**FTP**

**Experiment :** 6

**Aim :** To create and configure FTP Server

**Description :**

FTP Server

File Transfer Protocol (FTP) is a TCP protocol for downloading files between

computers. In the past, it has also been used for uploading but, as that method does

not use encryption, user credentials as well as data transferred in the clear and are

easily intercepted. So if you are here looking for a way to upload and download files

securely,

FTP works on a client/server model. The server component is called an FTP daemon.

It continuously listens for FTP requests from remote clients. When a request is

received, it manages the login and sets up the connection. For the duration of the

session it executes any of commands sent by the FTP client

**Port No:** 21

**Package name:** vsftpd

**Configuration file:** /etc/vsftpd.conf

**Procedure:**

1. Install the vsftpd - FTP Server Installation in the ubuntu operating system

$sudo apt install vsftpd

2. By default vsftpd is not configured to allow anonymous download. If you wish to

enable anonymous download edit /etc/vsftpd.conf by changing:

$anonymous\_enable=YES

3. During installation a ftp user is created with a home directory of /srv/ftp. This is

the default FTP directory.

If you wish to change this location, to /srv/files/ftp for example, simply create a

directory in another location and change the ftp user’s home directory:

$sudo mkdir -p /srv/files/ftp

$sudo usermod -d /srv/files/ftp ftp

4. After making the change restart vsftpd:

$ sudo service vsftpd restart

5. User Authenticated FTP Configuration

By default vsftpd is configured to authenticate system users and allow them to

download files. If you want users to be able to upload files, edit /etc/vsftpd.conf

$write\_enable=YES

6. Now restart vsftpd:

$ sudo service vsftpd restart

7. Securing FTP

There are options in /etc/vsftpd.conf to help make vsftpd more secure.

$chroot\_local\_user=YES

$chroot\_list\_enable=YES

$chroot\_list\_file=/etc/vsftpd.chroot\_list

8. After uncommenting the above options, create a /etc/vsftpd.chroot\_list

containing a list of users one per line.

