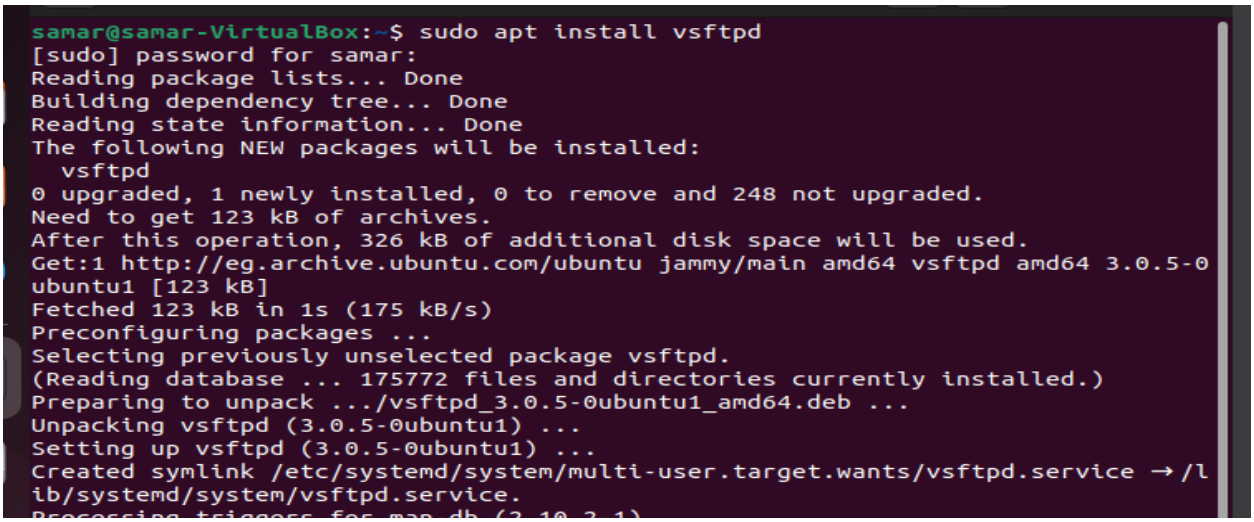
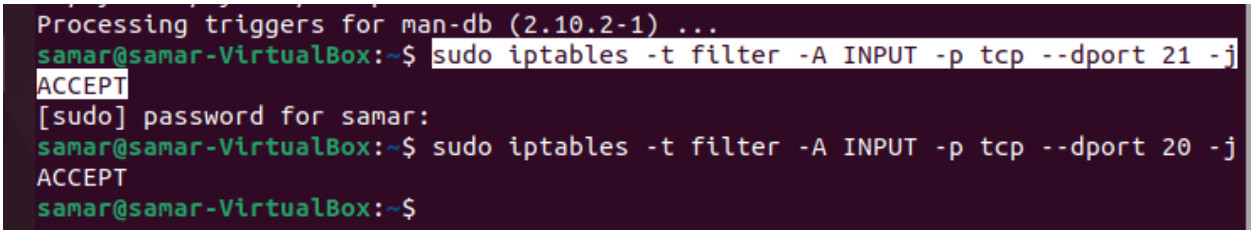
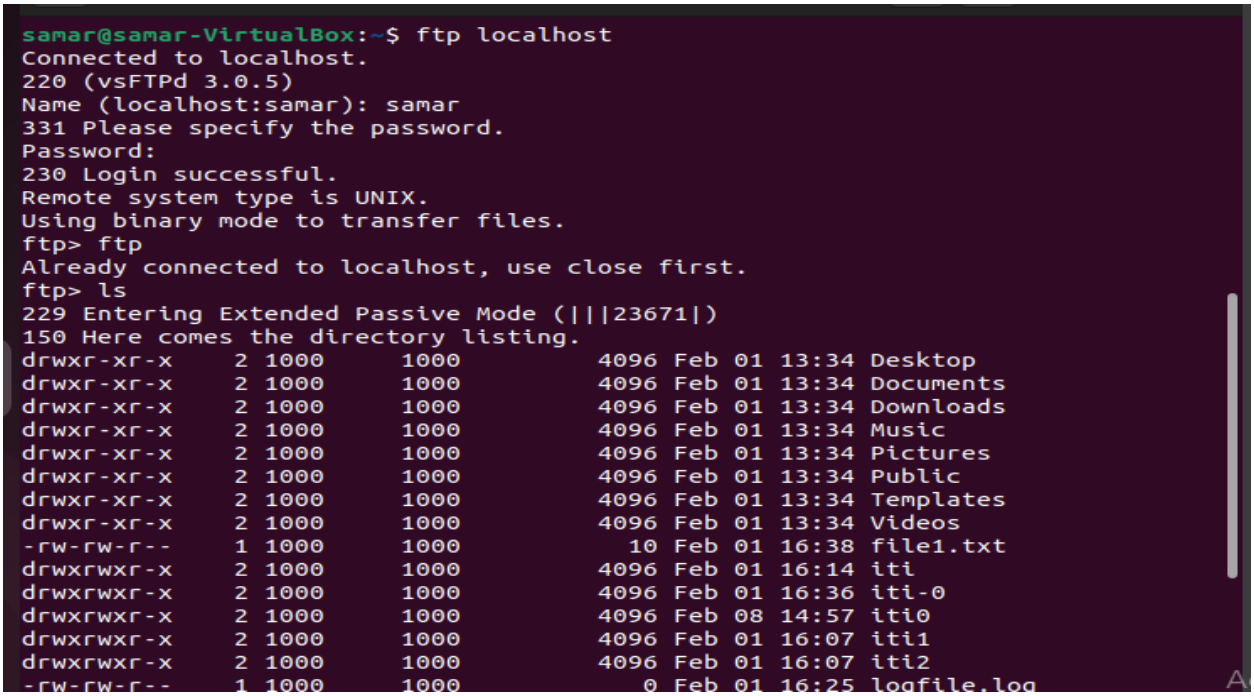
1-Install ftpd service



