

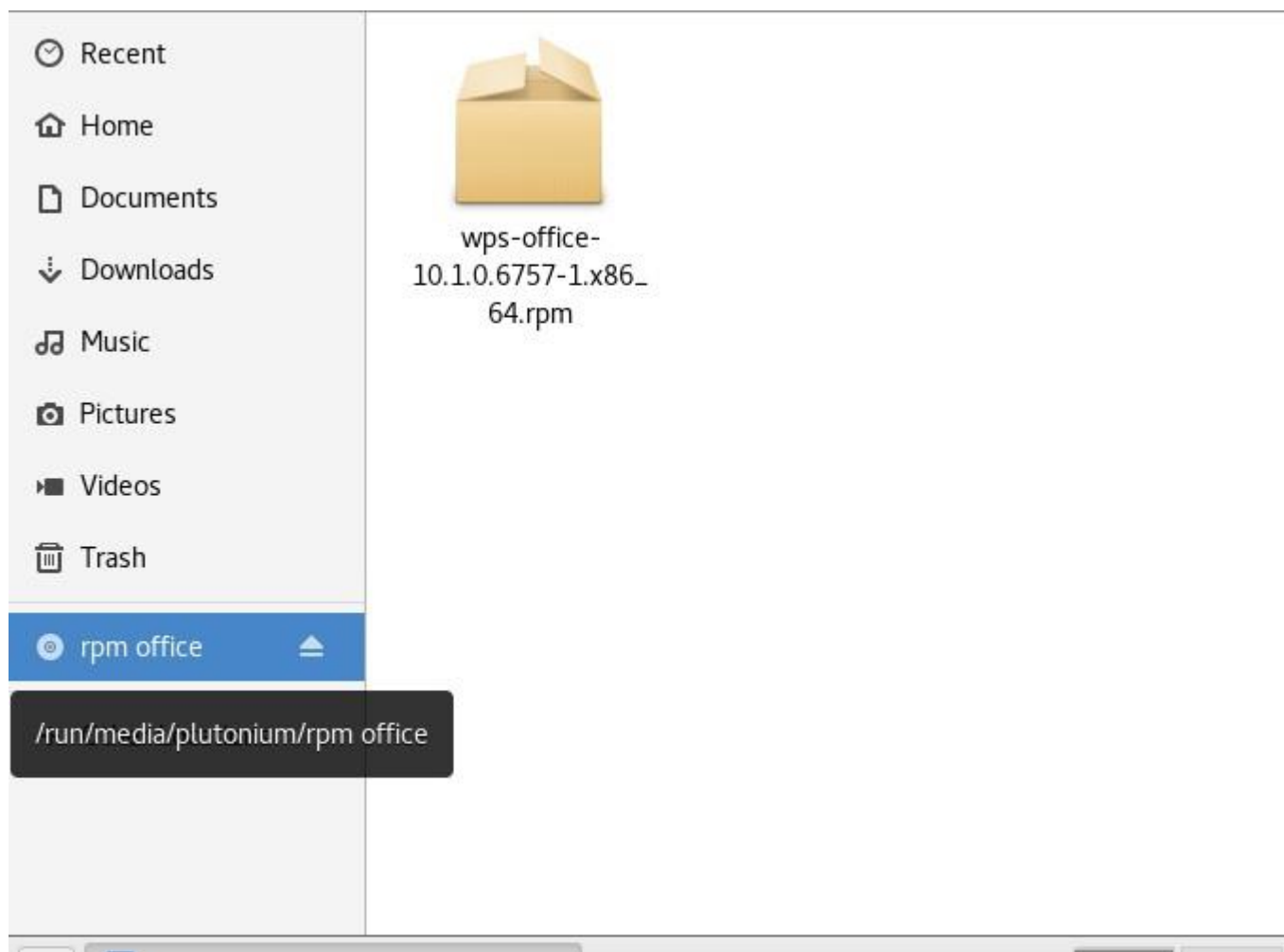
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HỆ ĐIỀU HÀNH MÃ NGUỒN MỞ