9. Then restart vsftpd:

$sudo service vsftpd restart

10. To configure FTPS, edit /etc/vsftpd.conf and at the bottom add:

$ssl\_enable=YES

11. Then check the vsftpd status

$sudo service vsftpd status

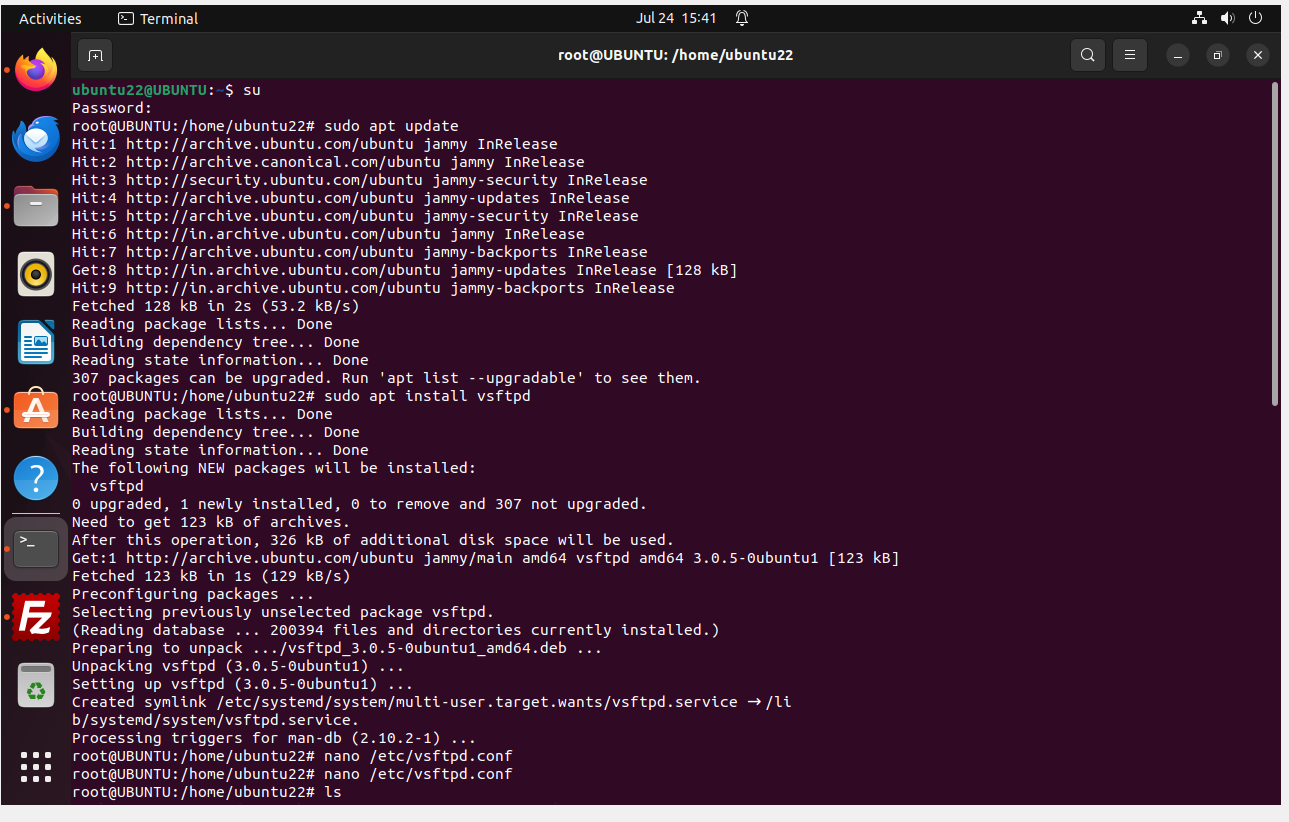
12. Now connect to ftp by the command

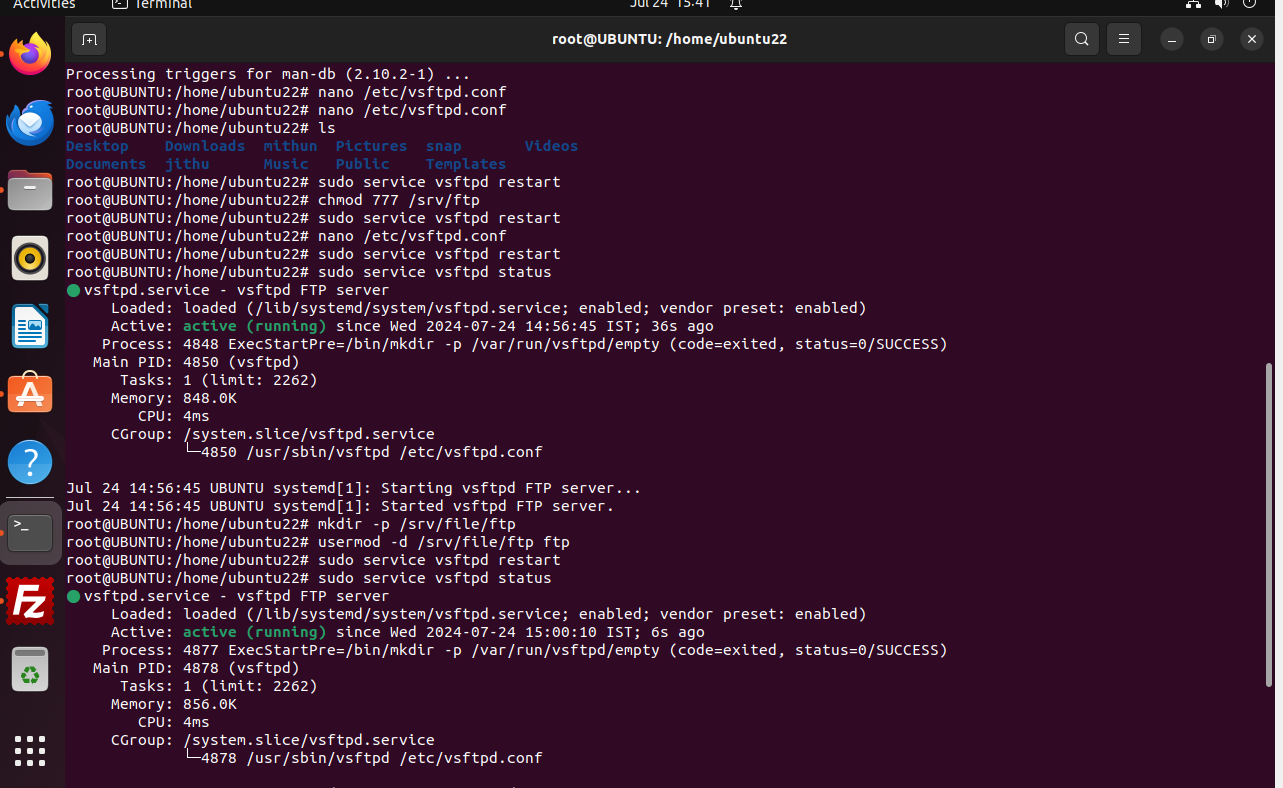
$ftp -p 192.168.234.128

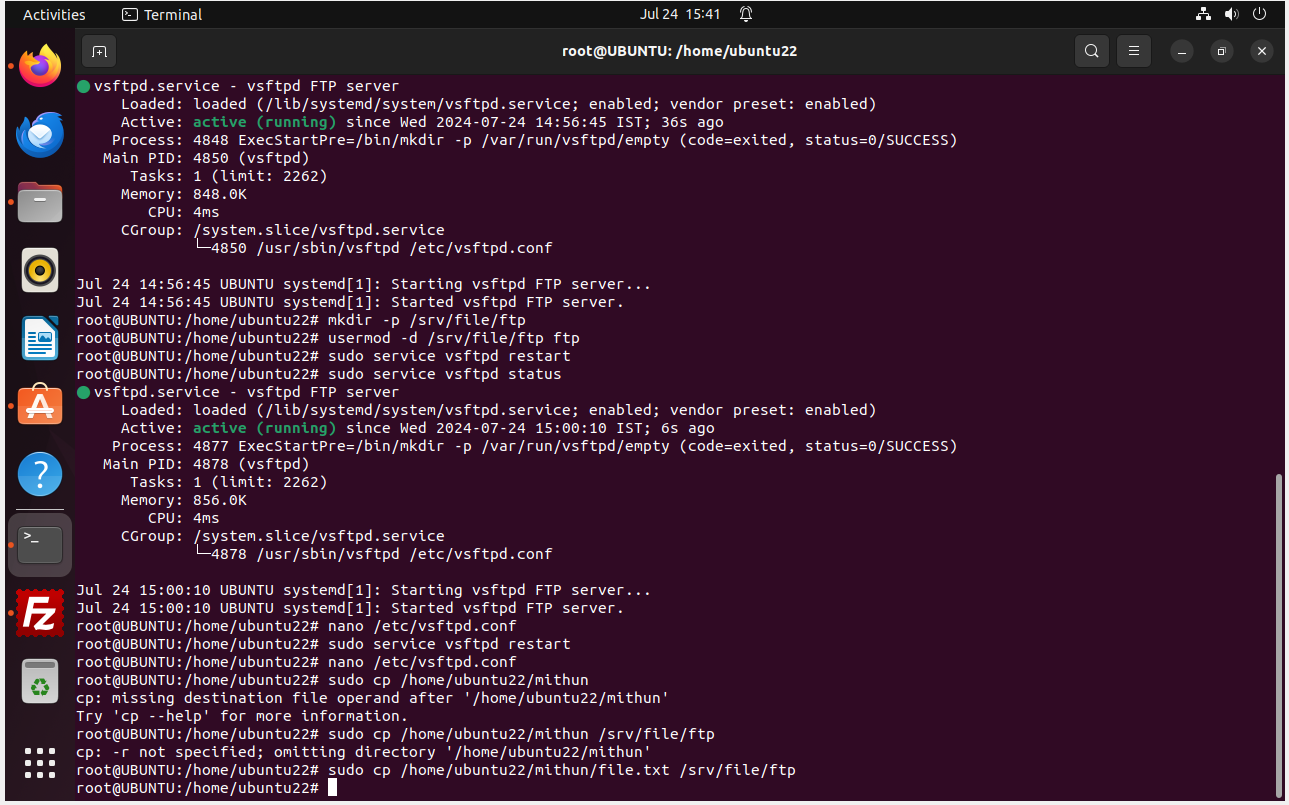
13. Now install filezilla in ubuntu and open the filezilla and specify the ip address

