

What is the configuration of your machine? Mention the OS and RAM details.

I am using Macbook Pro 2012 and RAM 8GB

Did you setup Cloudera development environment on your machine?

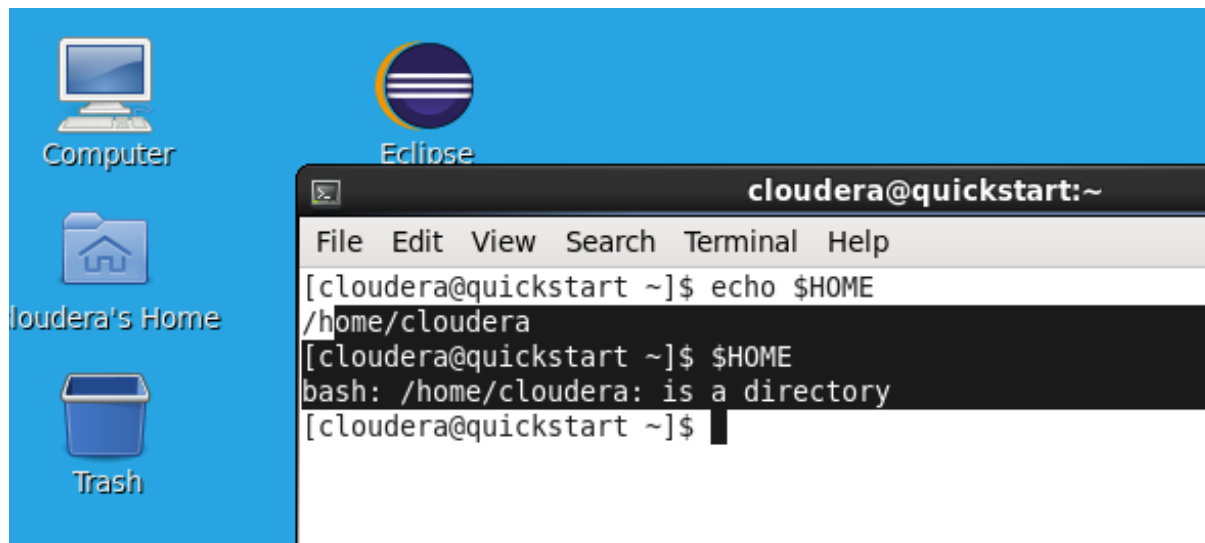
Yes I have setup the Cloudera development environment on my machine

Mention whether you'll be using VMWare or Virtualbox or Docker.

Using Virtualbox

What is the meaning of \$HOME in your newly setup environment?

Try to run this command in the terminal of your VM and paste screenshot.



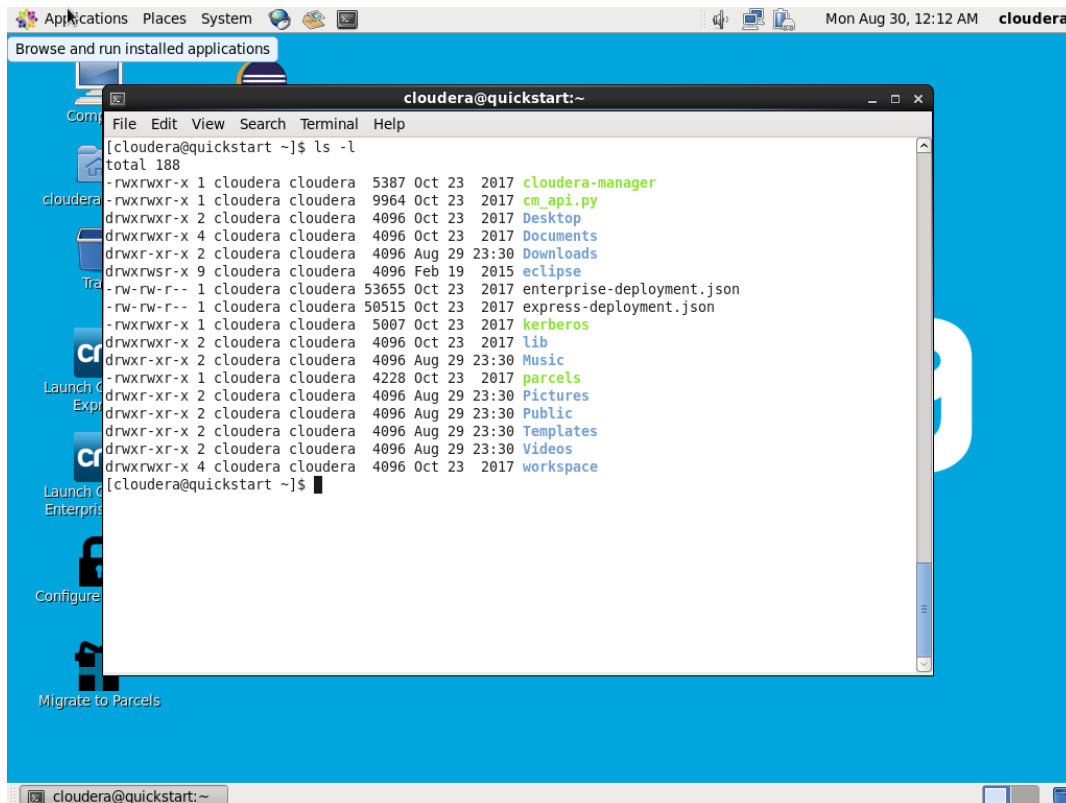
What is the meaning of SUDO in Unix/Linux environment?

