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1. [1] **Did you setup Cloudera development environment on your machine?**  
Please mention whether you'll be using VMWare or VirtualBox or Docker.
2. [2] **What is the meaning of \$HOME in your VM environment?**
3. [2] **What is the meaning of SUDO in Unix/Linux environment?**
4. [5] **Write and briefly explain any 5 Unix/Linux commands.**  
Paste screenshots of the results of executing these 5 commands in the "terminal"

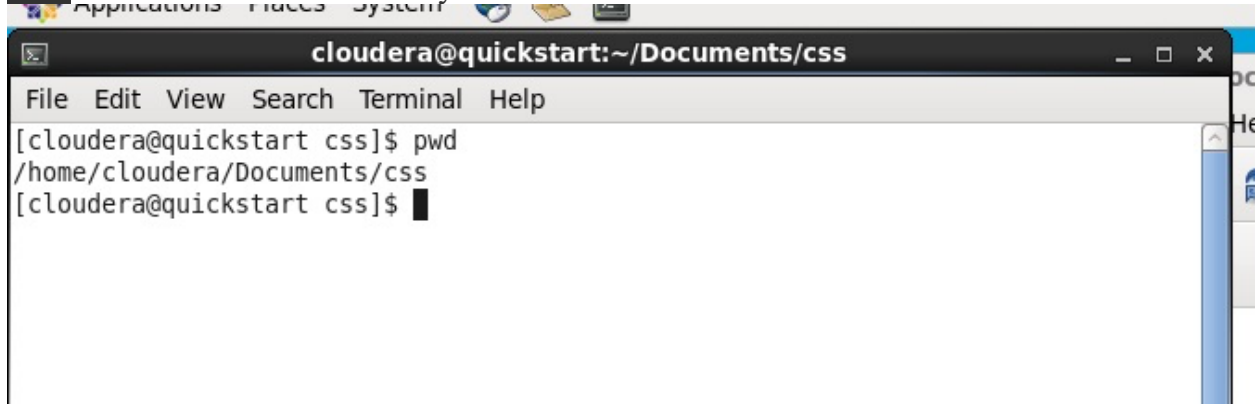
**Solutions:**

1. Yes, I have set up Cloudera development environment on my machine. And I will be using VMWare.
2. \$Home is an environment variable in Linux for VM virtual Box. For simplicity, we abbreviate the location of the home directory as "\$Home". Using that convention, the common folder for all virtual machines is "\$Home/VirtualBox VMs".
3. Sudo which is the one command to rule them all. It stands for "super user do!" As a Linux system administrator or power user, it's one of the most important commands in your arsenal.

Sudo is a Utility or a computer program for Unix- and Linux-like based systems that allow users to run programs with the security privileges of another use, by default the superuser.

4. They are as follows:

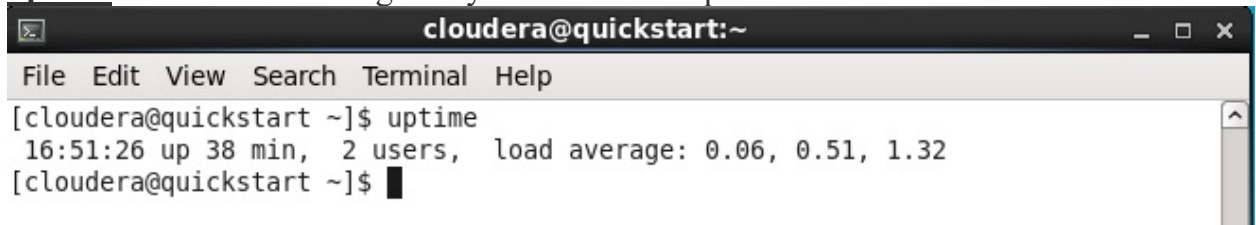
- a. **pwd** – confirm current directory



A terminal window titled "cloudera@quickstart:~/Documents/css" with a menu bar (File, Edit, View, Search, Terminal, Help). The command "pwd" is entered and executed, returning the path "/home/cloudera/Documents/css".

```
cloudera@quickstart:~/Documents/css
File Edit View Search Terminal Help
[cloudera@quickstart css]$ pwd
/home/cloudera/Documents/css
[cloudera@quickstart css]$
```

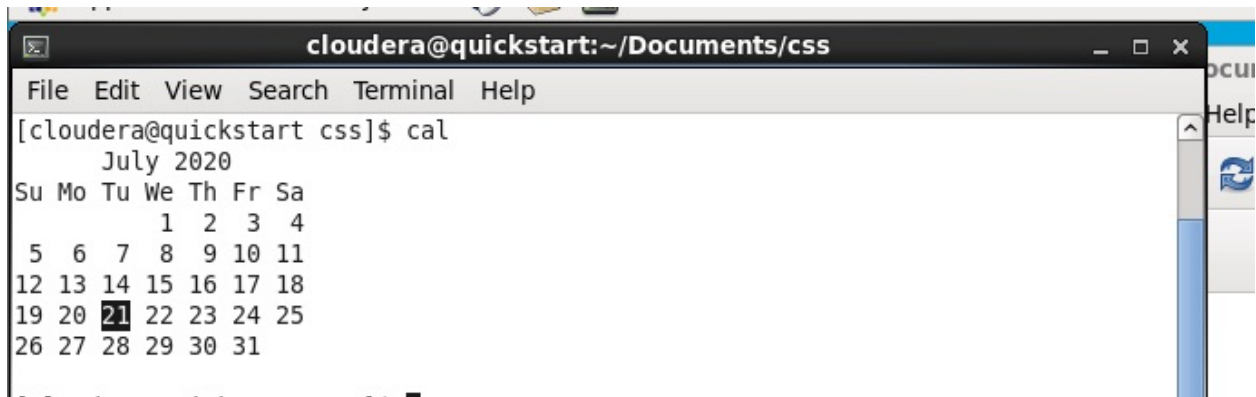
- b. **uptime** – find out how long the system has been up