TUẦN 7

THỰC HÀNH CÀI ĐẶT PHẦN MỀM

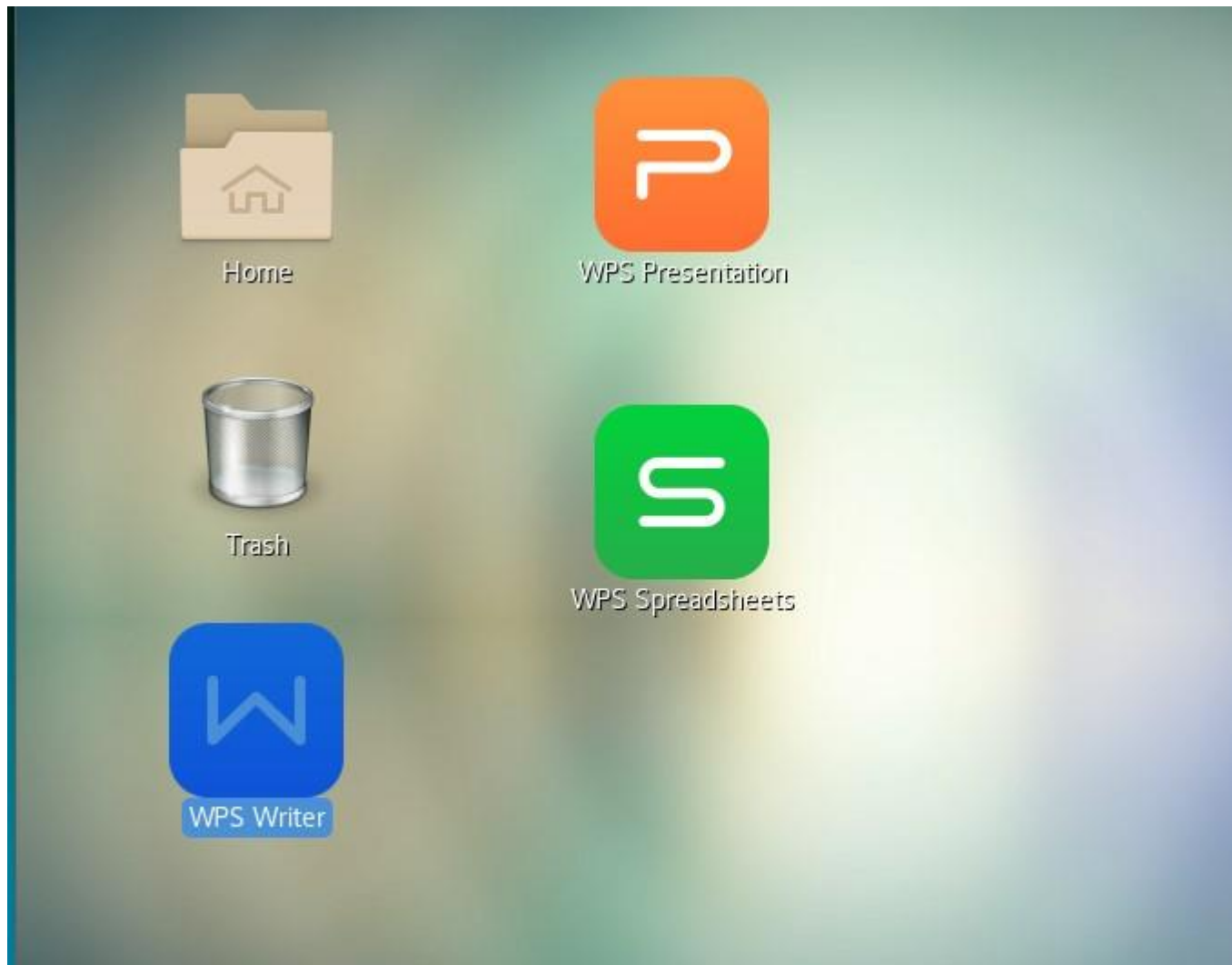
1. Sinh viên thực hiện cài đặt phần mềm WPS office với bộ source đã cung cấp tại site của giáo viên.



