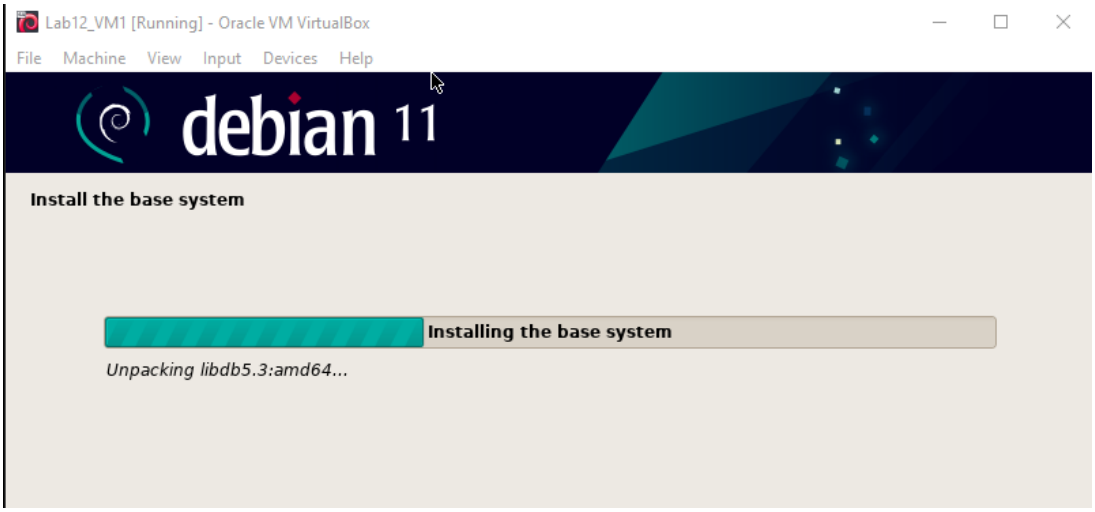
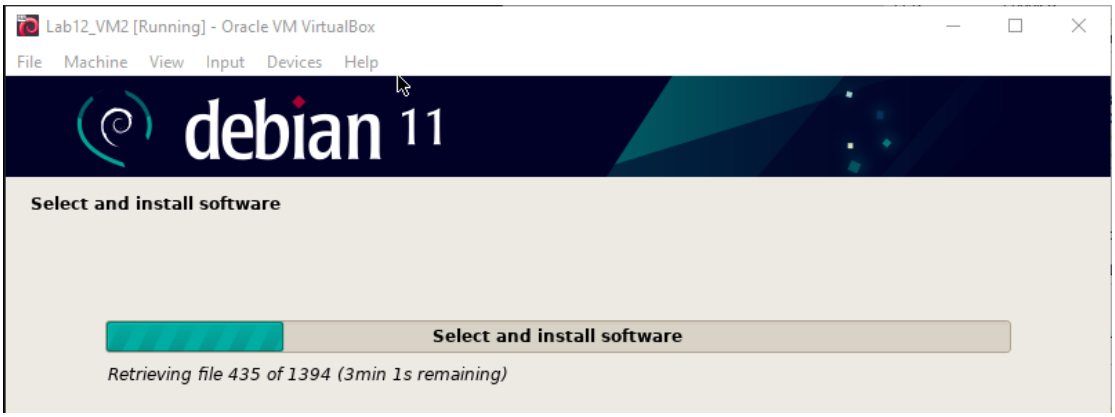
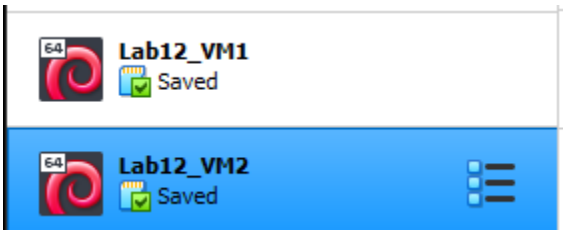
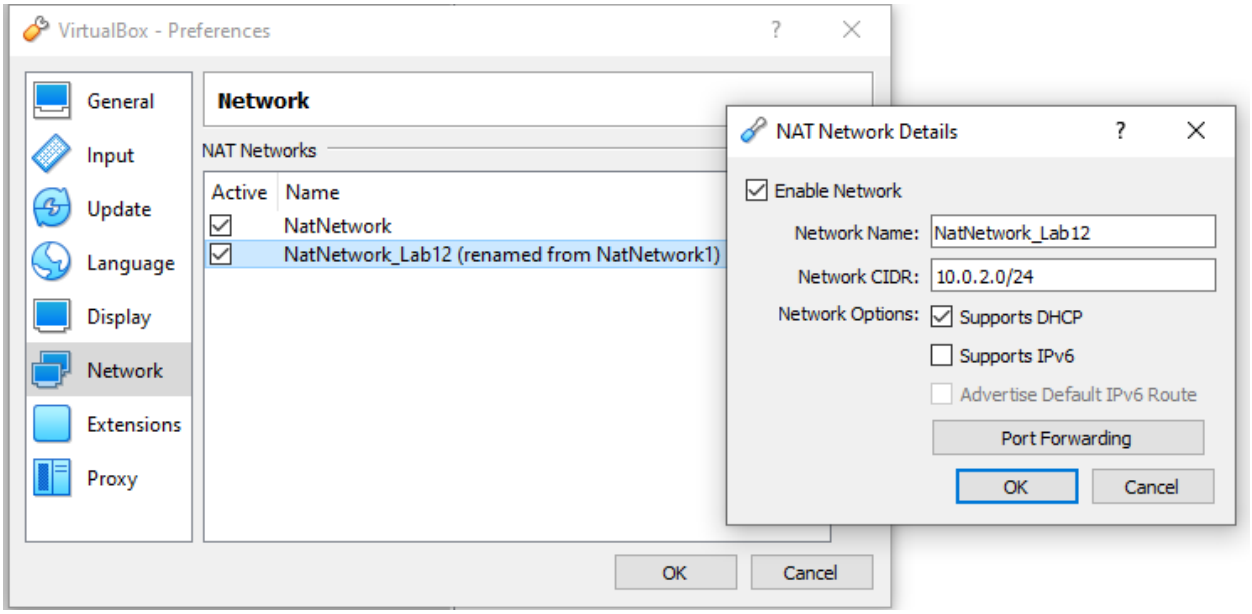
Prerequisites

