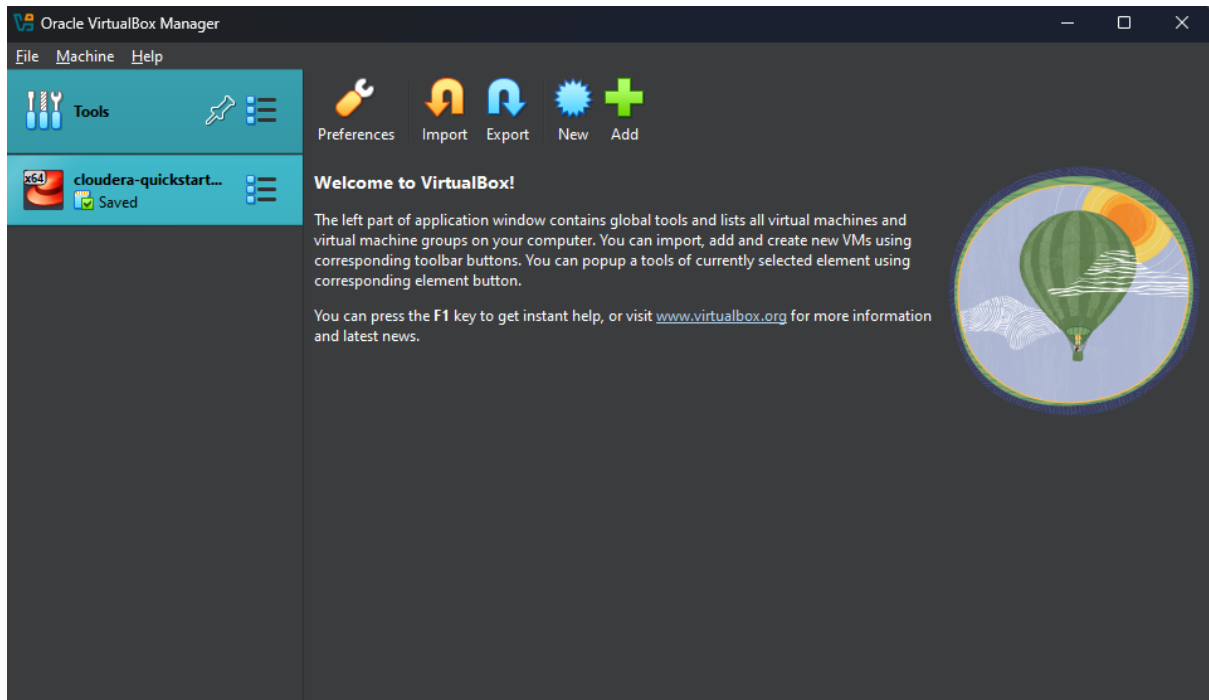


## PRACTICAL LAB 1

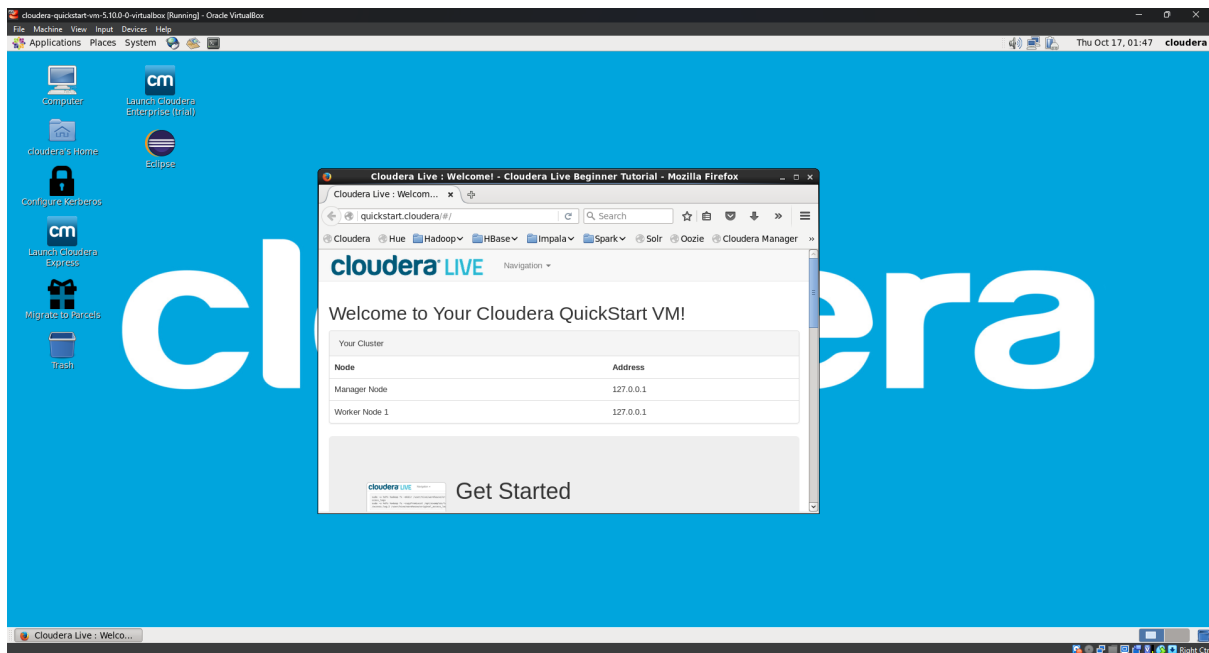
NAME: MUHAMAD RAFIQ IQBAL BIN SAMSUDIN

