1. Servidor vsftpd. Instalación

Primero instalamos el servidor FTP.

```
root@nery-virtual-machine:/home/nery# sudo apt-get install vsftpd
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  vsftpd
0 upgraded, 1 newly installed, 0 to remove and 4 not upgraded.
Need to get 123 kB of archives.
After this operation, 326 kB of additional disk space will be used.
Get:1 http://es.archive.ubuntu.com/ubuntu jammy/main amd64 vsftpd amd64 3.0.5-0ubuntu1 [123 kB]
Fetched 123 kB in 1s (176 kB/s)
Preconfiguring packages ...
Selecting previously unselected package vsftpd.
(Reading database ... 199770 files and directories currently installed.)
Preparing to unpack .../vsftpd_3.0.5-0ubuntu1_amd64.deb ...
Unpacking vsftpd (3.0.5-0ubuntu1) ...
Setting up vsftpd (3.0.5-0ubuntu1) ...
Created symlink /etc/systemd/system/multi-user.target.wants/vsftpd.service → /lib/systemd/system/vsftpd.service.
```

Iniciamos el servicio vsftpd y comprobamos el estado.

```
nery@nery-virtual-machine:~$ sudo service vsftpd start
[sudo] password for nery:
nery@nery-virtual-machine:~$ sudo service vsftpd status
● vsftpd.service - vsftpd FTP server
     Loaded: loaded (/lib/systemd/system/vsftpd.service; enabled; vendor preset: enabled)
     Active: active (running) since Fri 2024-02-02 17:50:23 CET; 5min ago
    Process: 2545 ExecStartPre=/bin/mkdir -p /var/run/vsftpd/empty (code=exited, status=0/SUCCESS)
   Main PID: 2546 (vsftpd)
      Tasks: 1 (limit: 4555)
     Memory: 864.0K
        CPU: 28ms
     CGroup: /system.slice/vsftpd.service
             └─2546 /usr/sbin/vsftpd /etc/vsftpd.conf

feb 02 17:50:23 nery-virtual-machine systemd[1]: Starting vsftpd FTP server...
feb 02 17:50:23 nery-virtual-machine systemd[1]: Started vsftpd FTP server.
```

2. Transferir un archivo al servidor remoto mediante la terminal. Usuario local y al directorio compartido con los usuarios anonymous

Modificamos el archivo de configuración descomentando la directiva write_enable=YES.

```
221 Goodbye.
nery@nery-virtual-machine:~$ sudo nano /etc/vsftpd.conf
```

```
  GNU nano 6.2                 /etc/vsftpd.conf
# This directive enables listening on IPv6 sockets. By default, list>
# on the IPv6 "any" address (::) will accept connections from both I>
# and IPv4 clients. It is not necessary to listen on *both* IPv4 and>
# sockets. If you want that (perhaps because you want to listen on s>
# addresses) then you must run two copies of vsftpd with two configu>
# files.
listen_ipv6=YES
#
# Allow anonymous FTP? (Disabled by default).
anonymous_enable=NO
#
# Uncomment this to allow local users to log in.
local_enable=YES
#
# Uncomment this to enable any form of FTP write command.
write_enable=YES
#
# Default umask for local users is 077. You may wish to change this >
# if your users expect that (022 is used by most other ftpd's)
#local_umask=022
```

Reiniciamos el servicio.

```
nery@nery-virtual-machine:~$ service vsftpd restrart
Usage: /etc/init.d/vsftpd {start|stop|restart|reload|status}
nery@nery-virtual-machine:~$ service vsftpd restart
nery@nery-virtual-machine:~$ sudo service vsftpd status
● vsftpd.service - vsftpd FTP server
     Loaded: loaded (/lib/systemd/system/vsftpd.service; enabled; vendor preset: enabled)
     Active: active (running) since Fri 2024-02-02 18:04:16 CET; 38s ago
    Process: 2706 ExecStartPre=/bin/mkdir -p /var/run/vsftpd/empty (code=exited, status=0/SUCCESS)
   Main PID: 2707 (vsftpd)
      Tasks: 1 (limit: 4555)
     Memory: 860.0K
        CPU: 23ms
     CGroup: /system.slice/vsftpd.service
             └─2707 /usr/sbin/vsftpd /etc/vsftpd.conf

feb 02 18:04:16 nery-virtual-machine systemd[1]: Starting vsftpd FTP server...
feb 02 18:04:16 nery-virtual-machine systemd[1]: Started vsftpd FTP server.
```

Creamos un archivo de texto que será transferido al servidor remoto.

```
nery@nery-virtual-machine:~$ sudo touch /home/nery/Downloads/un_archivo.txt
nery@nery-virtual-machine:~$ sudo nano  /home/nery/Downloads/un_archivo.txt
```

Damos todos los permisos al usuario.

```
nery@nery-virtual-machine:~$ sudo chown nery  /home/nery/Downloads/un_archivo.txt
```

Creamos un directorio para las subidas.

```
nery@nery-virtual-machine:~$ sudo mkdir /srv/ftp/subidas
```

Damos todos los permisos al usuario sobre el directorio subidas.

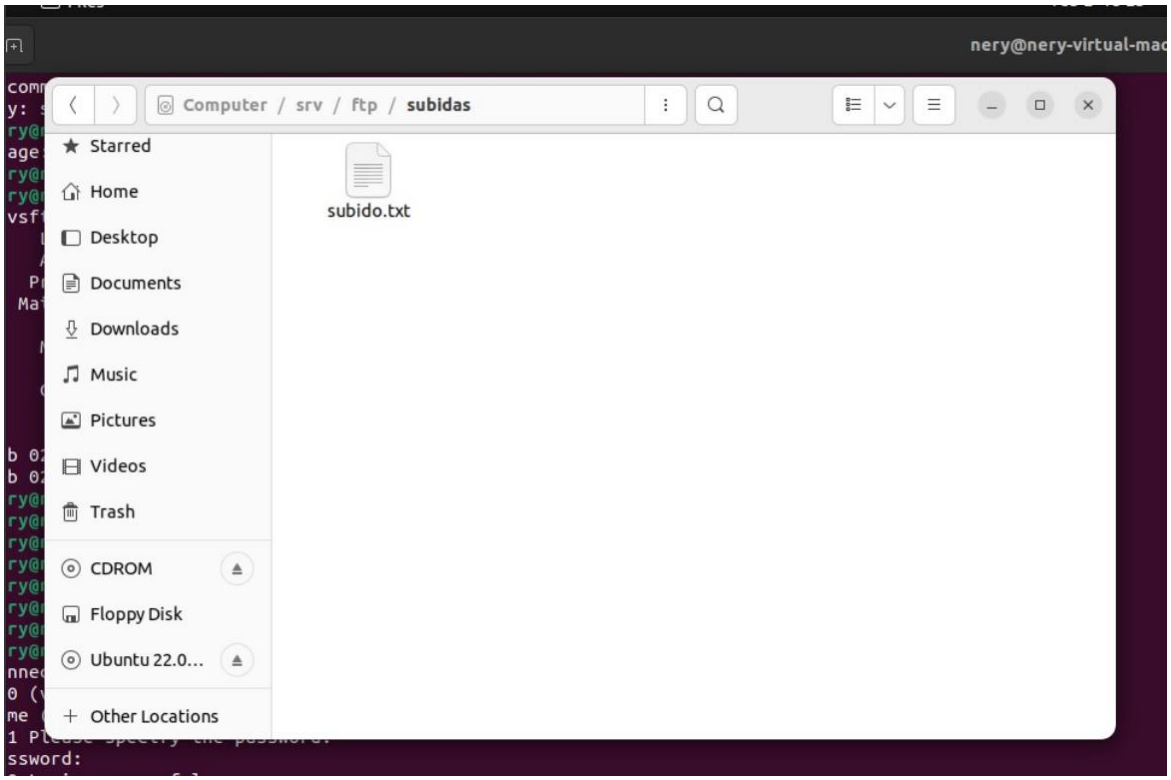
```
nery@nery-virtual-machine:~$ sudo chown nery /srv/ftp/subidas
```

Nos conectamos al cliente ftp.

```
nery@nery-virtual-machine:~$ ftp localhost
Connected to localhost.
220 (vsFTPd 3.0.5)
Name (localhost:nery): nery
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
```

