```
PS C:\Users\laura> docker version
Client:
Version:
                    27.4.0
API version:
                    1.47
                    go1.22.10
Go version:
Git commit:
                    bde2b89
                    Sat Dec 7 10:40:21 2024 windows/amd64
Built:
OS/Arch:
Context:
                    desktop-linux
Server: Docker Desktop 4.37.1 (178610)
Engine:
 Version:
                    27.4.0
                    1.47 (minimum version 1.24)
 API version:
                    go1.22.10
 Go version:
 Git commit:
                    92a8393
 Built:
                    Sat Dec 7 10:38:57 2024
 OS/Arch:
                    linux/amd64
 Experimental:
                    false
 containerd:
 Version:
                    1.7.21
 GitCommit:
                    472731909fa34bd7bc9c087e4c27943f9835f111
 runc:
 Version:
                    1.1.13
 GitCommit:
                    v1.1.13-0-g58aa920
docker-init:
 Version:
                    0.19.0
 GitCommit:
                    de40ad0
PS C:\Users\laura>
```

```
PS C:\Users\laura> docker --help
Usage: docker [OPTIONS] COMMAND
A self-sufficient runtime for containers
Common Commands:
              Create and run a new container from a
  run
              Execute a command in a running contain
  exec
              List containers
  ps
  build
              Build an image from a Dockerfile
  pull
              Download an image from a registry
  push
              Upload an image to a registry
  images
              List images
  login
              Authenticate to a registry
              Log out from a registry
  logout
              Search Docker Hub for images
  search
              Show the Docker version information
  version
  info
              Display system-wide information
Management Commands:
              Ask Gordon - Docker Agent
  ai*
              Manage builds
```

```
PS C:\Users\laura> docker pull --help
Usage: docker pull [OPTIONS] NAME[:TAG|@DIGEST]
Download an image from a registry
Aliases:
  docker image pull, docker pull
Options:
  -a, --all-tags
                                Download all tagged images in the repository
      --disable-content-trust
                                Skip image verification (default true)
      --platform string
                                Set platform if server is multi-platform
                                capable
  -q, --quiet
                                Suppress verbose output
PS C:\Users\laura>
```

- No hay argumentos absolutamente requeridos puesto que nos indican que todos son opcionales
- Un registro es una unidad de memoria que guarda un solo dato

1.2

```
PS C:\Users\laura> docker pull japeto/pujgcc:latest
latest: Pulling from japeto/pujgcc
Digest: sha256:9b3d7bbf410396d0a26e6bcffbb54e4239736d5a23ad694b03d93c26f9fc6
868
Status: Image is up to date for japeto/pujgcc:latest
docker.io/japeto/pujgcc:latest
```

```
PS C:\Users\laura> docker images
REPOSITORY
                  TAG
                            IMAGE ID
                                            CREATED
                                                             SIZE
lauisa/helloso
                  latest
                            94e69f338da6
                                            23 hours ago
                                                             1.42GB
japeto/pujgcc
                  latest
                            05141310a94c
                                            24 months ago
                                                             1.39GB
```

- El tamaño de la imagen japeto/pujgcc es de 1.39GB
- EL Image ID es 05141310a94c

- La arquitectura es "amd64"
- Si, es linux

```
PS C:\Users\laura> docker run --help
Usage: docker run [OPTIONS] IMAGE [COMMAND] [ARG...]
Create and run a new container from an image
Aliases:
  docker container run, docker run
Options:
      --add-host list
                                            Add a custom host-to-IP mapping
                                            (host:ip)
      --annotation map
                                            Add an annotation to the
                                            container (passed through to the
                                            OCI runtime) (default map[])
Attach to STDIN, STDOUT or STDERR
Block IO (relative weight),
  -a, --attach list
      --blkio-weight uint16
                                            between 10 and 1000, or 0 to
                                            disable (default 0)
      --blkio-weight-device list
                                            Block IO weight (relative device
                                            weight) (default [])
      --cap-add list
                                            Add Linux capabilities
      --cap-drop list
                                            Drop Linux capabilities
      --cgroup-parent string
                                            Optional parent cgroup for the
                                            container
                                            Cgroup namespace to use
      --cgroupns string
                                            (host|private)
                                            'host':
                                                        Run the container in
                                            the Docker host's cgroup
                                            namespace
                                             'private': Run the container in
                                            its own private cgroup namespace
                                                       Use the cgroup
                                            namespace as configured by the
                                                        default-cgroupns-mode
                                            option on the daemon (default)
                                            Write the container ID to the file
      --cidfile string
      --cpu-period int
                                            Limit CPU CFS (Completely Fair
                                            Scheduler) period
Limit CPU CFS (Completely Fair
      --cpu-quota int
```

 Una imagen es la plantilla que seguirá el contenedor y el contenedor es una instancia de una plantilla

```
PS C:\Users\laura> docker run japeto/pujgcc bash --help
GNU bash, version 4.3.30(1)-release-(x86_64-pc-linux-gnu)
Usage: bash [GNU long option] [option] ...
         bash [GNU long option] [option] script-file ...
GNU long options:
         --debug
         --debugger
         --dump-po-strings
         --dump-strings
         --help
         --init-file
         --login
         --noediting
         --noprofile
         --norc
         --posix
         --rcfile
         --restricted
         --verbose
         --version
Shell options:
         -ilrsD or -c command or -O shopt_option
                                                                 (invocation only)
-abefhkmnptuvxBCHP or -o option

Type `bash -c "help set"' for more information about shell options.

Type `bash -c help' for more information about shell builtin commands.
Use the 'bashbug' command to report bugs.
```

• Se desplego una lista de opciones para GNU y Shell, es un mensaje de bash

```
PS C:\Users\laura> docker run -it japeto/pujgcc bash root@dea6e3b5f79a:/# pwd
/
root@dea6e3b5f79a:/# ls
pin dev home lib64 mnt proc run srv tmp var
poot etc lib media opt root sbin sys usr
PS C:\Users\laura> docker inspect --format='{{.Config.Volumes}}' japeto/pujgcc:latest map[]
```

```
PS C:\Users\laura> docker run -v ${PWD}:/home/ japeto/pujgcc:latest ls /home/
Cisco Packet Tracer 8.2.2
Configuración local
Contacts
Cookies
Datos de programa
Documents
Downloads
Entorno de red
Favorites
Impresoras
Links
Menú Inicio
Mis documentos
Music
OneDrive
Plantillas
Reciente
Saved Games
Searches
SendTo
Temp - Acceso directo.lnk
Videos
VirtualBox VMs
ansel
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini
temporal
```

- El directorio actual es /
- Tiene 19 carpetas
- Si, existe una carpeta llamada home