

# How to setup chroot SFTP in linux

## First create user and group

```
[root@vivek ~]# groupadd vgroup
[root@vivek ~]# useradd pooja
[root@vivek ~]# passwd pooja
Changing password for user pooja.
New password:
BAD PASSWORD: The password is a palindrome
Retype new password:
passwd: all authentication tokens updated successfully.
[root@vivek ~]# usermod -G vgroup pooja
[root@vivek ~]#
```

## Create dir in /var/www

```
[root@vivek ~]# mkdir -p /var/www/vgroup/pooja
[root@vivek ~]# mkdir /var/www/vgroup/pooja/test
[root@vivek ~]# chown -R pooja /var/www/vgroup/pooja/test
[root@vivek ~]#
```

## Assign to home dir to path

```
[root@vivek ~]# usermod -d /var/www/vgroup/pooja/ pooja
[root@vivek ~]#
```

## Change ssh configuration file

```
[root@vivek ~]# vim /etc/ssh/sshd_config
```

## Add subsystem comment old line

```
140 # override default of no subsystems
141 #Subsystem      sftp      /usr/libexec/openssh/sftp-server
142 Subsystem       sftp      internal-sftp
143
```

## Add chroot in file

```
152 # for chroot sftp#
153 Match          group      vgroup
154               ChrootDirectory %h
155               ForceCommand internal-sftp
156               X11Forwarding no
157
```

## Restart sshd services

```
[root@vivek ~]# systemctl restart sshd
[root@vivek ~]# systemctl status sshd
● sshd.service - OpenSSH server daemon
   Loaded: loaded (/usr/lib/systemd/system/sshd.service; enabled; vendor preset: enabled)
   Active: active (running) since Sat 2022-05-07 03:44:59 EDT; 7s ago
     Docs: man:sshd(8)
           man:sshd_config(5)
   Main PID: 4490 (sshd)
```

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## Use locally sftp server access

```
[root@vivek ~]# sftp pooja@localhost
The authenticity of host 'localhost (::1)' can't be established.
ECDSA key fingerprint is SHA256:NZXG1ENfsI9yVAJhfObXpauStpfaw8ycDB8qUTkC33M.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'localhost' (ECDSA) to the list of known hosts.
pooja@localhost's password:
Connected to pooja@localhost.
sftp> ls
test
sftp> mkdir vivek
Couldn't create directory: Permission denied
sftp> cd test
sftp> mkdir vivek
sftp> ls
vivek
sftp> rm -rf vivek
rm: Invalid flag -r
sftp> rmdir vivek
sftp> ls
sftp>
sftp> # no permission outof folder only working in test folder only#
sftp>
sftp> bye
[root@vivek ~]#
```