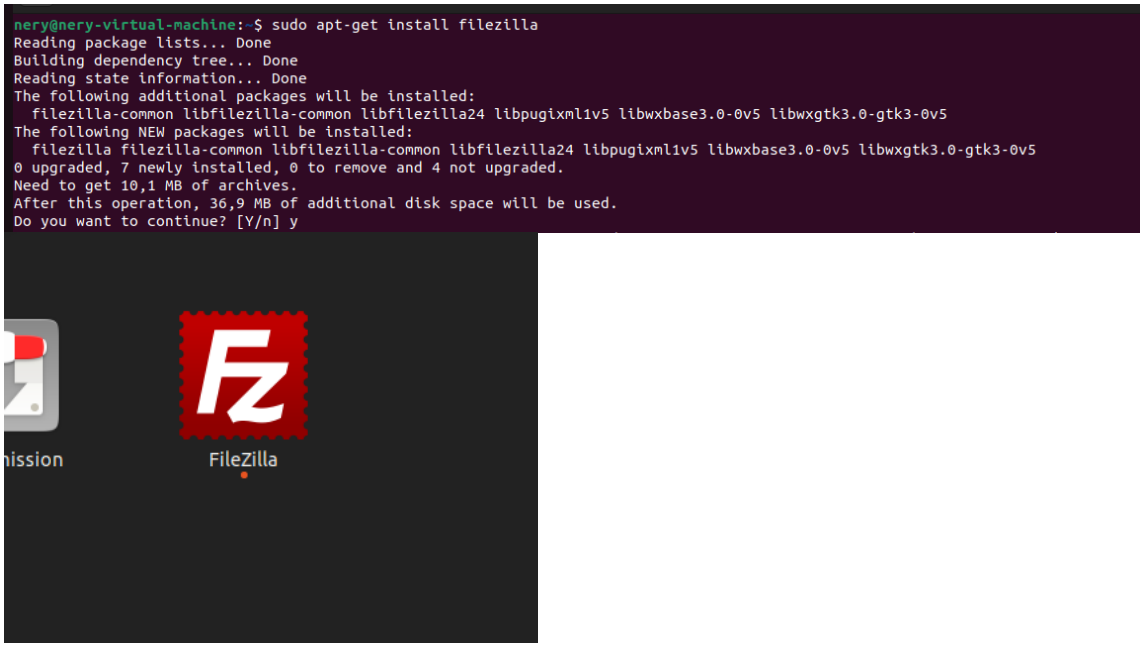
Transferimos el archivo un_archivo.txt al directorio subidas renombrando el nombre del archivo a subido.txt.

```
ftp> put /home/nery/Downloads/un_archivo.txt /srv/ftp/subidas/subido.txt
local: /home/nery/Downloads/un_archivo.txt remote: /srv/ftp/subidas/subido.txt
229 Entering Extended Passive Mode (|||34100|)
150 Ok to send data.
100% |*****************************************************************************************************************
226 Transfer complete.
30 bytes sent in 00:00 (27.43 KiB/s)
ftp> exit
221 Goodbye.
```

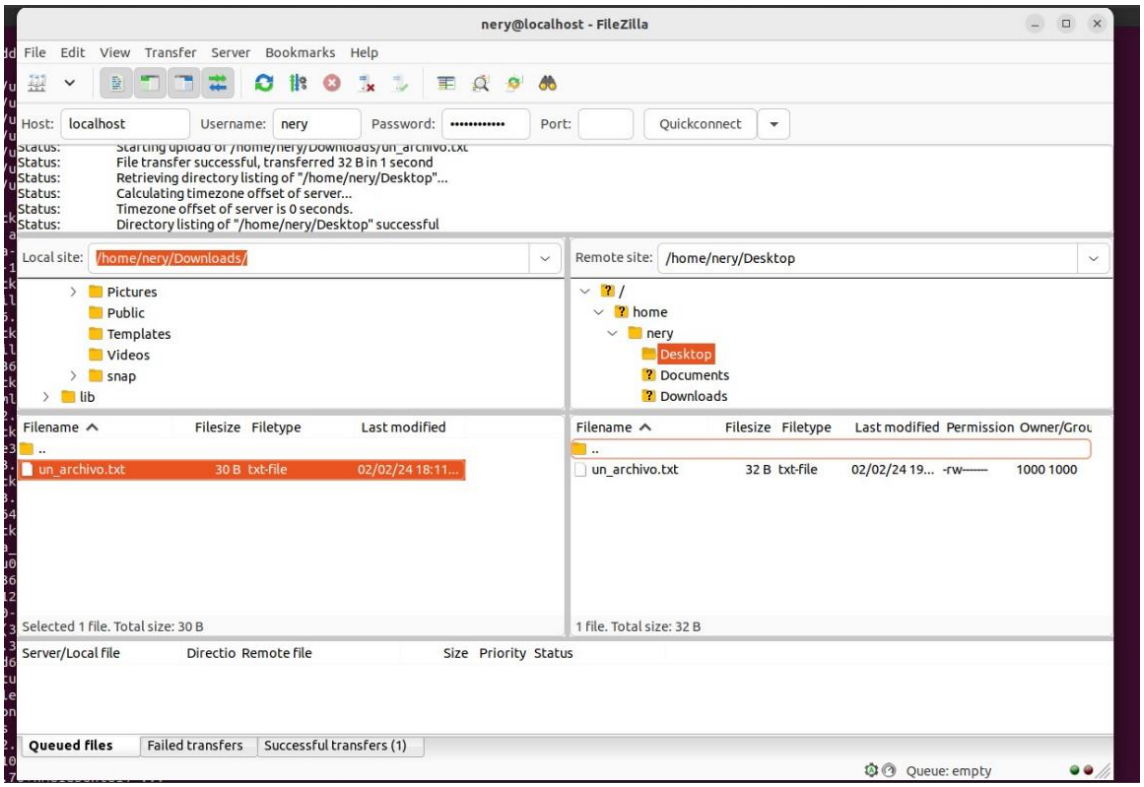


3. Transferir un archivo al servidor remoto mediante Filezilla. Usuario local al servidor FTP (directorio usuario)

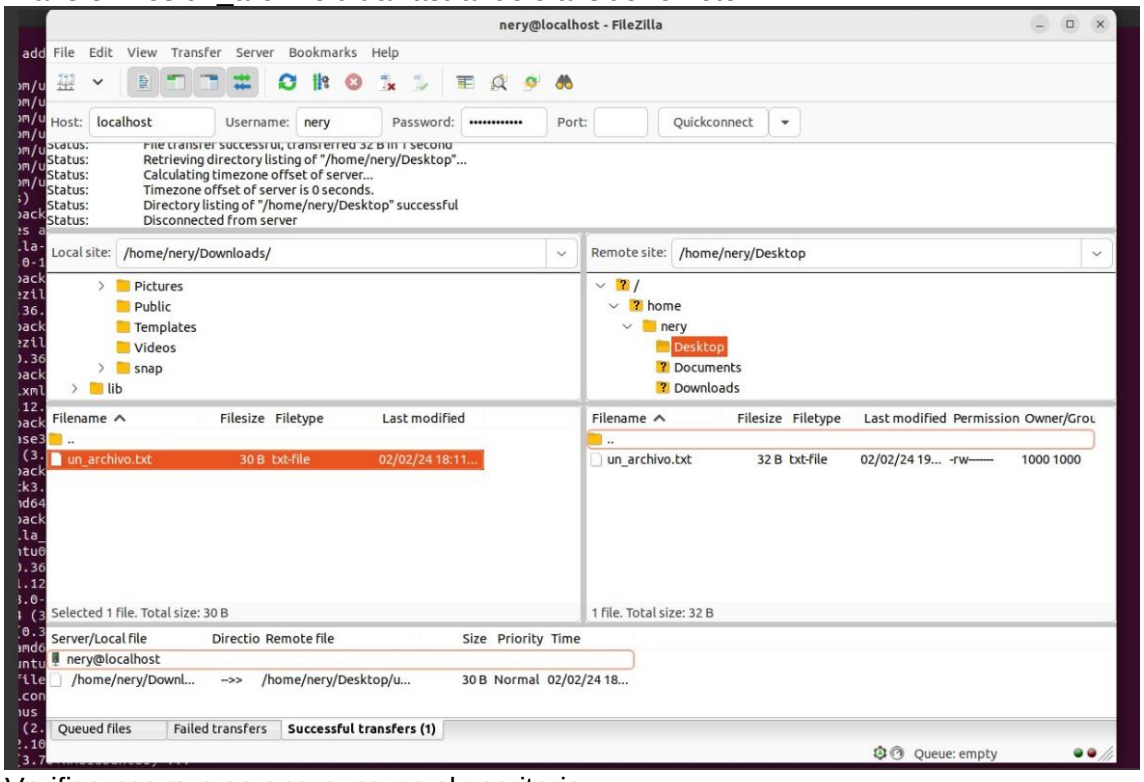
Instalamos filezilla.



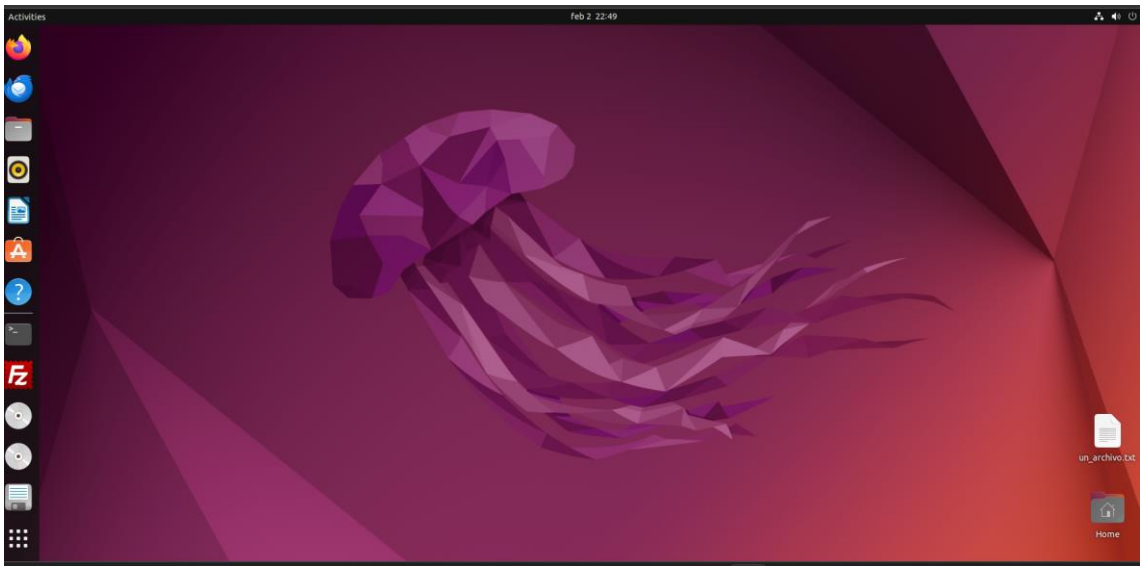
Nos conectamos con el usuario NERY, si no introducimos un puerto se conectará automáticamente al 21.



