

EJERCICIOS PRACTICOS 3

SERVIDORES

1. Instalar un servidor FTP con vsftpd.

```
root@q3: ~  
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by  
applicable law.  
  
root@q3:~# apt-get install vsftpd  
Reading package lists... Done  
Building dependency tree  
Reading state information... Done  
The following additional packages will be installed:  
  ssl-cert  
Suggested packages:  
  openssl-blacklist  
The following NEW packages will be installed:  
  ssl-cert vsftpd  
0 upgraded, 2 newly installed, 0 to remove and 0 not upgraded.  
Need to get 132 kB of archives.  
After this operation, 402 kB of additional disk space will be used.  
Do you want to continue? [Y/n] y  
Get:1 http://mirrors.digitalocean.com/ubuntu focal/main amd64 ssl-cert all 1.0.3  
9 [17.0 kB]  
Get:2 http://mirrors.digitalocean.com/ubuntu focal/main amd64 vsftpd amd64 3.0.3  
-12 [115 kB]  
Fetched 132 kB in 0s (545 kB/s)  
Preconfiguring packages ...
```

```
root@g3: ~  
Preconfiguring packages ...  
Selecting previously unselected package ssl-cert.  
(Reading database ... 63156 files and directories currently installed.)  
Preparing to unpack .../ssl-cert_1.0.39_all.deb ...  
Unpacking ssl-cert (1.0.39) ...  
Selecting previously unselected package vsftpd.  
Preparing to unpack .../vsftpd_3.0.3-12_amd64.deb ...  
Unpacking vsftpd (3.0.3-12) ...  
Setting up ssl-cert (1.0.39) ...  
Setting up 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.  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for systemd (245.4-4ubuntu3.2) ...  
root@g3:~# ufw allow 21  
Rules updated  
Rules updated (v6)  
root@g3:~# ufw allow 20  
Rules updated  
Rules updated (v6)  
root@g3:~#
```

Se hicieron las respectivas configuraciones para el servicio.

```

GNU nano 4.8 /etc/vsftpd.conf Modified
# You may fully customize the login banner string:
#ftpd_banner=WELCOME to blah FTP service.
#
# You may specify a file of disallowed anonymous e-mail addresses. Apparently
# useful for combatting certain DoS attacks.
#deny_email_enable=YES
# (default follows)
#banned_email_file=/etc/vsftpd.banned_emails
#
# You may restrict local users to their home directories. See the FAQ for
# the possible risks in this before using chroot_local_user or
# chroot_list_enable below.
chroot_local_user=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 th
# the user does not have write access to the top level directory within the
# chroot)

^G Get Help ^O Write Out ^W Where Is ^X Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^N Replace ^U Paste Text ^T To Spell ^_ Go To L

```

```

GNU nano 4.8 /etc/vsftpd.conf Modified
# 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 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.
#anonymous_upload_enable=YES
[ Search Wrapped ]
^G Get Help ^O Write Out ^W Where Is ^K Cut Text ^J Justify ^C Cur Pos
^X Exit ^R Read File ^\ Replace ^U Paste Text ^T To Spell ^_ Go To Line

```



2. Cree un usuario "Programador" y asígnele dos carpetas de trabajo una carpeta "web" y la otra "db"

```
root@g3: ~  
Preconfiguring packages ...  
Selecting previously unselected package ssl-cert.  
(Reading database ... 63156 files and directories currently installed.)  
Preparing to unpack .../ssl-cert_1.0.39_all.deb ...  
Unpacking ssl-cert (1.0.39) ...  
Selecting previously unselected package vsftpd.  
Preparing to unpack .../vsftpd_3.0.3-12_amd64.deb ...  
Unpacking vsftpd (3.0.3-12) ...  
Setting up ssl-cert (1.0.39) ...  
Setting up 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/, up  
var/run/vsftpd/empty -> /run/vsftpd/empty; please update the tmpfiles.d/  
file accordingly.  
Processing triggers for man-db (2.9.1-1) ...  
Processing triggers for systemd (245.4-4ubuntu3.2) ...  
root@g3:~# ufw allow 21  
Rules updated  
Rules updated (v6)  
root@g3:~# ufw allow 20  
Rules updated  
Rules updated (v6)  
root@g3:~# adduser Programador
```

```
root@g3: ~  
Rules updated  
Rules updated (v6)  
root@g3:~# adduser Programador  
adduser: Please enter a username matching the regular expression configured  
via the NAME_REGEX[_SYSTEM] configuration variable. Use the '--force-badname'  
option to relax this check or reconfigure NAME_REGEX.  
root@g3:~# adduser programador  
Adding user 'programador' ...  
Adding new group 'programador' (1000) ...  
Adding new user 'programador' (1000) with group 'programador' ...  
Creating home directory '/home/programador' ...  
Copying files from '/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for programador  
Enter the new value, or press ENTER for the default  
Full Name []: Grupo 3  
Room Number []: CUNOR  
Work Phone []:  
Home Phone []:  
Other []:  
Is the information correct? [Y/n]  
root@g3:~#
```