SUDO means Super User Do. It allows us to elevate the current user account to have root privileges temporarily.

Write and briefly explain any 5 Unix/Linux commands.

Paste screenshots of the results of executing these 5 commands in “terminal”

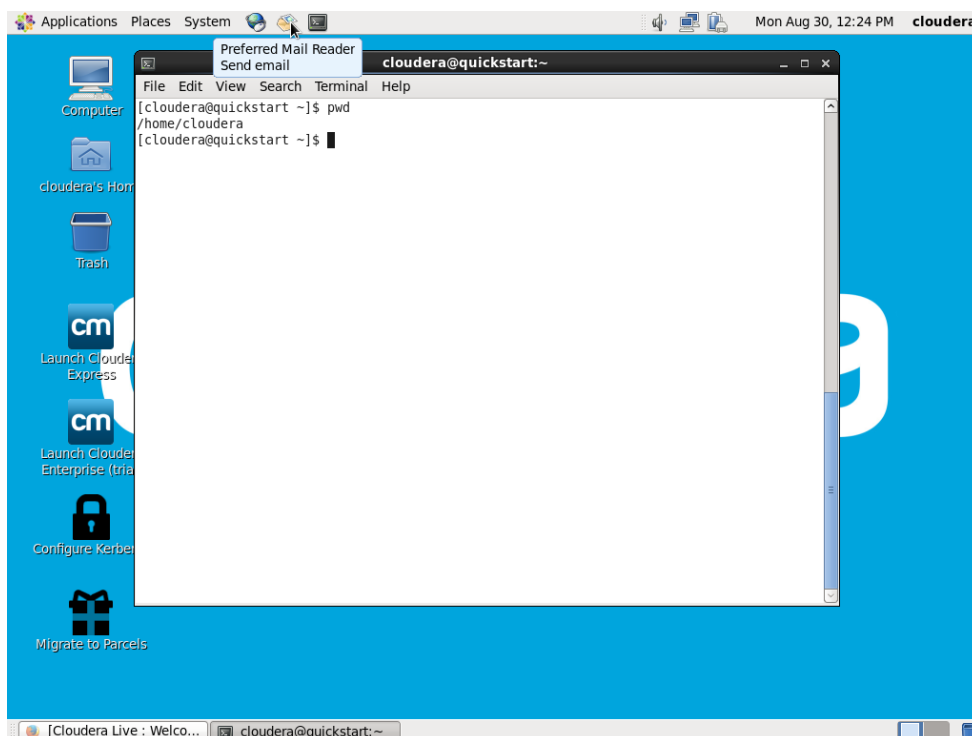
Command – 1: ls - lists the contents of the director