Transferimos un_archivo.txt arrastrándolo al sitio remoto.

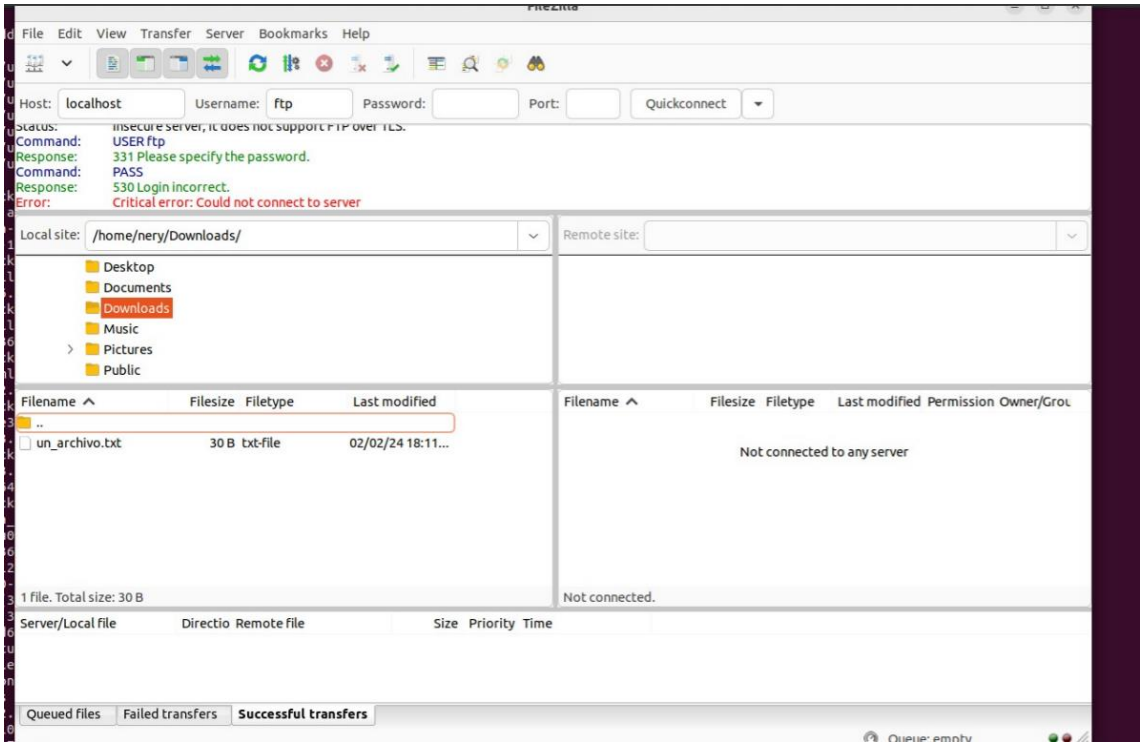


Verificamos que se aparezca en el escritorio.



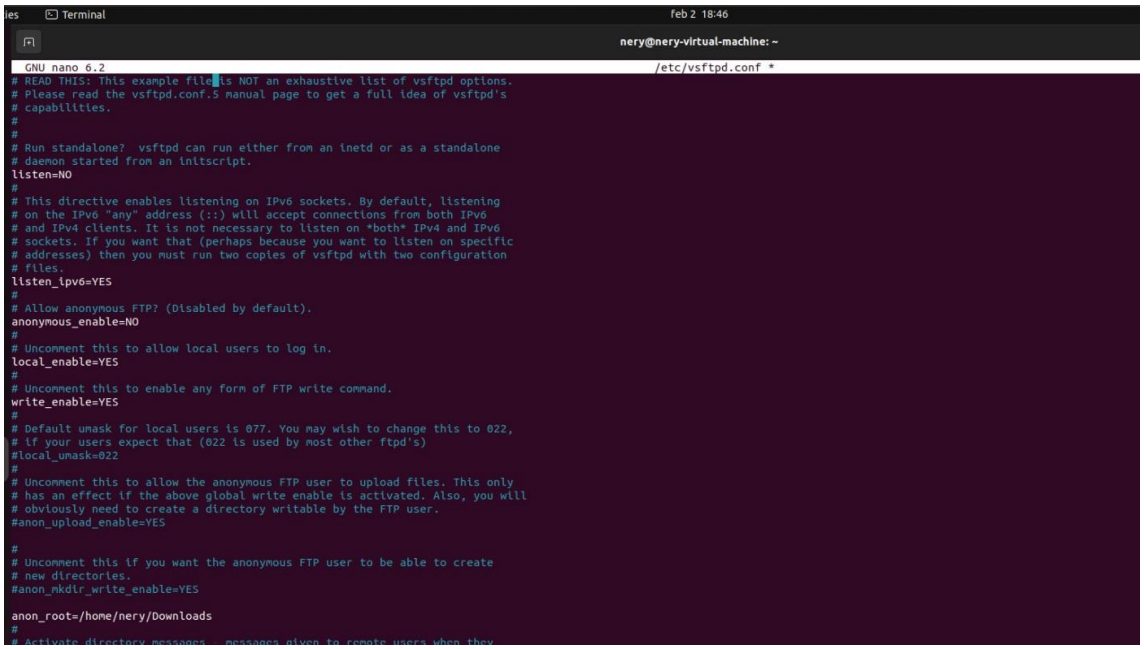
4. Permite el acceso al usuario anónimo, cambia la dirección que el usuario puede visualizar y descarga un archivo

No nos dejará conectarnos con el usuario anónimo por que aun no lo hemos habilitado.



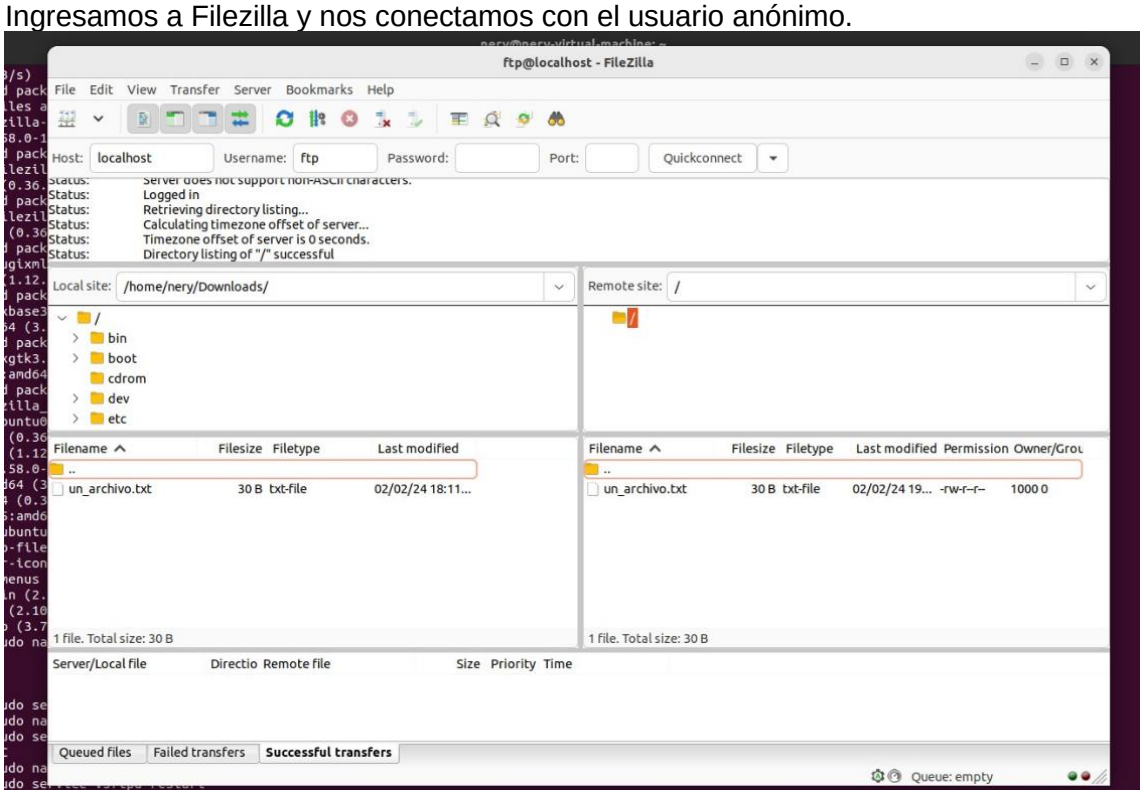
Vamos al archivo de configuración y lo habilitamos.

```
221 Goodbye.
nery@nery-virtual-machine:~$ sudo nano /etc/vsftpd.conf
```