MATRIC NO: 17206926/KIG190073

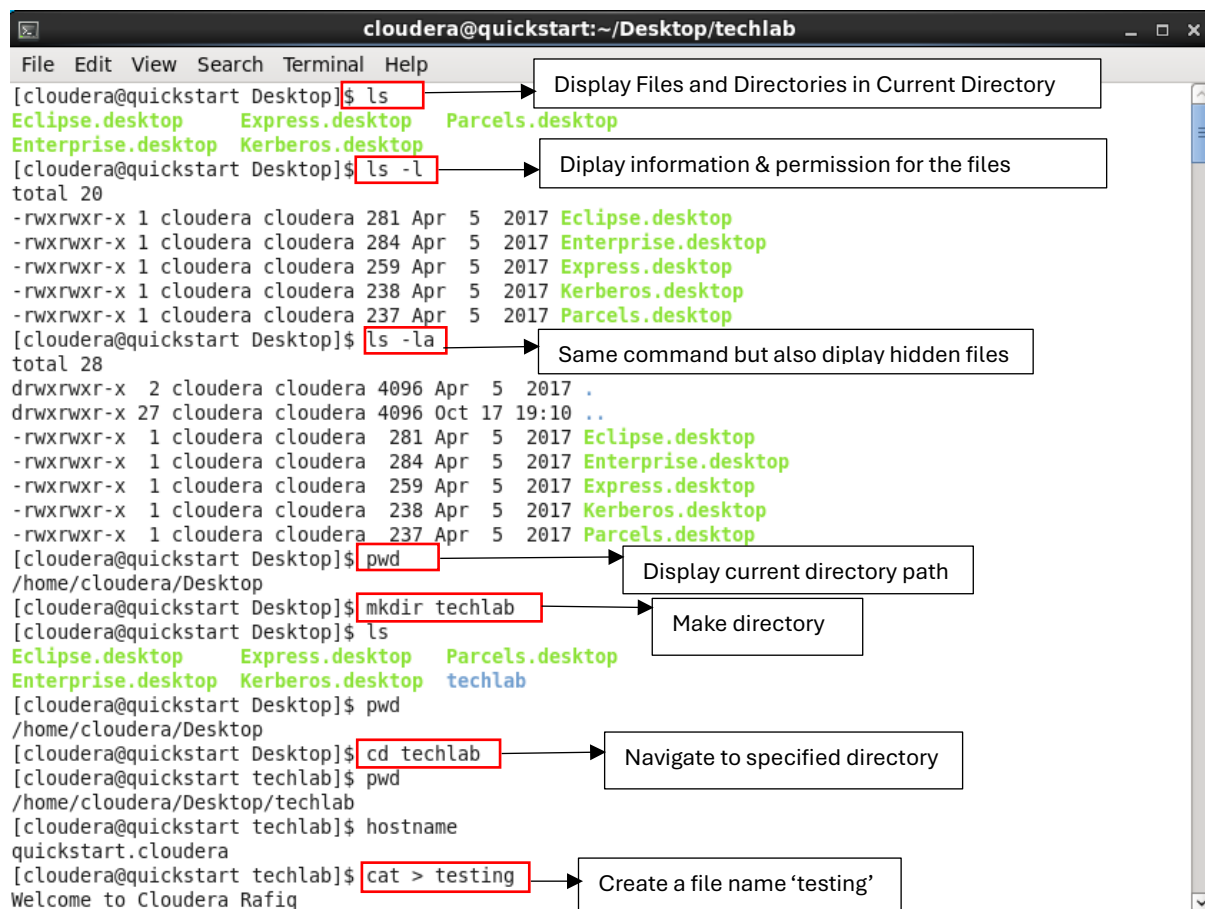
### 1.Screenshot 1 - Output of Oracle VirtualBox or VMWare.