Carpetas creadas por el usuario programador.

```
root@g3: /home/programador  
Adding new user 'programador' (1000) with group 'programador' ...  
Creating home directory '/home/programador' ...  
Copying files from '/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for programador  
Enter the new value, or press ENTER for the default  
Full Name []: Grupo 3  
Room Number []: CUNOR  
Work Phone []:  
Home Phone []:  
Other []:  
Is the information correct? [Y/n]  
root@g3:~# cd /home  
root@g3:/home# ls  
programador  
root@g3:/home# cd programador  
root@g3:/home/programador# ls  
root@g3:/home/programador# mkdir web  
root@g3:/home/programador# mkdir db  
root@g3:/home/programador# ls  
db web  
root@g3:/home/programador#
```



Se le asigna un grupo al usuario.

```
root@g3: /home/programador

Other []:
Is the information correct? [Y/n]
root@g3:~# cd /home
root@g3:/home# ls
programador
root@g3:/home# cd programador
root@g3:/home/programador# ls
root@g3:/home/programador# mkdir web
root@g3:/home/programador# mkdir db
root@g3:/home/programador# ls
db web
root@g3:/home/programador# ls -l
total 8
drwxr-xr-x 2 root root 4096 Oct 14 02:01 db
drwxr-xr-x 2 root root 4096 Oct 14 02:01 web
root@g3:/home/programador# chown programador:programador web,db
chown: cannot access 'web,db': No such file or directory
root@g3:/home/programador# chown programador:programador web
root@g3:/home/programador# chown programador:programador db
root@g3:/home/programador# ls -l
total 8
drwxr-xr-x 2 programador programador 4096 Oct 14 02:01 db
drwxr-xr-x 2 programador programador 4096 Oct 14 02:01 web
root@g3:/home/programador#
```

3. Dele permisos 777 a la carpeta “web”, 555 a la carpeta “db” al usuario “Programador”.

```
root@g3: /home/programador

root@g3:/home/programador# ls -l
total 8
drwxr-xr-x 2 programador programador 4096 Oct 14 02:01 db
drwxr-xr-x 2 programador programador 4096 Oct 14 02:01 web
root@g3:/home/programador# chmod 777 web
root@g3:/home/programador# ls -l
total 8
drwxr-xr-x 2 programador programador 4096 Oct 14 02:01 db
drwxrwxrwx 2 programador programador 4096 Oct 14 02:01 web
root@g3:/home/programador# chmod 555 db
root@g3:/home/programador# ls -l
total 8
dr-xr-xr-x 2 programador programador 4096 Oct 14 02:01 db
drwxrwxrwx 2 programador programador 4096 Oct 14 02:01 web
root@g3:/home/programador#
```



abrimos el puerto ftp con el comando: open "ip de servidor" , colocamos usuario y contraseña.

```
Administrador: Símbolo del sistema - ftp
Microsoft Windows [Versión 10.0.19041.508]
(c) 2020 Microsoft Corporation. Todos los derechos reservados.

C:\Windows\system32>ftp
ftp> open 157.230.49.95
Conectado a 157.230.49.95.
220 (vsFTPD 3.0.3)
200 Always in UTF8 mode.
Usuario (157.230.49.95:(none)): programador
331 Please specify the password.
Contraseña:
230 Login successful.
ftp>
```

