

▼ Devices

Memory 1 GB Processors 2 Hard Disk (SCSI) 20 GB ☐ Hard Disk 3 (SCSI) 200 GB Hard Disk 2 (SCSI) 100 GB

O CD/DVD (IDE) Using file D:\Ma... Network Adapter

NAT

← USB Controller Present Auto detect ♣ Printer Present Display Auto detect

▼ Description

Type here to enter a description of this virtual machine.



▼ Virtual Machine Details

State: Powered off Snapshot: begin

Configuration file: D:\MayAo\centOS7\CentOS 7 64-bit.vmx Hardware compatibility: Workstation 15.x virtual machine Primary IP address: Network information is not available

```
prosection /sys/is/rose/connections type rosection, retailine/
/dev/sr0 on /run/media/root/CentOS 7 x86 64 type iso9660 (ro,nosuid,node
/dev/sdb1 on /b1 type ext4 (rw,relatime,seclabel,data=ordered)
/dev/sdb2 on /b2 type ext4 (rw,relatime,seclabel,data=ordered)
/dev/sdb3 on /b3 type ext4 (rw,relatime,seclabel,data=ordered)
/dev/sdb6 on /b5 type ext4 (rw,relatime,seclabel,data=ordered)
/dev/sdcl on /cl type ext4 (rw,relatime,seclabel,data=ordered)
/dev/sdc2 on /c2 type ext4 (rw,relatime,seclabel,data=ordered)
/dev/sdc3 on /c3 type ext4 (rw,relatime,seclabel,data=ordered)
/dev/sdc5 on /c5 type ext4 (rw,relatime,seclabel,data=ordered)
/dev/sdc6 on /c6 type ext4 (rw,relatime,seclabel,data=ordered)
/dev/sdb5 on /b5 type ext4 (rw,relatime,seclabel,data=ordered)
[root@nttrangN05 ~]# date
Thu Feb 24 01:42:28 EST 2022
[root@nttrangN05 ~]#
```

root@nttrangN05:~

File Edit View	Search Termina	al Help	48 200			
I/O size (minim Disk label type Disk identifier	: dos	70	/ 512 bytes			
				D.		
Device Boot	Start	End	Blocks	Id	System	
/dev/sdc1	2048	10242047	5120000	83	Linux	
/dev/sdc2	10242048	30722047	10240000	83	Linux	
/dev/sdc3	30722048	61442047	15360000	83	Linux	
/dev/sdc4	61442048	419430399	178994176	5	Extended	
/dev/sdc5	61444096	102404095	20480000	83	Linux	
/dev/sdc6	102406144	419430399	158512128	83	Linux	
Disk /dev/sda: Units = sectors Sector size (lo I/O size (minim Disk label type Disk identifier	of 1 * 512 gical/physic um/optimal): : dos	= 512 bytes al): 512 bytes 512 bytes /	tes / 512 by		ors	
Device Boot	Start	End	Blocks	Id	System	
/dev/sda1 *	2048	2099199	1048576	83	Linux	
/dev/sda2	2099200	41943039	19921920	8e	Linux LVM	
Disk /dev/sdb: Units = sectors Sector size (lo I/O size (minim Disk label type Disk identifier	of 1 * 512 gical/physic um/optimal): : dos	= 512 bytes al): 512 bytes 512 bytes /	tes / 512 by		ectors	
Device Boot	Start	End	Blocks	Id	System	
/dev/sdb1	2048	10242047	5120000	83	Linux	
/dev/sdb2	10242048	30722047	10240000	83	Linux	
/dev/sdb3	30722048	61442047	15360000	83	Linux	
/dev/sdb4	61442048	209715199	74136576	5	Extended	
/dev/sdb5	61444096	102404095	20480000	83	Linux	
/dev/sdb6	102406144	209715199	53654528	83	Linux	
Disk /dev/mappe	r/centos-roo	t: 18.2 GB,	18249416704	bytes	, 35643392	

Disk /dev/mapper/centos-root: 18.2 GB, 18249416704 bytes, 35643392 sectors Units = sectors of 1 * 512 = 512 bytes