### 2.Screenshot 2 - Output of Cloudera installation



### 3.Screenshot 3 – Output of Linux commands

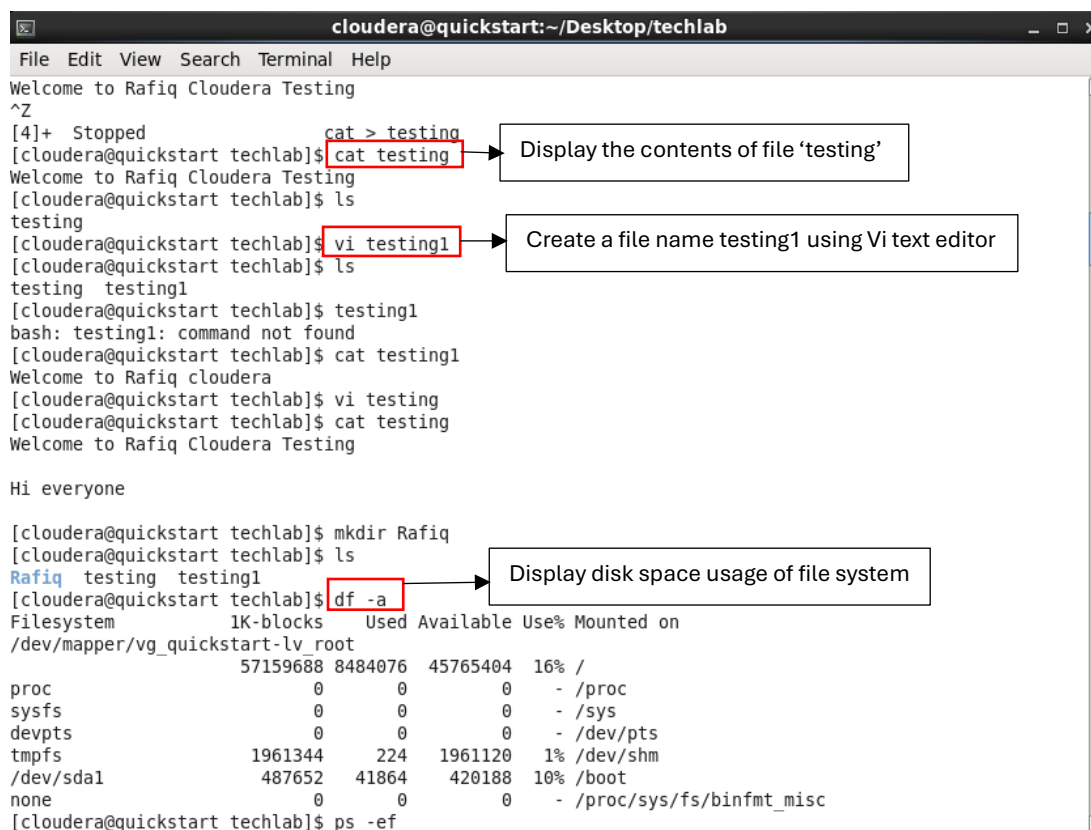


cloudera@quickstart: ~/Desktop/techlab

```
File Edit View Search Terminal Help
[cloudera@quickstart Desktop]$ ls
Eclipse.desktop  Express.desktop  Parcels.desktop
Enterprise.desktop  Kerberos.desktop
[cloudera@quickstart Desktop]$ ls -l
total 20
-rwxrwxr-x 1 cloudera cloudera 281 Apr  5 2017 Eclipse.desktop
-rwxrwxr-x 1 cloudera cloudera 284 Apr  5 2017 Enterprise.desktop
-rwxrwxr-x 1 cloudera cloudera 259 Apr  5 2017 Express.desktop
-rwxrwxr-x 1 cloudera cloudera 238 Apr  5 2017 Kerberos.desktop
-rwxrwxr-x 1 cloudera cloudera 237 Apr  5 2017 Parcels.desktop
[cloudera@quickstart Desktop]$ ls -la
total 28
drwxrwxr-x 2 cloudera cloudera 4096 Apr  5 2017 .
drwxrwxr-x 27 cloudera cloudera 4096 Oct 17 19:10 ..
-rwxrwxr-x 1 cloudera cloudera 281 Apr  5 2017 Eclipse.desktop
-rwxrwxr-x 1 cloudera cloudera 284 Apr  5 2017 Enterprise.desktop
-rwxrwxr-x 1 cloudera cloudera 259 Apr  5 2017 Express.desktop
-rwxrwxr-x 1 cloudera cloudera 238 Apr  5 2017 Kerberos.desktop
-rwxrwxr-x 1 cloudera cloudera 237 Apr  5 2017 Parcels.desktop
[cloudera@quickstart Desktop]$ pwd
/home/cloudera/Desktop
[cloudera@quickstart Desktop]$ mkdir techlab
[cloudera@quickstart Desktop]$ ls
Eclipse.desktop  Express.desktop  Parcels.desktop
Enterprise.desktop  Kerberos.desktop  techlab
[cloudera@quickstart Desktop]$ pwd
/home/cloudera/Desktop
[cloudera@quickstart Desktop]$ cd techlab
[cloudera@quickstart techlab]$ pwd
/home/cloudera/Desktop/techlab
[cloudera@quickstart techlab]$ hostname
quickstart.cloudera
