

FTP PROTOCOL CONFIGURATION IN LINUX



INSTALLATION OF VSFTPD :

SUDO APT INSTALL VSFTPD

```
mahdi@mahdi-RV408-RV508: ~$ sudo apt install vsftpd
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
  vsftpd
0 upgraded, 1 newly installed, 0 to remove and 369 not upgraded.
Need to get 115 kB of archives.
After this operation, 338 kB of additional disk space will be used.
Get:1 http://lb.archive.ubuntu.com/ubuntu focal/main amd64 vsftpd amd64 3.0.3-12 [115 kB]
Fetched 115 kB in 36s (3,231 B/s)
Preconfiguring packages ...
Selecting previously unselected package vsftpd.
(Reading database ... 147592 files and directories currently installed.)
Preparing to unpack .../vsftpd_3.0.3-12_amd64.deb ...
Unpacking vsftpd (3.0.3-12) ...
Setting up vsftpd (3.0.3-12) ...
vsftpd.conf:1: Line references path below legacy directory /var/run/, updating /var/run/vsftpd/empty → /run/vsftpd/empty; please update the tm
pfiles.d/ drop-in file accordingly.
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for systemd (245.4-4ubuntu3.2) ...
mahdi@mahdi-RV408-RV508:~$
```

GETTING IP ADDRESS:

IP A

IN THIS CASE : 192.168.0.102

```
mahdi@mahdi-RV408-RV508: ~  
mahdi@mahdi-RV408-RV508:~$ ip a  
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000  
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00  
    inet 127.0.0.1/8 scope host lo  
        valid_lft forever preferred_lft forever  
    inet6 ::1/128 scope host  
        valid_lft forever preferred_lft forever  
2: enp3s0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc fq_codel state DOWN group default qlen 1000  
    link/ether e8:11:32:85:3f:24 brd ff:ff:ff:ff:ff:ff  
3: wlp5s0b1: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000  
    link/ether 90:a4:de:5a:e6:cb brd ff:ff:ff:ff:ff:ff  
    inet 192.168.0.102/24 brd 192.168.0.255 scope global dynamic noprefixroute wlp5s0b1  
        valid_lft 83647sec preferred_lft 83647sec  
    inet6 fe80::8007:277c:4b3a:9b5b/64 scope link noprefixroute  
        valid_lft forever preferred_lft forever  
mahdi@mahdi-RV408-RV508:~$
```

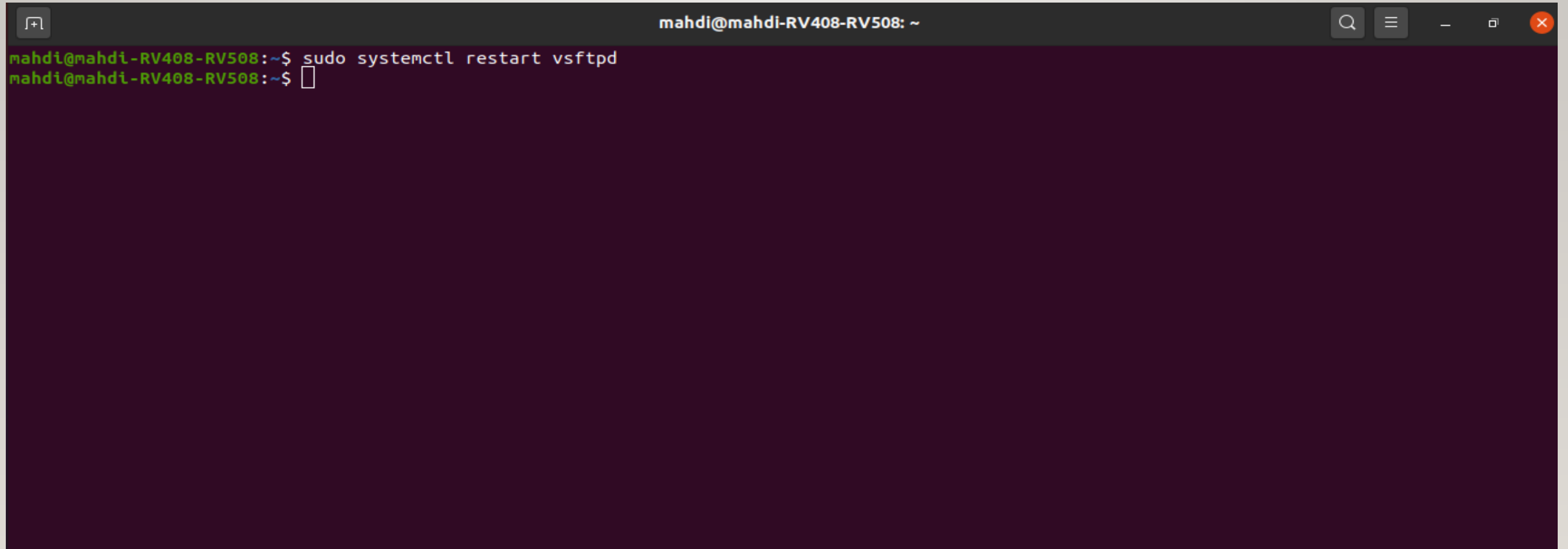
CREATING NEW USER AND SET A PASSWORD :