The screenshot shows a terminal window titled 'cloudera@quickstart:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The command '[cloudera@quickstart ~]\$ ls -l' has been executed, resulting in a detailed listing of files and directories. The output includes permissions, owner, group, size, date, time, and file name. Files listed include 'cloudera-manager', 'cm_api.py', 'Desktop', 'Documents', 'Downloads', 'eclipse', 'enterprise-deployment.json', 'express-deployment.json', 'kerberos', 'lib', 'Music', 'parcels', 'Pictures', 'Public', 'Templates', 'Videos', and 'workspace'. The terminal window is overlaid on a desktop environment with a blue background and various icons on the left sidebar.

```
[cloudera@quickstart ~]$ ls -l
total 188
-rwxrwxr-x 1 cloudera cloudera 5387 Oct 23 2017 cloudera-manager
-rwxrwxr-x 1 cloudera cloudera 9964 Oct 23 2017 cm_api.py
drwxrwxr-x 2 cloudera cloudera 4096 Oct 23 2017 Desktop
drwxrwxr-x 4 cloudera cloudera 4096 Oct 23 2017 Documents
drwxr-xr-x 2 cloudera cloudera 4096 Aug 29 23:30 Downloads
drwxrwsr-x 9 cloudera cloudera 4096 Feb 19 2015 eclipse
-rw-rw-r-- 1 cloudera cloudera 53655 Oct 23 2017 enterprise-deployment.json
-rw-rw-r-- 1 cloudera cloudera 50515 Oct 23 2017 express-deployment.json
-rwxrwxr-x 1 cloudera cloudera 5007 Oct 23 2017 kerberos
drwxrwxr-x 2 cloudera cloudera 4096 Oct 23 2017 lib
drwxr-xr-x 2 cloudera cloudera 4096 Aug 29 23:30 Music
-rwxrwxr-x 1 cloudera cloudera 4228 Oct 23 2017 parcels
drwxr-xr-x 2 cloudera cloudera 4096 Aug 29 23:30 Pictures
drwxr-xr-x 2 cloudera cloudera 4096 Aug 29 23:30 Public
drwxr-xr-x 2 cloudera cloudera 4096 Aug 29 23:30 Templates
drwxr-xr-x 2 cloudera cloudera 4096 Aug 29 23:30 Videos
drwxrwxr-x 4 cloudera cloudera 4096 Oct 23 2017 workspace
[cloudera@quickstart ~]$
```

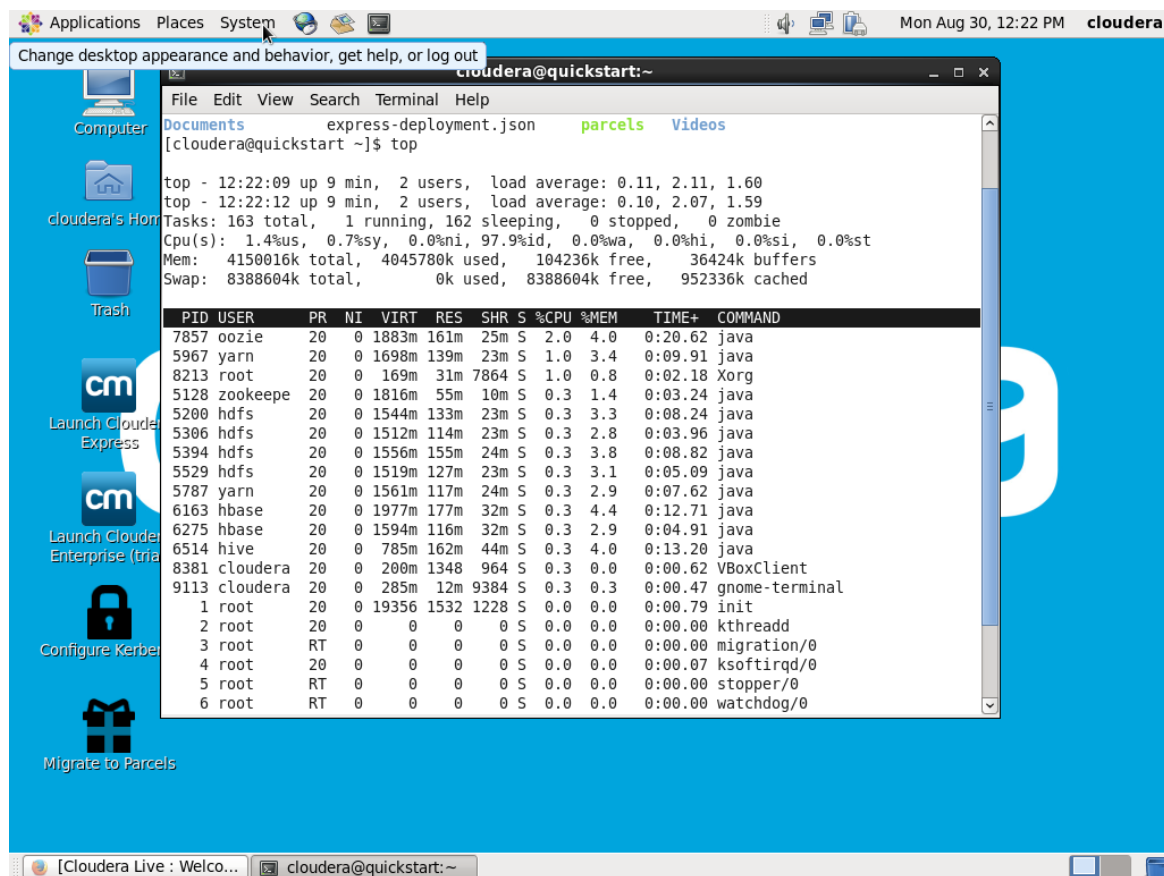
Command – 2: pwd - present working directory