2-enable port 20 and 21



3-connect to ftp server



4-enable ufw service

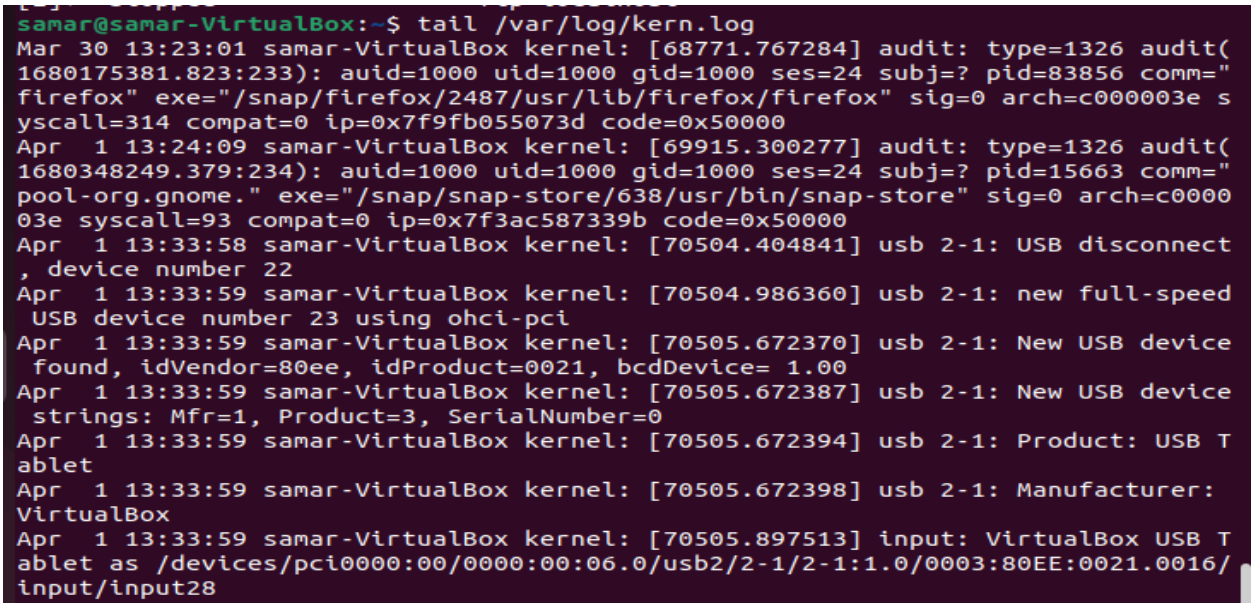
5-block port 20 and 21

```
samar@samar-VirtualBox:~$ sudo ufw enable
Firewall is active and enabled on system startup
samar@samar-VirtualBox:~$ sudo uwf deny 20/tcp
sudo: uwf: command not found
samar@samar-VirtualBox:~$ sudo ufw deny 20/tcp
Rule added
Rule added (v6)
samar@samar-VirtualBox:~$ sudo ufw deny 21/tcp
Rule added
Rule added (v6)
samar@samar-VirtualBox:~$
```

