

LAB 3 PRELAB – Operating System

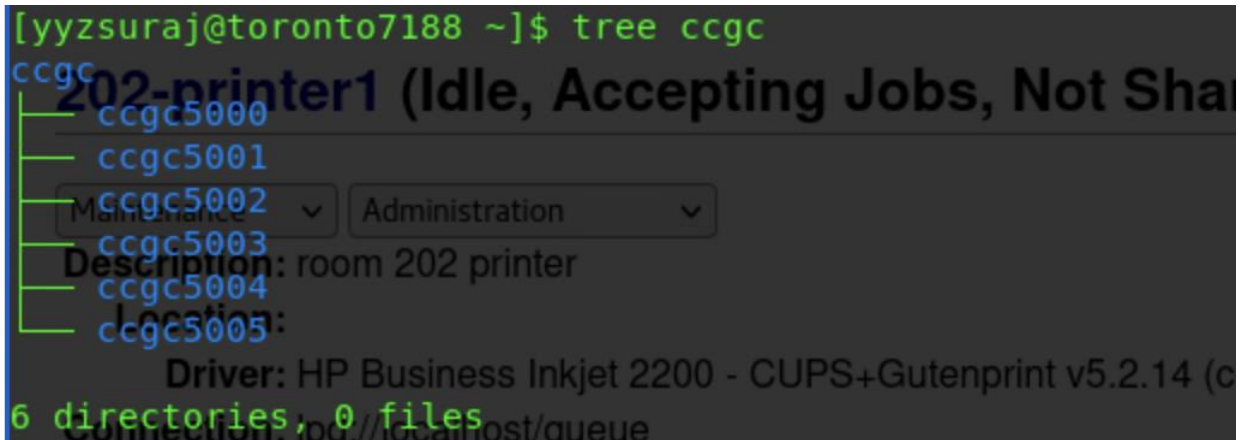
PART A –

- i) Directory for running processes and the kernel: /proc
- ii) Directory for boot loader files: /boot
- iii) User home directory: /home/<username>
- iv) Log files: /var/log
- v) Home directory of root: /root
- vi) Configuration files: /etc
- vii) Temporary mount systems: /tmp
- viii) Device files: /dev
- ix) System administration binary files not required for boot: /sbin
- x) Directory for files copied to new user's home directory: /etc/skel
- xi) Object libraries, dynamic libraries, and executables: /usr/lib
- xii) Directory for shared libraries necessary for boot and running root commands: /lib
- xiii) Manual pages: /usr/share/man or /usr/local/man
- xiv) Mailboxes: /var/mail

PART B

a –

```
[yyzsuraj@toronto7188 ~]$ tree ccgc
ccgc
├── ccgc5000
├── ccgc5001
├── ccgc5002
├── ccgc5003
├── ccgc5004
└── ccgc5005
6 directories, 0 files
```



b –

```
[yyzsuraj@toronto7188 ~]$ tree backup
backup
├── labs
│   ├── lab1
│   ├── lab2
│   └── lab3
└── lesson
    ├── module1
    ├── module2
    ├── module3
    ├── module4
    └── module5
```

2 directories, 8 files

C-

```
yyzsuraj@toronto7188 ~]$ tree -IR ccgc
```

Firefox automatically sends some data to Mozilla so that we can improve your experience.

CUPS.org Home Administration Classes Help Jobs Printers

202-printer1

202-printer1: Idle, Accepting Jobs, Not Shared

Maintenance Administration

Description: room 202 printer

Location: lab1

Driver: Business Inkjet 2200 - CUPS+Gutenprint v5.2.14 (color)

Connection: ipd://localhost/queue

Defaults: job-sheets=none, none media=na_letter_8.5x11in sides=

Jobs

Search in 202-printer1:

Show Completed Jobs Show All Jobs

Jobs list

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```
tree -IR ccgc
ccgc
├── backup
│   ├── labs
│   │   ├── lab1
│   │   ├── lab2
│   │   └── lab3
│   └── lesson
│       ├── module1
│       ├── module2
│       ├── module3
│       ├── module4
│       └── module5
├── ccgc5000
│   ├── labs
│   │   ├── lab1
│   │   ├── lab2
│   │   └── lab3
│   └── lesson
│       ├── module1
│       ├── module2
│       ├── module3
│       ├── module4
│       └── module5
├── ccgc5001
│   ├── labs
│   │   ├── lab1
│   │   ├── lab2
│   │   └── lab3
│   └── lesson
│       ├── module1
│       ├── module2
│       ├── module3
│       ├── module4
│       └── module5
```

modules

ccgc5002

- labs
 - lab1
 - lab2
 - lab3
- lesson
 - module1
 - module2
 - module3
 - module4
 - module5

202-printer1

202-printer1: Idle, Accepting Jobs, Not Shared

Maintenance Administration

Description: room 202 printer

Location:

Driver: Business Inkjet 2200 - CUPS+Gutenprint v5.2.14 (color)

Connection: ipd://localhost/queue

Defaults: job-sheets=none, none media=na_letter_8.5x11in sides=

Jobs

Search in 202-printer1:

ccgc5004

- labs
- lesson

Show Completed Jobs Show All Jobs

ccgc5005

- labs
- lesson

Desktop

dir1

Documents

Downloads

Jobs list

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d-

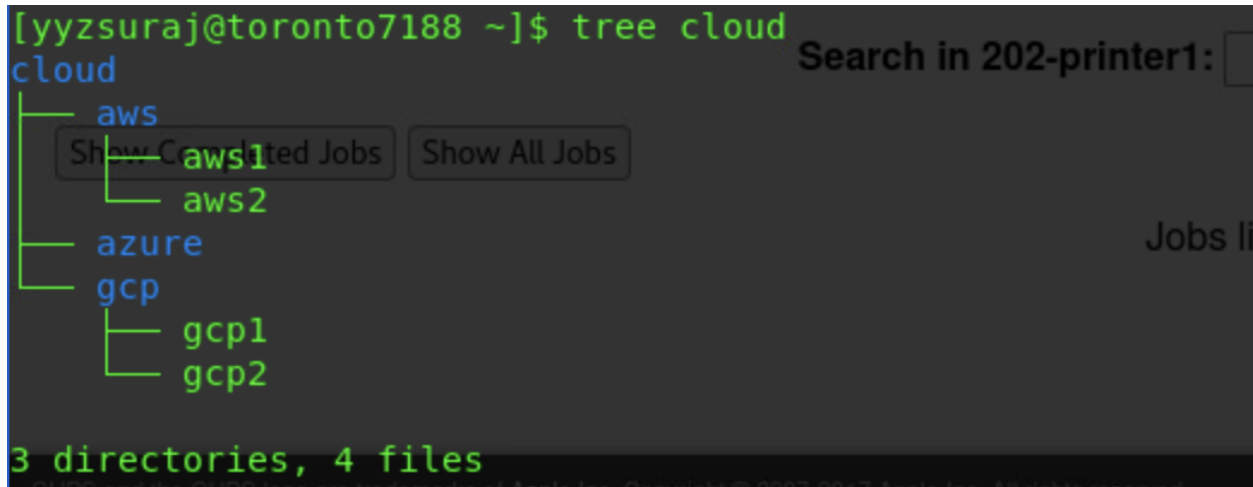
```
[yyzsauraj@toronto7188 ~]$ ls -IR backup
labs lesson
```

PART C –

10 a-

```
[yyzsuraj@toronto7188 ~]$ tree cloud
cloud
├── aws
│   ├── aws1
│   └── aws2
├── azure
└── gcp
    ├── gcp1
    └── gcp2

