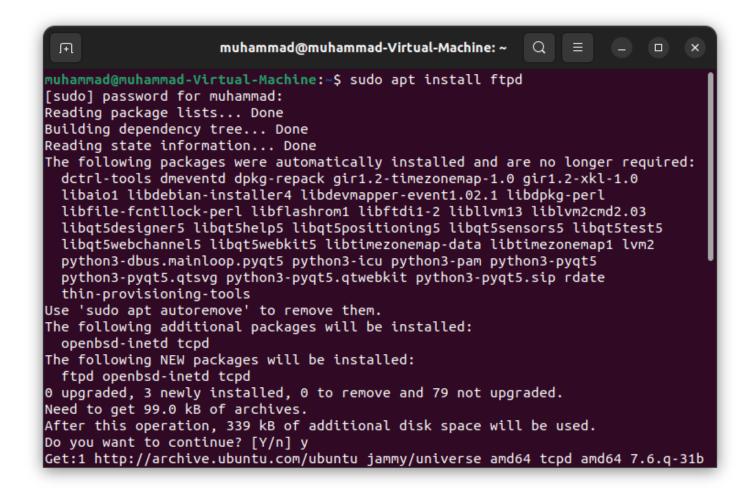
• Install ftpd service on your laptop

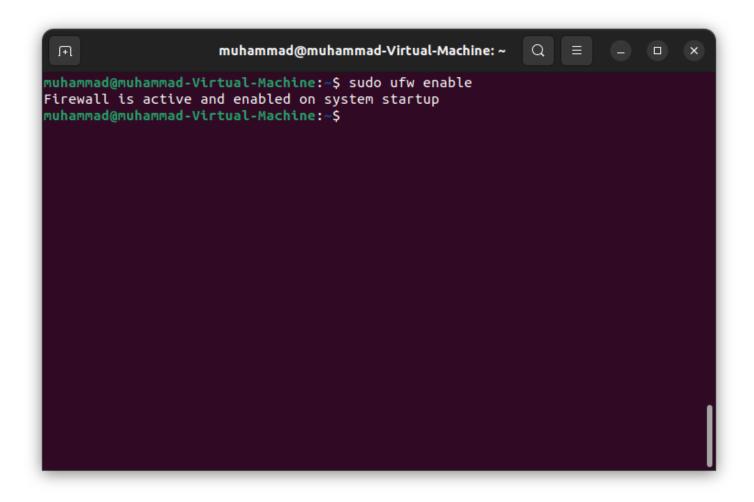


• enable port 21 and 20 (tcp) using iptables command using INPUT chain

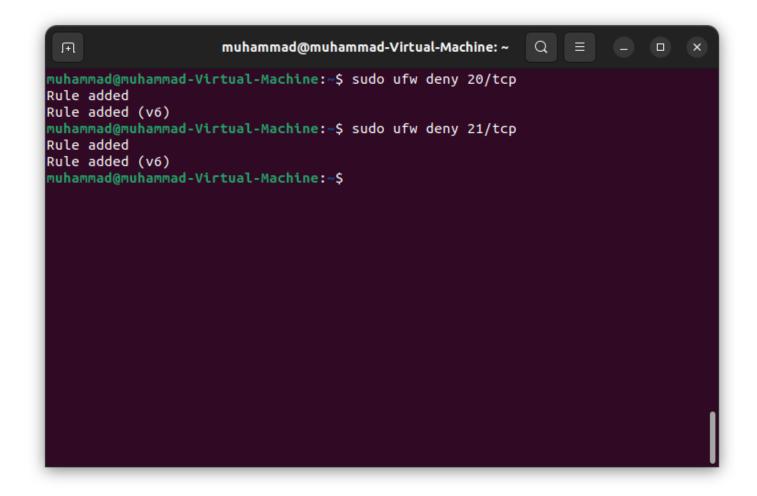
• connect to ftp server (e.g. localhost) and browse the current directory

```
muhammad@muhammad-Virtual-Machine: ~
                                                        Q
                                                              ≡
                                                                       ſŦ
muhammad@muhammad-Virtual-Machine:~$ ftp localhost
Connected to localhost.
220 muhammad-Virtual-Machine FTP server (Version 6.4/OpenBSD/Linux-ftpd-0.17) re
ady.
Name (localhost:muhammad):
331 Password required for muhammad.
Password:
230 User muhammad logged in.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Extended Passive Mode OK (|||45661|)
150 Opening ASCII mode data connection for '/bin/ls'.
total 140
-rw------ 1 muhammad muhammad 3428 Apr 1 09:04 .bash_history
-rw-r--r- 1 muhammad muhammad 220 Mar 1 09:47 .bash logout
-rw-r--r- 1 muhammad muhammad 3771 Mar 1 09:47 .bashrc
drwx----- 13 muhammad muhammad 4096 Mar 1 11:29 .cache
drwx----- 11 muhammad muhammad 4096 Mar 1 11:03 .config
drwxr-xr-x 2 muhammad muhammad 4096 Mar 1 10:13 Desktop
drwxr-xr-x 2 muhammad muhammad 4096 Mar 1 10:13 Documents
drwxr-xr-x 2 muhammad muhammad 4096 Mar 1 10:13 Downloads
```