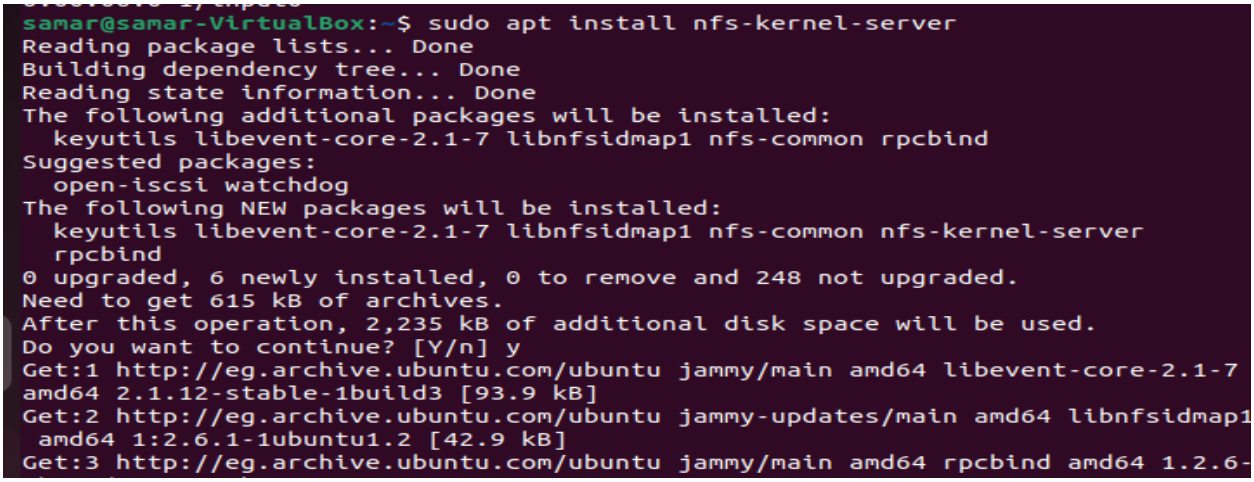
6-try to connect to ftp service

```
samar@samar-VirtualBox:~$ ftp localhost
Connected to localhost.
220 (vsFTPd 3.0.5)
Name (localhost:samar): samar
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||50218|)
150 Here comes the directory listing.
drwxr-xr-x    2 1000     1000         4096 Feb 01 13:34 Desktop
drwxr-xr-x    2 1000     1000         4096 Feb 01 13:34 Documents
drwxr-xr-x    2 1000     1000         4096 Feb 01 13:34 Downloads
drwxr-xr-x    2 1000     1000         4096 Feb 01 13:34 Music
drwxr-xr-x    2 1000     1000         4096 Feb 01 13:34 Pictures
drwxr-xr-x    2 1000     1000         4096 Feb 01 13:34 Public
drwxr-xr-x    2 1000     1000         4096 Feb 01 13:34 Templates
drwxr-xr-x    2 1000     1000         4096 Feb 01 13:34 Videos
-rw-rw-r--    1 1000     1000           10 Feb 01 16:38 file1.txt
drwxrwxr-x    2 1000     1000         4096 Feb 01 16:14 iti
drwxrwxr-x    2 1000     1000         4096 Feb 01 16:36 iti-0
drwxrwxr-x    2 1000     1000         4096 Feb 08 14:57 iti0
drwxrwxr-x    2 1000     1000         4096 Feb 01 16:07 iti1
drwxrwxr-x    2 1000     1000         4096 Feb 01 16:07 iti2
-rw-rw-r--    1 1000     1000            0 Feb 01 16:25 logfile.log
drwxrwxr-x    2 1000     1000         4096 Feb 12 23:11 mydir1
drwxrwxr-x    2 1000     1000         4096 Feb 12 23:11 mydir2
```

