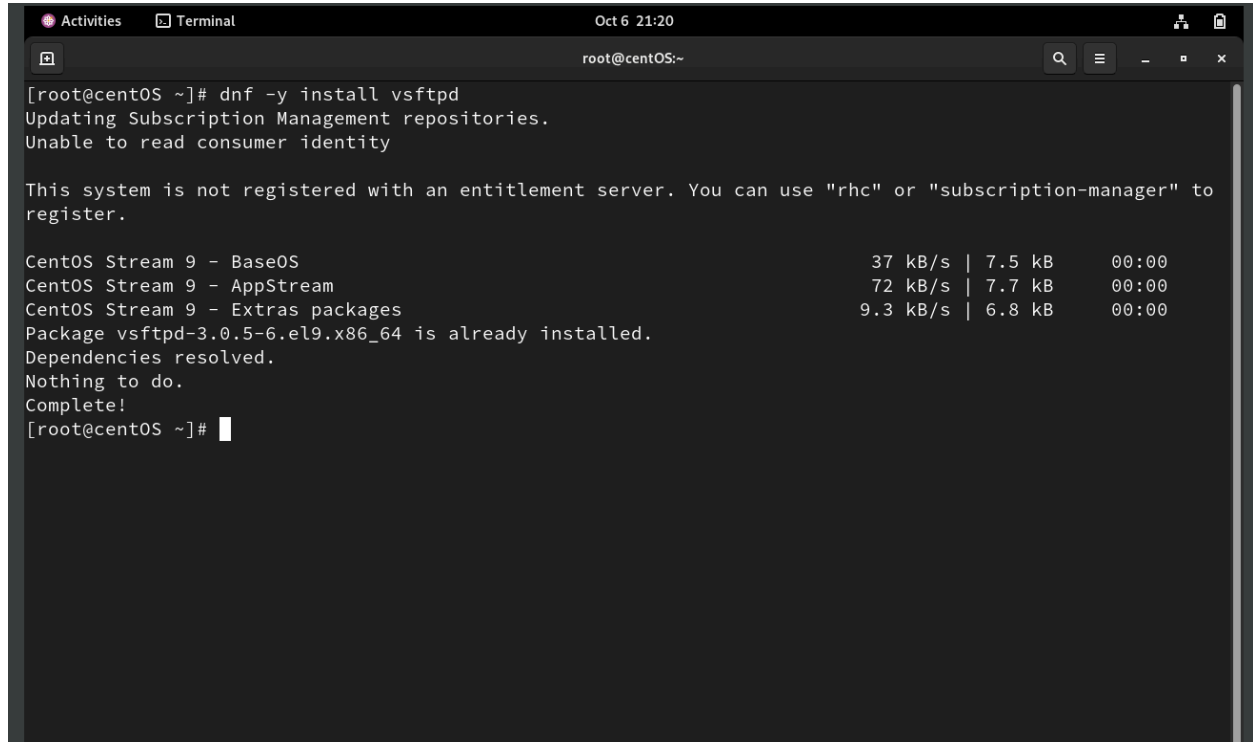


Configuring FTP server

1. Install vsftpd

#dnf -y install vsftpd

A terminal window titled 'Terminal' with a timestamp of 'Oct 6 21:20' and a user prompt 'root@centOS:~'. The terminal shows the command '[root@centOS ~]# dnf -y install vsftpd'. The output includes 'Updating Subscription Management repositories.', 'Unable to read consumer identity', a message about not being registered with an entitlement server, and a progress table for repository updates. The table shows 'CentOS Stream 9 - BaseOS' at 37 kB/s, 'CentOS Stream 9 - AppStream' at 72 kB/s, and 'CentOS Stream 9 - Extras packages' at 9.3 kB/s. The final output states 'Package vsftpd-3.0.5-6.el9.x86_64 is already installed.', 'Dependencies resolved.', 'Nothing to do.', and 'Complete!'. The prompt returns to '[root@centOS ~]#'.

```
[root@centOS ~]# dnf -y install vsftpd
Updating Subscription Management repositories.
Unable to read consumer identity

This system is not registered with an entitlement server. You can use "rhc" or "subscription-manager" to
register.

CentOS Stream 9 - BaseOS                               37 kB/s | 7.5 kB      00:00
CentOS Stream 9 - AppStream                             72 kB/s | 7.7 kB      00:00
CentOS Stream 9 - Extras packages                       9.3 kB/s | 6.8 kB      00:00
Package vsftpd-3.0.5-6.el9.x86_64 is already installed.
Dependencies resolved.
Nothing to do.
Complete!
[root@centOS ~]#
```