Thực hiện cài đặt

```
[root@localhost plutonium]# rpm -ivh '/run/media/plutonium/rpm office/wps-o
.6757-1.x86_64.rpm' --nodeps
Preparing... ##### [10
Updating / installing...
   1:wps-office-10.1.0.6757-1 ##### [10
[root@localhost plutonium]#
```

Kết quả thành công



2. Sinh viên thực hiện cấu hình địa chỉ IP cho máy tính có thể truy cập được internet.

Kiểm tra IPv4 ta thấy ipv4 192.168.44.129

```
[root@localhost plutonium]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:c7:da:6a brd ff:ff:ff:ff:ff:ff
    inet 192.168.44.129/24 brd 192.168.44.255 scope global noprefixroute dynamic ens33
        valid_lft 1267sec preferred_lft 1267sec
    inet6 fe80::2b5:bcff:d2a:91a5/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: virbr0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default qlen 1000
    link/ether 52:54:00:1d:ce:fc brd ff:ff:ff:ff:ff:ff
    inet 192.168.122.1/24 brd 192.168.122.255 scope global virbr0
        valid_lft forever preferred_lft forever
4: virbr0-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr0 state DOWN group default qlen 1000
    link/ether 52:54:00:1d:ce:fc brd ff:ff:ff:ff:ff:ff
[root@localhost plutonium]#
```

Kiểm tra ip default rỗng

```
[root@localhost plutonium]# ip route
192.168.44.0/24 dev ens33 proto kernel scope link src 192.168.44.129 metric 100
192.168.122.0/24 dev virbr0 proto kernel scope link src 192.168.122.1
[root@localhost plutonium]#
```

Xem DNS sever ta thấy đang rỗng

```
[root@localhost plutonium]# cat /etc/resolv.conf
# Generated by NetworkManager
[root@localhost plutonium]#
```

Tiến hành thay đổi

```
[root@localhost plutonium]# cd /etc/sysconfig/network-scripts/
[root@localhost network-scripts]# ls
ifcfg-ens33  ifdown-isdn      ifup          ifup-plip      ifup-tunnel
ifcfg-lo     ifdown-post      ifup-aliases  ifup-plusb     ifup-wireless
ifdown       ifdown-ppp       ifup-bnep     ifup-post      init.ipv6-global
ifdown-bnep  ifdown-routes    ifup-eth      ifup-ppp       network-functions
ifdown-eth   ifdown-sit       ifup-ib       ifup-routes    network-functions-ipv6
ifdown-ib    ifdown-Team      ifup-ippp     ifup-sit
ifdown-ippp  ifdown-TeamPort  ifup-ipv6     ifup-Team
ifdown-ipv6  ifdown-tunnel    ifup-isdn     ifup-TeamPort
[root@localhost network-scripts]#
```

ta thay đổi ifcfg-ens33

```
TYPE=Ethernet
PROXY_METHOD=none
BROWSER_ONLY=no
DEFROUTE=yes
IPV4_FAILURE_FATAL=no
IPV6INIT=yes
IPV6_AUTOCONF=yes
IPV6_DEFROUTE=yes
IPV6_FAILURE_FATAL=no
IPV6_ADDR_GEN_MODE=stable-privacy
NAME=ens33
UUID=79155266-f0c9-4c62-b486-f8b33412bc6e
DEVICE=ens33
ONBOOT=yes
PEERDNS=no
PEERROUTES=no
BOOTPROTO=dhcp
CONNECTION_METERED=yes
IPADDR=192.168.1.81
NETMASK=255.255.255.0
```

```
^G Get Help      ^O WriteOut      ^R Read File     ^Y Prev Page     ^K Cut Text       ^C Cur Pos
^X Exit          ^J Justify       ^W Where Is      ^V Next Page     ^U UnCut Text    ^T To Spell
```