• enable ufw service



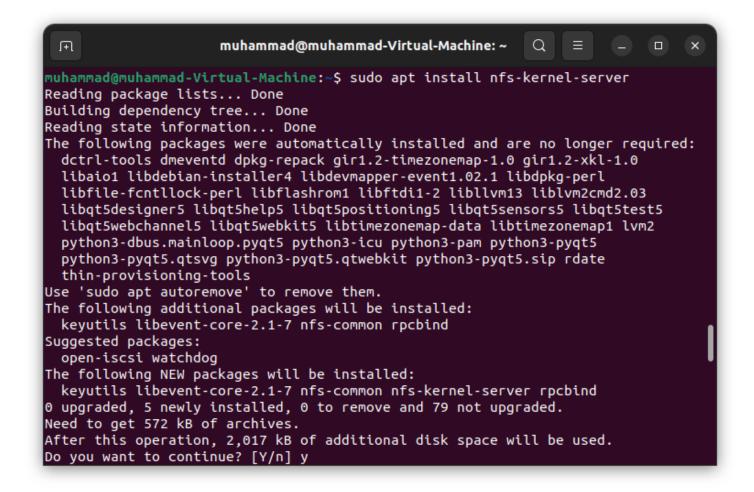
• block port 20 and 21 (tcp) using ufw



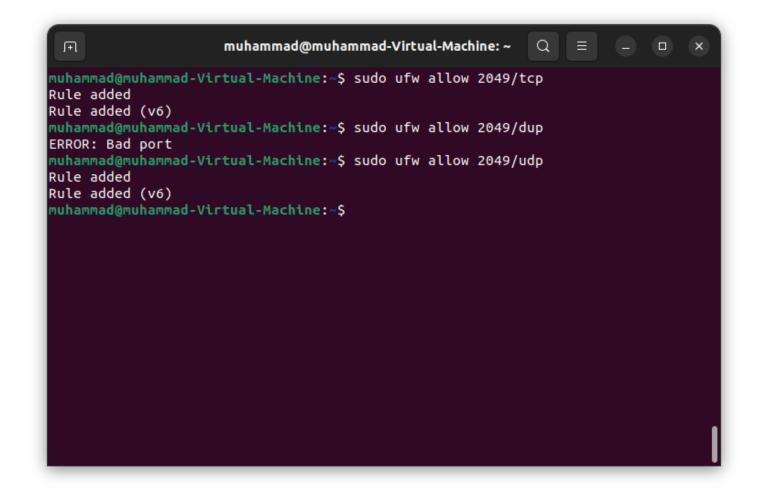
• capture the ufw log to detect the blocked operation

```
ſŦ
                     muhammad@muhammad-Virtual-Machine: ~
                                                           Q
                                                                         muhammad@muhammad-Virtual-Machine:~$ tail /var/log/kern.log
     5 10:26:25 muhammad-Virtual-Machine kernel: [
                                                    49.972493] audit: type=1400
 audit(1680704785.794:49): apparmor="DENIED" operation="capable" profile="/snap/
snapd/18596/usr/lib/snapd/snap-confine" pid=798 comm="snap-confine" capability=1
   capname="net admin"
    5 10:26:25 muhammad-Virtual-Machine kernel: [
                                                   49.973348] audit: type=1400
Арг
 audit(1680704785.794:50): apparmor="DENIED" operation="capable" profile="/snap/
snapd/18596/usr/lib/snapd/snap-confine" pid=798 comm="snap-confine" capability=3
  capname="perfmon"
Apr 5 10:26:45 muhammad-Virtual-Machine kernel: [
                                                    68.391508] rfkill: input ha
ndler disabled
Apr 5 10:28:38 muhammad-Virtual-Machine kernel: [ 180.542313] audit: type=1326
 audit(1680704918.117:51): auid=1000 uid=1000 gid=1000 ses=2 subj=snap.snapd-des
ktop-integration.snapd-desktop-integration pid=1547 comm="snapd-desktop-i" exe="
/snap/snapd-desktop-integration/57/usr/bin/snapd-desktop-integration" sig=0 arch
=c000003e syscall=314 compat=0 ip=0x7faa2132aa3d code=0x50000
     5 10:28:44 muhammad-Virtual-Machine kernel: [ 186.793212] audit: type=1326
audit(1680704924.369:52): auid=1000 uid=1000 gid=1000 ses=2 subj=snap.snapd-des
ktop-integration.snapd-desktop-integration pid=1827 comm="snapd-desktop-i" exe="
/snap/snapd-desktop-integration/57/usr/bin/snapd-desktop-integration" sig=0 arch
=c000003e syscall=314 compat=0 ip=0x7fc112a20a3d code=0x50000
Apr 5 10:31:56 muhammad-Virtual-Machine kernel: [ 378.457438] loop16: detected
capacity change from 0 to 149488
Apr 5 10:33:47 muhammad-Virtual-Machine kernel: [ 490.181033] loop17: detected
```