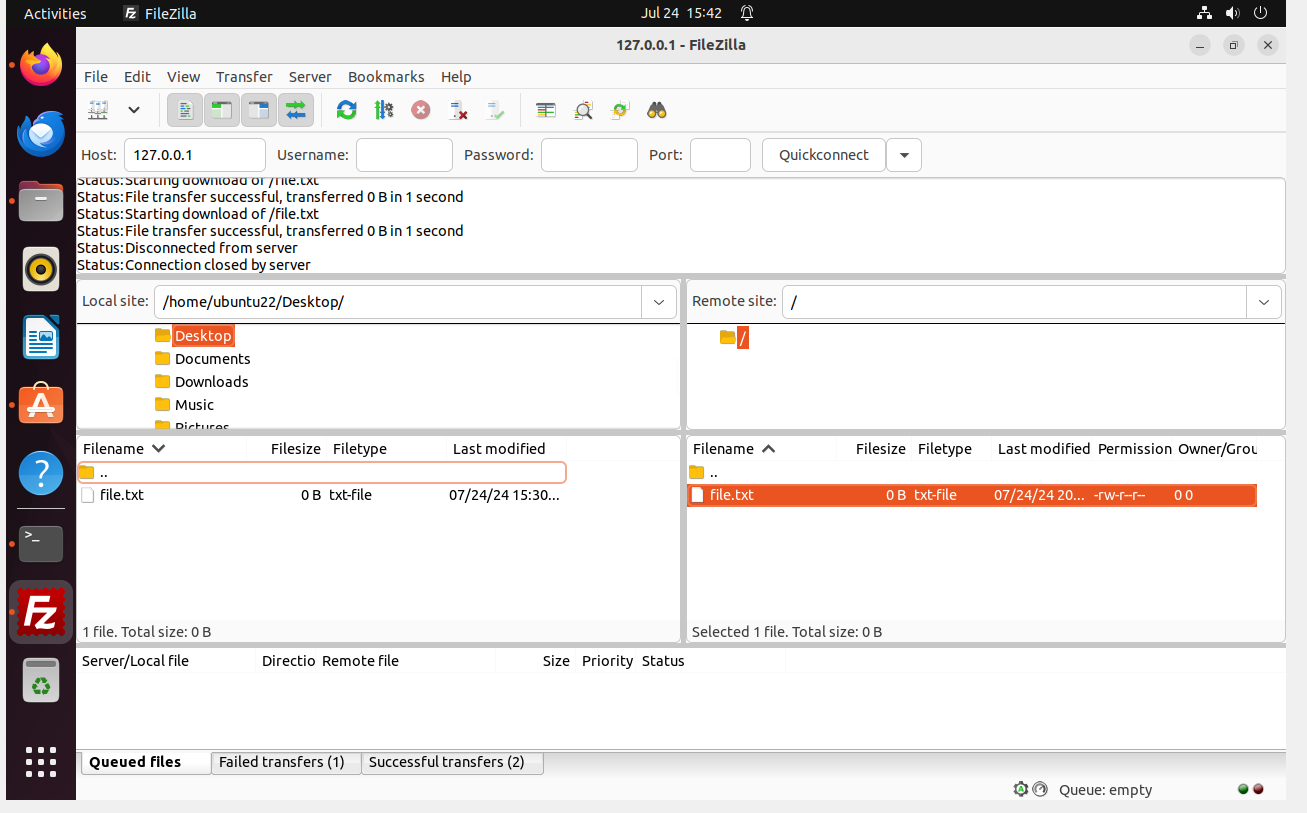
and port number of the ftp server then click connect

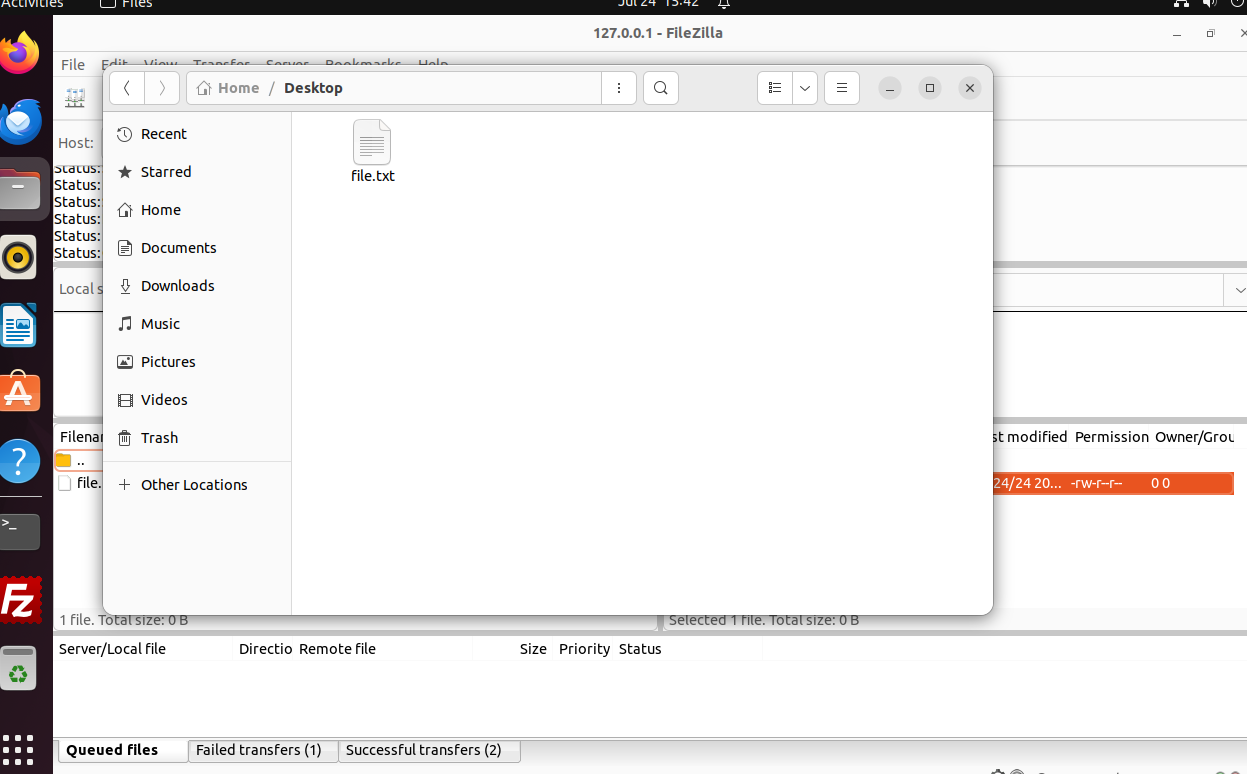
RESULTS:

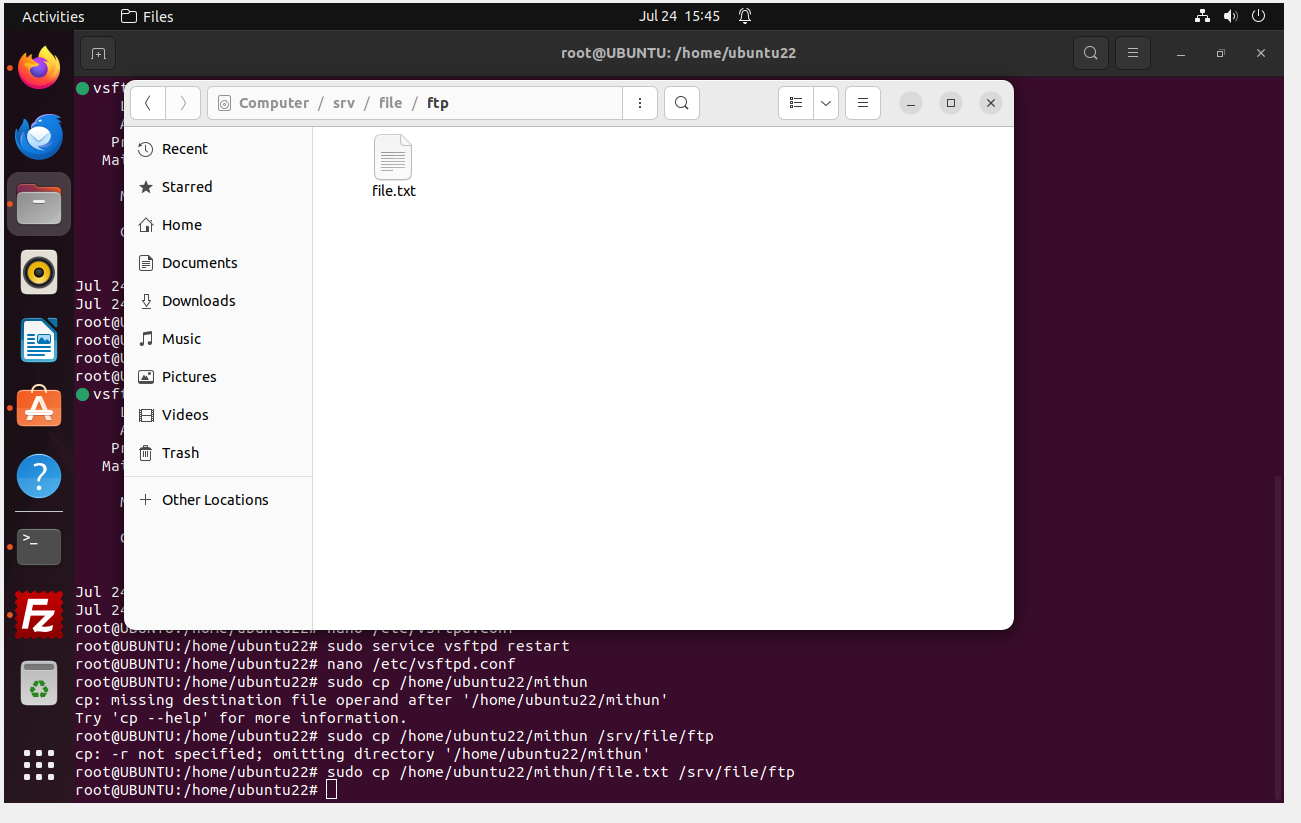


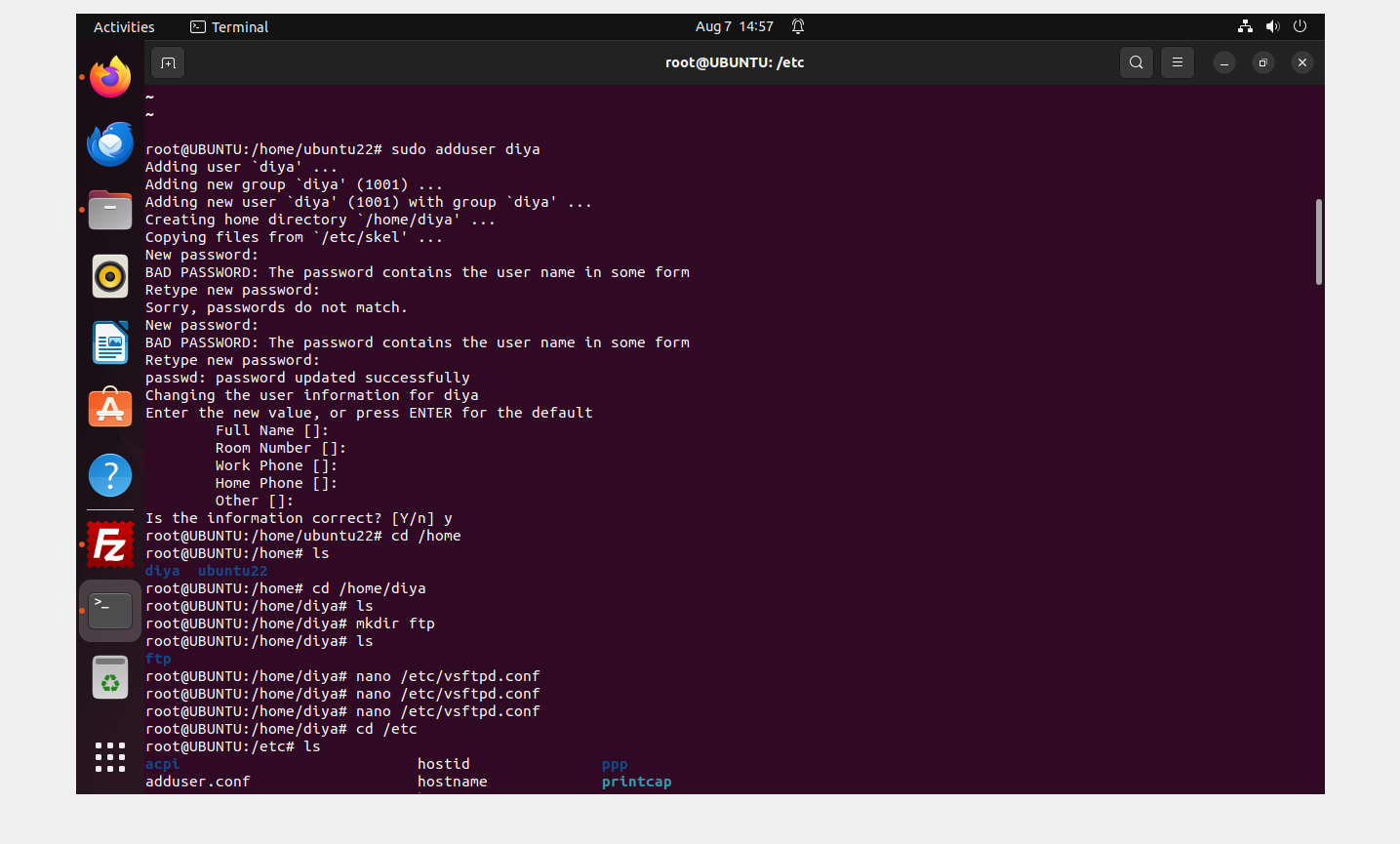