Ta khởi động lại dịch vụ mạng

```
[root@localhost network-scripts]# nano ifcfg-ens33
[root@localhost network-scripts]# service network restart
Restarting network (via systemctl): [ OK ]
[root@localhost network-scripts]#
```

Kiểm tra lại ipv4 đã thay đổi thành 192.168.1.81

```
[root@localhost network-scripts]# ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: ens33: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 00:0c:29:c7:da:6a brd ff:ff:ff:ff:ff:ff
    inet 192.168.1.81/24 brd 192.168.1.255 scope global noprefixroute ens33
        valid_lft forever preferred_lft forever
    inet 192.168.44.129/24 brd 192.168.44.255 scope global noprefixroute dynamic ens33
        valid_lft 1723sec preferred_lft 1723sec
    inet6 fe80::2b5:bcff:d2a:91a5/64 scope link noprefixroute
        valid_lft forever preferred_lft forever
3: virbr0: <NO-CARRIER,BROADCAST,MULTICAST,UP> mtu 1500 qdisc noqueue state DOWN group default qlen 1000
    link/ether 52:54:00:1d:ce:fc brd ff:ff:ff:ff:ff:ff
    inet 192.168.122.1/24 brd 192.168.122.255 scope global virbr0
        valid_lft forever preferred_lft forever
4: virbr0-nic: <BROADCAST,MULTICAST> mtu 1500 qdisc pfifo_fast master virbr0 state DOWN group default qlen 1000
```

Kiểm tra lại gateway ta thấy ip đã đổi thành 192.168.1.1

```
[root@localhost network-scripts]# ip route
default via 192.168.1.1 dev ens33 proto static metric 100
192.168.1.0/24 dev ens33 proto kernel scope link src 192.168.1.81 metric 100
192.168.44.0/24 dev ens33 proto kernel scope link src 192.168.44.129 metric 100
192.168.122.0/24 dev virbr0 proto kernel scope link src 192.168.122.1
[root@localhost network-scripts]#
```

Tương tự dns ta thấy vẫn chưa được thiết lập

```
[root@localhost network-scripts]# cat /etc/resolv.conf
# Generated by NetworkManager
[root@localhost network-scripts]#
```

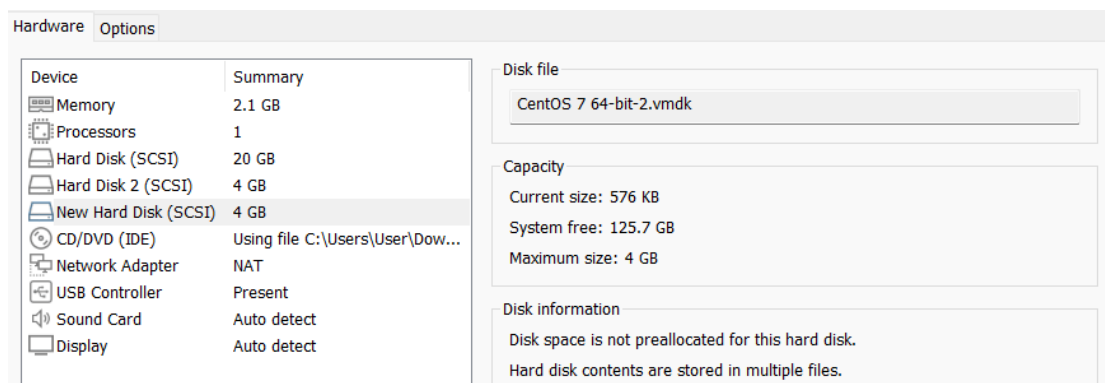
Tiến hành thiết lập DNS

```
[root@localhost plutonium]# cat /etc/resolv.conf
```

```
# Generated by NetworkManager
nameserver 8.8.8.8
[root@localhost plutonium]#
```