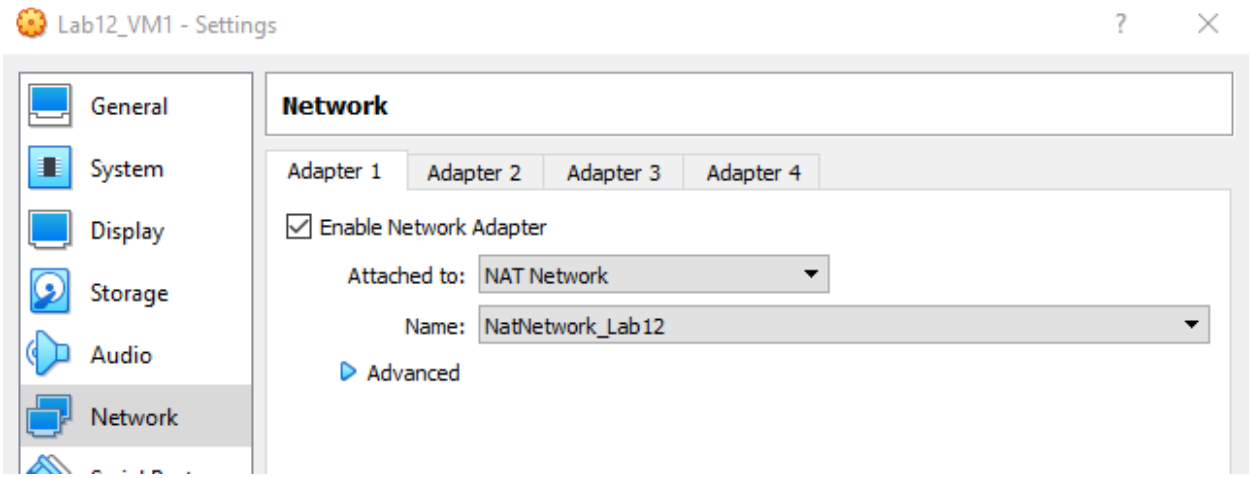
1) Creating new virtual machines with graphical user interface