2. Configure the file “vsftpd.conf”

#vi /etc/vsftpd/vsftpd.conf

In line 14-17 add below statement

local_enable=YES

userlist_enable=YES

userlist_deny=YES

```

13 #
14 # Uncomment this to allow local users to log in.
15 local_enable=YES
16 userlist_enable=YES
17 userlist_deny=YES
18 #
19 # Uncomment this to enable any form of FTP write command.
20 write_enable=YES
21 #

```

Line no. 84, 85 uncomment it

```

83 # ASCII mangling is a horrible feature of the protocol.
84 ascii_upload_enable=YES
85 ascii_download_enable=YES
86 # You may fully customise the login banner string:
87 #ftpd_banner=Welcome to blah FTP service.

```

Uncomment the line 101,102,104

chroot_local_user=YES

chroot_list_enable=YES

```

101 chroot_local_user=YES
102 chroot_list_enable=YES
103 # (default follows)
104 chroot_list_file=/etc/vsftpd/chroot_list
105 #
106 # You may activate the "-R" option to the builtin ls. This is disabled by

```

Uncomment the line 110

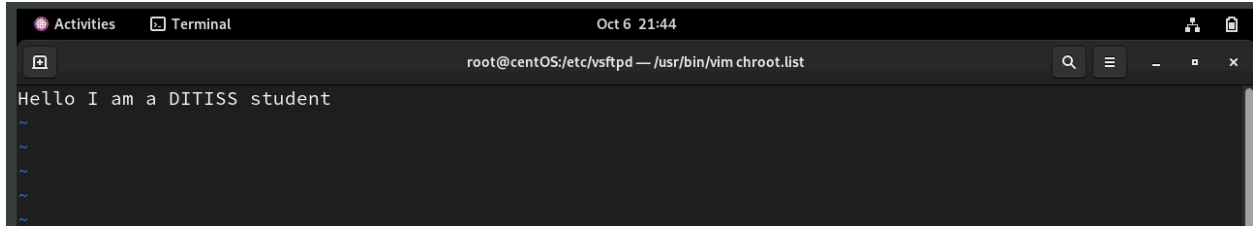
```

109 # the presence of the "-R" option, so there is a strong case for enabling
110 ls_recurse_enable=YES
111 #
112 # When "listen" directive is enabled, vsftpd runs in standalone mode and

```

3. Create /etc/vsftpd/chroot_list file for your ftp server which contain user

#vi chroot_list



A terminal window titled 'Terminal' with a timestamp of 'Oct 6 21:44'. The window shows a vim editor with the file path 'root@centOS:/etc/vsftpd — /usr/bin/vim chroot.list'. The text 'Hello I am a DITISS student' is visible in the editor, followed by several tilde (~) characters representing empty lines.

4. Restart the vsftpd services

#systemctl restart vsftpd

To check the status

#systemctl status vsftpd

```
[root@centOS vsftpd]# systemctl restart vsftpd
[root@centOS vsftpd]# systemctl status vsftpd
● vsftpd.service - Vsftpd ftp daemon
   Loaded: loaded (/usr/lib/systemd/system/vsftpd.service; disabled; preset: disabled)
   Active: active (running) since Sun 2024-10-06 21:45:07 IST; 48s ago
     Process: 2612 ExecStart=/usr/sbin/vsftpd /etc/vsftpd/vsftpd.conf (code=exited, status=0/SUCCESS)
    Main PID: 2613 (vsftpd)
       Tasks: 1 (limit: 23032)
      Memory: 916.0K
         CPU: 13ms
    CGroup: /system.slice/vsftpd.service
            └─2613 /usr/sbin/vsftpd /etc/vsftpd/vsftpd.conf

Oct 06 21:45:07 centOS systemd[1]: Starting Vsftpd ftp daemon...
Oct 06 21:45:07 centOS systemd[1]: Started Vsftpd ftp daemon.
[root@centOS vsftpd]#
```

