

# Install and configure vsftpd

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## What is FTP?

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FTP, short for File Transfer Protocol, is a network protocol that was once widely used for moving files between a client and server. It has since been replaced by faster, more secure, and more convenient ways of delivering files.

Here is the list of some well-known FTP servers.

- FTPD
- VSFTPD
- PROFTPD
- PUREFTPD

## Introduction to vsftpd

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VSFTPD stands for **Very Secure File Transfer Protocol Daemon**. It is GPL licensed FTP server for UNIX systems, including Linux. It is secure and extremely fast and stable.

### Features:

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- Virtual IP configurations
- Virtual users
- Standalone or inetd operation
- Powerful per-user configurability
- Bandwidth throttling
- Per-source-IP configurability
- Per-source-IP limits
- IPv6
- Encryption support through SSL integration
- Etc...

## Installation and Configuration of vsftpd with new FTP user.

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**Prerequisites:** Ubuntu server with sudo access.

## Step 1 — Installing vsftpd

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```
$ sudo apt-get update
```

```
$ sudo apt-get install vsftpd
```

After completion of installation it's good to keep the original configuration file for backup.

```
$ sudo cp /etc/vsftpd.conf /etc/vsftpd.conf.orig
```

## Step 2 — Create User Directory and Set Ownership

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Create the FTP folder, add user and assign a directory to it.

```
$ sudo mkdir /home/emipro/FTP
```

```
$ sudo adduser --home=/home/emipro/FTP test_user
```

Create new directory under FTP directory and set the permissions to 777.

```
$ sudo mkdir /home/emipro/FTP/Test
```

```
$ sudo chmod 777 /home/emipro/FTP/Test
```

Set the ownership, and make sure to remove write permissions with the following commands :

```
$ sudo chown nobody:nogroup /home/emipro/FTP
```

```
$ sudo chmod a-w /home/emipro/FTP
```

Once you have created FTP directory, then we can add subdirectories with full access permissions.

## Step 3 — Configuring FTP Access by doing following changes in vsftpd.conf file

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Open configuration file.

```
$ sudo nano /etc/vsftpd.conf
```

For allowing user to upload the files, uncomment the **write\_enable** setting.

```
write_enable=YES
```

Uncomment **chroot\_local\_user** to allow FTP user to access the assigned directory to him/her.

```
chroot_local_user=YES
```

```
chroot_list_enable=NO
```

Uncomment **chroot\_list\_file** and provide path for user list.

```
chroot_list_file=/etc/vsftpd.chroot_list
```

Add user to **vsftpd.userlist** for access to login and FTP directory.

```
$ sudo vi /etc/vsftpd.userlist
```

Add test\_user in file(**caution:one username per line**)

Add below option to allow local user to login via FTP.

```
allow_writeable_chroot=YES
```

Restart vsftpd service.

```
$ sudo systemctl restart vsftpd
```

Now we can access our FTP server with any ftp client application like FileZilla.

**Here are few common issues you may face :**

**Issue-1 :** 550 Create directory operation failed.

**Reason:** This error occurs when subdirectory in FTP root directory has not got full access permission i.e. 777

**Solution:**

```
$ sudo chmod 777 <FTP sub dir path>
```

**Issue-2 :** 500 OOPS: vsftpd: refusing to run with writable root inside chroot()

**Reason:** This error comes up when either FTP root directory has got full access permission or not the actual required permissions. Home directory must not be writable by the user.

**Solution:**

```
$ sudo chmod 555 <FTP root dir path>
```

## Note : Vsftpd is only works with FTP and provide security to FTP

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With vsftpd we can restrict user to his/her home directory using chroot while having connection to ftp (port 21). But If it is allowed to have connection to SFTP (port 22) then this chroot jail will not work.

To configure chroot security for SFTP,

1. Edit file : /etc/ssh/sshd\_config

```
vi /etc/ssh/sshd_config
```

2. Paste the below code at the end of the file

```
Subsystem sftp internal-sftp
Match USER <user_name>
    ChrootDirectory <user's home directory>
    ForceCommand internal-sftp
    X11Forwarding no
    AllowTcpForwarding no
```

Change username and it's directory in above lines. Uncomment "Subsystem" if it is there in above lines of config file.

Note : user's home directory must be owned by root with 755 permission.

3. Restart ssh service

```
/etc/init.d/ssh restart
```

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