The screenshot shows a terminal window titled 'cloudera@quickstart:~' with a menu bar (File, Edit, View, Search, Terminal, Help). The command '[cloudera@quickstart ~]\$ pwd' has been executed, resulting in the output '/home/cloudera'. The terminal window is overlaid on a desktop environment with a blue background and various icons on the left sidebar. A 'Preferred Mail Reader' dialog box is visible in the background.

```
[cloudera@quickstart ~]$ pwd
/home/cloudera
[cloudera@quickstart ~]$
```

Command – 3: top - displays a list of processes or threads currently being used by the system kernel



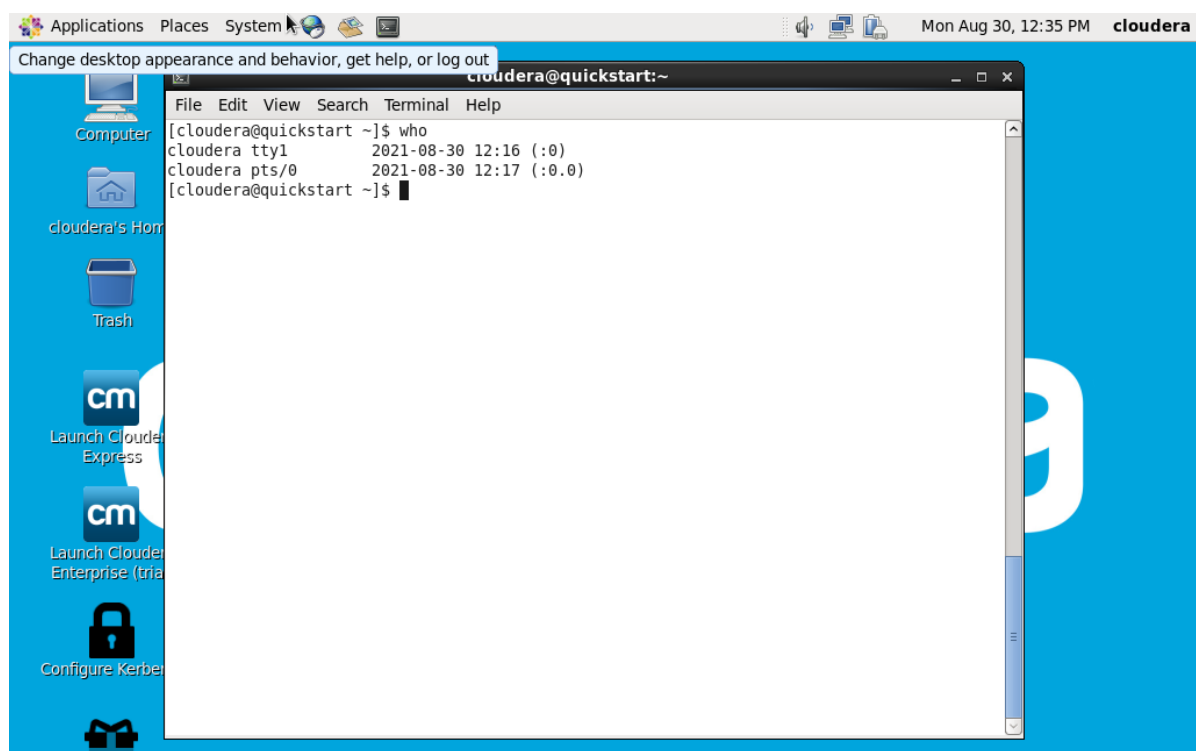
The screenshot shows a Linux desktop with a blue background and a sidebar on the left containing icons for 'Computer', 'cloudera's Home', 'Trash', 'Launch Cloudera Express', 'Launch Cloudera Enterprise (trial)', 'Configure Kerberos', and 'Migrate to Parcels'. The top panel displays 'Applications', 'Places', 'System', and the date/time 'Mon Aug 30, 12:22 PM' along with the username 'cloudera'. A terminal window titled 'cloudera@quickstart:~' is open, showing the output of the 'top' command. The output includes system statistics and a table of running processes.

```
cloudera@quickstart:~$ top
```