3. Sinh viên hãy cài đặt bộ gõ bằng gói YUM.

4. Sinh viên hãy gắn thêm 1 ổ cứng.



```
Disk /dev/sdc: 4294 MB, 4294967296 bytes, 8388608 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
```

5. Sinh viên hãy format ổ cứng này để có thể sử dụng được.

```

[root@localhost plutonium]# fdisk /dev/sdc
Welcome to fdisk (util-linux 2.23.2).

Changes will remain in memory only, until you decide to write them.
Be careful before using the write command.

Device does not contain a recognized partition table
Building a new DOS disklabel with disk identifier 0xf797cc94.

Command (m for help): n
Partition type:
   p   primary (0 primary, 0 extended, 4 free)
   e   extended
Select (default p): p
Partition number (1-4, default 1): 1
First sector (2048-8388607, default 2048): 2048
Last sector, +sectors or +size{K,M,G} (2048-8388607, default 8388607): +900MB
Partition 1 of type Linux and of size 858 MiB is set

-----
Partition number (2-4, default 2): 2
First sector (1759232-8388607, default 1759232): 1759232
Last sector, +sectors or +size{K,M,G} (1759232-8388607, default 8388607): +900MB
Partition 2 of type Linux and of size 858 MiB is set

Command (m for help): n
Partition type:
   p   primary (2 primary, 0 extended, 2 free)
   e   extended
Select (default p): e
Partition number (3,4, default 3): 3
First sector (3516416-8388607, default 3516416): 3516416
Last sector, +sectors or +size{K,M,G} (3516416-8388607, default 8388607): +2GB
Partition 3 of type Extended and of size 1.9 GiB is set

-----
Adding logical partition 5
First sector (3518464-7421951, default 3518464): 3518464
Last sector, +sectors or +size{K,M,G} (3518464-7421951, default 7421951): +900MB
Partition 5 of type Linux and of size 858 MiB is set

Command (m for help): n
Partition type:
   p   primary (2 primary, 1 extended, 1 free)
   l   logical (numbered from 5)
Select (default p): l
Adding logical partition 6
First sector (5277696-7421951, default 5277696): 5277696
Last sector, +sectors or +size{K,M,G} (5277696-7421951, default 7421951): +900MB
Partition 6 of type Linux and of size 858 MiB is set

Command (m for help): w
The partition table has been altered!

Disk /dev/sdc: 4294 MB, 4294967296 bytes, 8388608 sectors
Units = sectors of 1 * 512 = 512 bytes
Sector size (logical/physical): 512 bytes / 512 bytes
I/O size (minimum/optimal): 512 bytes / 512 bytes
Disk label type: dos
Disk identifier: 0xf797cc94

   Device Boot      Start         End      Blocks   Id  System
/dev/sdc1          2048        1759231       878592   83   Linux
/dev/sdc2        1759232        3516415       878592   83   Linux
/dev/sdc3          3516416        7421951      1952768    5   Extended
/dev/sdc5          3518464        5275647       878592   83   Linux
/dev/sdc6          5277696       7034879       878592   83   Linux

