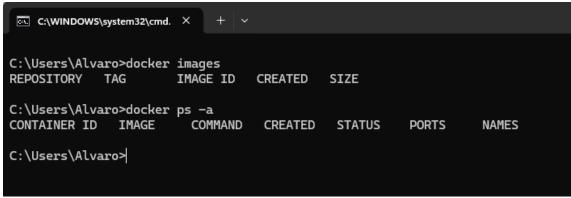
## ÁLVARO JOAQUÍN ALBARRACÍN SALINAS. 2ºDAW.

Actividad 1.

Vemos las imágenes y los contenedores.



Actividad 2.

Para desplegar ubuntu, corremos el hello-world de docker, ahí nos sale el comando para descargar y correr ubuntu. Lo ejecutamos y hacemos un comando (ls) de Linux.

```
... root@be1766671f0b: /
C:\Users\Alvaro docker run hello-world
Unable to find image 'hello-world:latest' locally
latest: Pulling from library/hello-world
e6590344b1a5: Download complete
Digest: sha256:d715f14f9eca81473d9112df50457893aa4d099adeb4729f679006bf5ea12407
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/
C:\Users\Alvaro<mark>>docker run -it ubuntu bash</mark>
Unable to find image 'ubuntu:latest' locally latest: Pulling from library/ubuntu
5a7813e071bf: Download complete
Digest: sha256:72297848456d5d37d1262630108ab308d3e9ec7ed1c3286a32fe09856619a782
Status: Downloaded newer image for ubuntu:latest
root@be1766671f0b:/# ls
                                  e lib lib64 media mnt opt proc root run sbin srv sys <mark>tmp</mark> usr var
 root@be1766671f0b:/# |
```

Paramos y eliminamos el contenedor hello-world a través de su CONTAINER ID.



Actividad 3.

Inspeccionamos la configuración de los del contenedor ubuntu(a través de su nombre).

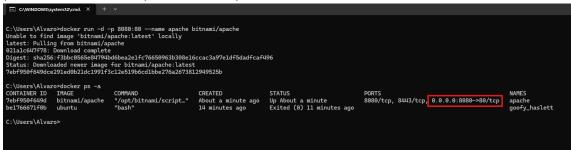
```
C:\Users\Alvaro>docker inspect goofy_haslett

[

| "Id": "be1766671f0be32e03043dcafa20acb620ae93d99d23574f392e1c00ba992048",
    "Created": "2025-02-11T07:39:24.8048097162",
    "Path": "bash",
    "Args": [],
    "States": {
        "Status": "exited",
        "Running": false,
        "Paused": false,
        "Paused": false,
        "OoMKilled": false,
        "Dead": false,
        "Paid": 0,
        "Exror": "",
        "Statue": "2025-02-11T07:39:25.0241462162",
        "FinishedAt": "2025-02-11T07:39:25.0241462162",
        "FinishedAt": "2025-02-11T07:41:50.3275601082"
        },
        "Image": "sha256:722978484565d537d1262630108ab308d3e9ec7ed1c3286a32fe09856619a782",
        "ResolvConfPath": "/var/lib/docker/containers/be1766671f0be32e03043dcafa20acb620ae93d99d23574f392e1c00ba992048/hostname",
        "HostnamePath": "/var/lib/docker/containers/be1766671f0be32e03043dcafa20acb620ae93d99d23574f392e1c00ba992048/hostname",
        "HostsPath": "/var/lib/docker/containers/be1766671f0be32e03043dcafa20acb620ae93d99d23574f392e1c00ba992048/hosts"
```

- Actividad 5.

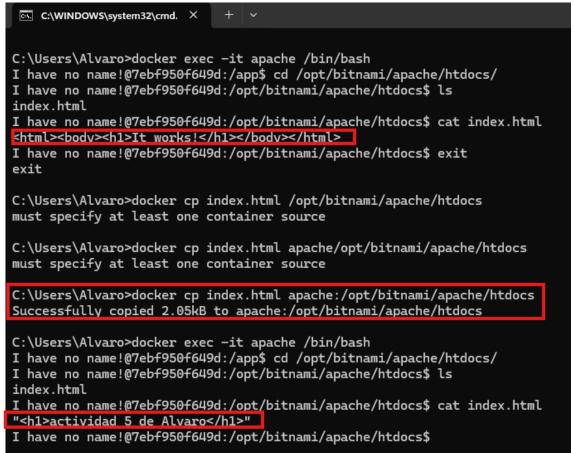
Creamos un contenedor apache a partir de la imagen bitnami/apache, con mapeo de puertos manual. Comprobamos los puertos.



