

SERVICIOS EN RED

2ºSMR A

CURSO 2019/2020

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Instala el servidor vsftpd en la Raspberry Pi con que tenga las siguientes características:

```
pi@raspberrypi:~$ sudo apt install vsftpd
Leyendo lista de paquetes... Hecho
Creando árbol de dependencias
Leyendo la información de estado... Hecho
Se instalarán los siguientes paquetes adicionales:
  ssl-cert
Paquetes sugeridos:
  openssl-blacklist
Se instalarán los siguientes paquetes NUEVOS:
  ssl-cert vsftpd
0 actualizados, 2 nuevos se instalarán, 0 para eliminar y 67 no actualizados.
Se necesita descargar 158 kB de archivos.
Se utilizarán 371 kB de espacio de disco adicional después de esta operación.
¿Desea continuar? [S/n] s
Des:1 http://ftp.cica.es/mirrors/Linux/raspbian/raspbian buster/main armhf ssl-cert all 1.0.39 [20,8 kB]
Des:2 http://ftp.cica.es/mirrors/Linux/raspbian/raspbian buster/main armhf vsftpd armhf 3.0.3-12 [137 kB]
Descargados 158 kB en 1s (238 kB/s)
Preconfigurando paquetes ...
Seleccionando el paquete ssl-cert previamente no seleccionado.
(Leyendo la base de datos ... 156760 ficheros o directorios instalados actualmente.)
Preparando para desempaquetar .../ssl-cert_1.0.39_all.deb ...
Desempaquetando ssl-cert (1.0.39) ...
Seleccionando el paquete vsftpd previamente no seleccionado.
Preparando para desempaquetar .../vsftpd_3.0.3-12_armhf.deb ...
Desempaquetando vsftpd (3.0.3-12) ...
Configurando ssl-cert (1.0.39) ...
Configurando vsftpd (3.0.3-12) ...
Created symlink /etc/systemd/system/multi-user.target.wants/vsftpd.service → /lib/systemd/system/vsftpd.service.
[vsftpd.conf:1] Line references path below legacy directory /var/run/, updating /var/run/vsftpd/empty → /run/vsftpd/empty; please update the tmpfiles.d/ drop-in file accordingly.
Procesando disparadores para man-db (2.8.5-2) ...
Procesando disparadores para systemd (241-7-deb10u1+rp1i) ...
```

1. Que sea un servidor FTP anónimo para descargas:

```
# Example config file /etc/vsftpd.conf
#
# The default compiled in settings are fairly paranoid. This sample file
# loosens things up a bit, to make the ftp daemon more usable.
# Please see vsftpd.conf.5 for all compiled in defaults.
#
# READ THIS: This example file is NOT an exhaustive list of vsftpd options.
# Please read the vsftpd.conf.5 manual page to get a full idea of vsftpd's
# capabilities.
#
# Run standalone? vsftpd can run either from an inetd or as a standalone
# daemon started from an initscript.
listen=YES
#
# 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
#
# 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
#
# Activate directory messages - messages given to remote users when they
# go into a certain directory.
```

⌘ Ver ayuda

⌘ Guardar

⌘ Buscar

⌘ Cortar txt

⌘ Justificar

⌘ Posición

⌘ Deshacer

⌘ Marcar txt

⌘ Salir

⌘ Leer fich.