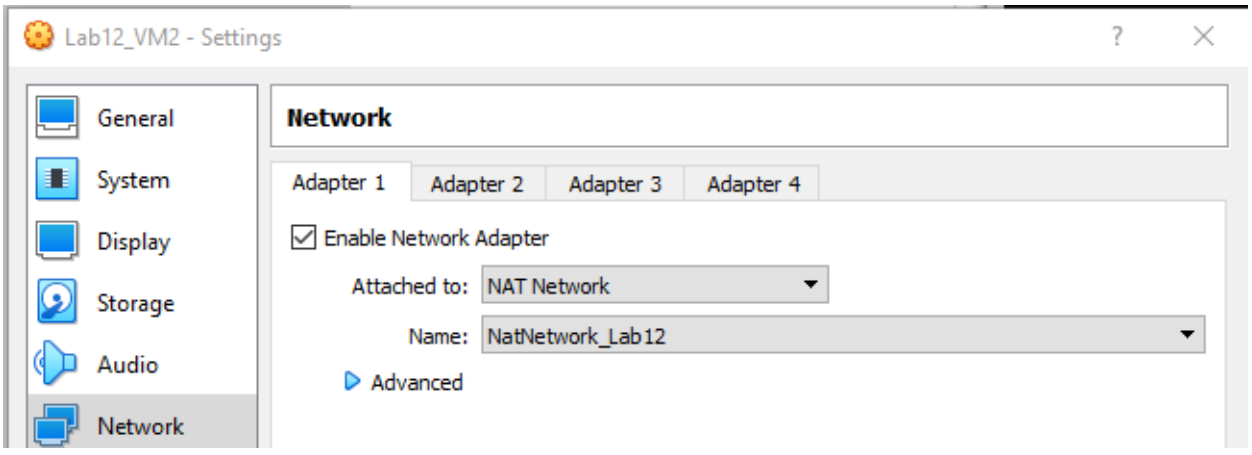






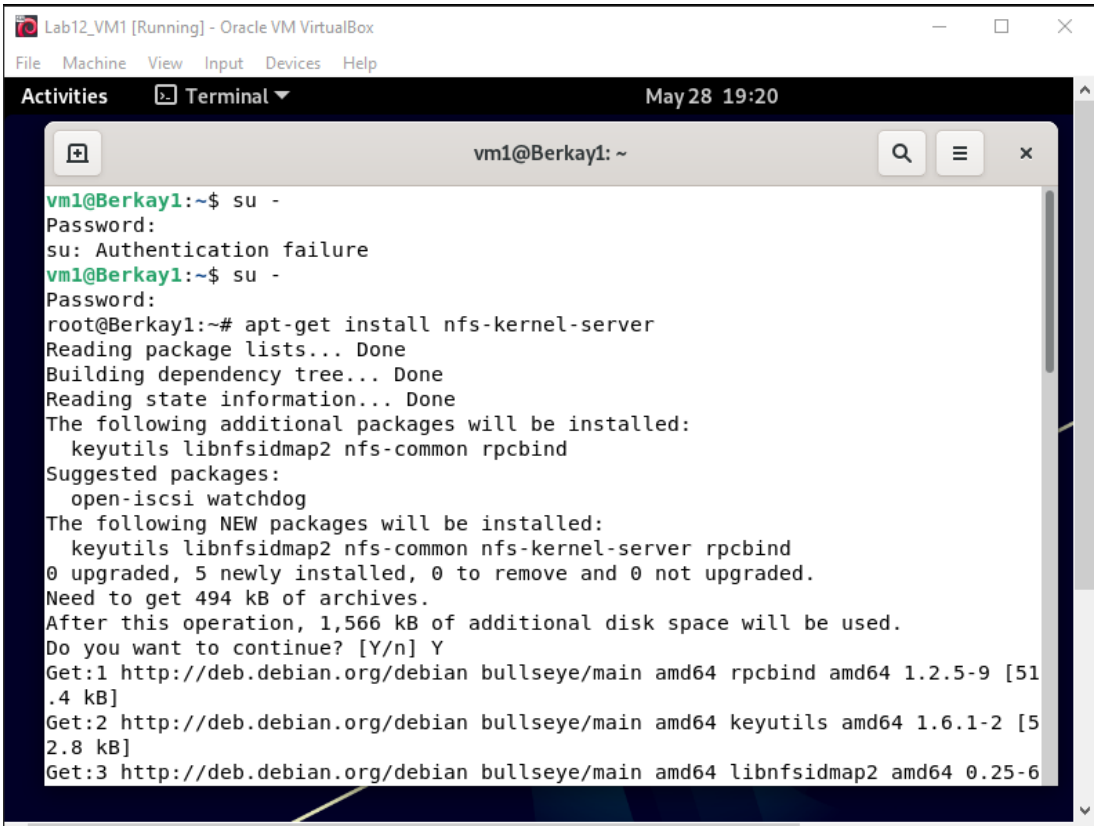

VirtualBox - Preferences
General
Input
Update
Language
Display
Network
Extensions
Proxy
Network
NAT Networks
Active
Name
NatNetwork
NatNetwork_Lab12 (renamed from NatNetwork1)
OK
Cancel
NAT Network Details
Enable Network
Network Name:
NatNetwork_Lab12
Network CIDR:
10.0.2.0/24
Network Options:
Supports DHCP
Supports IPv6
Advertise Default IPv6 Route
Port Forwarding
OK
Cancel


Lab12_VM1 - Settings
General
System
Display
Storage
Audio
Network
Network
Adapter 1
Adapter 2
Adapter 3
Adapter 4
Enable Network Adapter
Attached to:
NAT Network
Name:
NatNetwork_Lab12
Advanced


Lab12_VM2 - Settings
General
System
Display
Storage
Audio
Network
Network
Adapter 1
Adapter 2
Adapter 3
Adapter 4
Enable Network Adapter
Attached to:
NAT Network
Name:
NatNetwork_Lab12
Advanced

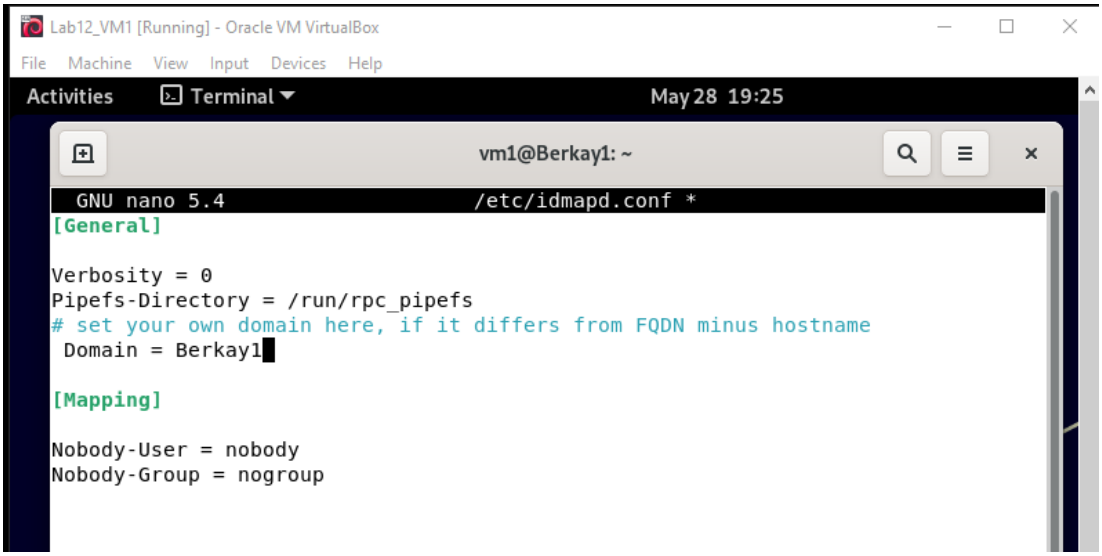
NFS

1) Apt-get install nfs-kernel-server



2) Domain configuration

Nano /etc/idmapd.conf

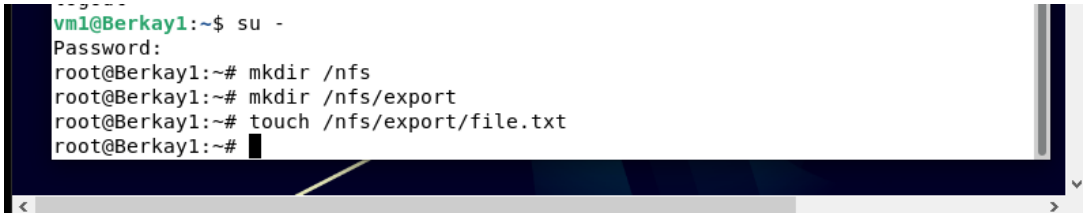


3) Create the following folders and file:

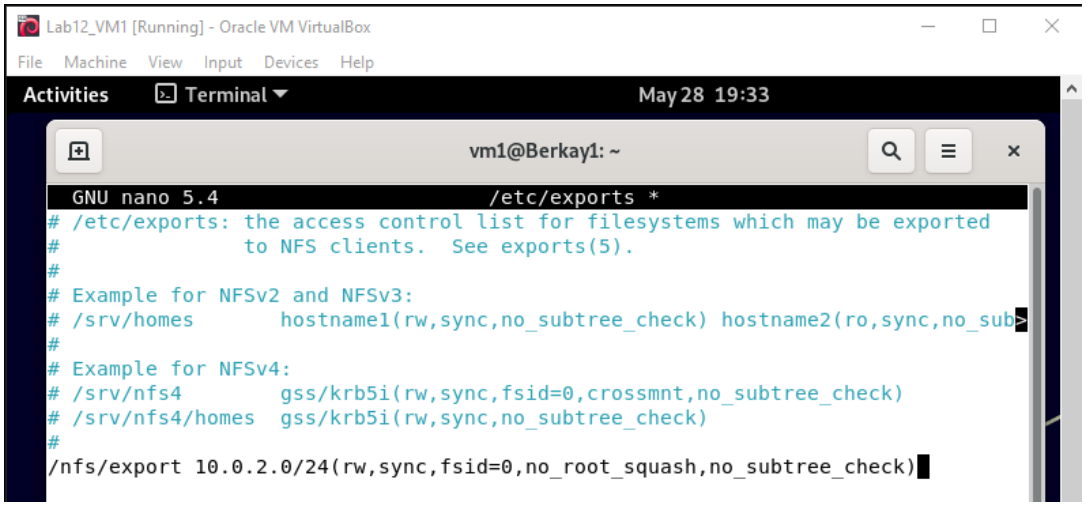
mkdir /nfs

mkdir /nfs/export

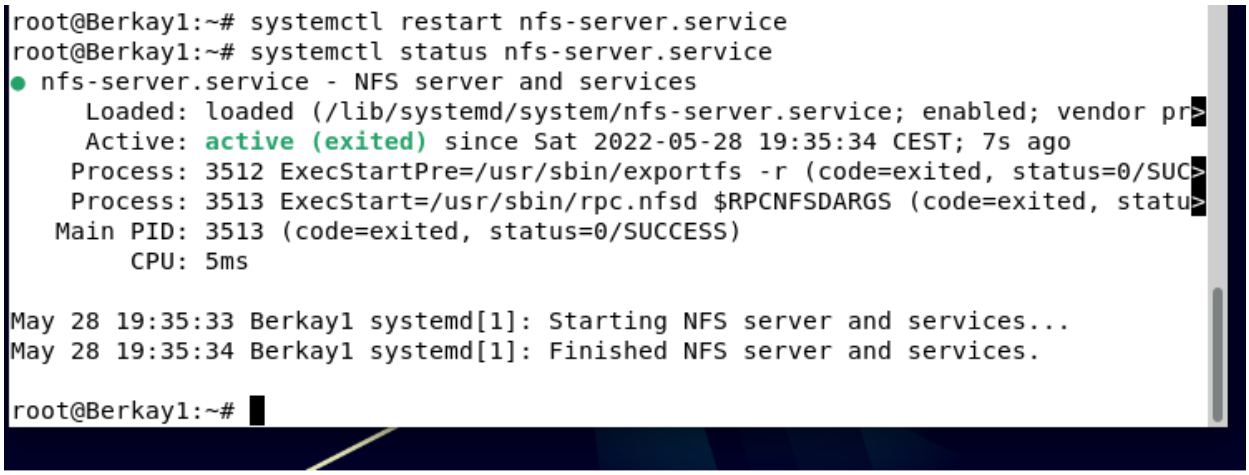
touch /nfs/export/file.txt



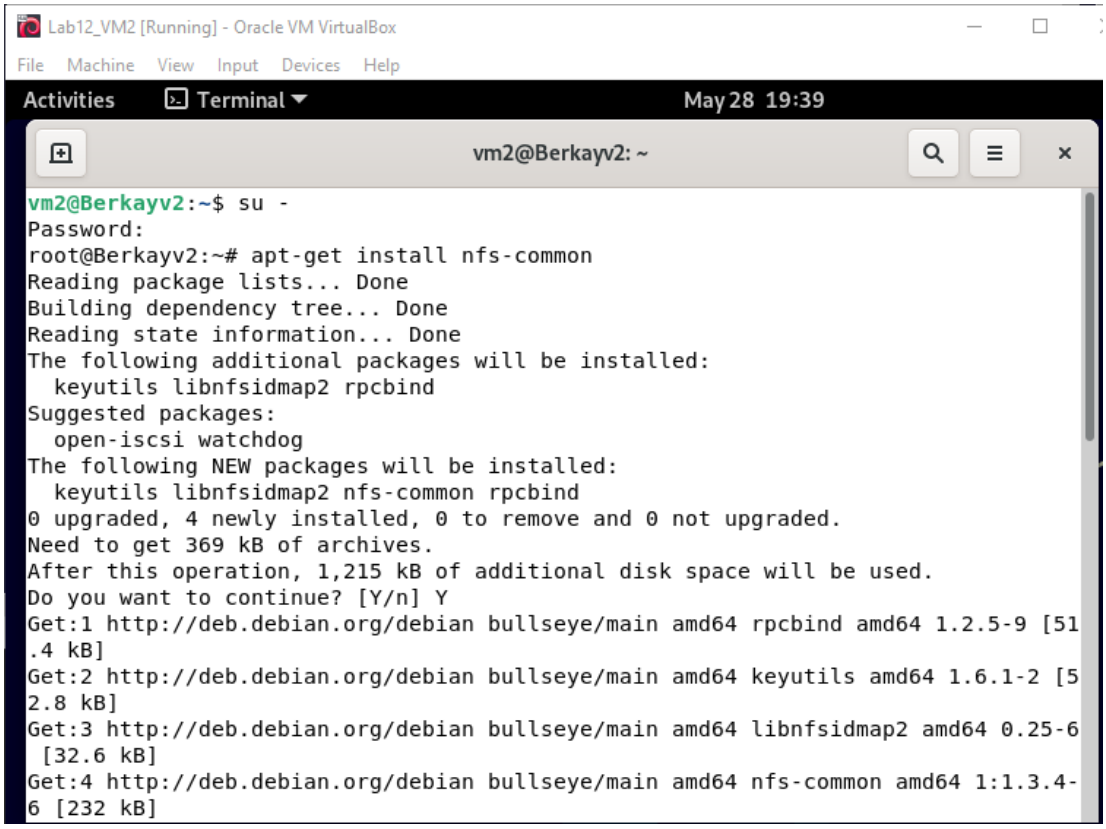
4) NFS configuration:



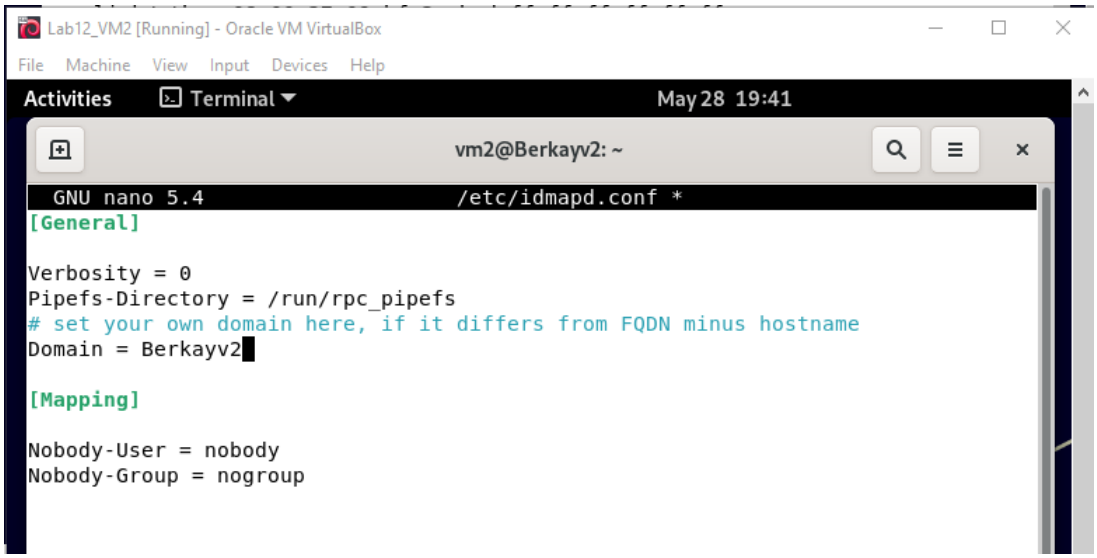
5) Restart the service:



6) On VM2 install the required package: apt-get install nfs-common



7) Domain configuration a. nano /etc/idmapd.conf



8) Create following folders: a. mkdir /nfs b. mkdir /nfs/import

```
root@Berkayv2:~# mkdir /nfs
root@Berkayv2:~# mkdir /nfs/import
root@Berkayv2:~#
```

9) Mount the export directory from VM1 on VM2 in the import directory (enter the correct ip):

ip of the vm1: 10.0.2.4

```
root@Berkay1:~# ip ad
1: lo: <LOOPBACK,UP,L
t qlen 1000
    link/loopback 00:
    inet 127.0.0.1/8
       valid_lft fore
    inet6 ::1/128 sco
       valid_lft fore
2: enp0s3: <BROADCAST
group default qlen 10
    link/ether 08:00:
    inet 10.0.2.4/24
       valid_lft 491s
    inet6 fe80::a00:2
       valid_lft fore
root@Berkay1:~#
```

```
root@Berkayv2:~# mount -t nfs 10.0.2.4:/nfs/export /nfs/import
root@Berkayv2:~#
```

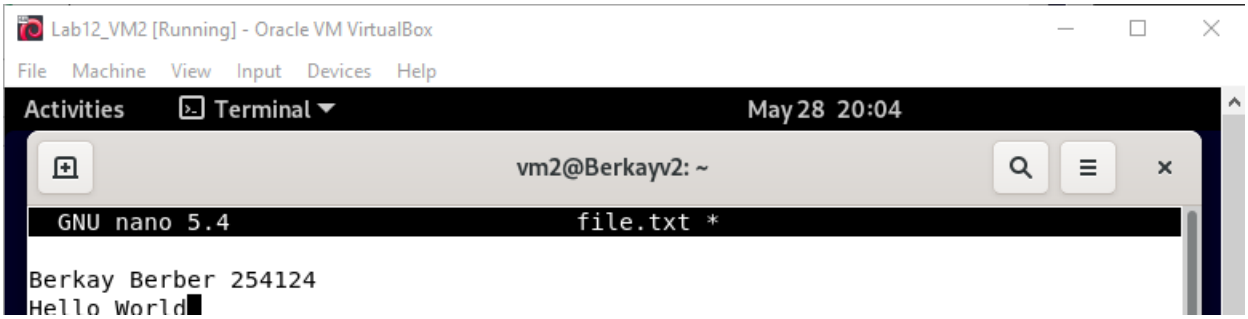
10) Check if the directory has been mounted: df -h

```
root@Berkayv2:~# df -h
Filesystem            Size  Used Avail Use% Mounted on
udev                  1.9G     0  1.9G   0% /dev
tmpfs                 392M  1.2M  391M   1% /run
/dev/sda2             6.4G  4.4G  1.7G  72% /
tmpfs                 2.0G     0  2.0G   0% /dev/shm
tmpfs                 5.0M  4.0K  5.0M   1% /run/lock
/dev/sda1             511M  3.5M  508M   1% /boot/efi
tmpfs                 392M  136K  392M   1% /run/user/1000
10.0.2.4:/nfs/export   30G  4.4G   25G  16% /nfs/import
root@Berkayv2:~#
```

11)

