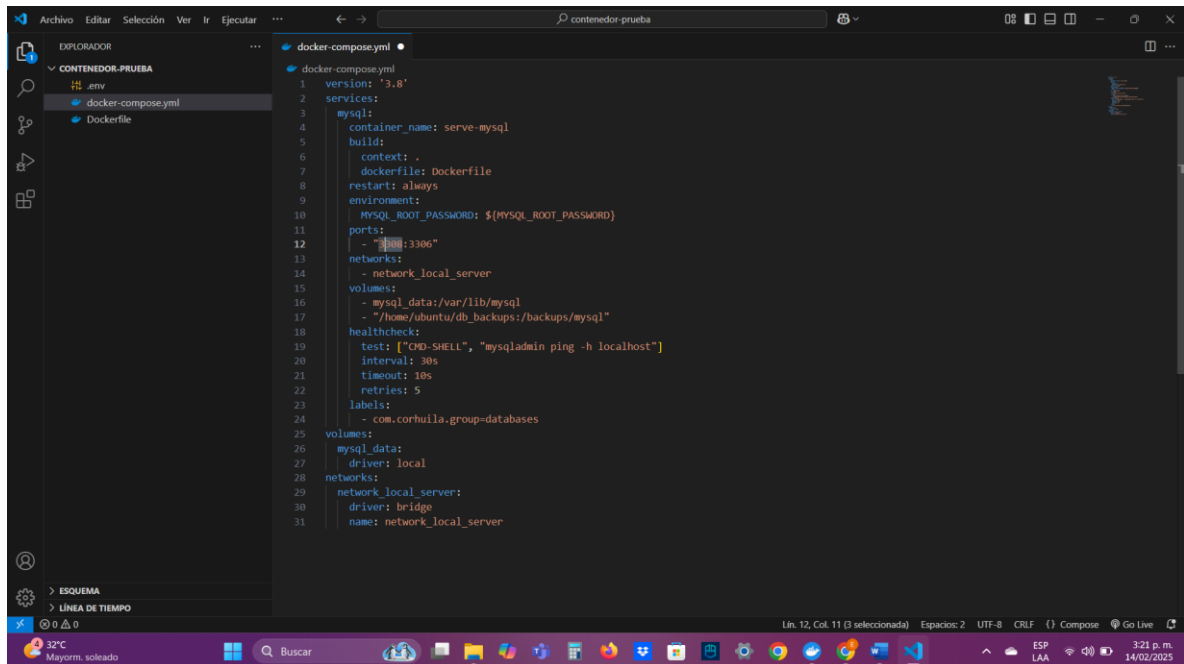
2. Dentro de esa carpeta creamos la que va a contener los archivos de nuestro contenedor



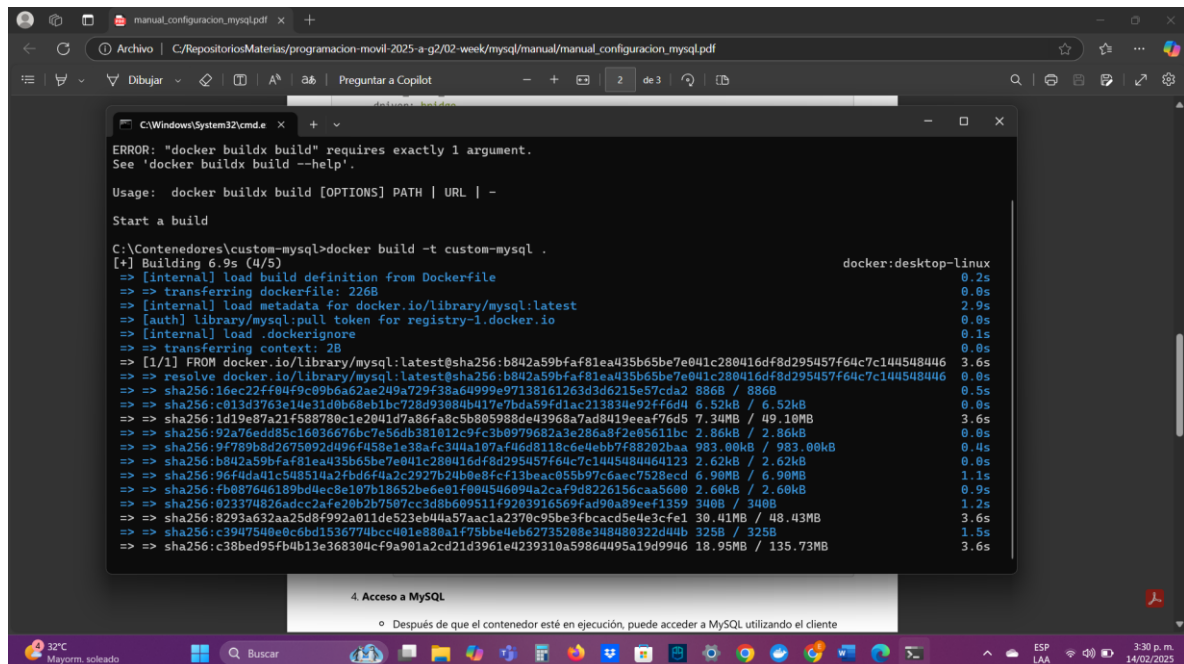
- Tomamos los archivos del repositorio del profesor, que contienen la configuración para crear la imagen de mysql y crear el contenedor, y los pegamos en nuestra carpeta