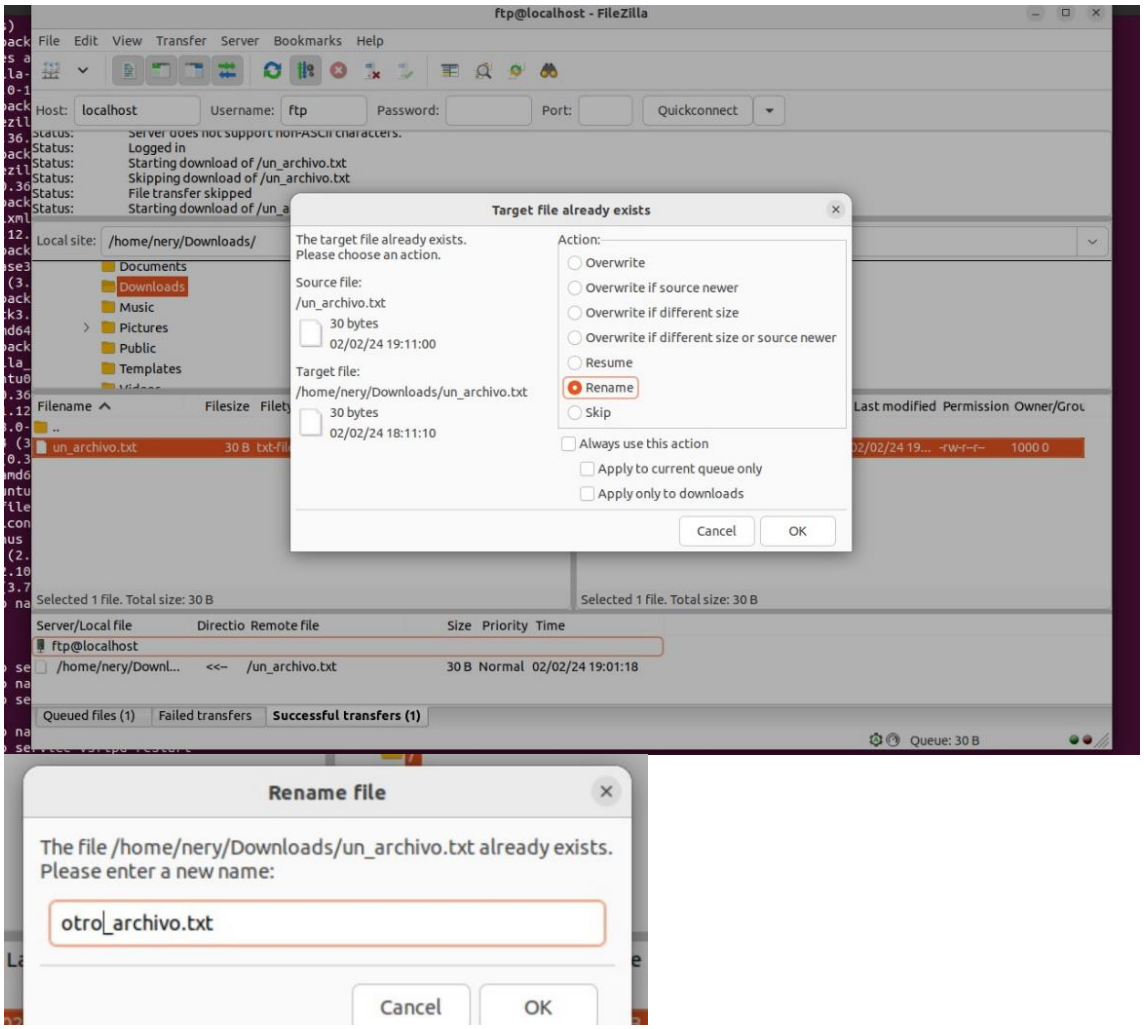



```
nery@nery-virtual-machine:~$ sudo service vsftpd restart
```

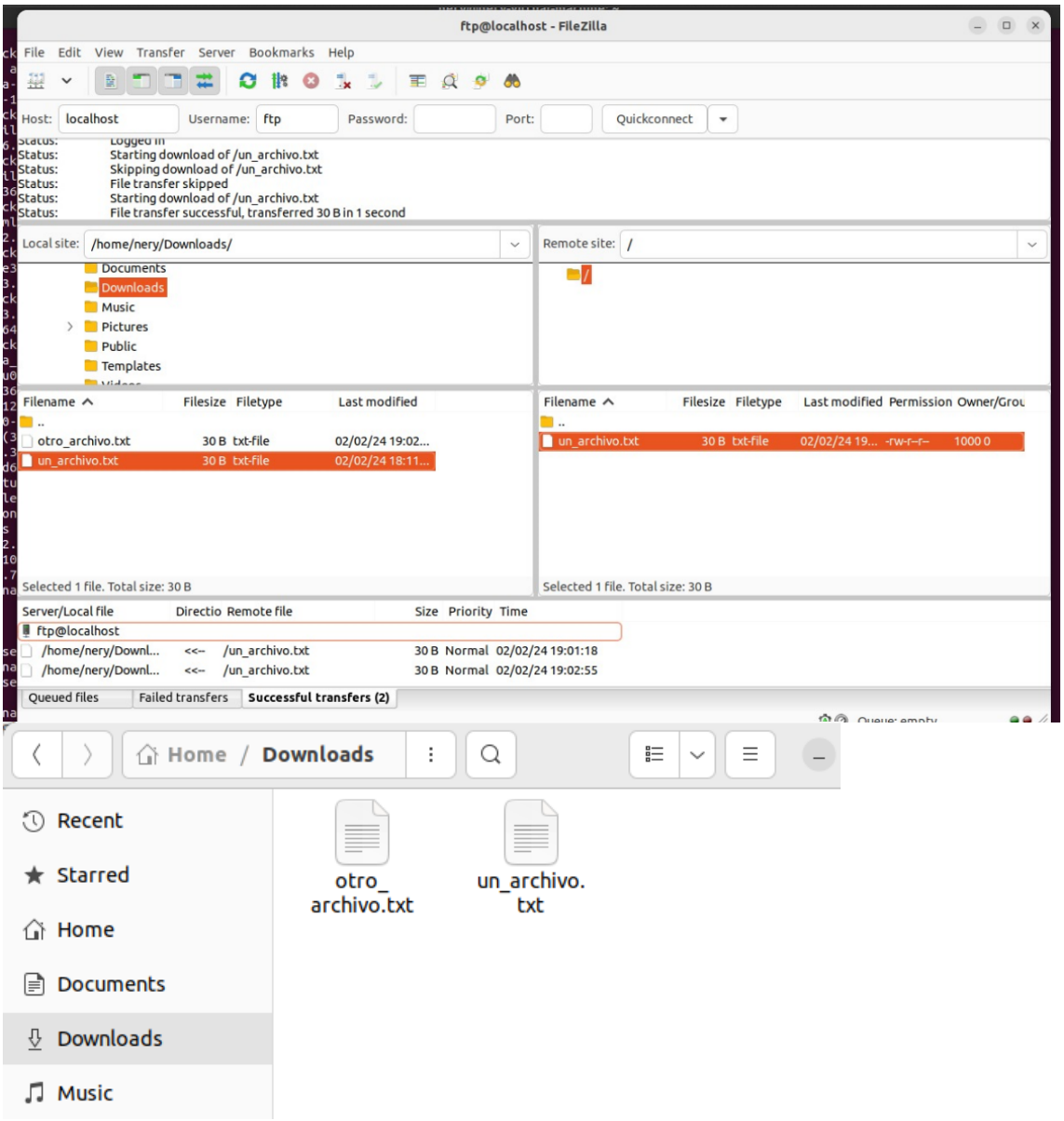
Ingresamos a Filezilla y nos conectamos con el usuario anónimo.



Para bajarnos el archivo pulsamos sobre él y en Download y le modificamos el nombre.



Verificamos que se ha bajado correctamente.



5. Modificar el tiempo de sesión

Accedemos al archivo de configuración y descomentamos la siguiente línea.

```
  GNU nano 6.2                                  /etc/vsftpd.conf *
# a different user. Note! Using "root" for uploaded files is not
# recommended!
#chown_uploads=YES
#chown_username=whoever
#
# You may override where the log file goes if you like. The default is shown
# below.
#xferlog_file=/var/log/vsftpd.log
#
# If you want, you can have your log file in standard ftpd xferlog format.
# Note that the default log file location is /var/log/xferlog in this case.
#xferlog_std_format=YES
#
# You may change the default value for timing out an idle session.
idle_session_timeout=30
#
# You may change the default value for timing out a data connection.
#data_connection_timeout=120
#
# It is recommended that you define on your system a unique user which the
# ftp server can use as a totally isolated and unprivileged user.
#nopriv_user=ftpsecure
#
# Enable this and the server will recognise asynchronous ABOR requests. Not
# recommended for security (the code is non-trivial). Not enabling it,
# however, may confuse older FTP clients.
#async_abor_enable=YES
```

```
nery@nery-virtual-machine:~$ sudo service vsftpd restart
```

Accedemos y vemos que habrá un rectángulo blanco parpadeando hasta que transcurra el tiempo de sesión.

```
nery@nery-virtual-machine:~$ ftp localhost
Connected to localhost.
220 (vsFTPd 3.0.5)
Name (localhost:nery): nery
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```

```
nery@nery-virtual-machine:~$ ftp localhost
Connected to localhost.
220 (vsFTPd 3.0.5)
Name (localhost:nery): nery
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
421 Timeout.
ftp>
```

6. Crear usuarios

Creamos 4 usuarios.