⌘ Reemplazar

⌘ Pegar txt

⌘ Ortografía

⌘ Ir a línea

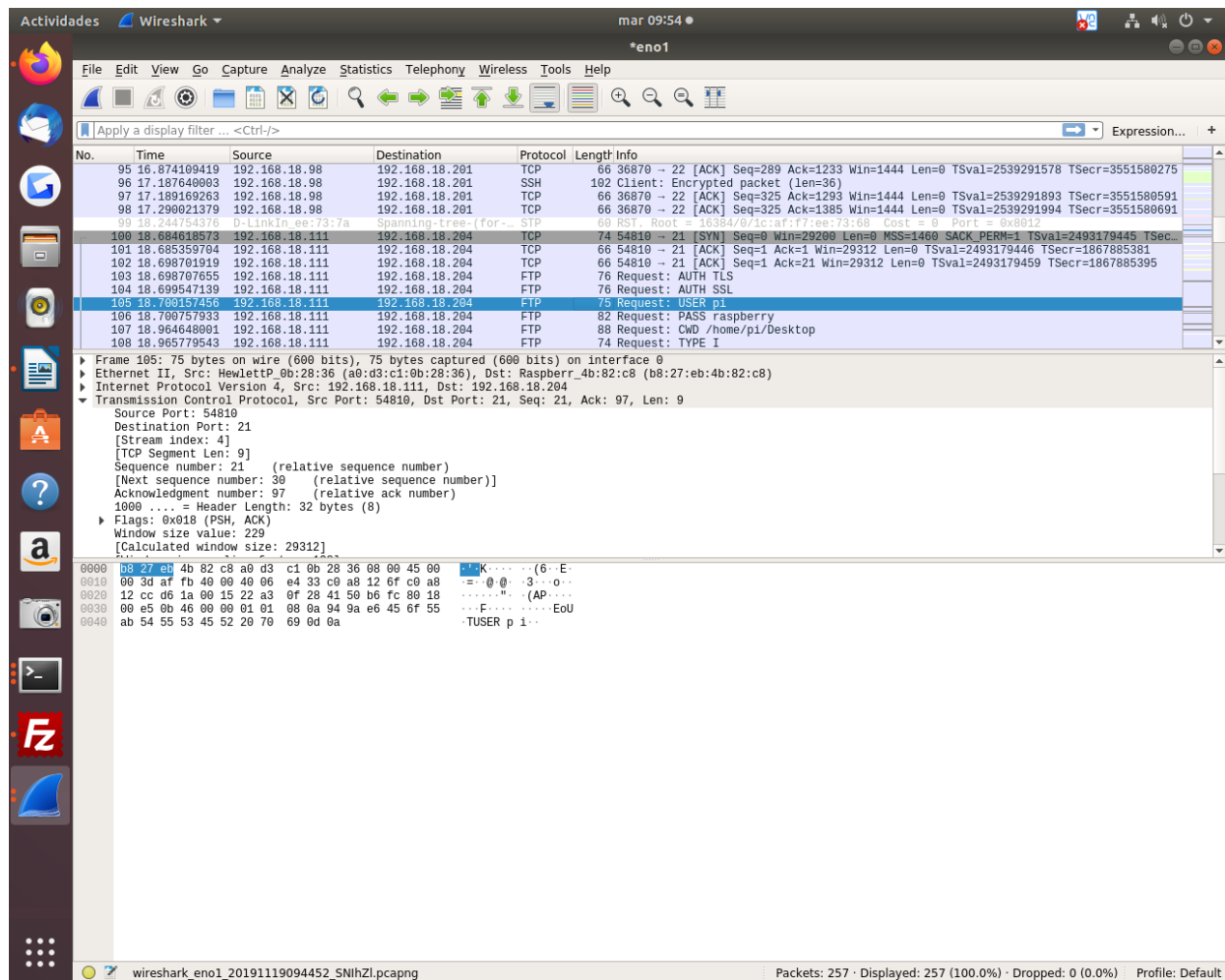
⌘ Rehacer

⌘ Copiar txt

2. Que sea un servidor FTP para usuarios de sistema y que puedan tanto descargar como subir archivos.

```
# Uncomment this to allow local users to log in.  
local_enable=YES
```

3. Funcione en modo pasivo.



4. Habilita los logs.

```
# Activate logging of uploads/downloads.  
xferlog_enable=YES
```

5. Cambia el mensaje de bienvenida.

```
manana@Aula1:~$ ftp 192.168.18.205
Connected to 192.168.18.205.
220 (vsFTPD 3.0.3)
Name (192.168.18.205:manana): anonymous
331 Please specify the password.
Password:
230-
230- \_ _ _ _ _ \_ _ _ _ _ i _ _ _ _ _ i _ _ _ _ _ i _ _ _ _ _ i _ _ _ _ _ i _ _ _ _ _
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230- \_ _ _ _ _ \_ _ _ _ _ \_ _ _ _ _ \_ _ _ _ _ \_ _ _ _ _ \_ _ _ _ _ \_ _ _ _ _ \_ _ _ _ _
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> █
```

3 .Comprueba que puedes acceder mediantessha esos usuarios.

```
manana@Aula1:~$ ssh usuario1@192.168.18.205 -p 2000
usuario1@192.168.18.205's password:
Linux raspberrypi 4.19.75-v7+ #1270 SMP Tue Sep 24 18:45:11 BST 2019 armv7l

The programs included with the Debian GNU/Linux system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.

SSH is enabled and the default password for the 'pi' user has not been changed.
This is a security risk - please login as the 'pi' user and type 'passwd' to set
a new password.
```

4.Cambia el puerto del servidor e intenta a acceder de nuevo

```
manana@Aula1:~$ ssh pi@192.168.18.205 -p 2000
ssh: connect to host 192.168.18.205 port 2000: Connection refused
```

