

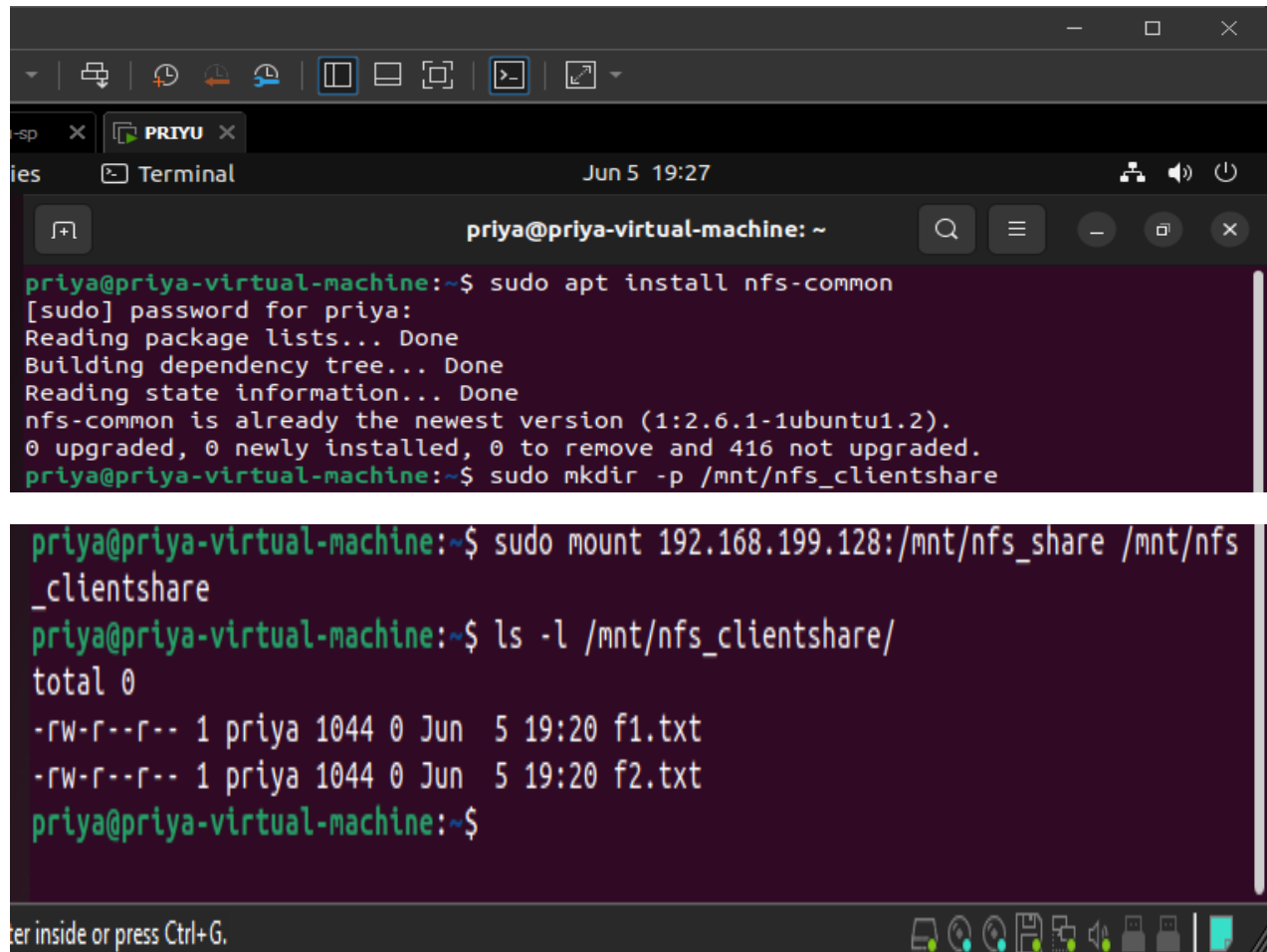
Network file system

NFS (Network File System) is a protocol that allows you to share files and directories over a network between Linux/Unix systems — so one system can access files from another as if they were local.

Ubuntu1 server machine

```
1 sudo apt install nfs-kernel-server -y
2 sudo mkdir -p /mnt/nfs_share
3 sudo chown -R nobody:nogroup /mnt/nfs_share
4 sudo chmod 777 /mnt/nfs_share/
5 sudo nano /etc/exports
6 sudo exportfs -a
7 sudo systemctl restart nfs-kernel-server
8 sudo systemctl enable nfs-kernel-server
9 sudo ufw allow from 192.168.199.0/24 to any port nfs
10 cd /mnt/nfs_share/
11 touch f1.txt f2.txt
```

Ubuntu2 client machine



```
priya@priya-virtual-machine: ~  
priya@priya-virtual-machine:~$ sudo apt install nfs-common  
[sudo] password for priya:  
Reading package lists... Done  
Building dependency tree... Done  
Reading state information... Done  
nfs-common is already the newest version (1:2.6.1-1ubuntu1.2).  
0 upgraded, 0 newly installed, 0 to remove and 416 not upgraded.  
priya@priya-virtual-machine:~$ sudo mkdir -p /mnt/nfs_clientshare  
  
priya@priya-virtual-machine:~$ sudo mount 192.168.199.128:/mnt/nfs_share /mnt/nfs_clientshare  
priya@priya-virtual-machine:~$ ls -l /mnt/nfs_clientshare/  
total 0  
-rw-r--r-- 1 priya 1044 0 Jun  5 19:20 f1.txt  
-rw-r--r-- 1 priya 1044 0 Jun  5 19:20 f2.txt  
priya@priya-virtual-machine:~$
```

Role	System	Action
NFS Server	Ubuntu1	Shares folder using <code>/etc/exports</code>
NFS Client	Ubuntu2	Mounts shared folder using <code>mount</code> command
Access Files	Ubuntu2	Reads/writes files in that folder like normal