

## Install VSFTPD Server

1-sudo apt update

2-sudo apt install vsftpd

```
ubuntu@ubuntu:~$ sudo apt update
Ign:1 cdrom://Ubuntu 24.04 LTS _Noble Numbat_ - Release amd64 (20240424) noble InRelease
Hit:2 cdrom://Ubuntu 24.04 LTS _Noble Numbat_ - Release amd64 (20240424) noble Release
Hit:4 http://security.ubuntu.com/ubuntu noble-security InRelease
Hit:5 http://archive.ubuntu.com/ubuntu noble InRelease
Hit:6 http://archive.ubuntu.com/ubuntu noble-updates InRelease
Hit:7 http://archive.ubuntu.com/ubuntu noble-backports InRelease
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
521 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

```
ubuntu@ubuntu:~$ sudo apt install vsftpd
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
vsftpd is already the newest version (3.0.5-0ubuntu3).
0 upgraded, 0 newly installed, 0 to remove and 521 not upgraded.
```

3-sudo service vsftpd status

```
ubuntu@ubuntu:~$ sudo apt install vsftpd
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
vsftpd is already the newest version (3.0.5-0ubuntu3).
0 upgraded, 0 newly installed, 0 to remove and 521 not upgraded.
ubuntu@ubuntu:~$ sudo service vsftpd status
● vsftpd.service - vsftpd FTP server
   Loaded: loaded (/usr/lib/systemd/system/vsftpd.service; enabled; preset: enabled)
   Active: active (running) since Sat 2024-12-21 15:22:40 UTC; 58min ago
     Process: 5738 ExecStartPre=/bin/mkdir -p /var/run/vsftpd/empty (code=exited, status=0/SUCCESS)
    Main PID: 5740 (vsftpd)
      Tasks: 1 (limit: 16535)
     Memory: 712.0K (peak: 1.7M)
        CPU: 17ms
     CGroup: /system.slice/vsftpd.service
            └─5740 /usr/sbin/vsftpd /etc/vsftpd.conf

Dec 21 15:22:40 ubuntu systemd[1]: Starting vsftpd.service - vsftpd FTP server...
Dec 21 15:22:40 ubuntu systemd[1]: Started vsftpd.service - vsftpd FTP server.
```

## Configure Firwall

4- sudo nano /etc/vsftpd.conf

5- sudo ufw allow from any to any port 20,21,10000:10100 proto tcp

```
ubuntu@ubuntu:~$ sudo nano /etc/vsftpd.conf
ubuntu@ubuntu:~$ sudo ufw allow from any to any port 20,21,10000:10100 proto tcp
Skipping adding existing rule
Skipping adding existing rule (v6)
```

```
GNU nano 7.2 /etc/vsftpd.conf
chroot_local_user=YES
secure_chroot_dir=/var/run/vsftpd/empty
pam_service_name=vsftpd
rsa_cert_file=/etc/ssl/certs/ssl-cert-snakeoil.pem
rsa_private_key_file=/etc/ssl/private/ssl-cert-snakeoil.key
ssl_enable=NO
user_sub_token=$USER
local_root=/home/$USER/ftp
pasv_min_port=10000
pasv_max_port=10100

[ Read 11 lines ]
^G Help      ^O Write Out ^W Where Is  ^K Cut       ^T Execute   ^C Location  M-U Undo
^X Exit      ^R Read File ^\ Replace   ^U Paste     ^J Justify   ^_ Go To Line M-E Redo
```

6- sudo ufw enable

7- sudo ufw status

```
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo ufw enable
Firewall is active and enabled on system startup
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo ufw status
Status: active
```

To	Action	From
--	-----	----
20/tcp	ALLOW	Anywhere
21/tcp	ALLOW	Anywhere
40000:50000/tcp	ALLOW	Anywhere
990/tcp	ALLOW	Anywhere
20/tcp (v6)	ALLOW	Anywhere (v6)
21/tcp (v6)	ALLOW	Anywhere (v6)
40000:50000/tcp (v6)	ALLOW	Anywhere (v6)
990/tcp (v6)	ALLOW	Anywhere (v6)

## Create FTP User

8- sudo adduser ftpuser

9- sudo mkdir /home/ftpuser/ftp

10- sudo chown nobody:nogroup /home/ftpuser/ftp

11- sudo chmod a-w /home/ftpuser/ftp

12- sudo mkdir /home/ftpuser/ftp/files

13- sudo chown ftpuser:ftpuser /home/ftpuser/ftp/files

```
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo adduser ftpuser
info: Adding user `ftpuser' ...
info: Selecting UID/GID from range 1000 to 59999 ...
info: Adding new group `ftpuser' (1001) ...
info: Adding new user `ftpuser' (1001) with group `ftpuser (1001)' ...
info: Creating home directory `/home/ftpuser' ...
info: 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 ftpuser
Enter the new value, or press ENTER for the default
    Full Name []: Sherif Saad
    Room Number []: 09
    Work Phone []: 01208825165
    Home Phone []:
    Other []:
Is the information correct? [Y/n] y
info: Adding new user `ftpuser' to supplemental / extra groups `users' ...
info: Adding user `ftpuser' to group `users' ...
```