```
ftp> exit
nery@nery-virtual-machine:~$ sudo adduser uno
Adding user `uno' ...
Adding new group `uno' (1001) ...
Adding new user `uno' (1001) with group `uno' ...
Creating home directory `/home/uno' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for uno
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
nery@nery-virtual-machine:~$ sudo adduser dos
Adding user `dos' ...
Adding new group `dos' (1002) ...
Adding new user `dos' (1002) with group `dos' ...
Creating home directory `/home/dos' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for dos
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
Is the information correct? [Y/n] y
nery@nery-virtual-machine:~$ sudo adduser tres
Adding user `tres' ...
Adding new group `tres' (1003) ...
Adding new user `tres' (1003) with group `tres' ...
Creating home directory `/home/tres' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for tres
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
nery@nery-virtual-machine:~$ sudo adduser cuatro
Adding user `cuatro' ...
Adding new group `cuatro' (1004) ...
Adding new user `cuatro' (1004) with group `cuatro' ...
Creating home directory `/home/cuatro' ...
Copying files from `/etc/skel' ...
New password:
BAD PASSWORD: The password is shorter than 8 characters
Retype new password:
passwd: password updated successfully
Changing the user information for cuatro
Enter the new value, or press ENTER for the default
        Full Name []:
        Room Number []:
        Work Phone []:
        Home Phone []:
        Other []:
```

7. Limitar cantidad de usuarios acceden simultáneamente

Accedemos al archivo de configuración

```
221 Goodbye.
nery@nery-virtual-machine:~$ sudo nano /etc/vsftpd.conf
```

Añadimos max_clients=3 para limitar el acceso simultáneo de tres usuarios y hacemos una modificación el el aumento del tiempo de sesión a 120 segundos.

```
 GNU nano 6.2                        /etc/vsftpd.conf
#
# You may change the default value for timing out an idle session.
idle_session_timeout=120
#
# You may change the default value for timing out a data connection.
#data_connection_timeout=120
#
max_clients=3
# It is recommended that you define on your system a unique user which the
# ftp server can use as a totally isolated and unprivileged user.
#nopriv_user=ftpsecure
#
# Enable this and the server will recognise asynchronous ABOR requests. Not
# recommended for security (the code is non-trivial). Not enabling it,
# however, may confuse older FTP clients.
#async_abor_enable=YES
```

```
nery@nery-virtual-machine:~$ sudo service vsftpd restart
```

Nos conectamos con los usuarios simultáneamente y vemos que solo podemos conectarnos con 3 usuarios.

```
nery@nery-virtual-machine:~$ ftp localhost
Connected to localhost.
220 (vsFTPd 3.0.5)
Name (localhost:nery): uno
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```

```
nery@nery-virtual-machine:~$ ftp localhost
Connected to localhost.
220 (vsFTPd 3.0.5)
Name (localhost:nery): dos
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```

```
nery@nery-virtual-machine:~$ ftp localhost
Connected to localhost.
220 (vsFTPd 3.0.5)
Name (localhost:nery): tres
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
Connected to localhost.
421 There are too many connected users, please try later.
ftp>
```

8. Archivo login

Entramos al archivo de configuración y descomentamos xferlog_std_format=YES para conocer la actividad de los distintos usuarios.

```
221 Goodbye.
nery@nery-virtual-machine:~$ sudo nano /etc/vsftpd.conf
```

```
  GNU nano 6.2                                /etc/vsftpd.conf *
# If enabled, vsftpd will display directory listings with the time
# in  your  local  time  zone.  The default is to display GMT. The
# times returned by the MDTM FTP command are also affected by this
# option.
use_localtime=YES
#
# Activate logging of uploads/downloads.
xferlog_enable=YES
#
# Make sure PORT transfer connections originate from port 20 (ftp-data).
connect_from_port_20=YES
#
# If you want, you can arrange for uploaded anonymous files to be owned by
# a different user. Note! Using "root" for uploaded files is not
# recommended!
#chown_uploads=YES
#chown_username=whoever
#
# You may override where the log file goes if you like. The default is shown
# below.
#xferlog_file=/var/log/vsftpd.log
#
# If you want, you can have your log file in standard ftpd xferlog format.
# Note that the default log file location is /var/log/xferlog in this case.
xferlog_std_format=YES
#
# You may change the default value for timing out an idle session.
idle_session_timeout=120
#
```

```
nery@nery-virtual-machine:~$ sudo service vsftpd restart
```

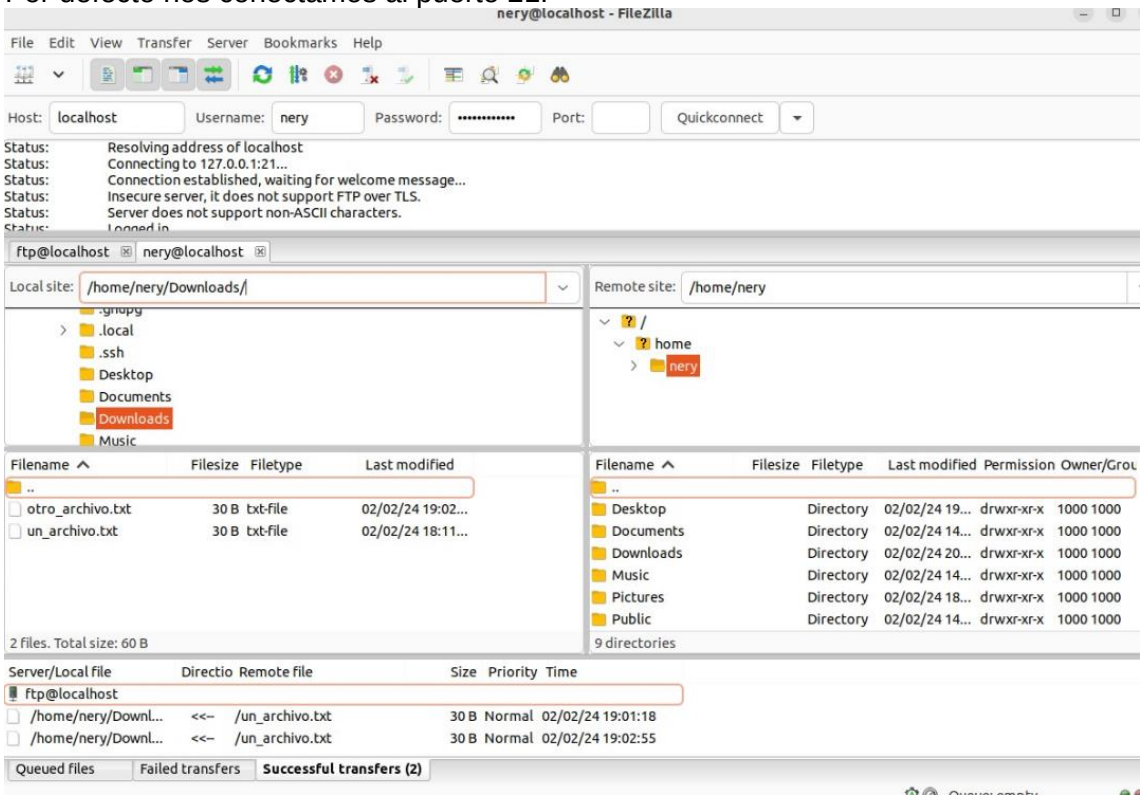
Accedemos al archivo de login.