4. Suba un archivo con sus datos utilizando Puts y Descargue el mismo archivo con gets del command de Windows.

```
Administrador: Símbolo del sistema - ftp
Microsoft Windows [Versión 10.0.19041.508]
(c) 2020 Microsoft Corporation. Todos los derechos reservados.

C:\Windows\system32>ftp
ftp> open 157.230.49.95
Conectado a 157.230.49.95.
220 (vsFTPD 3.0.3)
200 Always in UTF8 mode.
Usuario (157.230.49.95:(none)): programador
331 Please specify the password.
Contraseña:
230 Login successful.
ftp> put C:\Users\Emanuel\Desktop\EmanuelAmperez.txt
200 PORT command successful. Consider using PASV.
150 Ok to send data.
226 Transfer complete.
ftp: 125 bytes enviados en 0.09segundos 1.45a KB/s.
ftp> dir
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rw----- 1 1000 1000 125 Oct 14 02:24 EmanuelAmperez.txt
dr-xr-xr-x 2 1000 1000 4096 Oct 14 02:01 db
drwxrwxrwx 2 1000 1000 4096 Oct 14 02:01 web
226 Directory send OK.
ftp: 200 bytes recibidos en 0.01segundos 33.33a KB/s.
ftp>
```

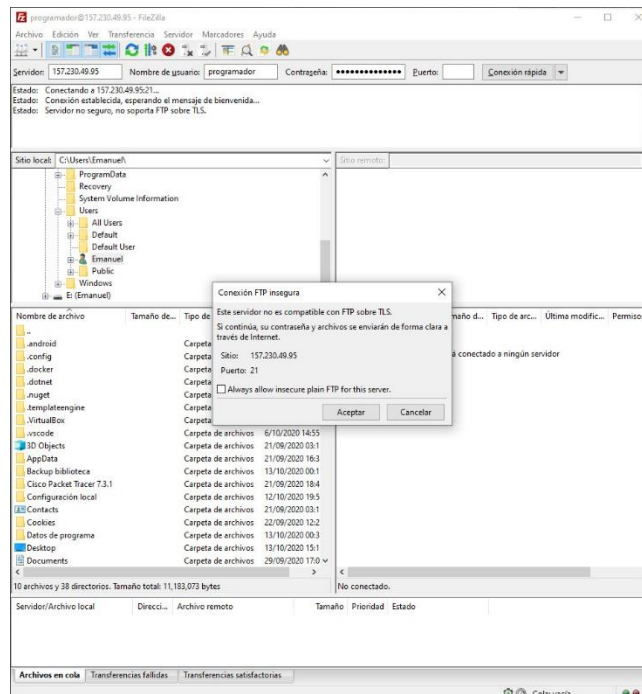


Descarga de archivos utilizando el comando “get”.

```
Administrador: Símbolo del sistema - ftp
226 Transfer complete.
ftp: 125 bytes enviados en 0.09segundos 1.45a KB/s.
ftp> dir
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rw----- 1 1000 1000 125 Oct 14 02:24 EmanuelAmperez.txt
dr-xr-xr-x 2 1000 1000 4096 Oct 14 02:01 db
drwxrwxrwx 2 1000 1000 4096 Oct 14 02:01 web
226 Directory send OK.
ftp: 200 bytes recibidos en 0.01segundos 33.33a KB/s.
ftp> dir
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rw----- 1 1000 1000 125 Oct 14 02:24 EmanuelAmperez.txt
-rw----- 1 1000 1000 23 Oct 14 02:26 Prueba.txt
dr-xr-xr-x 2 1000 1000 4096 Oct 14 02:01 db
drwxrwxrwx 2 1000 1000 4096 Oct 14 02:01 web
226 Directory send OK.
ftp: 268 bytes recibidos en 0.01segundos 53.60a KB/s.
ftp> dir
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rw----- 1 1000 1000 125 Oct 14 02:24 EmanuelAmperez.txt
-rw----- 1 1000 1000 23 Oct 14 02:26 Prueba.txt
dr-xr-xr-x 2 1000 1000 4096 Oct 14 02:01 db
drwxrwxrwx 2 1000 1000 4096 Oct 14 02:01 web
226 Directory send OK.
ftp: 336 bytes recibidos en 0.01segundos 42.00a KB/s.
ftp>
```

```
Administrador: Símbolo del sistema - ftp
dr-xr-xr-x 2 1000 1000 4096 Oct 14 02:01 db
drwxrwxrwx 2 1000 1000 4096 Oct 14 02:01 web
226 Directory send OK.
ftp: 268 bytes recibidos en 0.01segundos 53.60a KB/s.
ftp> dir
200 PORT command successful. Consider using PASV.
150 Here comes the directory listing.
-rw----- 1 1000 1000 125 Oct 14 02:24 EmanuelAmperez.txt
-rw----- 1 1000 1000 23 Oct 14 02:26 Prueba.txt
dr-xr-xr-x 2 1000 1000 4096 Oct 14 02:01 db
-rw----- 1 1000 1000 52 Oct 14 02:28 redes2.txt
drwxrwxrwx 2 1000 1000 4096 Oct 14 02:01 web
226 Directory send OK.
ftp: 336 bytes recibidos en 0.01segundos 42.00a KB/s.
ftp> get EmanuelAmperez.txt
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for EmanuelAmperez.txt (125 bytes).
226 Transfer complete.
ftp: 125 bytes recibidos en 0.00segundos 125000.00a KB/s.
ftp> get Prueba.txt
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for Prueba.txt (23 bytes).
226 Transfer complete.
ftp: 23 bytes recibidos en 0.00segundos 23000.00a KB/s.
ftp> get redes2.txt
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for redes2.txt (52 bytes).
226 Transfer complete.
ftp: 52 bytes recibidos en 0.00segundos 52000.00a KB/s.
ftp>
```