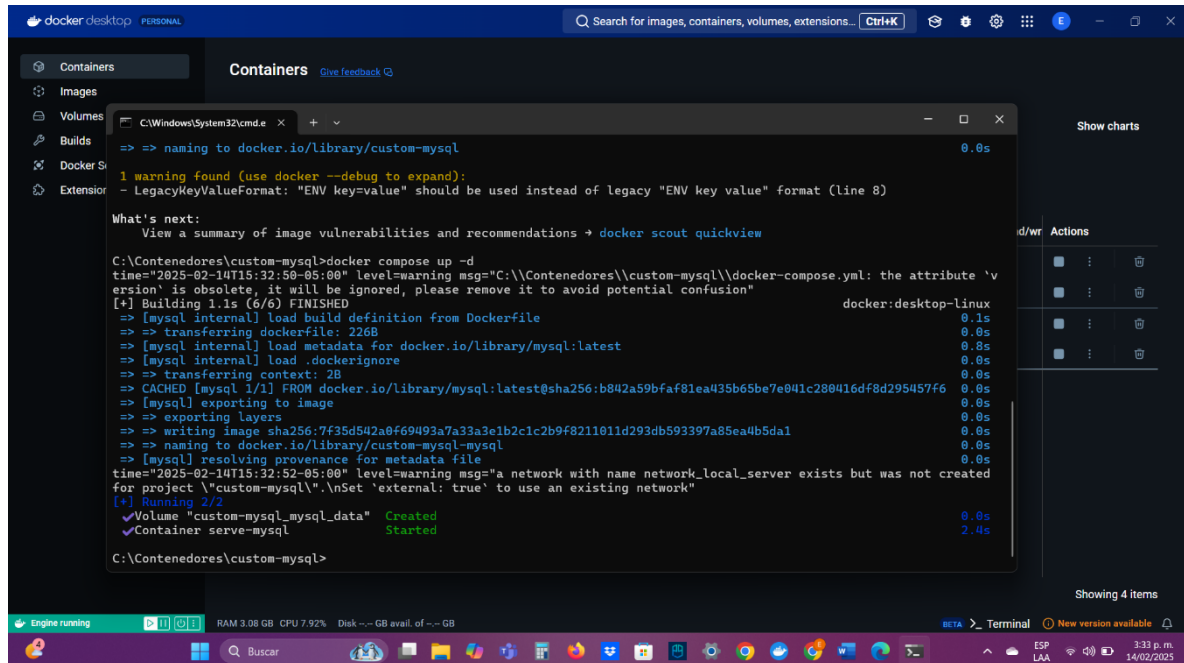
4. Abrimos los archivos y acomodamos las configuraciones según lo necesitemos, en mi caso editaré el puerto 3306 y lo cambiaré al 3309 para no tener inconvenientes con otro motor de datos que tengo corriendo.



5. Ahora abrimos el cmd en la carpeta y corremos el primer comando **docker build -t custom-mysql** . que creará la imagen de mysql que necesitamos.