```
nery@nery-virtual-machine:~$ sudo nano /var/log/vsftpd.log
```

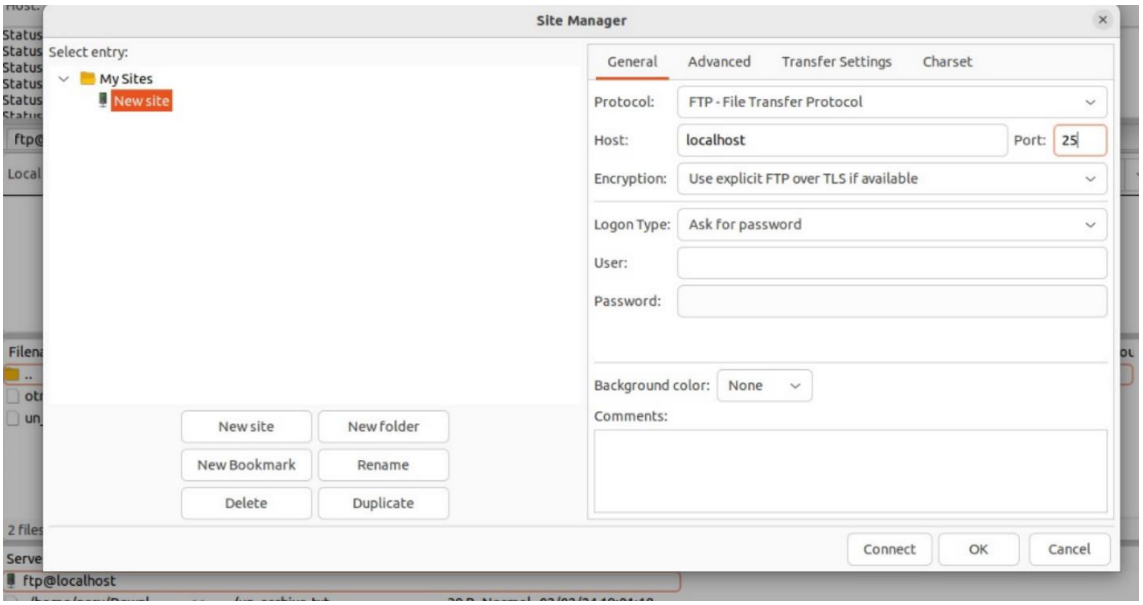
```
 GNU nano 6.2                                                                  /var/log/vsftpd.log
Fri Feb  2 18:16:36 2024 [pid 2780] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 18:16:48 2024 [pid 2779] [nery] OK LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 18:19:26 2024 [pid 2782] [nery] FAIL UPLOAD: Client "::ffff:127.0.0.1", "/srv/ftp/subido.txt", 0.00Kbyte/sec
Fri Feb  2 18:21:13 2024 [pid 2782] [nery] OK UPLOAD: Client "::ffff:127.0.0.1", "/srv/ftp/subidas/subido.txt", 30 bytes, 3.82Kbyte/sec
Fri Feb  2 18:35:36 2024 [pid 3244] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 18:35:39 2024 [pid 3243] [nery] OK LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 18:36:11 2024 [pid 3254] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 18:36:11 2024 [pid 3253] [nery] OK LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 18:36:11 2024 [pid 3255] [nery] OK UPLOAD: Client "::ffff:127.0.0.1", "/home/nery/Desktop/un_archivo.txt", 32 bytes, 16.77Kbyte/sec
Fri Feb  2 18:40:00 2024 [pid 3333] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 18:40:04 2024 [pid 3332] [ftp] FAIL LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 18:51:25 2024 [pid 3886] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 18:51:27 2024 [pid 3885] [ftp] FAIL LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 18:51:33 2024 [pid 3888] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 18:51:34 2024 [pid 3887] [ftp] FAIL LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 18:52:19 2024 [pid 3947] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 18:52:23 2024 [pid 3946] [ftp] FAIL LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 18:55:41 2024 [pid 4020] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 18:55:45 2024 [pid 4019] [ftp] FAIL LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 18:58:10 2024 [pid 4101] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 18:58:14 2024 [pid 4100] [ftp] OK LOGIN: Client "::ffff:127.0.0.1", anon password "?"
Fri Feb  2 19:00:17 2024 [pid 4109] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 19:00:17 2024 [pid 4108] [ftp] OK LOGIN: Client "::ffff:127.0.0.1", anon password "?"
Fri Feb  2 19:02:55 2024 [pid 4110] [ftp] OK DOWNLOAD: Client "::ffff:127.0.0.1", "/un_archivo.txt", 30 bytes, 2.18Kbyte/sec
Fri Feb  2 19:06:53 2024 [pid 4167] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 19:07:03 2024 [pid 4166] [ner] FAIL LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 19:07:43 2024 [pid 4171] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 19:07:57 2024 [pid 4170] [nery] FAIL LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 19:08:35 2024 [pid 4176] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 19:08:48 2024 [pid 4175] [nery] OK LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 19:11:54 2024 [pid 4185] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 19:12:07 2024 [pid 4184] [nery ] FAIL LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 19:12:39 2024 [pid 4189] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 19:12:50 2024 [pid 4188] [nery] OK LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 19:15:32 2024 [pid 4196] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 19:16:12 2024 [pid 4195] [nery] FAIL LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 19:16:41 2024 [pid 4208] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 19:16:59 2024 [pid 4207] [nery] OK LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 19:27:07 2024 [pid 4349] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 19:27:12 2024 [pid 4348] [uno] OK LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 19:27:38 2024 [pid 4354] CONNECT: Client "::ffff:127.0.0.1"
Fri Feb  2 19:27:44 2024 [pid 4353] [dos] OK LOGIN: Client "::ffff:127.0.0.1"
Fri Feb  2 19:28:10 2024 [pid 4371] CONNECT: Client "::ffff:127.0.0.1"
                                                                [ Read 54 lines ]
```

9. Acceder al servicio mediante Filezilla y el puerto de conexión 25

Por defecto nos conectamos al puerto 21.



Para cambiar el puerto al 25 hacemos le damos a Site Manager.



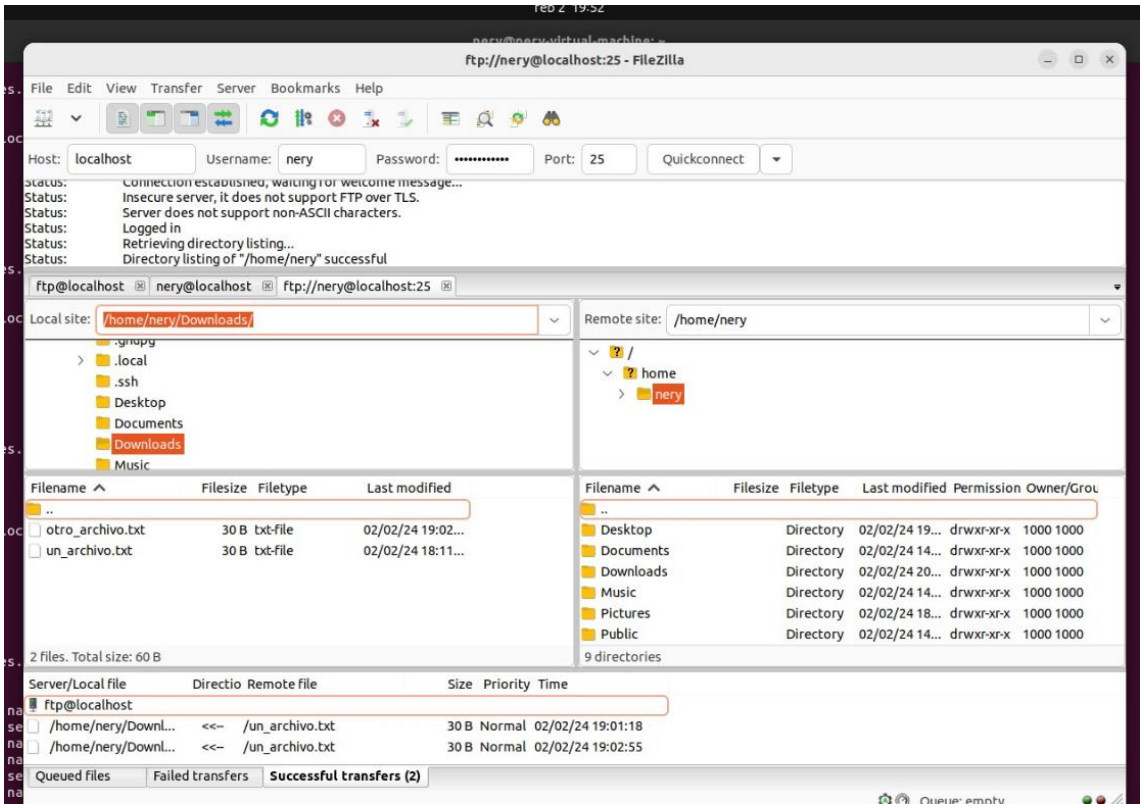
Si intentamos realizar conexión al puerto 25 no nos permitirá acceder por no estar indicado en el puerto en el archivo de configuración. Accedemos al archivo de configuración hacemos una modificación para añadir listen_port=25.

```
221 Goodbye.
nery@nery-virtual-machine:~$ sudo nano /etc/vsftpd.conf
```

nery@nery-virtual-machine: ~

```
  GNU nano 6.2                                                /etc/vsftpd.conf
#
# Uncomment this to enable any form of FTP write command.
write_enable=YES
#
# Default umask for local users is 077. You may wish to change this to 022,
# if your users expect that (022 is used by most other ftpd's)
#local_umask=022
#
# Uncomment this to allow the anonymous FTP user to upload files. This only
# has an effect if the above global write enable is activated. Also, you will
# obviously need to create a directory writable by the FTP user.
#anon_upload_enable=YES

#
# Uncomment this if you want the anonymous FTP user to be able to create
# new directories.
#anon_mkdir_write_enable=YES

anon_root=/home/nery/Downloads/
#
# Activate directory messages - messages given to remote users when they
# go into a certain directory.
dirmessage_enable=YES
#
# If enabled, vsftpd will display directory listings with the time
# in  your  local  time  zone.  The default is to display GMT. The
# times returned by the MDTM FTP command are also affected by this
# option.
use_localtime=YES
#
# Activate logging of uploads/downloads.
xferlog_enable=YES
#
# Make sure PORT transfer connections originate from port 20 (ftp-data).
connect_from_port_20=YES
listen_port=25
# If you want, you can arrange for uploaded anonymous files to be owned by
# a different user. Note! Using "root" for uploaded files is not
# recommended!
#chown_uploads=YES
```

```
nery@nery-virtual-machine:~$ sudo service vsftpd restart
```



10. Impide que los usuarios creados pueden acceder a un directorio de trabajo distinto de trabajo

Accedemos al archivo de configuración y añadimos estas líneas.