3 directories, 4 files
```



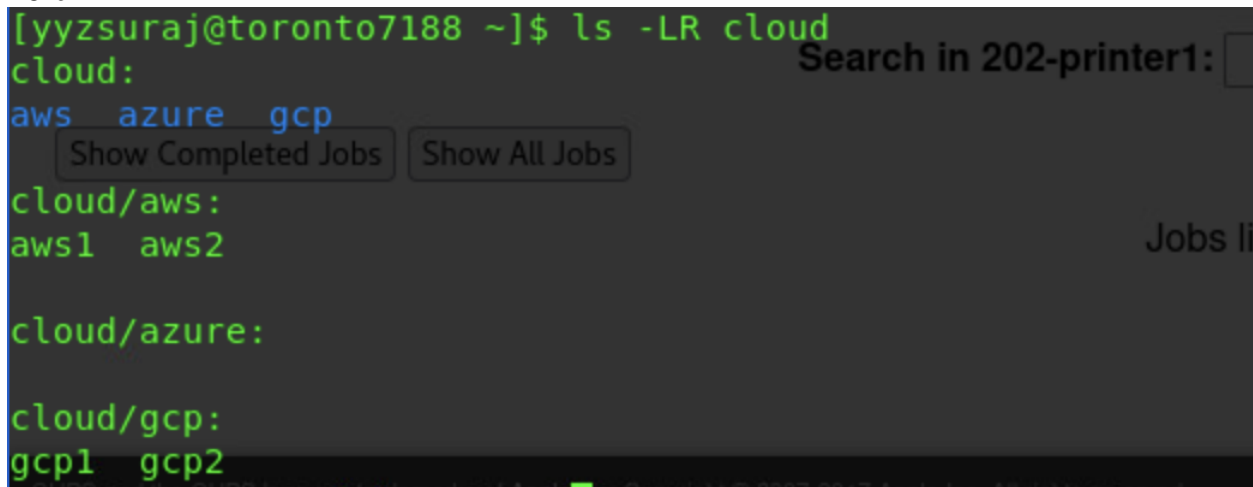
10 b-

```
[yyzsuraj@toronto7188 ~]$ ls -LR cloud
cloud:
aws  azure  gcp
Show Completed Jobs Show All Jobs

cloud/aws:
aws1  aws2
Jobs li

cloud/azure:

cloud/gcp:
gcp1  gcp2
```



11- Because the directory is not empty, the right command should be `rm -rf`

12- It deletes because the directory was empty and `rmdir` is used to delete empty directories only

13-

```

[yyzsuraj@toronto7188 ~]$ stat mylab3
File: mylab3
Size: 0          Blocks: 0          IO Block: 4096   regular empty file
Device: fd00h/64768d    Inode: 52294391   Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1001/yyzsuraj)   Gid: ( 1001/yyzsuraj)
Context: unconfined_u:object_r:user_home_t:s0
Access: 2023-02-03 09:26:45.050567467 -0500
Modify: 2023-02-03 09:26:45.050567467 -0500
Change: 2023-02-03 09:26:45.050567467 -0500
Birth: 2023-02-03 09:26:45.050567467 -0500
[yyzsuraj@toronto7188 ~]$ ls -LR cloud
cloud:
gcp

cloud/gcp:
gcp1 gcp2

```

14 -

```

[yyzsuraj@toronto7188 ~]$ stat mylab3
File: mylab3
Size: 7          Blocks: 8          IO Block: 4096   regular file
Device: fd00h/64768d    Inode: 52294391   Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1001/yyzsuraj)   Gid: ( 1001/yyzsuraj)
Context: unconfined_u:object_r:user_home_t:s0
Access: 2023-02-03 09:26:45.050567467 -0500
Modify: 2023-02-03 09:28:16.629570990 -0500
Change: 2023-02-03 09:28:16.629570990 -0500
Birth: 2023-02-03 09:26:45.050567467 -0500

```

15.

```

[yyzsuraj@toronto7188 ~]$ stat mylab3
File: mylab3
Size: 20         Blocks: 8          IO Block: 4096   regular file
Device: fd00h/64768d    Inode: 52294394   Links: 1
Access: (0664/-rw-rw-r--)  Uid: ( 1001/yyzsuraj)   Gid: ( 1001/yyzsuraj)
Context: unconfined_u:object_r:user_home_t:s0
Access: 2023-02-03 09:29:15.162573241 -0500
Modify: 2023-02-03 09:29:15.162573241 -0500
Change: 2023-02-03 09:29:15.164573241 -0500
Birth: 2023-02-03 09:29:15.162573241 -0500

```

16-

```

[yyzsuraj@toronto7188 ~]$ ls -l mylab3
-rw-rw-r--. 1 yyzsuraj yyzsuraj 20 Feb  3 09:29 mylab3

```

PART D

17-

```
[yyzsuraj@toronto7188 ~]$ ls -li *mylab*
52294394 -rw-rw-r--. 2 yyzsuraj yyzsuraj 20 Feb 3 09:29 hl-mylab3
52294394 -rw-rw-r--. 2 yyzsuraj yyzsuraj 20 Feb 3 09:29 mylab3
52294376 lrwxrwxrwx. 1 yyzsuraj yyzsuraj 6 Feb 3 13:10 sl-mylab3 -> mylab3
```

18-

```
[yyzsuraj@toronto7188 ~]$ ls -li cloud*
total 0
35324949 drwxrwxr-x. 2 yyzsuraj yyzsuraj 30 Feb 3 09:23 gcp
```

PART E

25-

```
[yyzsuraj@toronto7188 ~]$ history | grep -E 'find|locate'
216 find ~/ -name "ccgc*"
217 find ~/ -name "lab*" -o -name "module*"
218 sudo find / -size +100M
219 sudo find /-user $(id -u -n)
220 sudo find / -user $(id -u -n)
221 locate module1
222 history | grep -E 'find|locate'
```