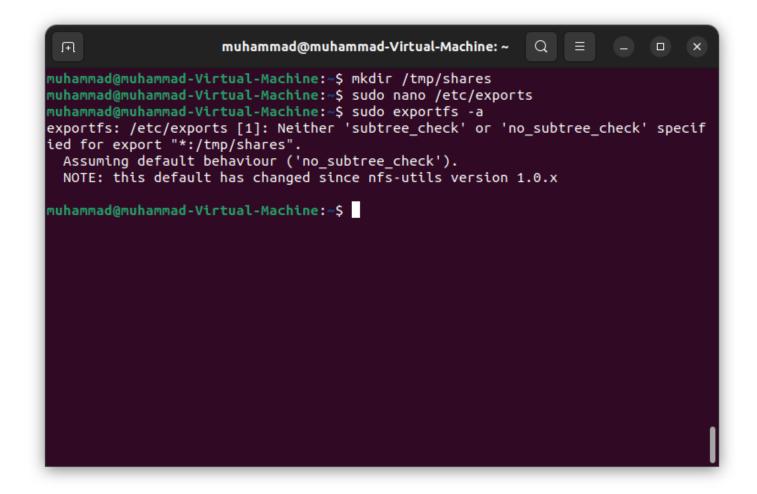
• install nfs service on your system

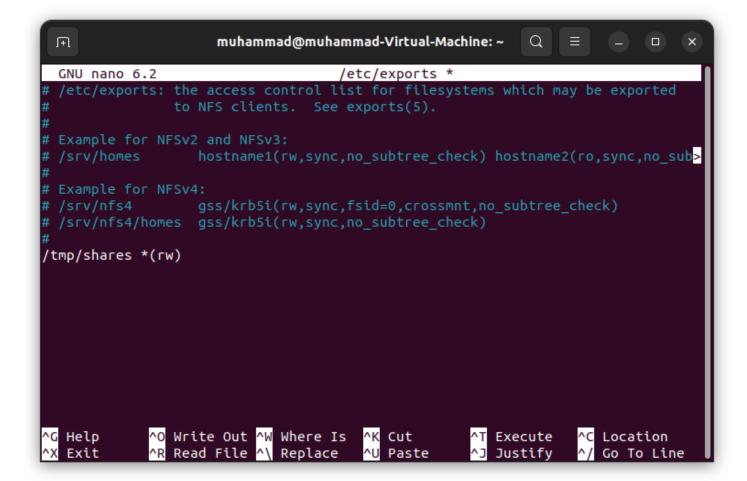


• enable nfs service on the firewall

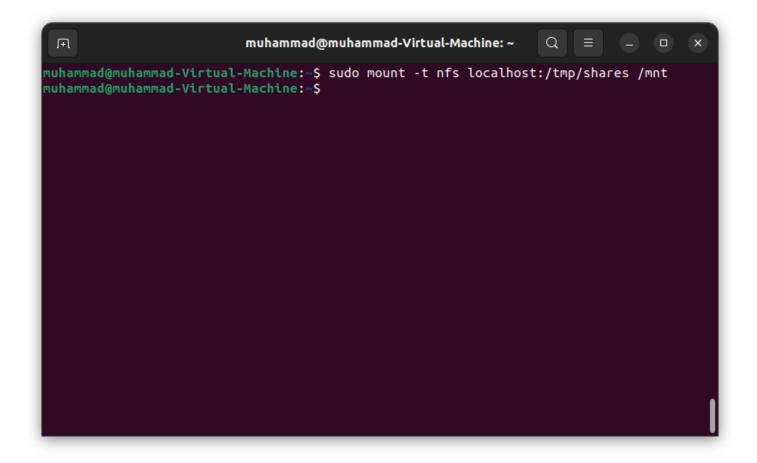


• create and share /tmp/shares folder using exportfs command and /etc/exports file

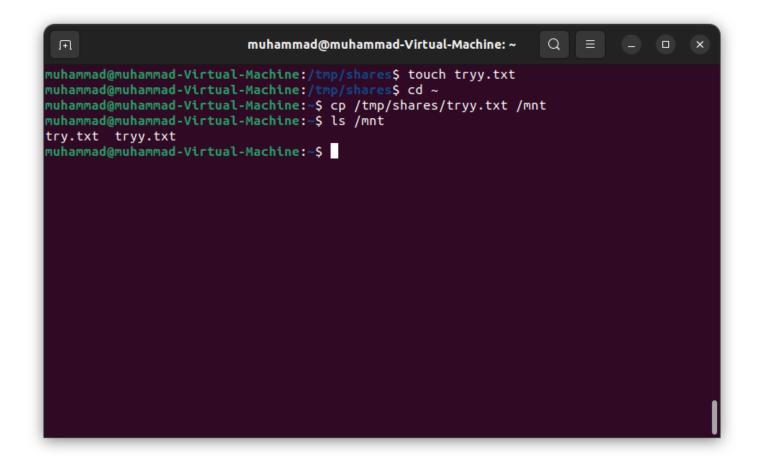




• mount the remote share on /mnt folder (you can using localhost as well)



• copy some files to the remote share



• save iptables rules to /tmp/iptables-backup file

```
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                            muhammad@muhammad-Virtual-Machine: ~
                                                                      Q
                                                                                      muhammad@muhammad-Virtual-Machine:~$ sudo iptables-save > /tmp/iptables-backup
muhammad@muhammad-Virtual-Machine:~$ cat /tmp/iptables-backup
# Generated by iptables-save v1.8.7 on Wed Apr 5 11:32:44 2023
*filter
:INPUT DROP [0:0]
:FORWARD DROP [0:0]
:OUTPUT ACCEPT [0:0]
:ufw-after-forward - [0:0]
:ufw-after-input - [0:0]
:ufw-after-logging-forward - [0:0]
:ufw-after-logging-input - [0:0]
:ufw-after-logging-output - [0:0]
:ufw-after-output - [0:0]
:ufw-before-forward - [0:0]
:ufw-before-input - [0:0]
:ufw-before-logging-forward - [0:0]
:ufw-before-logging-input - [0:0]
:ufw-before-logging-output - [0:0]
:ufw-before-output - [0:0]
:ufw-logging-allow - [0:0]
:ufw-logging-deny - [0:0]
:ufw-not-local - [0:0]
```