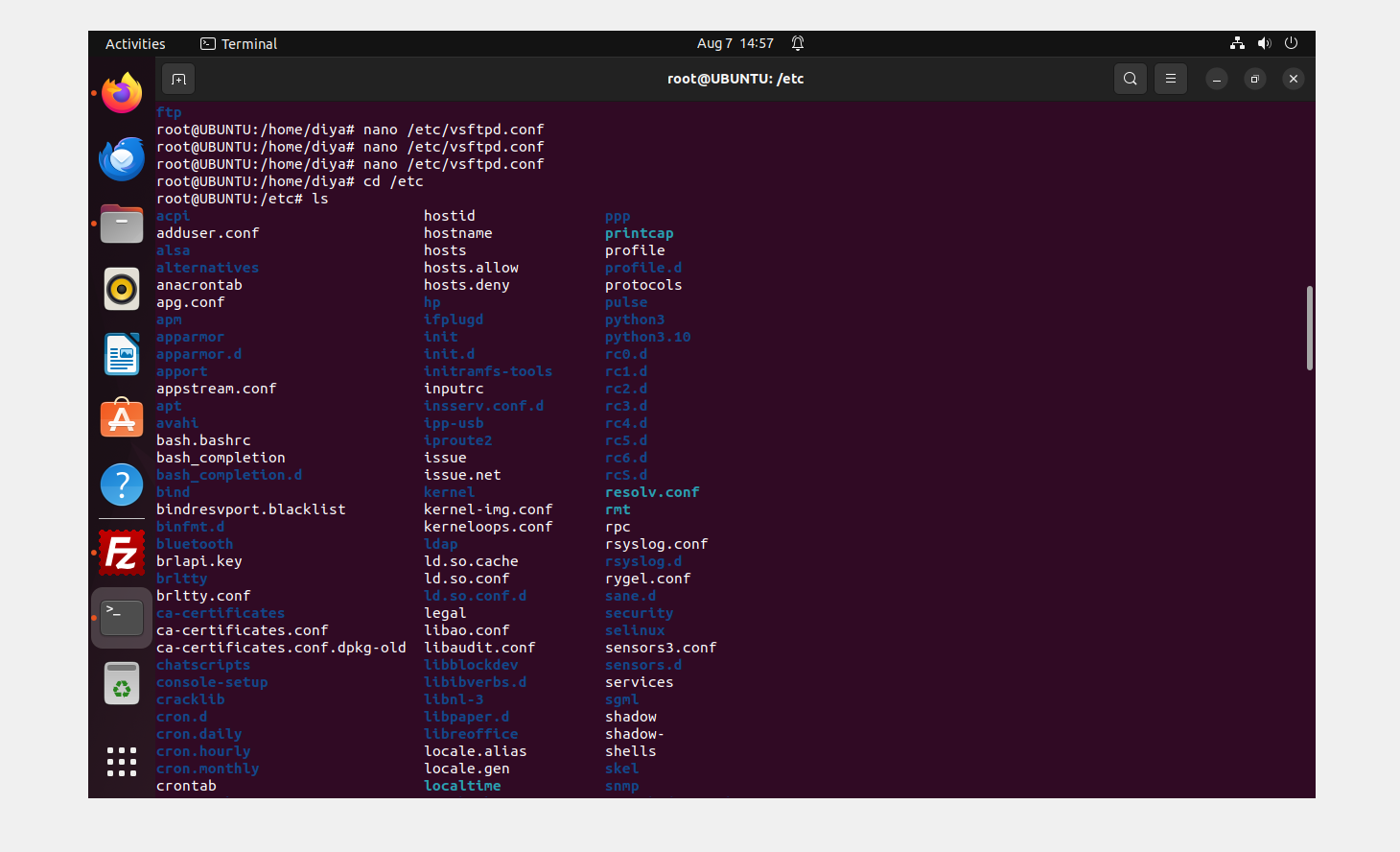


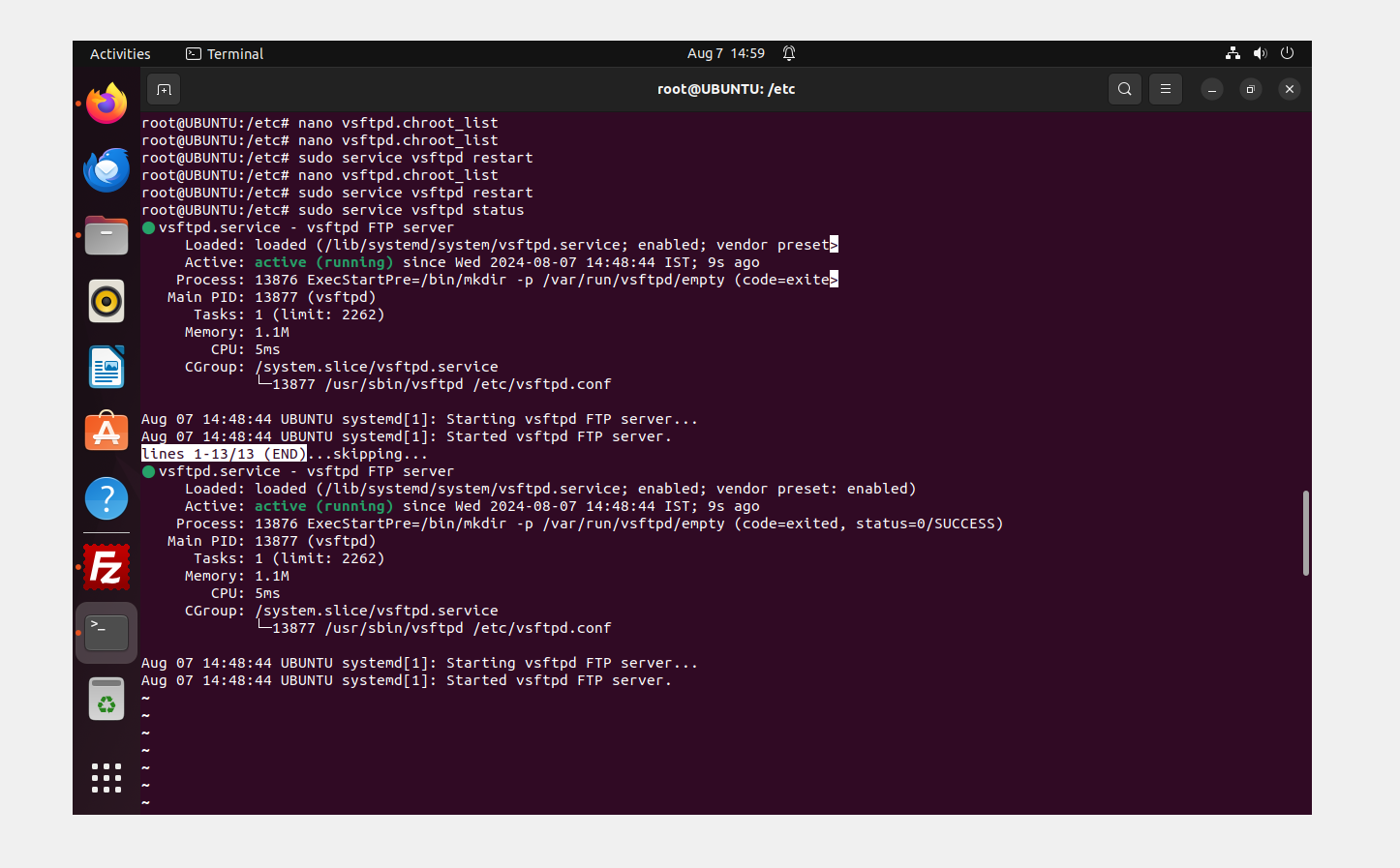