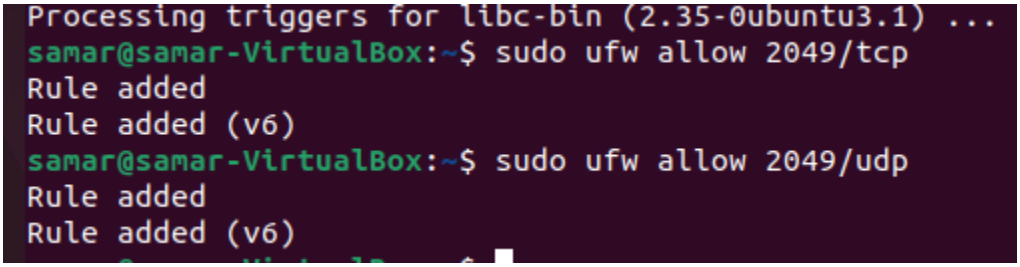
7-capture the ufw log to detect the blocked operation



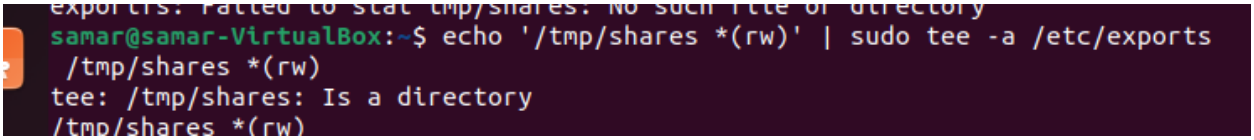
8-install nfs service



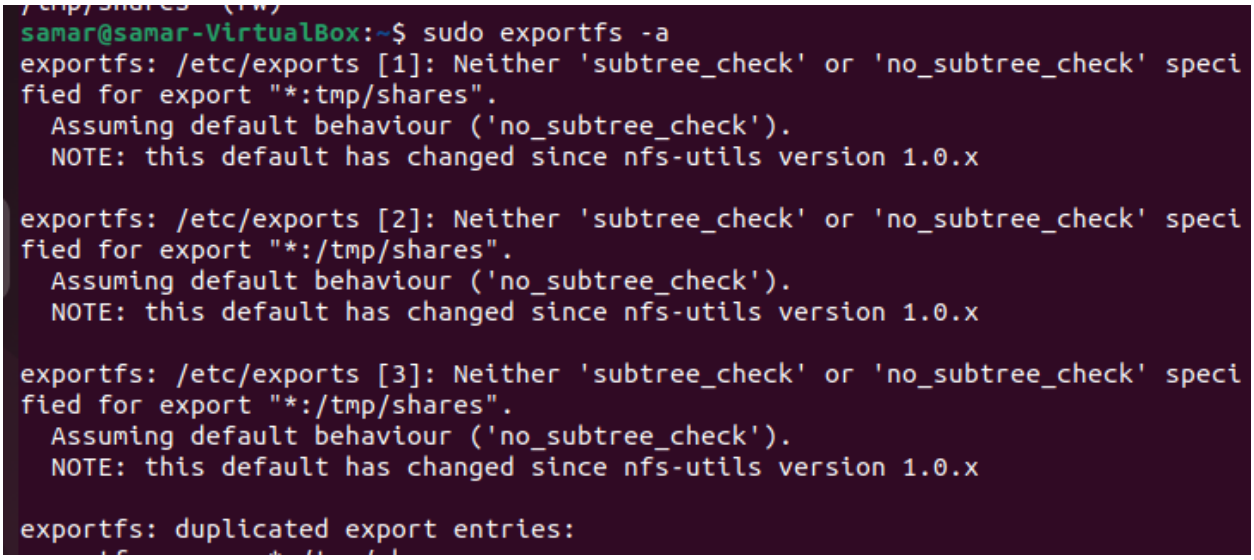
9-enable nfs service on the firewall



10-create and share /tmp/shares folder using exportfs command and /etc/exportfs file

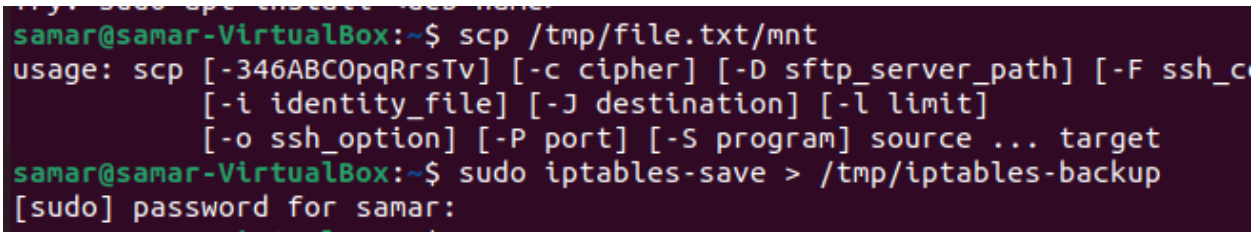


11-Mount the remote share on /mnt folder



12-Copy some files to the remote share

13-and save iptablesvrules to /tmp/iptables-backup file



```
1 # Generated by iptables-save v1.8.7 on Tue Apr 11 16:22:34 2023
2 *filter
3 :INPUT DROP [0:0]
4 :FORWARD DROP [0:0]
5 :OUTPUT ACCEPT [0:0]
6 :ufw-after-forward - [0:0]
7 :ufw-after-input - [0:0]
8 :ufw-after-logging-forward - [0:0]
9 :ufw-after-logging-input - [0:0]
10 :ufw-after-logging-output - [0:0]
11 :ufw-after-output - [0:0]
12 :ufw-before-forward - [0:0]
13 :ufw-before-input - [0:0]
14 :ufw-before-logging-forward - [0:0]
15 :ufw-before-logging-input - [0:0]
16 :ufw-before-logging-output - [0:0]
17 :ufw-before-output - [0:0]
18 :ufw-logging-allow - [0:0]
19 :ufw-logging-deny - [0:0]
20 :ufw-not-local - [0:0]
21 :ufw-reject-forward - [0:0]
22 :ufw-reject-input - [0:0]
23 :ufw-reject-output - [0:0]
24 :ufw-skip-to-policy-forward - [0:0]
25 :ufw-skip-to-policy-input - [0:0]
26 :ufw-skip-to-policy-output - [0:0]
27 :ufw-track-forward - [0:0]
28 :ufw-track-input - [0:0]
```