

```

diego@diego-VirtualBox:~$ sudo apt install vsftpd
[sudo] password for diego:
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 2 not upgraded.
Need to get 120 kB of archives.
After this operation, 312 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/main amd64 vsftpd amd64 3.0.5-0ubuntu3 [120 kB]
Fetched 120 kB in 1s (86,0 kB/s)
Preconfiguring packages ...
Selecting previously unselected package vsftpd.
(Reading database ... 494407 files and directories currently installed.)
Preparing to unpack .../vsftpd_3.0.5-0ubuntu3_amd64.deb ...
Unpacking vsftpd (3.0.5-0ubuntu3) ...
Setting up vsftpd (3.0.5-0ubuntu3) ...
Processing triggers for man-db (2.12.0-4build2) ...

```

```

diego@diego-VirtualBox:~$ sudo nano /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 specif>
# 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
#

```

```

#
# 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
#
# Default umask for local users is 077. You may wish to change this to 02>
# 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 on>

```

```
# ASCII mangling is a horrible feature of the protocol.
#ascii_upload_enable=YES
#ascii_download_enable=YES
#
# You may fully customise the login banner string:
ftpd banner=BIENVENIDO AL SITIO 03 del servidor vsftpd.
#
# You may specify a file of disallowed anonymous e-mail addresses. Apparently
# useful for combatting certain DoS attacks.
#deny_email_enable=YES
```

```
# You may specify an explicit list of local users to chroot() to their home
# directory. If chroot_local_user is YES, then this list becomes a list of
# users to NOT chroot().
# (Warning! chroot'ing can be very dangerous. If using chroot, make sure
# the user does not have write access to the top level directory within the
# chroot)
chroot_local_user=YES
chroot_list_enable=YES
# (default follows)
chroot_list_file=/etc/vsftpd.chroot_list
#
```

```
diego@diego-VirtualBox:~$ sudo nano /etc/vsftpd.chroot_list
```

```
diego@diego-VirtualBox:~$ sudo useradd -m esperanza
```



```
GNU nano 7.2 /etc/vsftpd.chroot_list
esperanza
```

```
#
# Uncomment this to allow the anonymous FTP user to upload files. This option
# has an effect if the above global write enable is activated. Also, you
# obviously need to create a directory writable by the FTP user.
anon_upload_enable=YES
#
```

```
# Uncomment this to allow the anonymous FTP user to upload files. This on>
# has an effect if the above global write enable is activated. Also, you >
# obviously need to create a directory writable by the FTP user.
```

```
anon_upload_enable=NO
```

```
#
```

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

```
#anon_mkdir_write_enable=YES
```

```
"
```

```
# This string is the name of the PAM service vsftpd will use.
```

```
pam_service_name=vsftpd
```

```
#
```

```
# This option specifies the location of the RSA certificate to use for SSL
# encrypted connections.
```

```
rsa_cert_file=/etc/ssl/certs/ssl-cert-snakeoil.pem
```

```
rsa_private_key_file=/etc/ssl/private/ssl-cert-snakeoil.key
```

```
ssl_enable=NO
```

```
anon_max_rate=524288
```

```
local_max_rate=1048576
```

```
max_per_ip=2
```

```
#
```

```
# Uncomment this to indicate that vsftpd use a utf8 filesystem.
```

```
#utf8_filesystem=YES
```

```
#chown_username=whoever
```

```
#
```

```
# You may override where the log file goes if you like. The default is sh>
# 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 cas>
```

```
#xferlog_std_format=YES
```

```
# 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
```

```
diego@diego-VirtualBox:~$ ftp 10.0.2.15
```

```
Connected to 10.0.2.15.
```

```
220 BIENVENIDO AL SITIO 03 del servidor vsftpd.
```

```
Name (10.0.2.15:diego): anonymous
```

```
331 Please specify the password.
```

```
Password:
```

```
230 Login successful.
```

```
Remote system type is UNIX.
```

```
Using binary mode to transfer files.
```

```
ftp> █
```