A terminal window titled "cloudera@quickstart:~" with a menu bar (File, Edit, View, Search, Terminal, Help). The command "uptime" is entered and executed, showing system uptime and load averages.

```
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ uptime
16:51:26 up 38 min, 2 users, load average: 0.06, 0.51, 1.32
[cloudera@quickstart ~]$
```

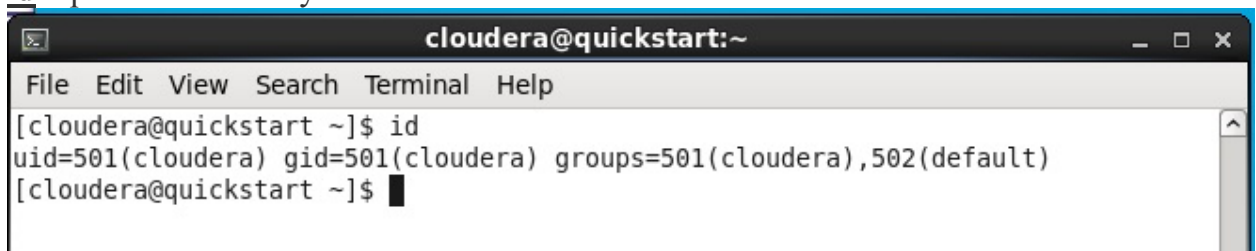
- c. **cal** --shows a calendar of the current month.



A terminal window titled "cloudera@quickstart:~/Documents/css" with a menu bar (File, Edit, View, Search, Terminal, Help). The command "cal" is entered and executed, displaying a calendar for July 2020.

```
cloudera@quickstart:~/Documents/css
File Edit View Search Terminal Help
[cloudera@quickstart css]$ cal
      July 2020
Su Mo Tu We Th Fr Sa
                1  2  3  4
 5  6  7  8  9 10 11
12 13 14 15 16 17 18
19 20 21 22 23 24 25
26 27 28 29 30 31
```

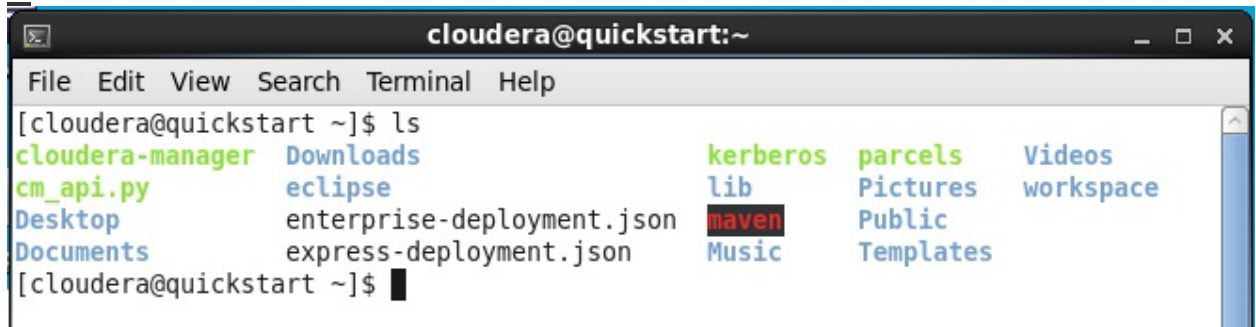
- d. **id** – print user identity



A terminal window titled "cloudera@quickstart:~" with a menu bar (File, Edit, View, Search, Terminal, Help). The command "id" is entered and executed, showing user and group IDs.

```
cloudera@quickstart:~
File Edit View Search Terminal Help
[cloudera@quickstart ~]$ id
uid=501(cloudera) gid=501(cloudera) groups=501(cloudera),502(default)
[cloudera@quickstart ~]$
```

- e. ls – list files and directories



A terminal window titled "cloudera@quickstart:~" with a menu bar (File, Edit, View, Search, Terminal, Help). The terminal shows the command `ls` being executed. The output lists files and directories in a color-coded, multi-column format. The files and directories listed are: `cloudera-manager` (green), `cm_api.py` (green), `Desktop` (blue), `Documents` (blue), `Downloads` (blue), `eclipse` (blue), `enterprise-deployment.json` (black), `express-deployment.json` (black), `kerberos` (green), `lib` (blue), `maven` (red), `Music` (blue), `parcels` (green), `Pictures` (blue), `Public` (blue), `Templates` (blue), `Videos` (blue), and `workspace` (blue). The prompt `[cloudera@quickstart ~]$` is shown at the bottom.

```
cloudera@quickstart:~  
File Edit View Search Terminal Help  
[cloudera@quickstart ~]$ ls  
cloudera-manager Downloads kerberos parcels Videos  
cm_api.py eclipse lib Pictures workspace  
Desktop enterprise-deployment.json maven Public  
Documents express-deployment.json Music Templates  
[cloudera@quickstart ~]$
```