

File Transfer Protocol :

It is a standard method for sharing the files over the internet for many years.

FTP servers are still the most common way to make directories of documents and software available to the public over the internet. For an organization that needs large no. of files over public network then ftp servers provide most robust tools for sharing the files and protect the system from the network.

Types of FTP servers :

- 1) FTP : Defaultly available in solaris
- 2) ProFTP : For anonymous logins, it is a third party tool
- 3) SFTP : Secure FTP
- 4) VSFTP : Very Secure FTP
- 5) WU-FTP : Washington University FTP

SFTP, VSFTP are defaultly available in Linux.

Requirements:

Packages : vsftpd rpm

port number : 20 - ftp data transfer

21 - ftp control connection

configuration file : /etc/vsftpd/vsftpd.conf/

Sharing location : /var/ftp

service : vsftpd

Daemon : vsftpd

We have 3 types of ftp users

- (1) Anonymous user
- (2) Guest Users
- (3) Real Users

By default, after installing the FTP package, we have sharable location as a directory "/var/ftp".

If we create any thing in this location they are automatically share via FTP method.

If we need additional, then you have to configure in configuration file.

Configuration of FTP Server :

install the packages :

```
# rpm -ivh vsftpd* --force --aid
```

or

```
# yum install vsftpd* -y
```

To install graphically

```
# sysicm-config-packages &
```

Open the configuration file :

```
# vi /etc/vsftpd/vsftpd.conf
```

in line no. 12 anonymous_enable=yes

defaultly anonymous users are enable. If you want to disable login permission to anonymous users then mentioned 'no' in 12' line.

Go to Sharing Location :

```
# cd /var/ftp
```

Create a upload directory for uploading files

```
# mkdir /var/ftp/upload
```

Create some files in pub directory to download

```
# cd pub
```

```
# touch F1 F2 F3 F4
```

Restart the service :
Service vsftpd restart

Client Side : To connect to Ftp Server :
ftp <ftp-server-ip>
ex :# ftp 192.168.1.1
And type anonymous as username and blank password

ftp prompt Commands :
ftp>pwd = display severside working directory
ftp>!pwd = display clientside working directory
ftp>ls = List the serverside info/
ftp>!ls = List the client side info/
ftp>cd = change dir at server side
ftp>!cd = at clientside
ftp>get <filename> = to download single file
ftp>mget to download multiple files
ftp>put to upload a single file
ftp>mput to upload multiple files
ftp>help display the prompt commands
ftp>bye to quit from ftp prompt

Serverside configuration for local users access
Open the configuration file
vi /etc/usftpd/vsftpd.conf
in line no. 15 : local_enable=yes
in line no. 27 anon_upload_enable=yes

Create one Local User
useradd sun
give password to him
#passwd sun
restart the service :
service vsftpd restart

Goto client side :
ftp 192.168.0.1
Here we have to give username & password
ftp>cd /var/ftp

To give restriction local user :
If we want to restrict any normal users to login in to the ftp server
then mention their names in the file /etc/vsftpd/ftpusers
#vi /etc/vsftpd/ftpusers
//mention the user names whom you want to restrict.
sun (to restrect user sun)