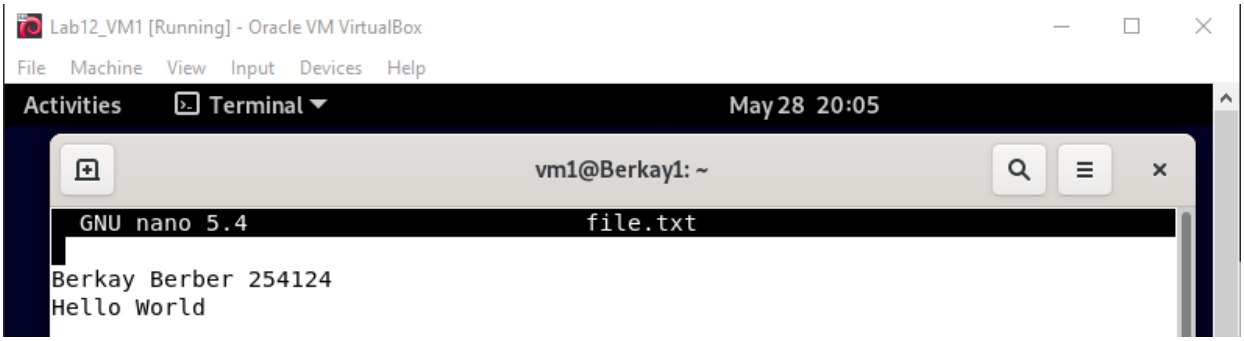
```
root@Berkayv2:~# cd /nfs/import
root@Berkayv2:/nfs/import# ls
file.txt
root@Berkayv2:/nfs/import# ls -l
total 0
-rw-r--r-- 1 root root 0 May 28 19:29 file.txt
root@Berkayv2:/nfs/import#
```

Editing content of the file.txt file:



Checking the edited content file.txt on vm1 if the same:

```
root@Berkay1:~# ls
root@Berkay1:~# cd /nfs/export
root@Berkay1:/nfs/export# ls
file.txt
root@Berkay1:/nfs/export# nano file.txt
root@Berkay1:/nfs/export#
```



Creating newfile.txt file on vm2:

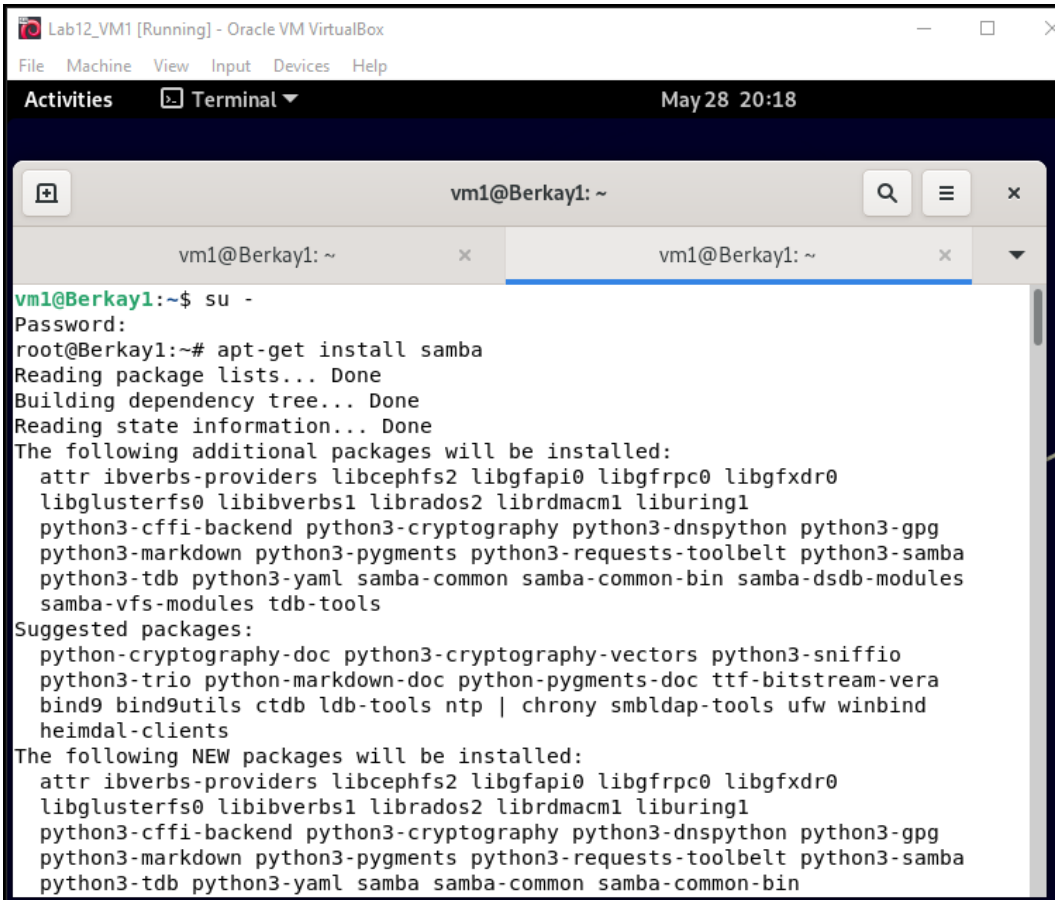
```
root@Berkayv2:/nfs/import# touch newfile.txt
root@Berkayv2:/nfs/import# ls
file.txt  newfile.txt
root@Berkayv2:/nfs/import#
```

And checking if the created file present in vm1:

```
root@Berkay1:/nfs/export# ls
file.txt  newfile.txt
root@Berkay1:/nfs/export#
```