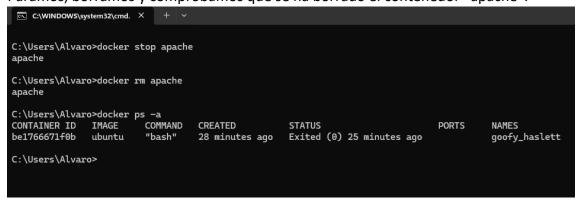
Creamos un index.html en nuestra máquina local. Comprobamos que se ha creado.

```
C:\Users\Alvaro echo "<h1>actividad 5 de Alvaro</h1>" > index.html
C:\Users\Alvaro>dir
El volumen de la unidad C no tiene etiqueta.
El número de serie del volumen es: 3091-5633
Directorio de C:\Users\Alvaro
10/02/2025
           11:43
                     <DIR>
25/11/2024
           10:02
                     <DIR>
07/01/2025 14:05
                                351 .bash_history
03/12/2024 09:08
                     <DIR>
                                    .cache
11/02/2025
                                    .docker
           08:32
                     <DIR>
03/12/2024 09:08
                     <DIR>
                                    .eclipse
25/11/2024 10:17
                                196 .gitconfig
                                    .jdks
21/01/2025 12:39
                     <DIR>
15/01/2025 12:07
                                    .lemminx
                     <DIR>
21/01/2025 12:39
                     <DIR>
                                    . m2
21/01/2025
           08:26
                    <DIR>
                                    . p2
                                    .VirtualBox
07/02/2025 10:38
                     <DIR>
25/11/2024 10:15
                                    .vscode
                     <DIR>
09/01/2025 08:32
                     <DIR>
                                    apache-tomcat-9.0.89
25/11/2024 10:02
                                    Contacts
                     <DIR>
11/02/2025 08:31
                     <DIR>
                                    Desktop
10/01/2025 13:30
                                    Documents
                    <DIR>
11/02/2025 08:30
                     <DIR>
                                    Downloads
07/01/2025 09:55
                     <DIR>
                                    eclipse
21/01/2025 09:25
                    <DIR>
                                    eclipse-enterprise
03/12/2024 09:08
                                    eclipse-workspace
                     <DIR>
07/01/2025
                                    eclipseEnterprise
           09:56
                     <DIR>
25/11/2024 12:49
                                    example-app
                    <DIR>
25/11/2024 10:02
                     <DIR>
                                   Favorites
                                35 index.html
11/02/2025 08:58
25/11/2024 10:02
                    <DIR>
                                    Links
25/11/2024 10:02
                     <DIR>
                                    Music
25/11/2024
           10:02
                     <DIR>
                                    OneDrive
26/11/2024 08:24
                                    Pictures
                    <DIR>
10/02/2025 12:31
                     <DIR>
                                    practica12
25/11/2024 10:02
                                    Saved Games
                     <DIR>
26/11/2024 08:18
                    <DIR>
                                    Searches
09/01/2025
           11:31
                     <DIR>
                                    Videos
10/12/2024
           08:23
                     <DIR>
                                   VirtualBox VMs
                                     582 bytes
               3 archivos
              31 dirs 135.747.346.432 bytes libres
```

Accedemos al contenedor en modo interactivo, vemos el index que tiene por defecto. Copiamos el index de nuestra máquina local al contenedor. Accedemos de nuevo al contenedor y vemos el index, ya que en el navegador no nos dejaba.



Paramos, borramos y comprobamos que se ha borrado el contenedor "apache".



Actividad 7.

Creamos dos contenedores en el mismo volumen. Vemos que se ha creado el volumen "volumen1".

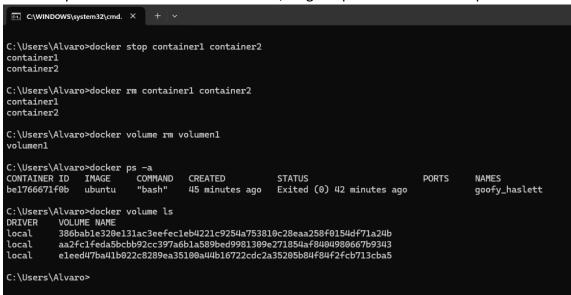


Accedemos al contenido del volumen.

```
C:\WINDOWS\system32\cmd. × + v

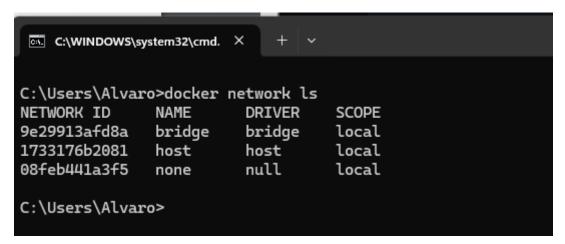
C:\Users\Alvaro>docker inspect volumen1
[
        "CreatedAt": "2025-02-11T08:17:30Z",
        "Driver": "local",
        "Labels": null,
        "Mountpoint": "/var/lib/docker/volumes/volumen1/_data",
        "Name": "volumen1",
        "Options": null,
        "Scope": "local"
    }
]
C:\Users\Alvaro>
```

Paramos y borramos ambos contenedores, al igual que el volumen. Comprobamos.

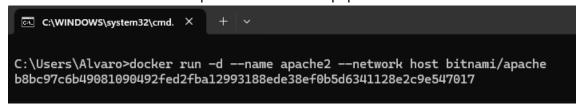


- Actividad 8.

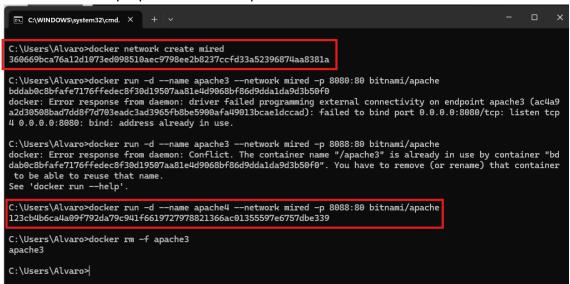
Comprobamos las redes que hay definidas.



Conectamos un contenedor apache a la red del equipo.



Creamos nuestra propia red en modo puente. Creamos un contenedor dentro de ella.



## Observamos las características de la red.

```
C:\WINDOWS\system32\cmd. X
C:\Users\Alvaro>docker network inspect mired
    {
        "Name": "mired",
        "Id": "360669bca76a12d1073ed098510aec9798ee2b8237ccfd33a52396874aa8381a",
        "Created": "2025-02-11T08:32:08.718184876Z",
        "Scope": "local",
"Driver": "bridge",
        "EnableIPv6": false,
        "IPAM": {
            "Driver": "default".
            "Options": {},
            "Config": [
                {
                     "Subnet": "172.18.0.0/16",
                     "Gateway": "172.18.0.1"
            ]
```