```
221 Goodbye.
nery@nery-virtual-machine:~$ sudo nano /etc/vsftpd.conf
  GNU nano 6.2                          /etc/vsftpd.conf *
listen=NO
#
# This directive enables listening on IPv6 sockets. By default, listening
# on the IPv6 "any" address (::) will accept connections from both IPv6
# and IPv4 clients. It is not necessary to listen on *both* IPv4 and IPv6
# sockets. If you want that (perhaps because you want to listen on specific
# addresses) then you must run two copies of vsftpd with two configuration
# files.
listen_ipv6=YES
#
# Allow anonymous FTP? (Disabled by default).
anonymous_enable=YES
#
# Uncomment this to allow local users to log in.
local_enable=YES
#
# Uncomment this to enable any form of FTP write command.
write_enable=YES
#
chroot_local_user=YES
allow_writeable_chroot=YES
# Default umask for local users is 077. You may wish to change this to 022,
# if your users expect that (022 is used by most other ftpd's)
#local_umask=022
#
# Uncomment this to allow the anonymous FTP user to upload files. This only
# has an effect if the above global write enable is activated. Also, you will
nery@nery-virtual-machine:~$ sudo service vsftpd restart
```

11. Impedir el acceso al servidor remoto a los usuarios anónimos

Iniciamos el ftp con el puerto 25 ya que lo modfificamos antes.

```
nery@nery-virtual-machine:~$ ftp localhost 25
Connected to localhost.
220 (vsFTPd 3.0.5)
Name (localhost:nery): ftp
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp>
```

Accedemos al archivo de configuración y deshabilitamos al usuario anónimo.

```
221 Goodbye.
nery@nery-virtual-machine:~$ sudo nano /etc/vsftpd.conf
  GNU nano 6.2                          /etc/vsftpd.conf *
# daemon started from an initscript.
listen=NO
#
# This directive enables listening on IPv6 sockets. By default, listening
# on the IPv6 "any" address (::) will accept connections from both IPv6
# and IPv4 clients. It is not necessary to listen on *both* IPv4 and IPv6
# sockets. If you want that (perhaps because you want to listen on specific
# addresses) then you must run two copies of vsftpd with two configuration
# files.
listen_ipv6=YES
#
# Allow anonymous FTP? (Disabled by default).
anonymous_enable=NO
#
# Uncomment this to allow local users to log in.
local_enable=YES
#
# Uncomment this to enable any form of FTP write command.
write_enable=YES
#
chroot_local_user=YES
allow_writeable_chroot=YES
# Default umask for local users is 077. You may wish to change this to 022,
# if your users expect that (022 is used by most other ftpd's)
#local_umask=022
#
# Uncomment this to allow the anonymous FTP user to upload files. This only
# has an effect if the above global write enable is activated. Also, you will
# obviously need to create a directory writable by the FTP user.
lara@lara-virtual-machine:/$ sudo service vsftpd restart
```

Y verificamos que no puede acceder el usuario anónimo al servicio ftp..

```
nery@nery-virtual-machine:~$ ftp localhost 25
Connected to localhost.
220 (vsFTPd 3.0.5)
Name (localhost:nery): ftp
331 Please specify the password.
Password:
530 Login incorrect.
ftp: Login failed
```

12. Limitar por terminal el tamaño de subida de los archivos y subir un archivo con un peso superior al límite establecido

No me salió

13. Limitar la velocidad máxima de transferencia de archivos a 30 KBytes/seg para usuarios local y 20 KBytes/seg para usuarios anónimos

Entramos al archivo de configuración y añadimos anon_max_rate=20000 y local_max_rate=30000.

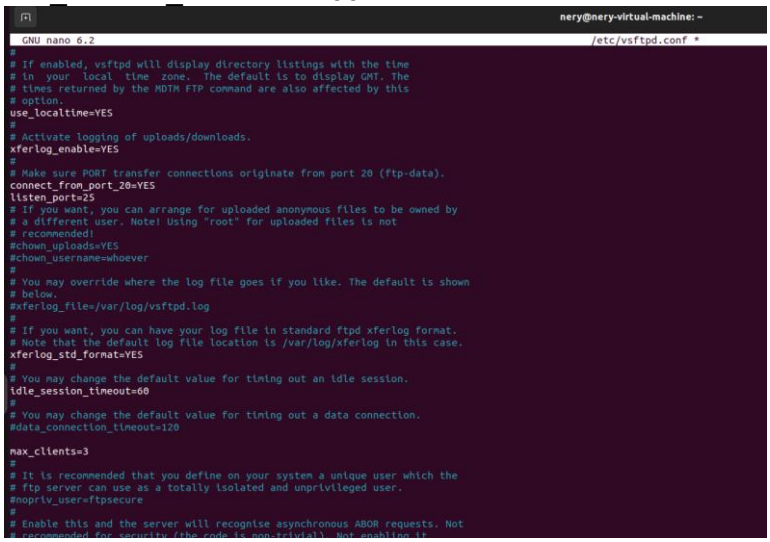
```
221 Goodbye.
nery@nery-virtual-machine:~$ sudo nano /etc/vsftpd.conf
```

```
  GNU nano 6.2                                  /etc/vsftpd.conf *
#xferlog_file=/var/log/vsftpd.log
#
# If you want, you can have your log file in standard ftpd xferlog format.
# Note that the default log file location is /var/log/xferlog in this case.
xferlog_std_format=YES
#
# You may change the default value for timing out an idle session.
idle_session_timeout=120
#
# You may change the default value for timing out a data connection.
#data_connection_timeout=120
#
max_clients=3

anon_max_rate=20000
local_max_rate=30000

data_connection_timeout=60
# It is recommended that you define on your system a unique user which the
# ftp server can use as a totally isolated and unprivileged user.
#nopriv_user=ftpsecure
```

```
nery@nery-virtual-machine:~$ sudo service vsftpd restart
```

14. Transfiere un archivo muy grande con un usuario y que la transferencia se cancele tras 1 minuto de inactividad

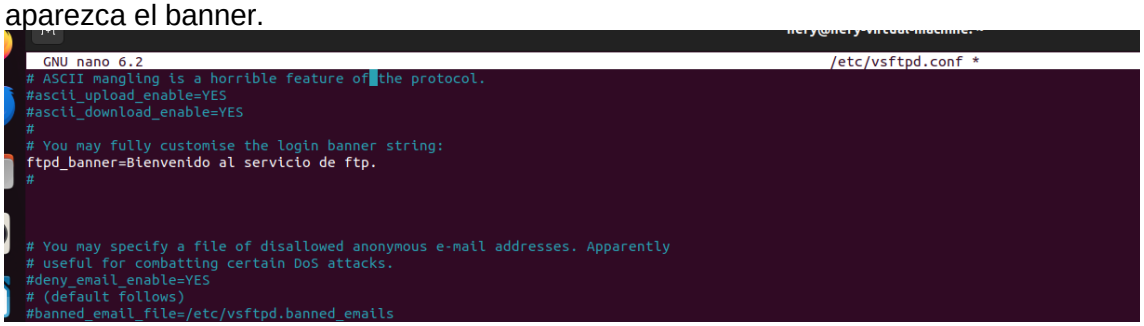
Para que se cancele la transferencia tras un minuto de inactividad modificaremos el idle_session_timeout a =60.

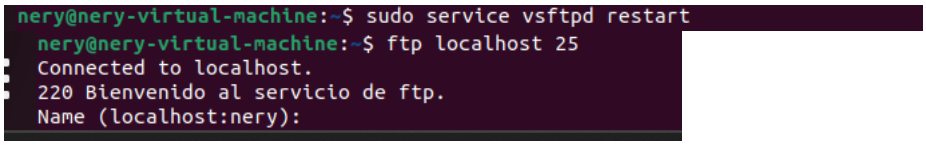