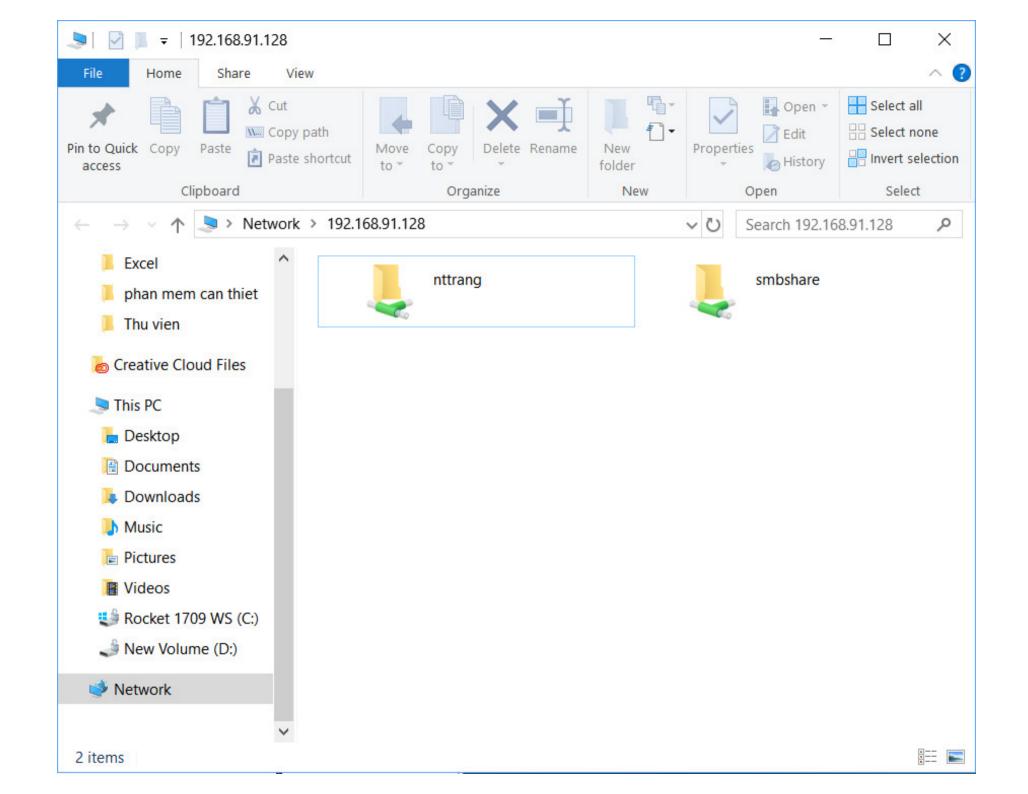
File Edit View Search Terminal Help [root@nttrangN05 ~]# mount -a [root@nttrangN05 ~]# mount sysfs on /sys type sysfs (rw,nosuid,nodev,noexec,relatime,seclabel) proc on /proc type proc (rw,nosuid,nodev,noexec,relatime) devtmpfs on /dev type devtmpfs (rw,nosuid,seclabel,size=480852k,nr inodes=120213 , mode=755) devpts on /dev/pts type devpts (rw,nosuid,noexec,relatime,seclabel,gid=5,mode=62 0.ptmxmode=000) tmpfs on /run type tmpfs (rw,nosuid,nodev,seclabel,mode=755) tmpfs on /sys/fs/cgroup type tmpfs (ro,nosuid,nodev,noexec,seclabel,mode=755) cgroup on /sys/fs/cgroup/systemd type cgroup (rw,nosuid,nodev,noexec,relatime,se clabel,xattr,release agent=/usr/lib/systemd/systemd-cgroups-agent,name=systemd) /dev/mapper/centos-root on / type xfs (rw,relatime,seclabel,attr2,inode64,noquot a) selinuxfs on /sys/fs/selinux type selinuxfs (rw,relatime) sunrpc on /var/lib/nfs/rpc pipefs type rpc pipefs (rw,relatime) tmpfs on /run/user/42 type tmpfs (rw,nosuid,nodev,relatime,seclabel,size=99596k, mode=700, uid=42, qid=42) tmpfs on /run/user/0 type tmpfs (rw,nosuid,nodev,relatime,seclabel,size=99596k,m ode=700) /dev/sr0 on /run/media/root/CentOS 7 x86 64 type iso9660 (ro,nosuid,nodev,relati me,uid=0,gid=0,iocharset=utf8,mode=0400,dmode=0500,uhelper=udisks2) /dev/sdal on /boot type xfs (rw,relatime,seclabel,attr2,inode64,noquota) /dev/mapper/VolumeA-LV0 on /LV0 type ext4 (rw,relatime,seclabel,data=ordered) /dev/mapper/VolumeA-LV1 on /LV1 type ext4 (rw,relatime,seclabel,data=ordered) [root@nttrangN05 ~]# S

```
root@nttrangN05:~
                                                                          ×
File Edit View Search Terminal Help
  Physical volume "/dev/sdc6" successfully created.
[root@nttrangN05 ~]# vgextend VolumeA /dev/sdb5
  Volume group "VolumeA" successfully extended
[root@nttrangN05 ~]# vgextend VolumeA /dev/sdc6
  Volume group "VolumeA" successfully extended
[root@nttrangN05 ~]# lvextend -L 10000M /dev/VolumeA/LV0 /dev/sdb5
  New size given (2500 extents) not larger than existing size (3000 extents)
[root@nttrangN05 ~]# lvextend -L +3000M /dev/VolumeA/LV0 /dev/sdb5
  Size of logical volume VolumeA/LVO changed from <11.72 GiB (3000 extents) to
 <14.65 GiB (3750 extents).
  Logical volume VolumeA/LVO successfully resized.
[root@nttrangN05 ~]# lvextend -L +20000M /dev/VolumeA/LV1 /dev/sdc6
  Size of logical volume VolumeA/LV1 changed from <12.21 GiB (3125 extents) to
 <31.74 GiB (8125 extents).
  Logical volume VolumeA/LV1 successfully resized.
[root@nttrangN05 ~]# date
Mon Feb 28 02:52:13 EST 2022
[root@nttrangN05 ~]#
```

```
root@nttrangN05:~