5. Disable the firewalld services

#systemctl stop firewalld

#systemctl disable firewalld

#systemctl status firewalld

```
[root@centOS vsftpd]# systemctl stop firewalld
[root@centOS vsftpd]# systemctl status firewalld
○ firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; disabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:firewalld(1)
[root@centOS vsftpd]# iptables -F
[root@centOS vsftpd]# systemctl status firewalld
○ firewalld.service - firewalld - dynamic firewall daemon
   Loaded: loaded (/usr/lib/systemd/system/firewalld.service; disabled; preset: disabled)
   Active: inactive (dead)
     Docs: man:firewalld(1)
[root@centOS vsftpd]#
```

Client:

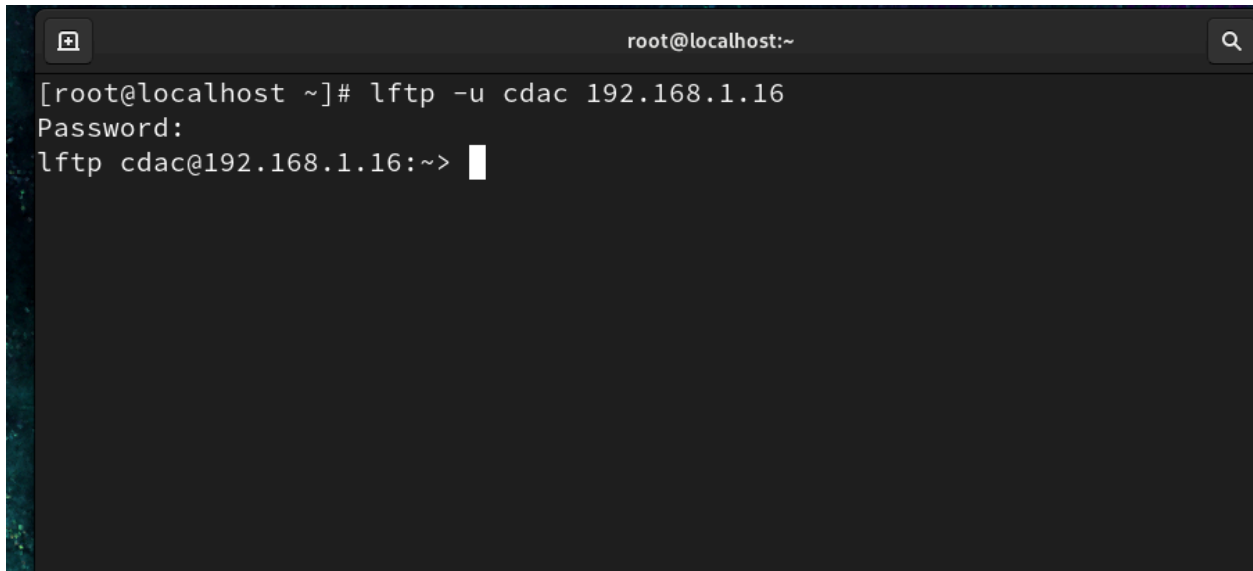
6. Install lftp service in the client

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

To connect the FTP server from the client

```
Lftp -u cdac 192.168.1.16
```

Ip of my server

A terminal window with a dark background and light gray text. The title bar at the top shows 'root@localhost:~' and a search icon on the right. The terminal content shows the command '[root@localhost ~]# lftp -u cdac 192.168.1.16' followed by 'Password:' on the next line. The third line shows the lftp prompt 'lftp cdac@192.168.1.16:~>' with a white cursor block at the end.

```
root@localhost:~  
[root@localhost ~]# lftp -u cdac 192.168.1.16  
Password:  
lftp cdac@192.168.1.16:~> 
```