top - 12:22:09 up 9 min, 2 users, load average: 0.11, 2.11, 1.60
top - 12:22:12 up 9 min, 2 users, load average: 0.10, 2.07, 1.59
Tasks: 163 total, 1 running, 162 sleeping, 0 stopped, 0 zombie
Cpu(s): 1.4%us, 0.7%sy, 0.0%ni, 97.9%id, 0.0%wa, 0.0%hi, 0.0%si, 0.0%st
Mem: 4150016k total, 4045780k used, 104236k free, 36424k buffers
Swap: 8388604k total, 0k used, 8388604k free, 952336k cached

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
7857	oozie	20	0	1883m	161m	25m	S	2.0	4.0	0:20.62	java
5967	yarn	20	0	1698m	139m	23m	S	1.0	3.4	0:09.91	java
8213	root	20	0	169m	31m	7864	S	1.0	0.8	0:02.18	Xorg
5128	zookeepe	20	0	1816m	55m	10m	S	0.3	1.4	0:03.24	java
5200	hdfs	20	0	1544m	133m	23m	S	0.3	3.3	0:08.24	java
5306	hdfs	20	0	1512m	114m	23m	S	0.3	2.8	0:03.96	java
5394	hdfs	20	0	1556m	155m	24m	S	0.3	3.8	0:08.82	java
5529	hdfs	20	0	1519m	127m	23m	S	0.3	3.1	0:05.09	java
5787	yarn	20	0	1561m	117m	24m	S	0.3	2.9	0:07.62	java
6163	hbase	20	0	1977m	177m	32m	S	0.3	4.4	0:12.71	java
6275	hbase	20	0	1594m	116m	32m	S	0.3	2.9	0:04.91	java
6514	hive	20	0	785m	162m	44m	S	0.3	4.0	0:13.20	java
8381	cloudera	20	0	200m	1348	964	S	0.3	0.0	0:00.62	VBoxClient
9113	cloudera	20	0	285m	12m	9384	S	0.3	0.3	0:00.47	gnome-terminal
1	root	20	0	19356	1532	1228	S	0.0	0.0	0:00.79	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	0:00.07	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

Command – 4: who - shows currently logged on users



The screenshot shows the same Linux desktop environment as the previous one, but the terminal window now displays the output of the 'who' command. The output shows two users logged in: 'cloudera' on 'tty1' and 'cloudera' on 'pts/0'.

```
cloudera@quickstart:~$ who
```

USER	TTY	FROM	LOGIN TIME	idle
cloudera	tty1		2021-08-30 12:16 (:0)	
cloudera	pts/0		2021-08-30 12:17 (:0.0)	

Command – 5: rm – remove files or directories