                                                                       ×
File Edit View Search Terminal Help
Calling ioctl() to re-read partition table.
Syncing disks.
[root@nttrangN05 ~]# mdadm --detail --scan --verbose
ARRAY /dev/md1 level=raid1 num-devices=2 metadata=1.2 name=nttrangN05:1 UUID
=e115702d:d79a51ab:d165269d:7b670650
  devices=/dev/sdc1
[root@nttrangN05 ~]# mdadm --manage /dev/md1 --add /dev/sdb1
mdadm: added /dev/sdb1
[root@nttrangN05 ~]# mdadm --detail --scan --verbose
ARRAY /dev/mdl level=raid1 num-devices=2 metadata=1.2 spares=1 name=nttrangN
05:1 UUID=e115702d:d79a51ab:d165269d:7b670650
  devices=/dev/sdb1,/dev/sdc1
[root@nttrangN05 ~]# cat /etc/mdadm.conf
ARRAY /dev/md1 level=raid1 num-devices=2 metadata=1.2 name=nttrangN05:1 UUID
=e115702d:d79a51ab:d165269d:7b670650
  devices=/dev/sdb1,/dev/sdc1
[root@nttrangN05 ~]# cat /proc/mdstat
Personalities : [raid1]
md1 : active raid1 sdb1[2] sdc1[1]
     5114880 blocks super 1.2 [2/1] [ U]
      [======>.....] recovery = 48.1% (2464256/5114880) finish=1.3
min speed=32344K/sec
unused devices: <none>
[root@nttrangN05 ~]# date
Thu Mar 3 02:12:16 EST 2022
[root@nttrangN05 ~]#
```

```
root@nttrangN05:~
                                                                           ×
                                                                       File Edit View Search Terminal Help
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
[root@nttrangN05 ~]# mdadm --manage /dev/md5 --add /dev/sdb1
mdadm: added /dev/sdb1
[root@nttrangN05 ~]# cat /proc/mdstat
Personalities : [raid1] [raid6] [raid5] [raid4]
md1 : active (auto-read-only) raid1 sdc1[1]
      5114880 blocks super 1.2 [2/1] [ U]
md5 : active raid5 sdb1[4] sdd2[3] sdc2[1]
      20461568 blocks super 1.2 level 5, 512k chunk, algorithm 2 [3/2] [ UU]
      [==>.....] recovery = 14.6% (1498496/10230784) finish=0.
8min speed=166499K/sec
unused devices: <none>
[root@nttrangN05 ~]# date
Thu Mar 3 03:06:28 EST 2022
[root@nttrangN05 ~]#
```

```
root@nttrangN05:~
 File Edit View Search Terminal Help
mdadm: added /dev/sdb1
[root@nttrangN05 ~]# cat /proc/mdstat
Personalities : [raid1] [raid6] [raid5] [raid4]
md1 : active (auto-read-only) raid1 sdc1[1]
      5114880 blocks super 1.2 [2/1] [ U]
md5 : active raid5 sdb1[4] sdd2[3] sdc2[1]
      20461568 blocks super 1.2 level 5, 512k chunk, algorithm 2 [3/2] [ UU]
      [==>.....] recovery = 14.6% (1498496/10230784) finish=0.8min speed=166499K/sec
unused devices: <none>
[root@nttrangN05 ~]# date
Thu Mar 3 03:06:28 EST 2022
[root@nttrangN05 ~]# mdadm --examine
mdadm: No devices to examine
[root@nttrangN05 ~]# mdadm --examine /dev/md5