5.Cambia la configuración del servidor para que puedas acceder al sistema con usuario1 y NO con usuario2

```
pi@raspberrypi:~ $ sudo passwd -l usuario2
passwd: información de caducidad de la contraseña cambiada.
```

```
GNU nano 3.2 /etc/ssh/sshd_config

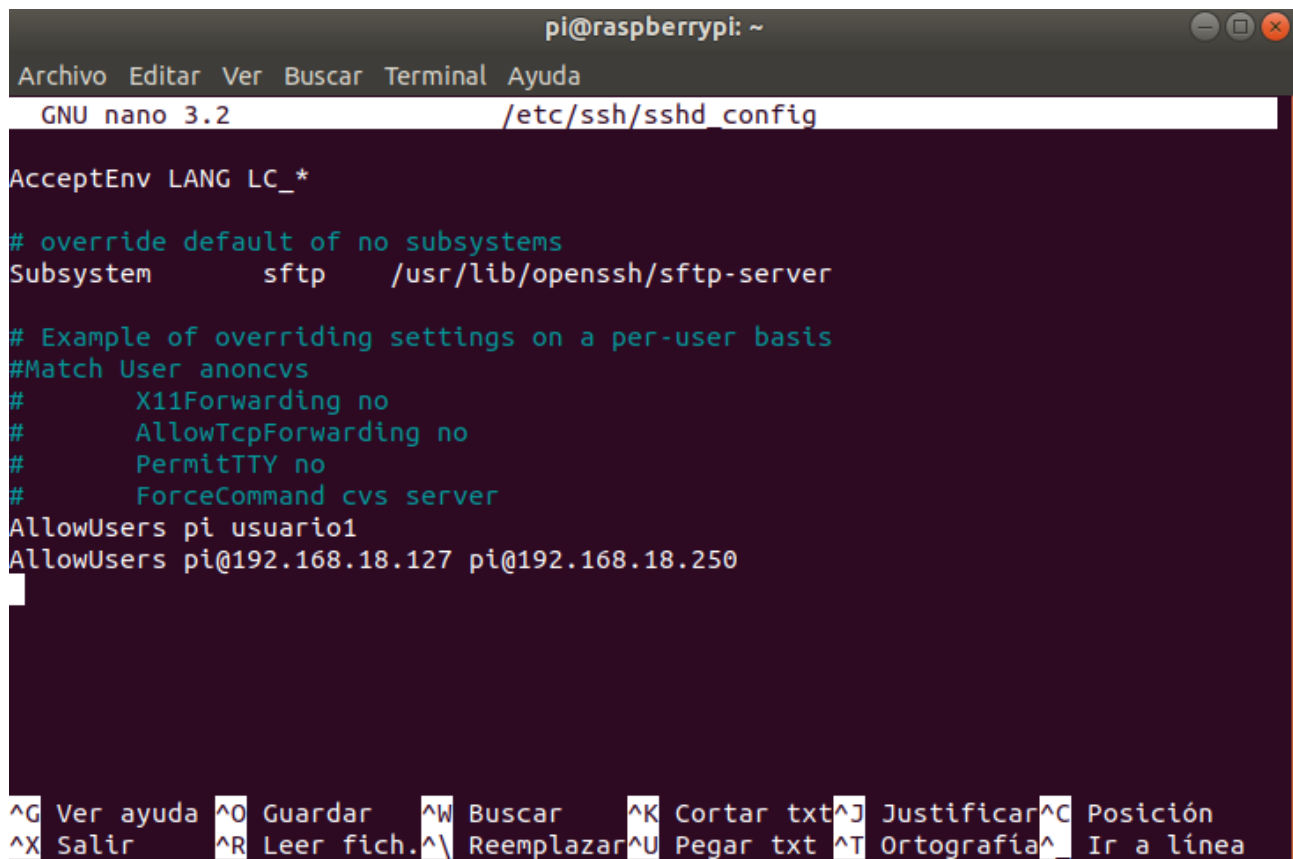
# no default banner path
#Banner none

# Allow client to pass locale environment variables
AcceptEnv LANG LC_*

# override default of no subsystems
Subsystem sftp /usr/lib/openssh/sftp-server

# Example of overriding settings on a per-user basis
#Match User anoncvs
#    X11Forwarding no
#    AllowTcpForwarding no
#    PermitTTY no
#    ForceCommand cvs server
AllowUsers pi usuario1
```

6. Cambia la configuración del servidor para que solo pueda acceder desde una IP determinada.



```
pi@raspberrypi: ~
Archivo Editar Ver Buscar Terminal Ayuda
GNU nano 3.2 /etc/ssh/sshd_config

AcceptEnv LANG LC_*

# override default of no subsystems
Subsystem        sftp    /usr/lib/openssh/sftp-server

# Example of overriding settings on a per-user basis
#Match User anoncvs
#      X11Forwarding no
#      AllowTcpForwarding no
#      PermitTTY no
#      ForceCommand cvs server
AllowUsers pi usuario1
AllowUsers pi@192.168.18.127 pi@192.168.18.250

^G Ver ayuda ^O Guardar ^W Buscar ^K Cortar txt ^J Justificar ^C Posición
^X Salir ^R Leer fich. ^\ Reemplazar ^U Pegar txt ^T Ortografía ^_ Ir a línea
```