Pasos para conectar a un servidor FTP en Docker

- **sin SSL**
- **con usuarios del sistema**

1. Crear la red

```
root@nuria-virtualbox:/home/nuria# docker network create --subnet=172.30.2.0/16 redFTP
0b8ff3f544053c7559fb008e59093b891ccfae08cfab70d6deefd686e571c002
root@nuria-virtualbox:/home/nuria# docker images
REPOSITORY                        TAG         IMAGE ID       CREATED         SIZE
nuriapastrana/imagenbaseubuntu16  1.0         5f7eb551e05a   4 days ago      275MB
nuriapastrana/imagenbaseubuntu22  1.0         c181386ee4c8   7 days ago      225MB
nuriapastrana/imagenbase          latest      f328367c7f79   8 days ago      225MB
imagenbaseubuntu22_nuria          latest      e9af8ec31146   8 days ago      225MB
php                               7.4-apache  20a3732f422b   2 weeks ago     453MB
ubuntu                            22.04       a8780b506fa4   3 weeks ago     77.8MB
ubuntu                            20.04       680e5dfb52c7   5 weeks ago     72.8MB
ubuntu                            18.04       71eaf13299f4   5 weeks ago     63.1MB
php                               7.3-apache  35da9118b3c0   8 months ago    451MB
hello-world                       latest      feb5d9fea6a5   14 months ago   13.3kB
ubuntu                            16.04       b6f507652425   15 months ago   135MB
```

2. Crear el contenedor servidor basado en la imagenbase

```
root@nuria-virtualbox:/home/nuria# docker run -it --net redFTP --ip 172.30.2.1 -d --name serverftp nuriapastrana/imagenbaseub
untu16:1.0
45a9f77011af60968f5abd9e3d307c2feb3e79afff4aec772d758adb31e7414e
```

3. Instalar proFTPd en el contenedor Servidor (modo standalone)

```
root@nuria-virtualbox:/home/nuria# docker exec -it serverftp /bin/bash
root@45a9f77011af:/# apt-get install proftpd-basic
```

```
root@45a9f77011af:/# ls -l /etc/proftpd
total 1324
-rw-r--r-- 1 root root 1310700 Mar 12  2018 blacklist.dat
drwxr-xr-x 2 root root    4096 Mar 12  2018 conf.d
-rw-r--r-- 1 root root    9420 Mar 12  2018 dhparams.pem
-rw-r--r-- 1 root root     701 Nov 29 10:14 ldap.conf
-rw-r--r-- 1 root root    2682 Nov 29 10:14 modules.conf
-rw-r--r-- 1 root root    5356 Nov 29 10:14 proftpd.conf
-rw-r--r-- 1 root root     862 Nov 29 10:14 sql.conf
-rw-r--r-- 1 root root    2082 Nov 29 10:14 tls.conf
-rw-r--r-- 1 root root     832 Nov 29 10:14 virtuals.conf
```

```
root@45a9f77011af:/# service proftpd status
ProFTPD is started in standalone mode, currently not running.
root@45a9f77011af:/# service proftpd start
 * Starting ftp server proftpd
root@45a9f77011af:/# service proftpd status
ProFTPD is started in standalone mode, currently running.
```

4. Crear un contenedor cliente

```
root@nuria-virtualbox:/home/nuria# docker run -it --net redFTP --ip 172.30.2.2 -d --name clienteftp nuriapastrana/imagenbaseu
buntu16:1.0
c5afa2b7b95e9dd5b69e5f38999da25feb93a389534d6f4d7e29d2f140060fde
```

5. Instalar GFTP en el contenedor Cliente

```
root@nuria-virtualbox:/home/nuria# docker exec -it clienteftp /bin/bash
root@c5afa2b7b95e:/# apt-get install gftp
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  dbus fontconfig fontconfig-config fonts-dejavu-core gftp-common gftp-gtk
```

6. Comprobar que se accede desde el cliente al servidor

```
root@c5afa2b7b95e:/# gftp
gFTP Warning: Skipping line 248 in config file: entropy_source
gFTP Warning: Skipping line 251 in config file: entropy_len
gFTP Warning: Skipping line 254 in config file: verify_ssl_peer
gFTP 2.0.19, Copyright (C) 1998-2008 Brian Masney <masneyb@gftp.org>. If you have any
about this program, please feel free to email them to me. You can always find out the
at http://www.gftp.org/
gFTP comes with ABSOLUTELY NO WARRANTY; for details, see the COPYING file. This is fr
redistribute it under certain conditions; for details, see the COPYING file

ftp> open 172.30.2.1
Username [anonymous]: alumno
Password:
Looking up 172.30.2.1
Trying 172.30.2.1:21
Connected to 172.30.2.1:21
220 ProFTPD 1.3.5a Server (Debian) [::ffff:172.30.2.1]
USER alumno
331 Password required for alumno
PASS xxxx
230 User alumno logged in
SYST
215 UNIX Type: L8
TYPE I
200 Type set to I
PWD
257 "/home/alumno" is the current directory
ftp>
```

Si creamos un fichero en la carpeta /home/alumno llamado bienvenido.txt, cuando nos conectemos desde el cliente, tenemos que verla