mdadm: No md superblock detected on /dev/md5.
[root@nttrangN05 ~]# mdadm --detail --scan --verbose
ARRAY /dev/md5 level=raid5 num-devices=3 metadata=1.2 name=nttrangN05:5 UUID=abc853f0:ca05470a:9136bf9d:4c85e721
   devices=/dev/sdb1,/dev/sdc2,/dev/sdd2
ARRAY /dev/md/1 level=raid1 num-devices=2 metadata=1.2 name=nttrangN05:1 UUID=e115702d:d79a51ab:d165269d:7b670650
   devices=/dev/sdc1
[root@nttrangN05 ~]# date
Thu Mar 3 03:13:16 EST 2022
[root@nttrangN05 ~]# date
Thu Mar 3 03:15:19 EST 2022
[root@nttrangN05 ~]#
```



```
root@nttrangN05:~
                                                                               ×
                                                                           File Edit View Search Terminal Help
firewall-cmd: error: unrecognized arguments: -- permanent --add-port=137/tcp
[root@nttrangN05 ~]# smbclient //192.168.63.1/c$ -U nttrang
Enter SAMBA\nttrang's password:
tree connect failed: NT STATUS ACCESS DENIED
[root@nttrangN05 ~]# smbclient //192.168.63.1/Excel -U nttrang
Enter SAMBA\nttrang 's password:
Try "help" to get a list of possible commands.
smb: \> dir
                                              0 Sat Feb 26 09:09:42 2022
                                      \Box
                                               0 Sat Feb 26 09:09:42 2022
 LICH- THI.xlsx
                                     A 10452 Sat Mar 13 08:30:09 2021
 TKB.xlsx
                                      A 10524 Tue Jan 4 23:01:06 2022
                36140287 blocks of size 4096, 22352610 blocks available
smb: \> dir
                                               0 Wed Mar 9 23:54:38 2022
                                      D
                                               0 Wed Mar 9 23:54:38 2022
 LICH- THI.xlsx
                                           10452 Sat Mar 13 08:30:09 2021
 TKB.xlsx
                                          10524 Tue Jan 4 23:01:06 2022
 To la Windows day
                                               0 Wed Mar 9 23:54:22 2022
                36140287 blocks of size 4096, 22351586 blocks available
smb: \>
```

```
root@nttrangN05:~

File Edit View Search Terminal Help

ode=700,uid=42,gid=42)

tmpfs on /run/user/0 type tmpfs (rw,nosuid,nodev,relatime,seclabel,size=99596k,mode=700)

/dev/sda1 on /boot type xfs (rw,relatime,seclabel,attr2,inode64,noquota)

192.168.1.1:/nfsshare on /nfsmount type nfs4 (rw,relatime,vers=4.1,rsize=131072,wsize=131072,namlen=255,hard,proto=tcp,timeo=600,retrans=2,sec=sys,clientaddr=192.

168.1.2,local_lock=none,addr=192.168.1.1)

[root@nttrangN05 ~]# date

Thu Mar 10 04:27:17 EST 2022

[root@nttrangN05 ~]#
```