```
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo mkdir /home/ftpuser/ftp
[sudo] password for shefoo:
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo chown nobody:nogroup /home/ftpuser/ftp/
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo chmod a-w /home/ftpuser/ftp
sudo: chmod: command not found
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo chmod a-w /home/ftpuser/ftp
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo mkdir /home/ftpuser/ftp/files
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo chown ftpuser:ftpuser /home/ftpuser/ftp/files
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo vi /etc/vsftpd.conf
sudo: vi: command not found
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo vi /etc/vsftpd.conf
shefoo@shefoo-VMware-Virtual-Platform:~$
```

## VSFTPD Server Configuration:

14- sudo vi /etc/vsftpd.conf

listen=NO

listen\_ipv6=YES

anonymous\_enable=NO

local\_enable=YES

write\_enable=YES

local\_umask=022

dirmessage\_enable=YES

use\_localtime=YES

xferlog\_enable=YES

connect\_from\_port\_20=YES

chroot\_local\_user=YES

secure\_chroot\_dir=/var/run/vsftpd/empty

pam\_service\_name=vsftpd

force\_dot\_files=YES

pasv\_min\_port=40000

pasv\_max\_port=50000

user\_sub\_token=\$USER

local\_root=/home/\$USER/ftp

15- sudo systemctl restart vsftpd.service

```
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo vi /etc/vsftpd.conf
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo vi /etc/vsftpd.conf
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo systemctl restart vsftpd.service
```

## Test FTP Connection

```
shefoo@shefoo-VMware-Virtual-Platform:~$ sudo apt install net-tools
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following NEW packages will be installed:
  net-tools
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 204 kB of archives.
After this operation, 811 kB of additional disk space will be used.
Get:1 http://archive.ubuntu.com/ubuntu noble/main amd64 net-tools amd64 2.10-0.1ubuntu4 [204 kB]
Fetched 204 kB in 2s (132 kB/s)
Selecting previously unselected package net-tools.
(Reading database ... 147850 files and directories currently installed.)
Preparing to unpack .../net-tools_2.10-0.1ubuntu4_amd64.deb ...
Unpacking net-tools (2.10-0.1ubuntu4) ...
Setting up net-tools (2.10-0.1ubuntu4) ...
Processing triggers for man-db (2.12.0-4build2) ...
shefoo@shefoo-VMware-Virtual-Platform:~$ ifconfig
ens33: flags=4099<UP,BROADCAST,MULTICAST> mtu 1500
    ether 00:0c:29:43:4a:e7 txqueuelen 1000 (Ethernet)
    RX packets 25 bytes 3402 (3.4 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 9257 bytes 663377 (663.3 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 9257 bytes 663377 (663.3 KB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlx40ae30e42556: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
    inet 192.168.131.125 netmask 255.255.255.0 broadcast 192.168.131.255
    inet6 fe80::5d5:b97c:21b6:d4b3 prefixlen 64 scopeid 0x20<link>
    ether 40:ae:30:e4:25:56 txqueuelen 1000 (Ethernet)
    RX packets 333 bytes 356528 (356.5 KB)
    RX errors 0 dropped 0 overruns 0 frame 0
```

```
shefoo@shefoo-VMware-Virtual-Platform:~$ ftp -p 192.168.131.125
Connected to 192.168.131.125.
220 (vsFTPd 3.0.5)
Name (192.168.131.125:shefoo): Sherif Saad
331 Please specify the password.
Password:
530 Login incorrect.
ftp: Login failed
ftp>
ftp>
ftp>
[1]+  Stopped                  ftp -p 192.168.131.125
```

# FileZilla

shefoo@192.168.131.125 - FileZilla

Help Bookmarks Server Transfer View Edit File

Quickconnect Port shefoo Username Password

Disconnected from server Status  
Connecting to 192.168.131.125:21 Status  
Connection established, waiting for welcome message Status

home/shefoo/ Remote site

shefoo  
cache  
config  
local  
ssh  
Desktop  
Documents

Local site

\\C:\Users\Sheri  
Sheri  
usr  
win32-loader  
Windows  
Wondershare UniConverter 15  
Wondershare\_Repaint

..Owner/Gr	..Permissi	..Last modifi	Filetype	Filesize	Filename
---	---	---	File folder		cache
---	---	---	File folder		config
---	---	---	File folder		local
---	---	---	File folder		ssh
---	---	---	File folder		Desktop
---	---	---	File folder		Documents
---	---	---	File folder		Downloads
---	---	---	File folder		Music
---	---	---	File folder		Pictures
---	---	---	File folder		Public
---	---	---	File folder		snap
---	---	---	File folder		Templates
---	---	---	File folder		Videos
---	---	---	File folder		bash_logout
---	---	---	File folder		bashrc
---	---	---	File folder		profile

files and 13 directories. Total size: 4,798 bytes

Last modified	Filetype	Filesize	Filename
---	File folder		anaconda
---	File folder		android
---	File folder		arduinoIDE
---	File folder		atom
---	File folder		cache
---	File folder		conda
---	File folder		config
---	File folder		console-ninja
---	File folder		continuum
---	File folder		crossnote
---	File folder		dist
---	File folder		dotnet
---	File folder		eclipse
---	File folder		expo
---	File folder		flowise
---	File folder		git

files and 130 directories. Total size: 375,229,298 bytes