SUDO ADDUSER FTPNEWUSER

```
mahdi@mahdi-RV408-RV508: ~  
mahdi@mahdi-RV408-RV508:~$ sudo adduser ftpnewuser  
Adding user `ftpnewuser' ...  
Adding new group `ftpnewuser' (1003) ...  
Adding new user `ftpnewuser' (1003) with group `ftpnewuser' ...  
Creating home directory `/home/ftpnewuser' ...  
Copying files from `/etc/skel' ...  
New password:  
Retype new password:  
passwd: password updated successfully  
Changing the user information for ftpnewuser  
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  
mahdi@mahdi-RV408-RV508:~$
```

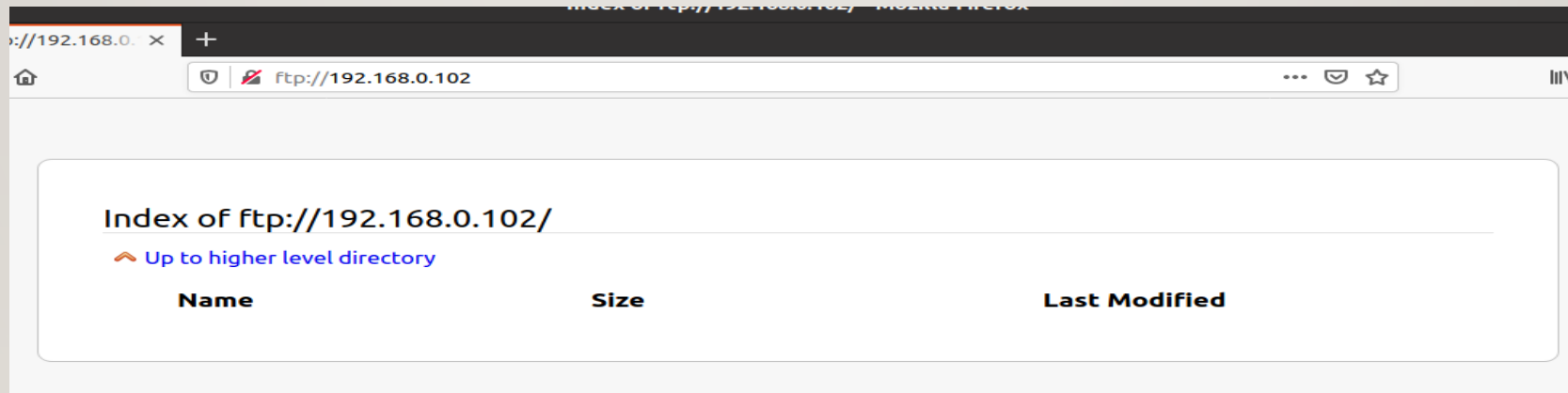
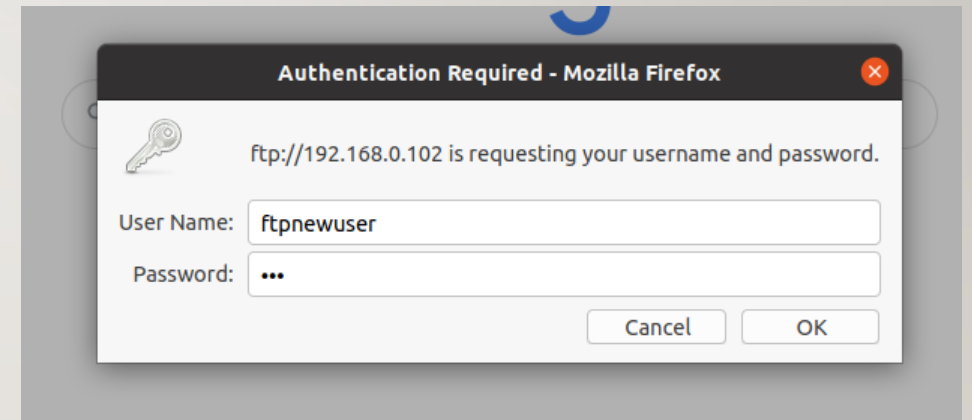
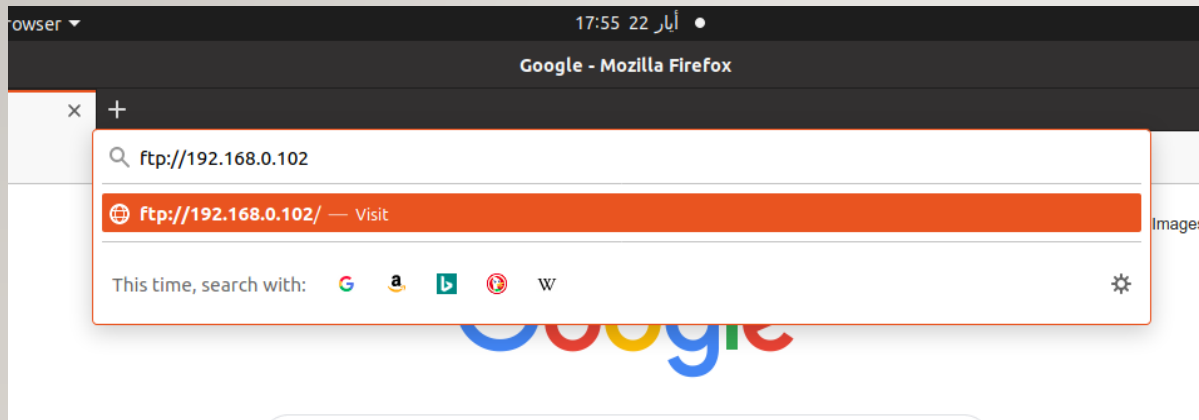