SAMBA

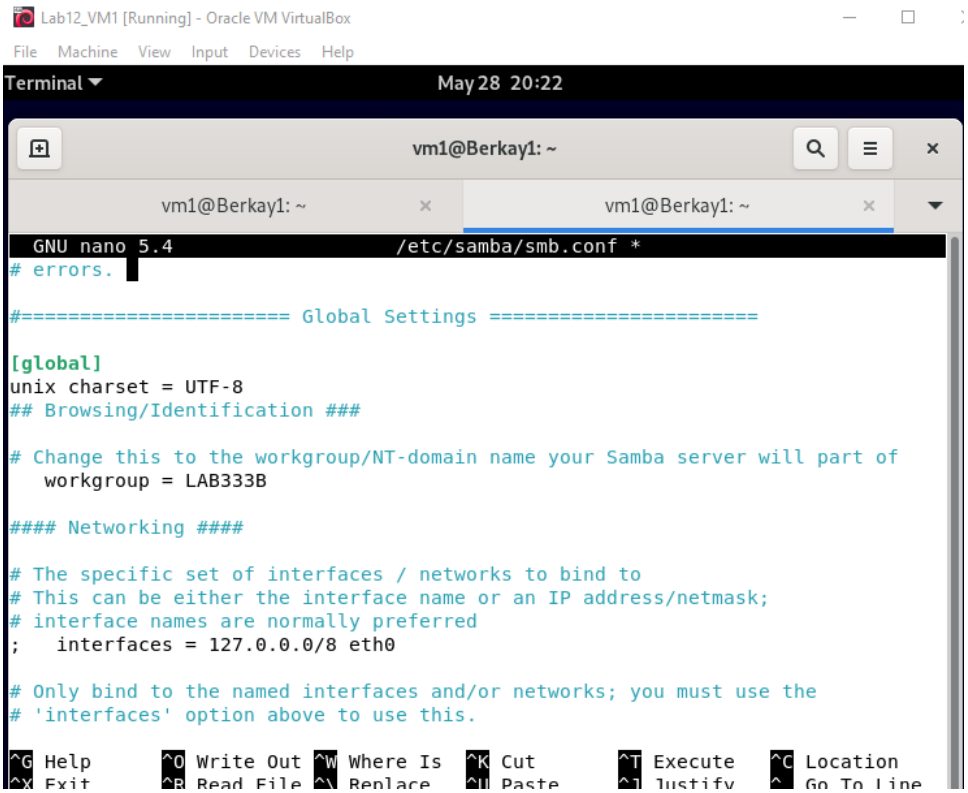
1) Install the required package on the VM1: apt-get install samba

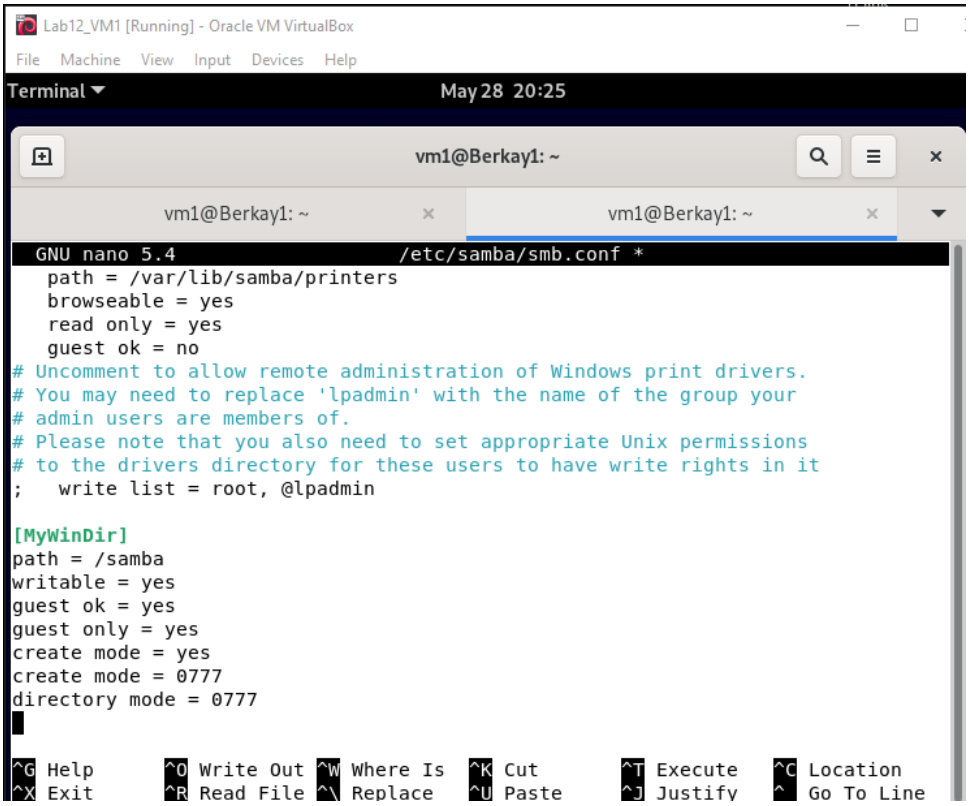


2) a. mkdir /samba b. chmod 777 /samba

```
root@Berkay1:~# mkdir /samba
root@Berkay1:~# chmod 777 /samba
root@Berkay1:~# nano /etc/samba/smb.conf
root@Berkay1:~#
```

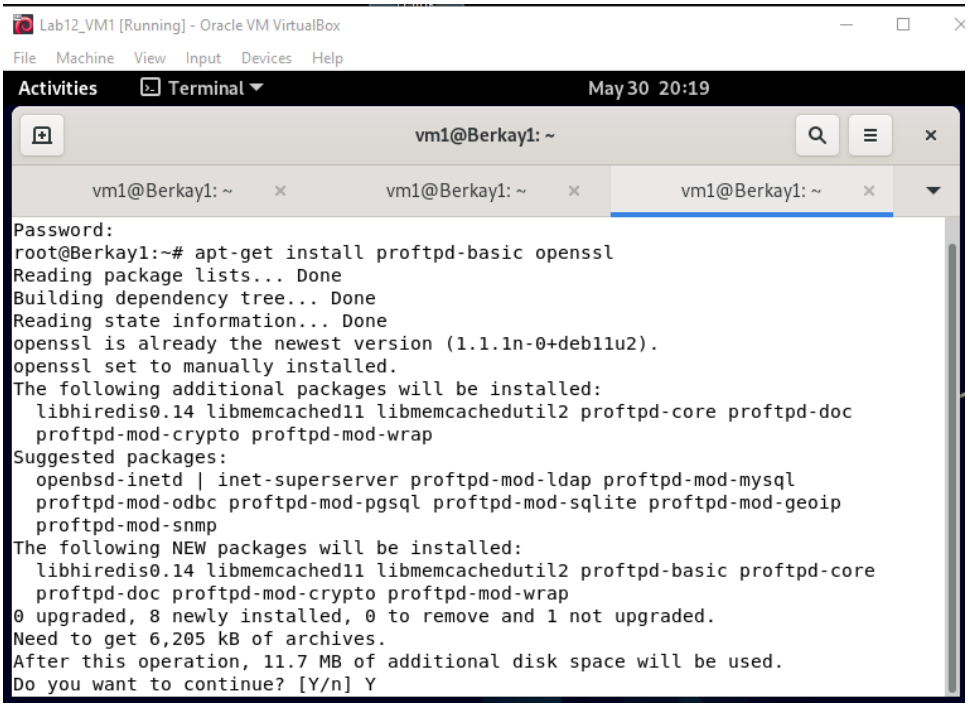
Modify file /etc/samba/smb.conf in the following way:

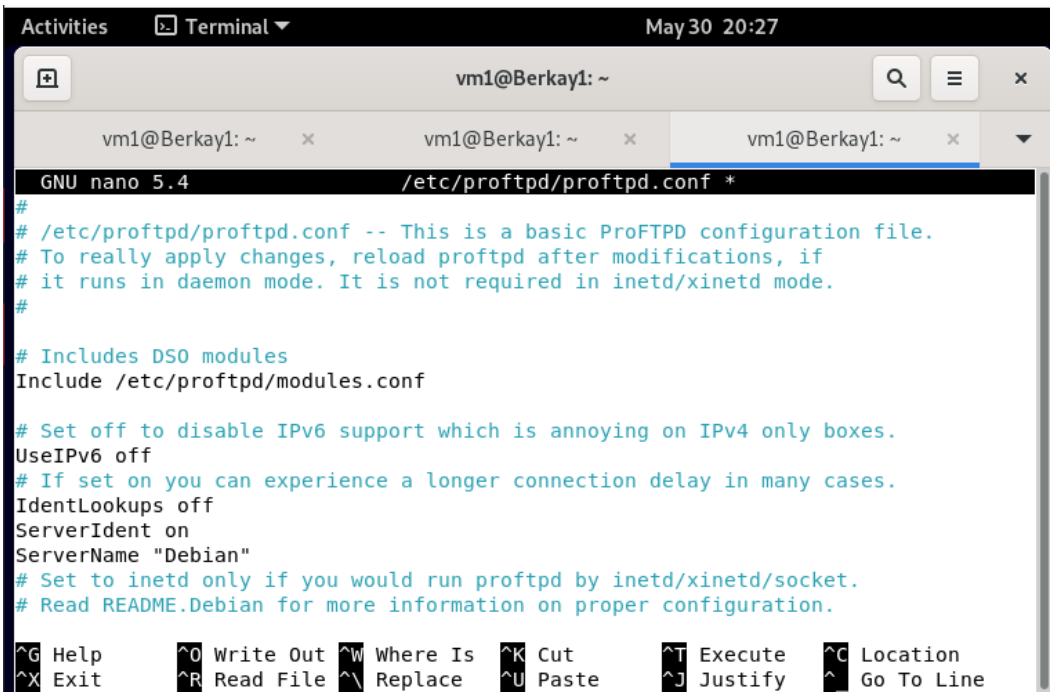


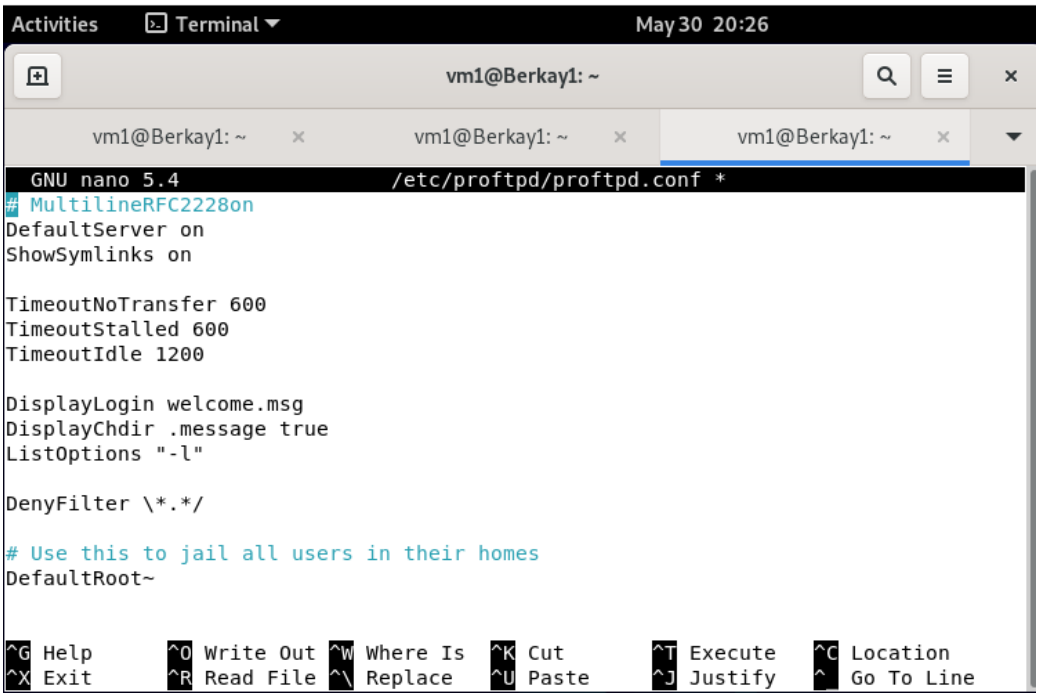


3) Configuration test and service restart:

ftp






Activities
Terminal
May 30 20:26
vm1@Berkay1: ~
vm1@Berkay1: ~
vm1@Berkay1: ~
vm1@Berkay1: ~
GNU nano 5.4 /etc/proftpd/proftpd.conf *
MultilineRFC2228on
DefaultServer on
ShowSymlinks on
TimeoutNoTransfer 600
TimeoutStalled 600
TimeoutIdle 1200
DisplayLogin welcome.msg
DisplayChdir .message true
ListOptions "-l"
DenyFilter *.*/
Use this to jail all users in their homes
DefaultRoot~
^G Help ^O Write Out ^W Where Is ^K Cut ^T Execute ^C Location
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^_ Go To Line