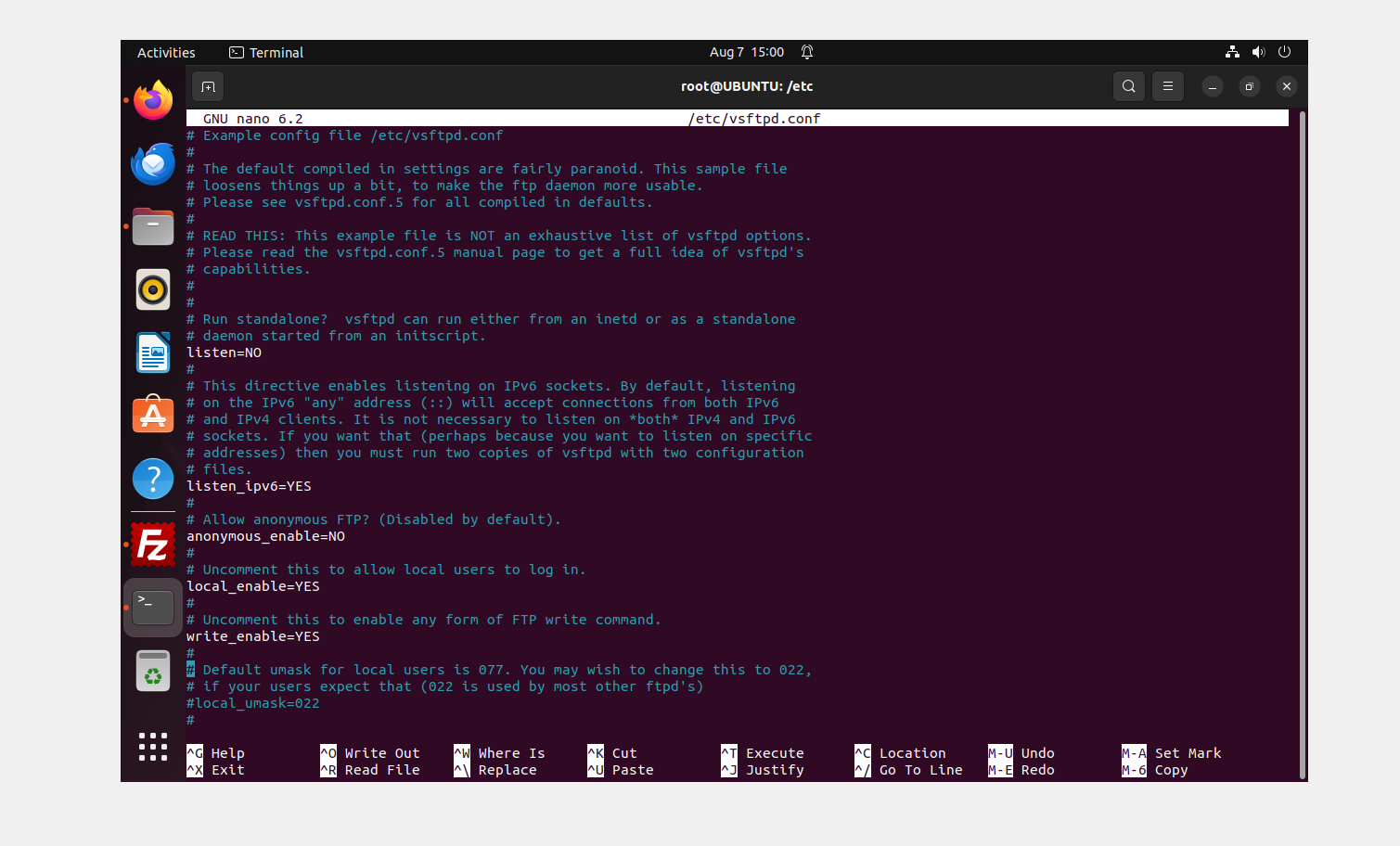


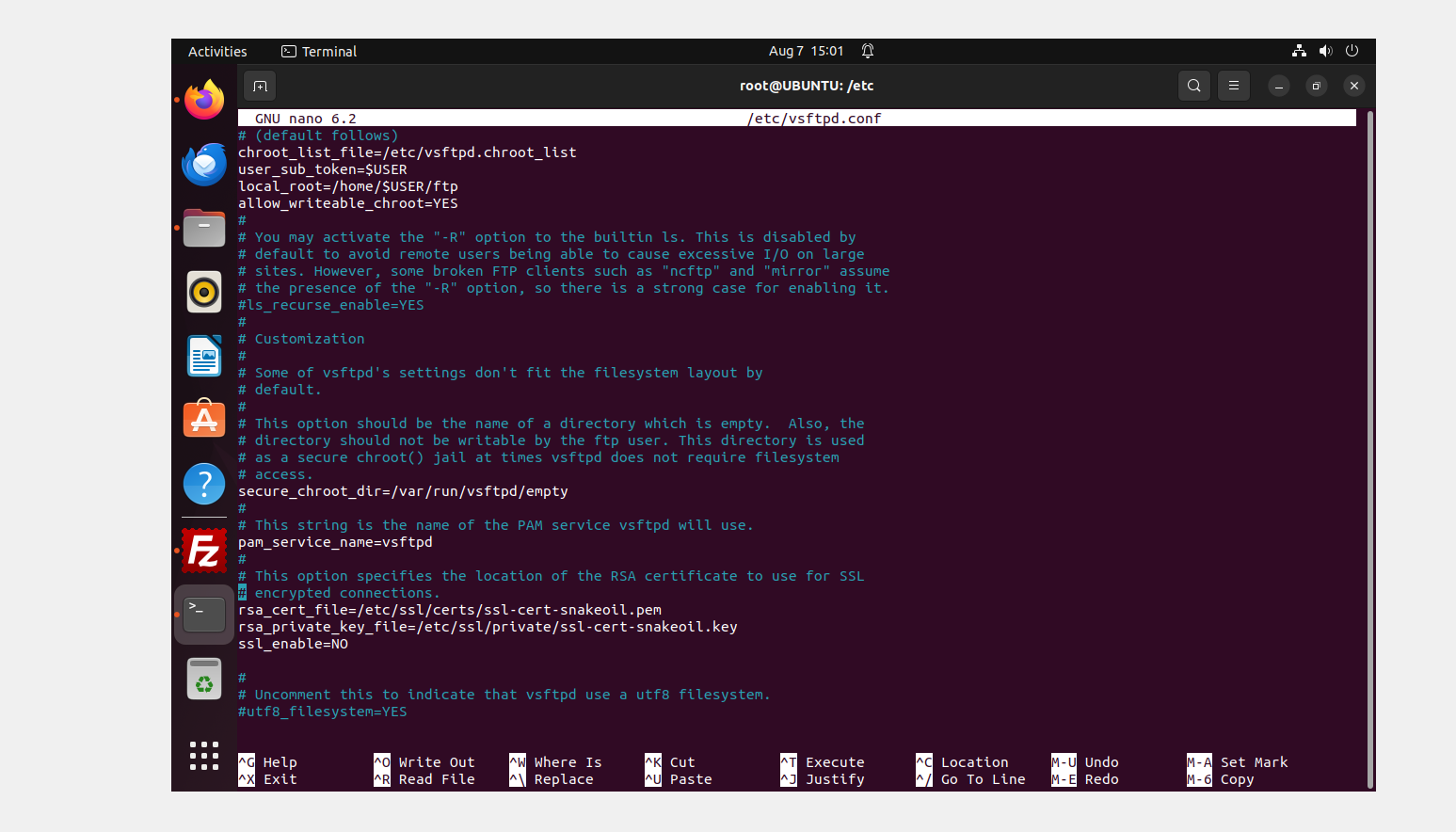