RESTART VSFTPD:

SUDO SYSTEMCTL RESTART VSFTPD

A terminal window with a dark purple background. The title bar at the top shows 'mahdi@mahdi-RV408-RV508: ~' and standard window controls. The terminal displays two lines of text: the first line shows the command 'sudo systemctl restart vsftpd' being entered, and the second line shows the prompt after the command has been executed.

```
mahdi@mahdi-RV408-RV508:~$ sudo systemctl restart vsftpd
mahdi@mahdi-RV408-RV508:~$
```

TESTING (FTP://192.168.0.102):



TESTING (CREATING A NEW FOLDER AND A NEW FILE AND NAVIGATING)

```
mahdi@mahdi-RV408-RV508:~$ cd /home/ftpnewuser
mahdi@mahdi-RV408-RV508:/home/ftpnewuser$ sudo mkdir testdir
mahdi@mahdi-RV408-RV508:/home/ftpnewuser$
```

Index of ftp://192.168.0.102/

[Up to higher level directory](#)

Name	Size	Last Modified
 testdir		5/22/21 8:57:00 PM GMT+3

Index of ftp://192.168.0.102/testdir/

[Up to higher level directory](#)

Name	Size	Last Modified
File: file		5/22/21 9:00:00 PM GMT+3

DOWNLOADING TEST.TXT

```
user@mahdi-RV408-RV508:~$ sudo ftp 192.168.0.101
Connected to 192.168.0.101.
220 (vsFTPd 3.0.3)
Name (192.168.0.101:user): ftpnewuser
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> cd testdir
250 Directory successfully changed.
ftp> get test.txt
local: test.txt remote: test.txt
200 PORT command successful. Consider using PASV.
150 Opening BINARY mode data connection for test.txt (5 bytes).
226 Transfer complete.
5 bytes received in 0.00 secs (37.2734 kB/s)
ftp> 
```