```
nery@nery-virtual-machine:~$ sudo service vsftpd restart
```

15. Mostrar un mensaje informativo (banner) cuando un cliente quiera iniciar conexión

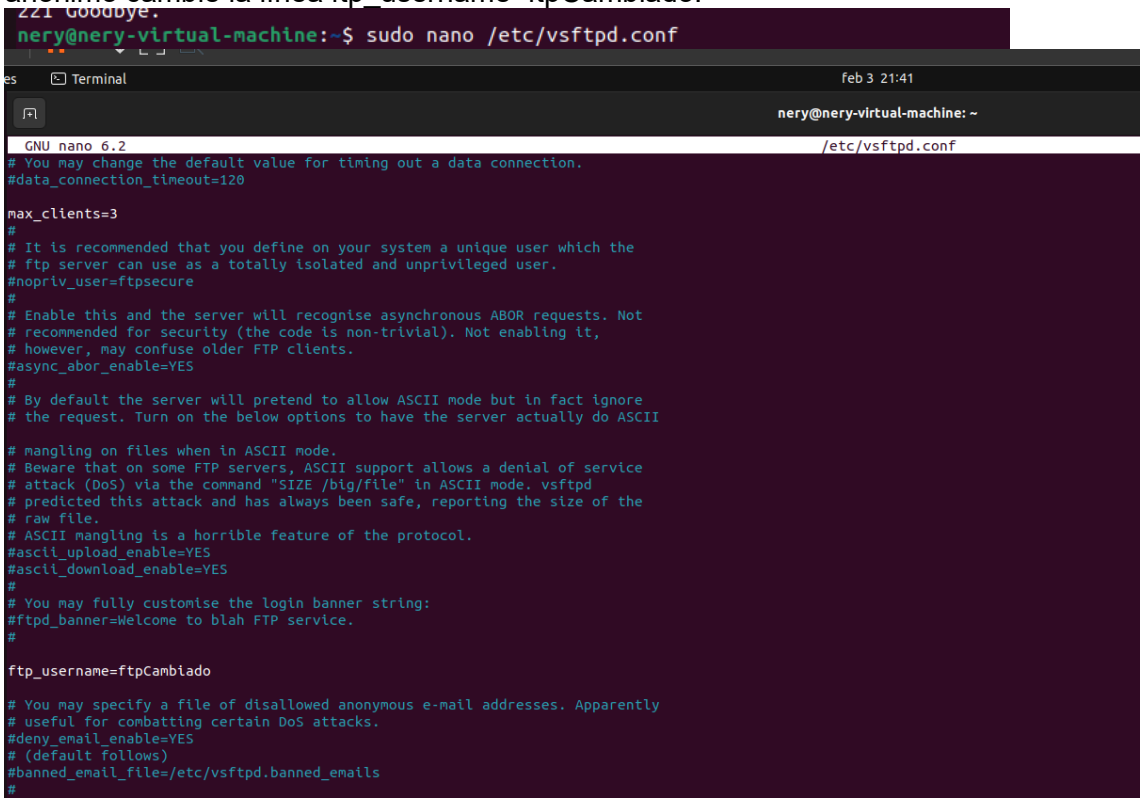
Entramos al archivo de configuración colocamos los siguientes comandos para que aparezca el banner.

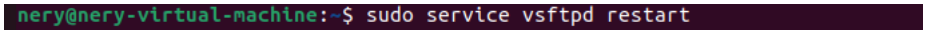




16. Cambiar el nombre del usuario anónimo de “ftp” a “ftpCambiado”.

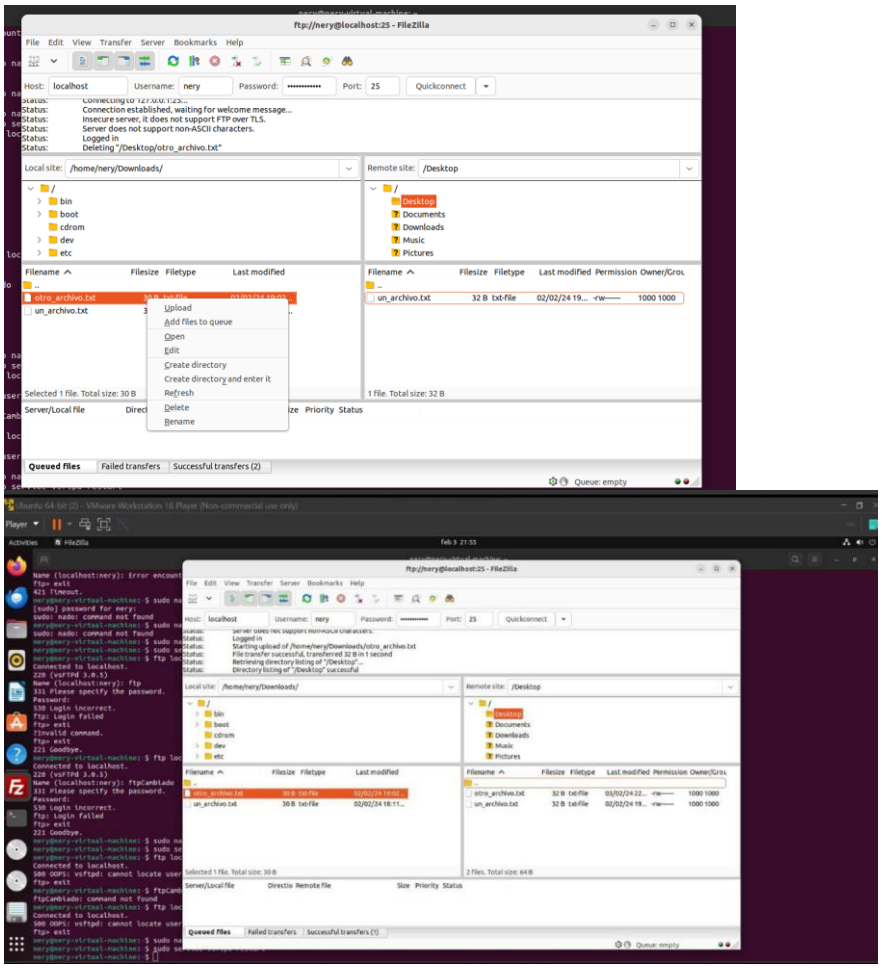
Acedemos al puerto de configuracio y tenemos que moficicar para que el usuario anónimo cambie la línea ftp_username=ftpCambiado.





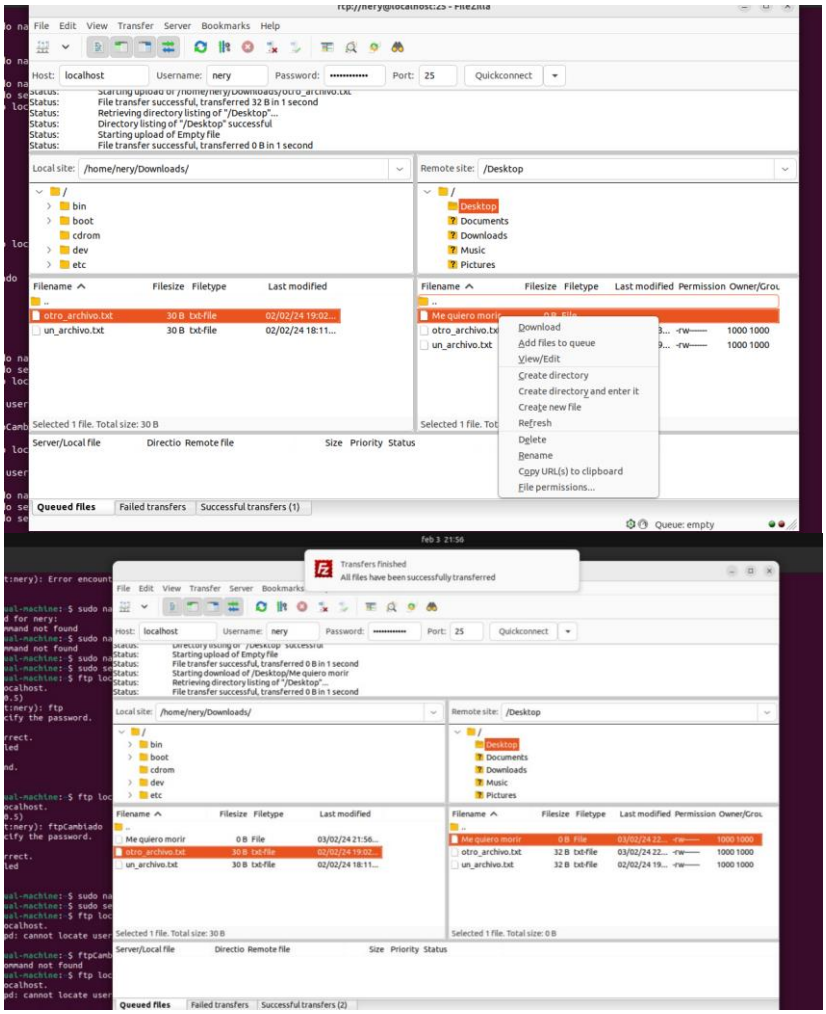
17. Sube un archivo al servidor remoto

Seleccionamos el archivo que queremos subir y le damos a Upload y verificamos si ha subido correctamente el archivo.



18. Recibe un archivo siendo tu ordenador el servidor remoto

Seleccionamos el archivo que queremos bajar y le damos a Download y verificamos si descargo correctamente.



19. El servidor FTP sólo escuche al cliente localhost, es decir, una dirección IP distinta a la localhost no podrá acceder al servidor

Ingresamos al archivo de configuración y escribimos listen_address=127.0.0.1.

```
221 Goodbye.
nery@nery-virtual-machine:~$ sudo nano /etc/vsftpd.conf
```

nery@nery-virtual-machine: ~

```
  GNU nano 6.2                                                    /etc/vsftpd.conf *
#
# This directive enables listening on IPv6 sockets. By default, listening
# on the IPv6 "any" address (::) will accept connections from both IPv6
# and IPv4 clients. It is not necessary to listen on *both* IPv4 and IPv6
# sockets. If you want that (perhaps because you want to listen on specific
# addresses) then you must run two copies of vsftpd with two configuration
# files.
listen_ipv6=127.0.0.1
#
# Allow anonymous FTP? (Disabled by default).
anonymous_enable=YES

#
# Uncomment this to allow local users to log in.
local_enable=YES
#
# Uncomment this to enable any form of FTP write command.
write_enable=YES
```

```
nery@nery-virtual-machine:~$ sudo service vsftpd restart
```