[cloudera@quickstart techlab]$ cat > testing
Welcome to Cloudera Rafiq
```

Annotations:

- Display Files and Directories in Current Directory
- Display information & permission for the files
- Same command but also display hidden files
- Display current directory path
- Make directory
- Navigate to specified directory
- Create a file name 'testing'



cloudera@quickstart: ~/Desktop/techlab

```
File Edit View Search Terminal Help
Welcome to Rafiq Cloudera Testing
^Z
[4]+  Stopped                  cat > testing
[cloudera@quickstart techlab]$ cat testing
Welcome to Rafiq Cloudera Testing
[cloudera@quickstart techlab]$ ls
testing
[cloudera@quickstart techlab]$ vi testing1
[cloudera@quickstart techlab]$ ls
testing  testing1
[cloudera@quickstart techlab]$ testing1
bash: testing1: command not found
[cloudera@quickstart techlab]$ cat testing1
Welcome to Rafiq cloudera
[cloudera@quickstart techlab]$ vi testing
[cloudera@quickstart techlab]$ cat testing
Welcome to Rafiq Cloudera Testing

Hi everyone

[cloudera@quickstart techlab]$ mkdir Rafiq
[cloudera@quickstart techlab]$ ls
Rafiq  testing  testing1
[cloudera@quickstart techlab]$ df -a
Filesystem            1K-blocks    Used Available Use% Mounted on
/dev/mapper/vg_quickstart-lv_root
57159688 8484076 45765404 16% /
proc                  0          0          0 - /proc
sysfs                 0          0          0 - /sys
devpts               0          0          0 - /dev/pts
tmpfs                1961344    224    1961120 1% /dev/shm
/dev/sda1             487652    41864    420188 10% /boot
none                 0          0          0 - /proc/sys/fs/binfmt_misc
[cloudera@quickstart techlab]$ ps -ef
```