root@nttrangN05:~

_ >

File Edit View Search Terminal Help

le_mode=0755,dir_mode=0755,soft,nounix,serverino,mapposix,rsize=1048576,wsize=10
48576,echo_interval=60,actimeo=1)

192.168.1.2:/nfsmusician on /nfsmount type nfs4 (rw,relatime,vers=4.1,rsize=1310 72,wsize=131072,namlen=255,hard,proto=tcp,timeo=600,retrans=2,sec=sys,clientaddr=192.168.1.1,local lock=none,addr=192.168.1.2)

[root@nttrangN05 ~]# date

Thu Mar 10 04:53:15 EST 2022

[root@nttrangN05 ~]#

```
# Defaults env_keep += "HOME"
%wheel ALL=(ALL) ALL
%thaibinh ALL=(ALL) ALL
%utc ALL=(ALL) ALL
```

File Edit View Search Terminal Help

[root@nttrangN05 ~]#

[root@nttrangN05 ~]# useradd nttrang -g thaibinh -c "SV UTC" [root@nttrangN05 ~]# useradd linux -c "HDH Linux" -G utc [root@nttrangN05 ~]# useradd opensource -c "Ma nguon mo" -G thaibinh,utc [root@nttrangN05 ~]# passwd nttrang Changing password for user nttrang. New password: BAD PASSWORD: The password is shorter than 8 characters Retype new password: passwd: all authentication tokens updated successfully. [root@nttrangN05 ~]# passwd Linux passwd: Unknown user name 'Linux'. [root@nttrangN05 ~]# passwd linux Changing password for user linux. New password: BAD PASSWORD: The password is shorter than 8 characters Retype new password: passwd: all authentication tokens updated successfully. [root@nttrangN05 ~]# passwd linux Changing password for user linux. New password: BAD PASSWORD: The password is shorter than 7 characters Retype new password: Sorry, passwords do not match. New password: [root@nttrangN05 ~]# passwd opensource Changing password for user opensource. New password: BAD PASSWORD: The password is shorter than 8 characters Retype new password: passwd: all authentication tokens updated successfully.

```
nttrang@nttrangN05:~/TaiLieu
                                                                              ×
File Edit View Search Terminal Help
[root@nttrangN05 ~]# su - nttrang
Last login: Wed Mar 16 23:37:29 EDT 2022 on tty2
[nttrang@nttrangN05 ~]$ pwd
/home/nttrang
[nttrang@nttrangN05 ~]$ mkdir TaiLieu
[nttrang@nttrangN05 ~]$ cd TaiLieu/
[nttrang@nttrangN05 TaiLieu]$ cat > baitap.txt
This is my file
UTC
Welcome
[nttrang@nttrangN05 TaiLieu] cat baitap.txt
This is my file
UTC
Welcome
[nttrang@nttrangN05 TaiLieu]$ cat >> baitap.txt
I am Ha Noi
[nttrang@nttrangN05 TaiLieu]$ cat baitap.txt
This is my file
UTC
Welcome
I am Ha Noi
[nttrang@nttrangN05 TaiLieu]$
```

```
[nttrang@nttrangN05 TaiLieu]$ cd
[nttrang@nttrangN05 ~]$ pwd
/home/nttrang
[nttrang@nttrangN05 ~]$ ls -l
total 0
drwxr-xr-x. 2 nttrang thaibinh 24 Mar 16 23:44 TaiLieu
[nttrang@nttrangN05 ~]$ chmod g+w,o-r TaiLieu/
[nttrang@nttrangN05 ~]$ ls -l
total 0
drwxrwx--x. 2 nttrang thaibinh 24 Mar 16 23:44 TaiLieu
[nttrang@nttrangN05 ~]$ chmod g+rw-x,o+r-wr TaiLieu/baitap.txt
[nttrang@nttrangN05 ~]$ tail -2 TaiLieu/baitap.txt
Welcome
T am Ha Noi
```

```
[nttrang@nttrangN05 ~]$ vi TaiLieu/baitap.txt
[nttrang@nttrangN05 ~]$ tail -2 TaiLieu/baitap.txt
UTC
This file has been modified!
```

```
[opensource@nttrangN05 ~]$ cd /home/nttrang/TaiLieu
[opensource@nttrangN05 TaiLieu]$ vi baitap
[opensource@nttrangN05 TaiLieu]$ vi baitap.txt
[opensource@nttrangN05 TaiLieu]$ cat baitap.txt
This file has been modified by opensource!
[opensource@nttrangN05 TaiLieu]$ su - linux
Password:
[linux@nttrangN05 ~]$ cat /home/nttrang/TaiLieu/baitap.txt
cat: /home/nttrang/TaiLieu/baitap.txt: Permission denied
[linux@nttrangN05 ~]$ cat > /home/nttrang/TaiLieu/baitap.txt
-bash: /home/nttrang/TaiLieu/baitap.txt: Permission denied
[linux@nttrangN05 ~]$ date
Thu Mar 17 00:21:53 EDT 2022
[linux@nttrangN05 ~]$ ■
```