5. Suba otro archivo usando FileZilla





6. Habilite el usuario Anonymus

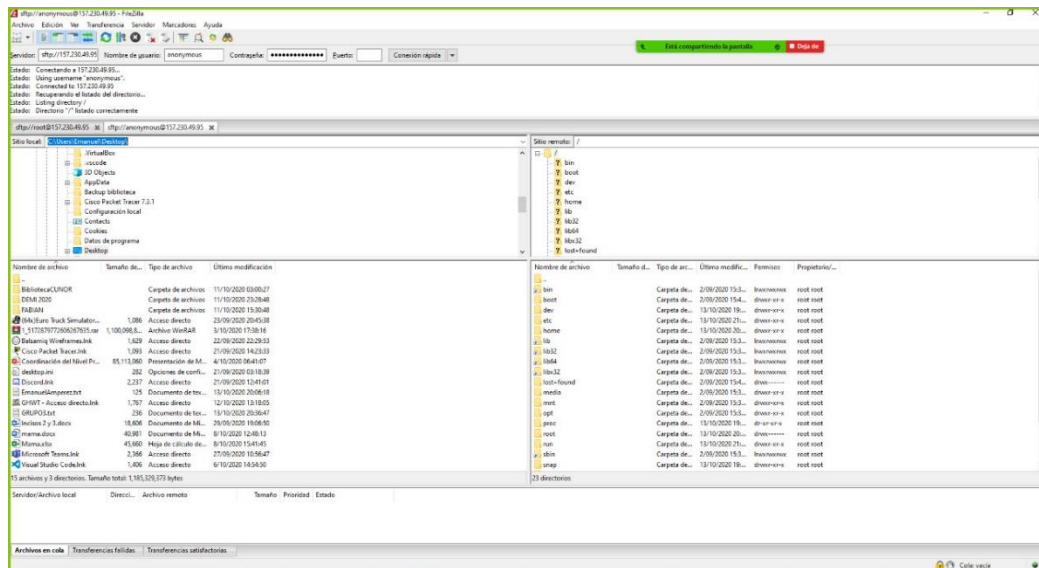
```
root@g3: /home
GNU nano 4.8 /etc/vsftpd.conf
listen=NO
#
# This directive enables listening on IPv6 sockets. By default, listening
# on the IPv6 "any" address (:::) will accept connections from both IPv6
# and IPv4 clients. It is not necessary to listen on *both* IPv4 and IPv6
# sockets. If you want 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
#
# Default umask for local users is 077. You may wish to change this to 022,
#
# Get Help ^G Write Out ^O Where Is ^W Cut Text ^K Justify ^J Cur Pos
# Exit ^X Read File ^R Replace ^U Paste Text ^T To Spell ^_ Go To Line
```

```
root@g3: /home
Memory: 584.0K
CGroup: /system.slice/vsftpd.service
└─14707 /usr/sbin/vsftpd /etc/vsftpd.conf

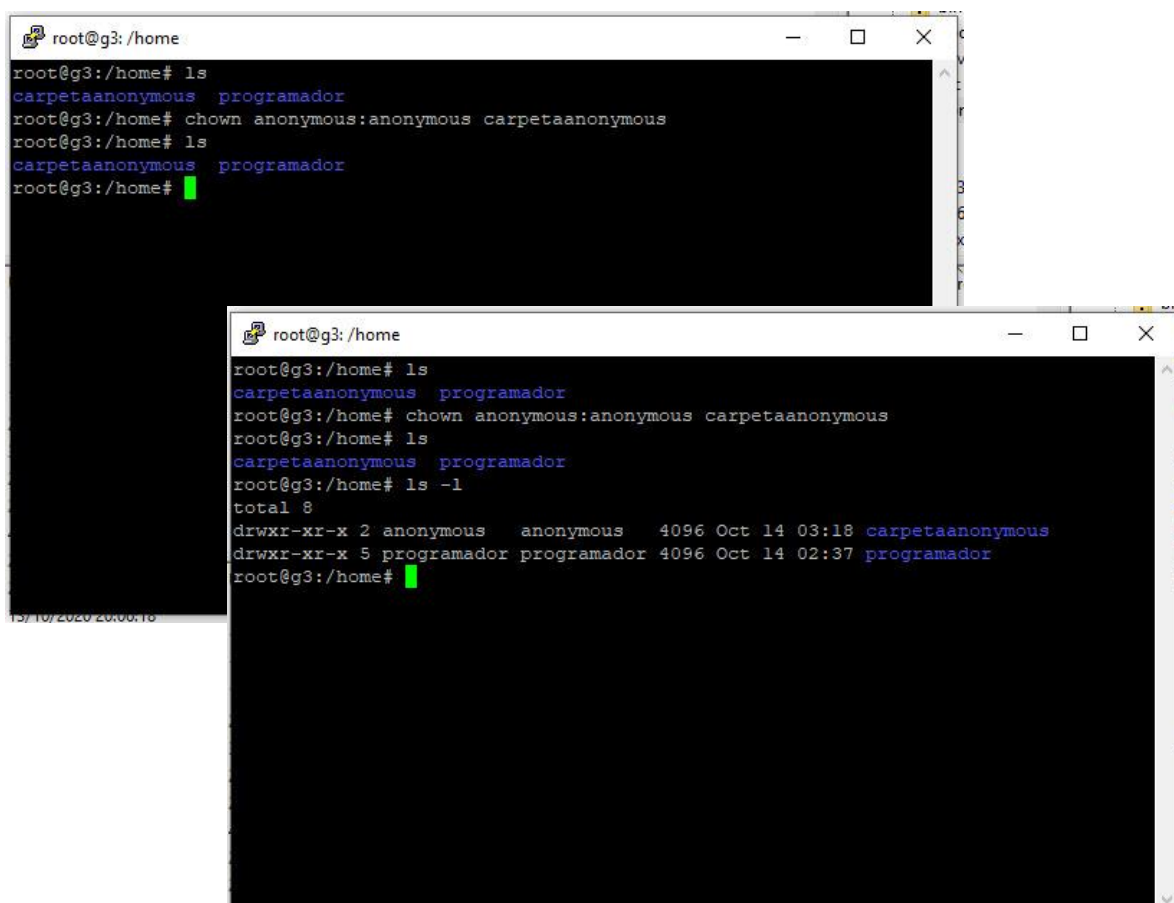
Oct 14 03:14:45 g3 systemd[1]: Starting vsftpd FTP server...
Oct 14 03:14:45 g3 systemd[1]: Started vsftpd FTP server.
lines 1-12/12 (END)
^C
root@g3:/var# cd
root@g3:~# cd /home
root@g3:/home# ls
programador
root@g3:/home# ftp localhost
Connected to localhost.
220 (vsFTPd 3.0.3)
Name (localhost:root): anonymous
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> quit
221 Goodbye.
root@g3:/home#
```



7. Conecte por FileZilla Anonymus



8. Asigne una carpeta al usuario Anonymus





9. Cree un usuario "invitado" y suba un archivo pdf que contenga todos los screenshot de cada numeral

```
root@g3: /home
Retype new password:
Sorry, passwords do not match.
passwd: Authentication token manipulation error
passwd: password unchanged
Try again? [y/N] y
New password:
Retype new password:
passwd: password updated successfully
Changing the user information for invitado
Enter the new value, or press ENTER for the default
    Full Name []: Grupo 3
    Room Number []: Invitado
    Work Phone []:
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
root@g3:/home# ls
carpetaaanonymous  invitado  programador
root@g3:/home# ls -l
total 12
drwxr-xr-x 2 anonymous  anonymous  4096 Oct 14 03:18 carpetaaanonymous
drwxr-xr-x 2 invitado  invitado   4096 Oct 14 03:21 invitado
drwxr-xr-x 5 programador programador 4096 Oct 14 02:37 programador
root@g3:/home#
```