Annotations:

- Display the contents of file 'testing'
- Create a file name testing1 using Vi text editor
- Display disk space usage of file system



```
cloudera@quickstart:~/Desktop/techlab
File Edit View Search Terminal Help
COLORTERM=gnome-terminal
_=usr/bin/env
OLDPWD=/home/cloudera/Desktop
[cloudera@quickstart techlab]$ top
```

Display Task Manager

```
top - 19:55:11 up 48 min, 3 users, load average: 0.00, 0.00, 0.00
Tasks: 165 total, 1 running, 160 sleeping, 4 stopped, 0 zombie
Cpu(s): 0.3%us, 0.0%sy, 0.0%ni, 99.7%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Mem: 3922688k total, 3701852k used, 220836k free, 43504k buffers
Swap: 8388604k total, 0k used, 8388604k free, 783160k cached
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
7978	oozie	20	0	1877m	167m	22m	S	0.7	4.4	0:27.47	java
5219	hdfs	20	0	1565m	131m	20m	S	0.3	3.4	0:09.45	java
5792	yarn	20	0	1554m	123m	20m	S	0.3	3.2	0:07.27	java
6091	yarn	20	0	1711m	148m	20m	S	0.3	3.9	0:10.75	java
9336	cloudera	20	0	286m	14m	10m	S	0.3	0.4	0:04.20	gnome-terminal
1	root	20	0	19356	1536	1228	S	0.0	0.0	0:00.58	init
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	migration/0
4	root	20	0	0	0	0	S	0.0	0.0	0:00.05	ksoftirqd/0
5	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	stopper/0
6	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	watchdog/0
7	root	20	0	0	0	0	S	0.0	0.0	0:00.86	events/0
8	root	20	0	0	0	0	S	0.0	0.0	0:00.00	events/0
9	root	20	0	0	0	0	S	0.0	0.0	0:00.00	events_long/0
10	root	20	0	0	0	0	S	0.0	0.0	0:00.00	events_power_ef
11	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cgroup
12	root	20	0	0	0	0	S	0.0	0.0	0:00.00	khelper
13	root	20	0	0	0	0	S	0.0	0.0	0:00.00	netns
14	root	20	0	0	0	0	S	0.0	0.0	0:00.00	async/mgr
15	root	20	0	0	0	0	S	0.0	0.0	0:00.00	pm
16	root	20	0	0	0	0	S	0.0	0.0	0:00.00	sync_supers

```
cloudera@quickstart:~/Desktop/techlab
File Edit View Search Terminal Help
[5]+ Stopped
[cloudera@quickstart techlab]$ free
```

Display memory usage

```
Mem: 3922688 3701984 220704 3984 43512 783160
-/+ buffers/cache: 2875312 1047376
Swap: 8388604 0 8388604
```

Shows how long the system has been running

```
[cloudera@quickstart techlab]$ uptime
19:55:22 up 48 min, 3 users, load average: 0.00, 0.00, 0.00
[cloudera@quickstart techlab]$ history
1  ls
2  ls -l
3  ls -la
4  pwd
5  mkdir techlab
6  ls
7  pwd
8  cd techlab
9  pwd
10 hostname
11 cat > testing
12 cat > testing
13 3
14 cat testing
15 cd
16 pwd
17 cd techlab
18 ls
19 pwd
20 cd Desktop/
21 ls
22 cd techlab
23 ls
```