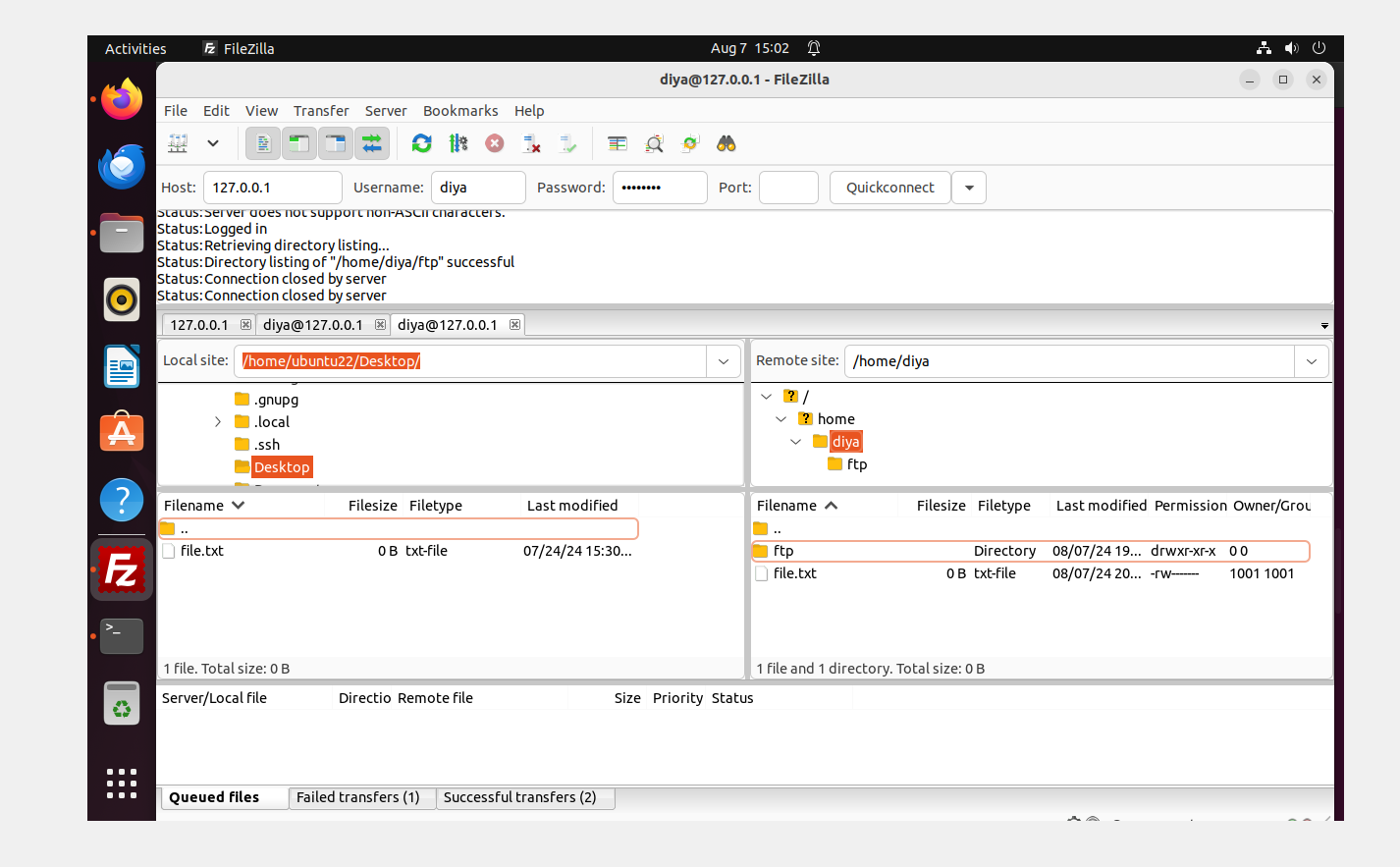


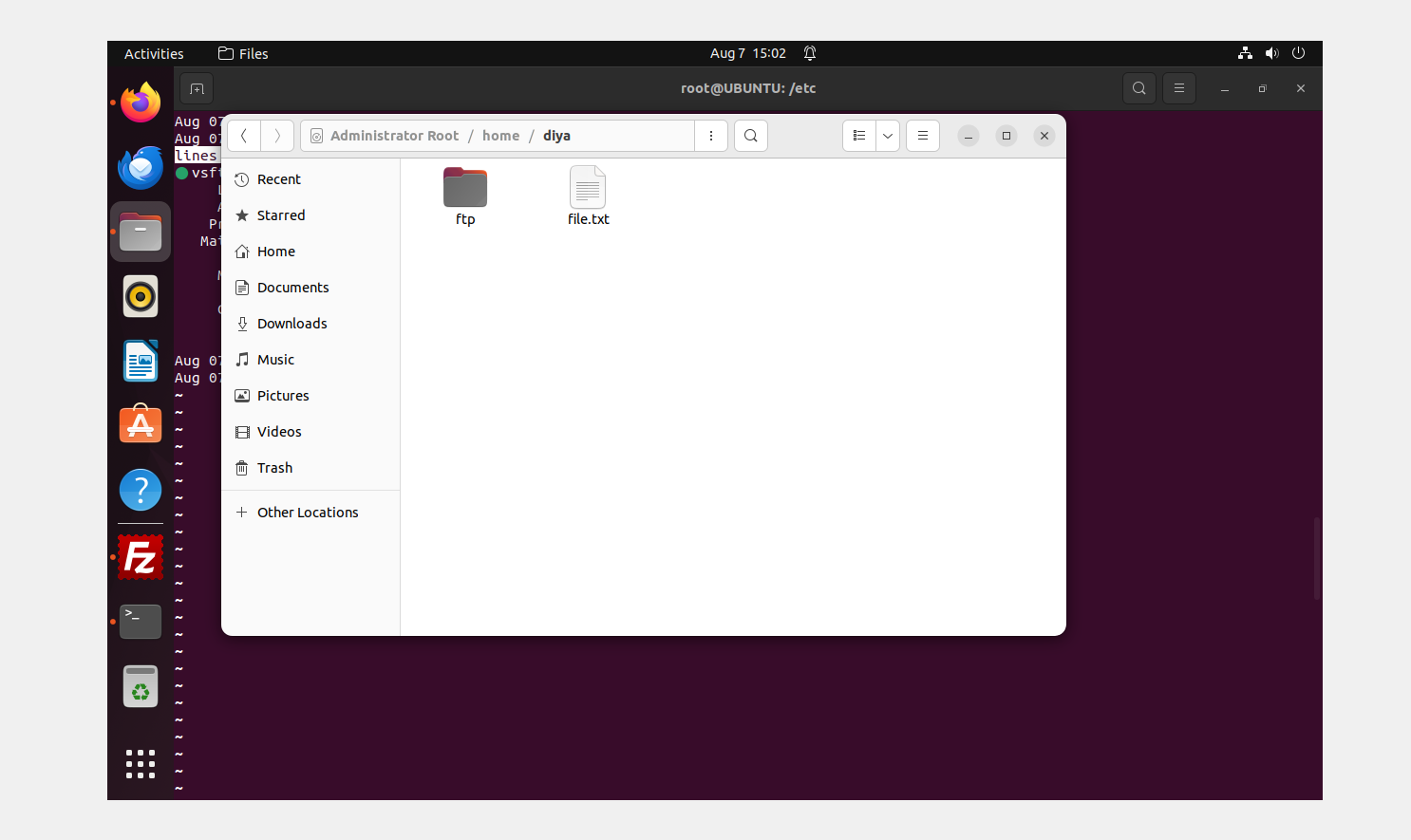












All the commands have been executed and the output has been obtained successfully.