FTP [FILE TRANSFER PROTOCOL]

* **20** – Data port.
* **21** – Command Port.
* The port number for data transfer varies depends on active and passive mode.
* Using ftp only files can be uploaded (or) downloaded, directories can’t.
* Pkg and daemon = **vsftpd.**
* Main config file = **/etc/vsftpd/vsftpd.conf**.
* Default document root **= /var/ftp/pub**.
* Go to **/etc/vsftpd**. Edit the ftp main configuration file to access server from client.
* Uncomment these lines.

**anonymous\_enable=NO**

**ascii\_upload\_enable=YES**

**ascii\_download\_enable=YES**

**chroot\_local\_user=YES**

**chroot\_list\_enable=YES**

**chroot\_list\_file=/etc/vsftpd/chroot\_list**

**ls\_recurse\_enable=YES**

**Listen=YES (ipv4 section).**

**Listen=NO (ipv6 section).**

* Add these lines at the end of the file.

**pasv\_min\_port=1024**

**pasv\_max\_port=1048**

**pasv\_address=serverpublicip**

**use\_localtime=YES**

* Save the file and restart the vsftpd service.
* If you have firewall running allow ftp through it.

**firewall-cmd –permanent –add-port=21/tcp**

**firewall-cmd –permanent –add-service=ftp**

**service firewall reload**

* Go to client machine and connect to ftp server.
* In client machine,
* Install ftp = **yum install ftp.**
* To connect to ftp server from client = **ftp server ip**.
* Login as user ftp and no password.
* To download files from ftp server = **get filename** (or) **wget file1 file2** (multiple files).
* To upload files, first you have to uncomment the “**anon upload enable = YES**” line in main config file.
* And if selinux is running, you have to change the secontext for the directory that you want to upload the files.

**chcon –t public\_content\_rw\_t /dir.**

* Change the selinux content to **“public\_content\_rw\_t”** to the dir that you want to upload.
* And turn on the Boolean value of “**FTPD ANON WRITE ON**”….DONE..

**setsebool –P | ftpd\_anon\_write on**

* To upload files to ftp server = **put file** (or) **mput file1 file2** (multiple files).
* By default, root user can't use ftp.
* To use root user,
* go to **/etc/vsftpd/user\_list** and uncomment **(#)** before root.
* Go to **/etc/vsftpd/ftpusers** and uncomment **(#)** before root.
* And change the Boolean **FTP\_HOME\_DIR** to **ON**.
* If you want to use normal linux users instead of **root** and **anonymous** **user**. Create an user and give password to that user.
* Mention that user name in **/etc/vsftpd/chroot\_list** file. Restart the ftp service.
* Go to client and type ftp server-ip and give an normal user name and password to login to ftp server.
* Now, you can download and upload files from ftp server as a normal user. Which is one the security measures.
* You can access ftp from browser with your username and password.
* Type **ftp://serverip**. You will be asked credentials. Enter the credentials and you will be logged into ftp server.
* You can use your username along with the ftp url….ftp://username@ip. It will ask that user password.
* You can use multiple users to login to ftp server from cmd and browser. Just create users and add those users in **chroot\_list** file.
* Once you specified user in chroot\_list, you can login with that user. It will show that users home directory files.