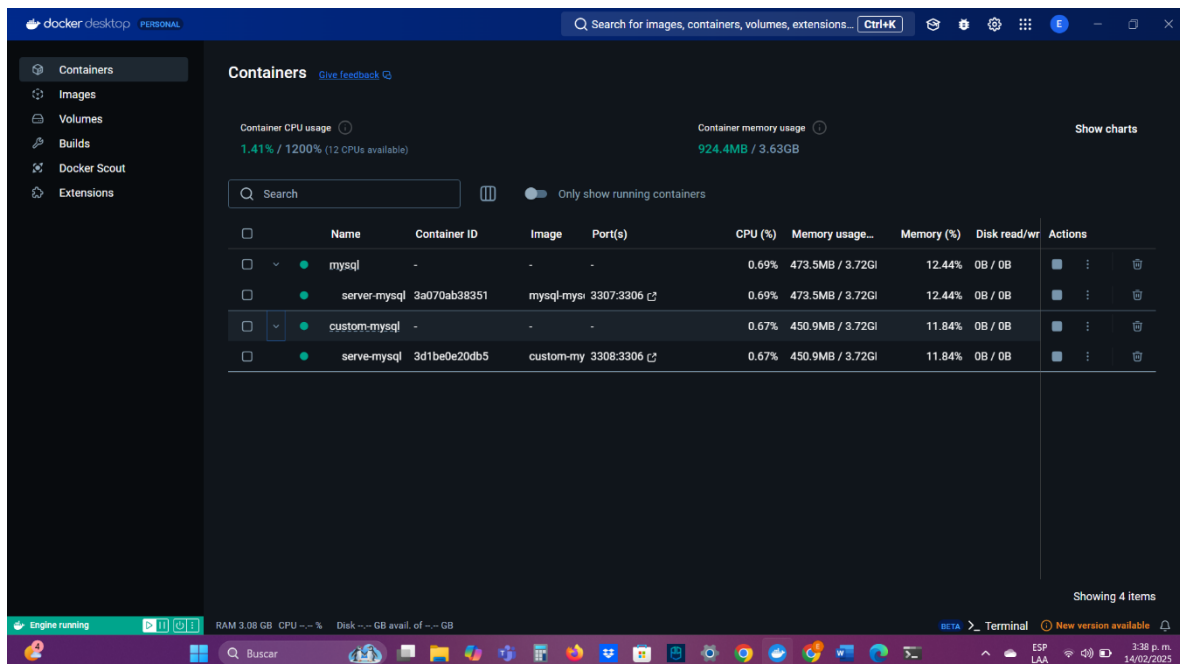
6. Ahora ponemos el comando **docker compose up -d** para construir la imagen y ejecutar los contenedores.



The screenshot shows the Docker Desktop interface with a terminal window open. The terminal displays the output of the command `docker compose up -d` executed in the directory `C:\Contenedores\custom-mysql`. The output shows the build process for the `custom-mysql` service, including downloading the `mysql` image and creating the `custom-mysql_data` volume. The container `serve-mysql` is then started. A warning message is displayed: "Warning: 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion". The terminal also shows the status of the container as `Running` and the volume as `Created`.

```
C:\Contenedores\custom-mysql>docker compose up -d
time="2025-02-14T15:32:50-05:00" level=warning msg="C:\\Contenedores\\custom-mysql\\docker-compose.yml: the attribute 'version' is obsolete, it will be ignored, please remove it to avoid potential confusion"
[+] Building 1.1s (6/6) FINISHED
=> [mysql internal] load build definition from Dockerfile
=> => transferring dockerfile: 226B
=> [mysql internal] load metadata for docker.io/library/mysql:latest
=> [mysql internal] load .dockerignore
=> => transferring context: 2B
=> CACHED [mysql 1/1] FROM docker.io/library/mysql:latest@sha256:b842a59bfaf81ea435b65be7e041c280416df8d295457f6
=> [mysql] exporting to image
=> => exporting layers
=> => writing image sha256:7f35d542a0f69493a7a33a3e1b2c1c2b9f8211011d293db593397a85ea4b5da1
=> => naming to docker.io/library/custom-mysql-mysql
=> [mysql] resolving provenance for metadata file
time="2025-02-14T15:32:52-05:00" level=warning msg="a network with name network_local_server exists but was not created for project 'custom-mysql'.\nSet 'external: true' to use an existing network"
[+] Running 2/2
✔ Volume "custom-mysql_data" Created
✔ Container serve-mysql Started
C:\Contenedores\custom-mysql>
```

7. Con esos comandos ya podremos ver la imagen y el contenedor funcionando.



The screenshot shows the Docker Desktop interface with the 'Containers' tab selected. The 'Containers' section displays a table of running containers. The table has columns for Name, Container ID, Image, Port(s), CPU (%), Memory usage..., Memory (%), Disk read/wr, and Actions. The table shows four containers: `mysql`, `server-mysql`, `custom-mysql`, and `serve-mysql`. The `custom-mysql` container is highlighted. The 'Container CPU usage' is 1.41% / 1200% (12 CPUs available) and the 'Container memory usage' is 924.4MB / 3.63GB.

	Name	Container ID	Image	Port(s)	CPU (%)	Memory usage...	Memory (%)	Disk read/wr	Actions
<input type="checkbox"/>	mysql	-	-	-	0.69%	473.5MB / 3.72Gi	12.44%	0B / 0B	
<input type="checkbox"/>	server-mysql	3a070ab38351	mysql-mys	3307:3306	0.69%	473.5MB / 3.72Gi	12.44%	0B / 0B	
<input checked="" type="checkbox"/>	custom-mysql	-	-	-	0.67%	450.9MB / 3.72Gi	11.84%	0B / 0B	
<input type="checkbox"/>	serve-mysql	3d1be0e20db5	custom-my	3308:3306	0.67%	450.9MB / 3.72Gi	11.84%	0B / 0B	