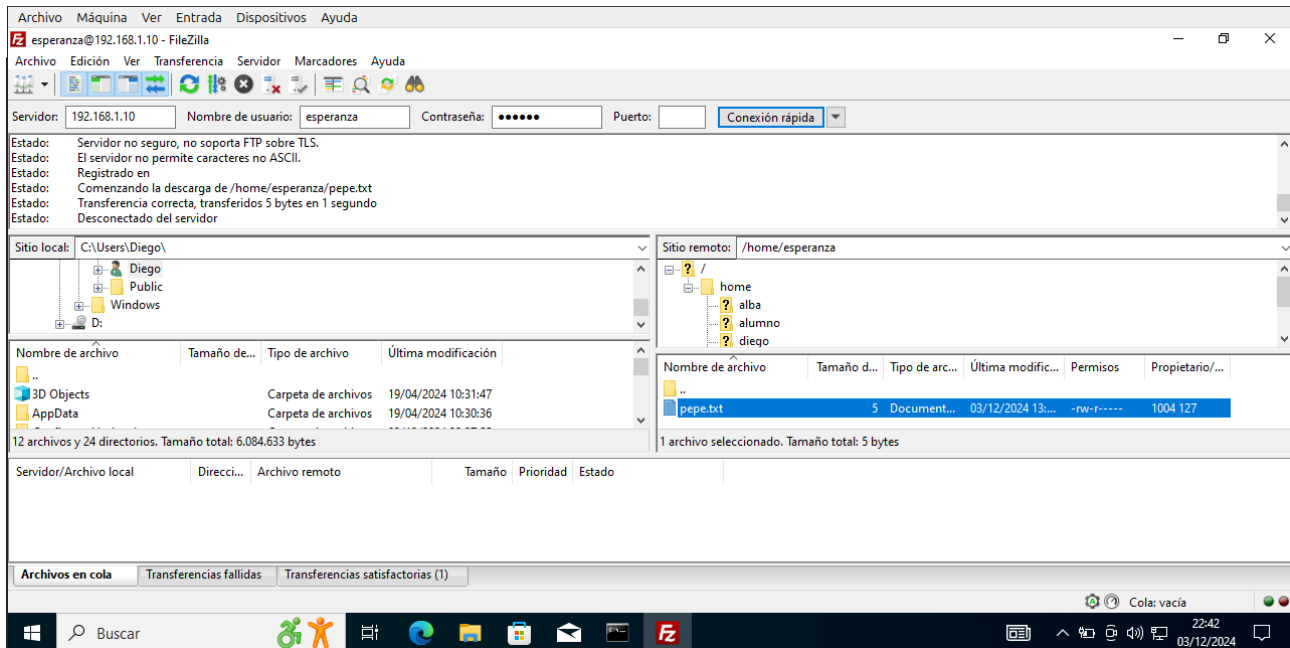
```
ftp> put pepe.txt
local: pepe.txt remote: pepe.txt
229 Entering Extended Passive Mode (|||48456|)
550 Permission denied.
ftp>
```

```
ftp> !ls
Desktop Documents Downloads ls Music pepe.txt Pictures Public Templates Videos
ftp> get pepe.txt
local: pepe.txt remote: pepe.txt
200 EPRT command successful. Consider using EPSV.
550 Failed to open file.
ftp>
```

```
diego@diego-VirtualBox:~$ ftp 10.0.2.15
Connected to 10.0.2.15.
220 BIENVENIDO AL SITIO 03 del servidor vsftpd.
Name (10.0.2.15:diego): esperanza
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||12763|)
150 Here comes the directory listing.
226 Directory send OK.
ftp> pwd
Remote directory: /home/esperanza
ftp> !pwd
/home/diego
ftp>
```

```
Símbolo del sistema - ftp 192.168.1.10
Conexión cerrada por el host remoto.

C:\Users\Diego>ftp 192.168.1.10
Conectado a 192.168.1.10.
220 BIENVENIDO AL SITIO 03 del servidor vsftpd.
200 Always in UTF8 mode.
Usuario (192.168.1.10:(none)): esperanza
331 Please specify the password.
Contraseña:
230 Login successful.
ftp> get pepe.txt
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for pepe.txt (5 bytes).
226 Transfer complete.
ftp: 5 bytes recibidos en 0.00segundos 5000.00a KB/s.
ftp>
```



En esta actividad he configurado un servidor FTP con vsftpd en Linux, concretamente en mi caso en Linux Mint 22, ajustando los permisos, los límites de las conexiones, ancho de banda para los usuarios anónimos y los locales (como esperanza). Probé el acceso con el usuario esperanza y verifiqué que los permisos de subida y descarga funcionaban bien, pero he tenido un problema, con el archivo, en mi caso pepe.txt, como en la actividad se pide que se descargue dicho archivo por FTP desde una máquina con Windows usando el usuario de esperanza, he tenido que trasladar el archivo a la carpeta home de dicho usuario ya que desde esperanza no se puede acceder al home de otro usuario; una vez hecho este pequeño cambio ya queda comprobado que todo funciona correctamente. También notar que para que dejase hacer la conexión he tenido que desactivar en el archivo de configuración el protocolo ipv6 para forzar que sea por ipv4, además de establecer una IP estática.