```

```
[root@localhost plutonium]# mkfs.ext3 /dev/sdc1
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
54992 inodes, 219648 blocks
10982 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=226492416
7 block groups
32768 blocks per group, 32768 fragments per group
7856 inodes per group
Superblock backups stored on blocks:
    32768, 98304, 163840

Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done
```

```
[root@localhost plutonium]# mkfs.ext3 /dev/sdc2
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
54992 inodes, 219648 blocks
10982 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=226492416
7 block groups
32768 blocks per group, 32768 fragments per group
7856 inodes per group
Superblock backups stored on blocks:
    32768, 98304, 163840

Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done
```

```
[root@localhost plutonium]# mkfs.ext3 /dev/sdc5
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
54992 inodes, 219648 blocks
10982 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=226492416
7 block groups
32768 blocks per group, 32768 fragments per group
7856 inodes per group
Superblock backups stored on blocks:
    32768, 98304, 163840

Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done
```



```
[root@localhost plutonium]# mkfs.ext3 /dev/sdc6
mke2fs 1.42.9 (28-Dec-2013)
Filesystem label=
OS type: Linux
Block size=4096 (log=2)
Fragment size=4096 (log=2)
Stride=0 blocks, Stripe width=0 blocks
54992 inodes, 219648 blocks
10982 blocks (5.00%) reserved for the super user
First data block=0
Maximum filesystem blocks=226492416
7 block groups
32768 blocks per group, 32768 fragments per group
7856 inodes per group
Superblock backups stored on blocks:
    32768, 98304, 163840

Allocating group tables: done
Writing inode tables: done
Creating journal (4096 blocks): done
Writing superblocks and filesystem accounting information: done
```

```
[root@localhost plutonium]# lsblk -f
```

NAME	FSTYPE	LABEL	UUID	MOUNTPOINT
sda				
└sda1	xfs		b1102486-2bfb-429c-98cd-00546fa0f302	/boot
└sda2	LVM2_mem		T9ULiE-r3yl-cs5p-sfGM-ilde-Ai5c-RStTks	
└└centos-root	xfs		366c38b1-b8c7-48ce-bbf5-7efcb4ba8c2f	/
└└centos-swap	swap		85f74ac3-a5c2-4400-b669-40cb1210de31	[SWAP]
sdb				
└sdb1	ext3		6249b40b-9b19-4a74-9471-513c154cb779	
└sdb2	ext3		0193645e-cfe3-4387-bd28-d0b96f07f435	
└sdb3				
└sdb5	ext3		8f8eeaa8-0045-4352-b4ce-ed4080317ac3	
└sdb6	ext3		192433f6-8f19-4af2-a820-35a8b9d534df	
sdc				
└sdc1	ext3		8d381b66-b6f1-42df-a6b7-c2edbf3a93f3	
└sdc2	ext3		88b13e7b-5f40-4e84-9e37-df776beaa42a	
└sdc3				
└sdc5	ext3		2e5822c9-5f01-4420-83e8-ac73d0ffde58	
└sdc6	ext3		e68663bc-39b8-4600-9e4e-d8911f6dd9fb	

6. Sinh viên hãy tạo ra 1 thư mục tên là documents trên thư mục root.

```
[root@localhost plutonium]# mkdir /documents
[root@localhost plutonium]#
```

7. Sau đó hãy mount thư mục này vào ổ cứng vừa tạo.

```
[root@localhost plutonium]# mkdir /documents
[root@localhost plutonium]# mount /dev/sdc1 /documents
[root@localhost plutonium]# mount /dev/sdc2 /documents
[root@localhost plutonium]# mount /dev/sdc5 /documents
[root@localhost plutonium]# mount /dev/sdc6 /documents
```

8. Sinh viên hãy tạo ra 2 user với tên tùy chọn.

```
[root@localhost plutonium]# useradd radium
[root@localhost plutonium]# useradd sodium
[root@localhost plutonium]#
```

9. Sinh viên hãy tạo ra 2 thư mục trùng tên với 2 user ở trong thư mục documents.

```
[root@localhost plutonium]# mkdir /documents/radium
[root@localhost plutonium]# mkdir /documents/sodium
[root@localhost plutonium]#
```

10. Hãy thực hiện phân quyền cho các thư mục này sao cho user nào thì chỉ sử dụng thư mục trùng tên với user đó.

```
[root@localhost plutonium]# chown radium /documents/radium
[root@localhost plutonium]# chown sodium /documents/sodium
[root@localhost plutonium]#
```