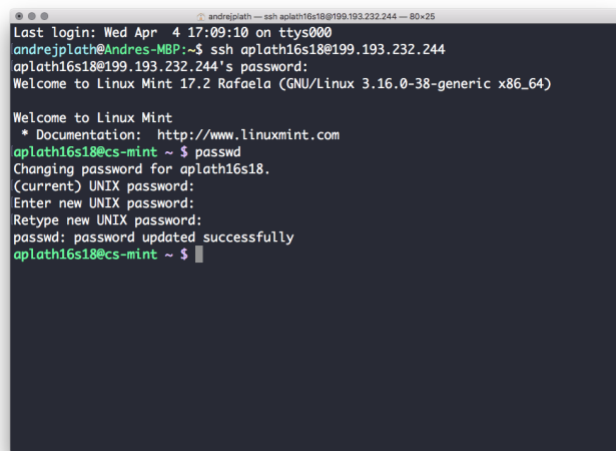Andre J Plath

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CS364 Information Management

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Lab 1 Linux Fun

I-II.   Connecting to a Linux Machine:
        SSH into server and entered password. Changed password upon first log-in.
Used "**passwd**" command to change password. The **passwd** command changes the
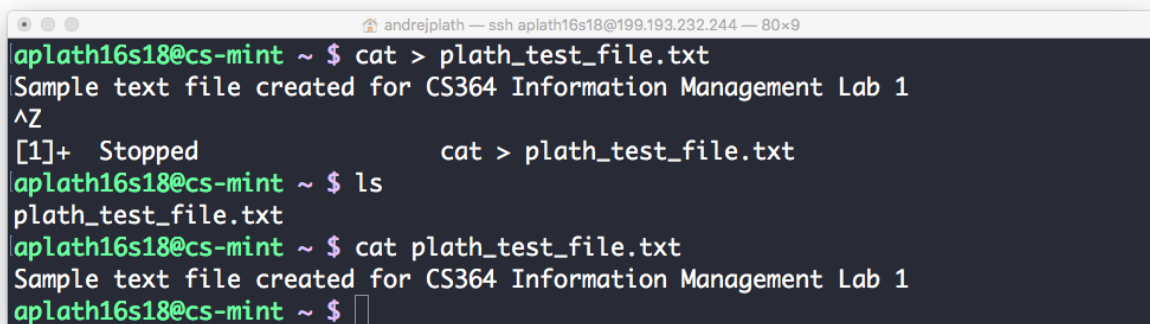user's password.

III. Basic User Commands:
    1) Used the "**cat**" command to create a new txt file. The command is for viewing
        and adding to text files. Used "**CTRL-Z**" to save file but also can use "**CTRL-
        D**" for same outcome.

    2) Used "**cd**" to change directory. The **cd** command allows you to change
        directories. Used "**ls**" command to list contents of directory. **The ls** command
        shows you the files in your current directory. Used "**cd**"to return to previous

directory.

3) Used "**cat**" command with the name of txt file to output content of file.

4) Used "**rm**" command to delete test txt file. The **rm** command is used to remove or delete a file in your directory.

```
●●●                    ⌂ andrejplath — ssh aplath16s18@199.193.232.244 — 80×9
aplath16s18@cs-mint ~ $ ls
plath_test_file.txt
aplath16s18@cs-mint ~ $ rm plath_test_file.txt
aplath16s18@cs-mint ~ $ ls
aplath16s18@cs-mint ~ $ █
```

5) Used "**top**" command to display information on the Linux system, running processes, and system resources, including the CPU, RAM, swap usage, and total number of tasks being run. Used "**q**" to quit.

```
●●●                    ⌂ andrejplath — ssh aplath16s18@199.193.232.244 — 80×24
top - 17:45:39 up 68 days, 17:23,  6 users,  load average: 0.04, 0.19, 0.20
Tasks: 308 total,   2 running, 305 sleeping,   1 stopped,   0 zombie
%Cpu(s):  4.3 us,  0.5 sy,  0.0 ni, 94.8 id,  0.0 wa,  0.0 hi,  0.3 si,  0.0 st
KiB Mem:   4041288 total,  3674260 used,   367028 free,   241464 buffers
KiB Swap:  2095100 total,    13416 used,  2081684 free.  1818512 cached Mem

  PID USER      PR  NI    VIRT    RES    SHR S  %CPU %MEM     TIME+ COMMAND
46032 rushingj  20   0 1481868 209616  67104 S   4.3  5.2  3767:51 cinnamon
55578 root      20   0  126884   6968   5820 S   1.3  0.2   0:00.04 sshd
55580 root      20   0  126884   6824   5684 S   0.7  0.2   0:00.02 sshd
 1070 mongodb   20   0  387196  58304  10816 S   0.3  1.4 602:25.45 mongod
46128 rushingj  20   0  595944 205104  20816 S   0.3  5.1 100:19.15 cinnamon-s+
55520 aplath1+  20   0   25076   3244   2620 R   0.3  0.1   0:00.44 top
55581 sshd      20   0   62824   3124   2364 S   0.3  0.1   0:00.01 sshd
    1 root      20   0   33920   4324   2652 S   0.0  0.1   1:06.07 init
    2 root      20   0       0      0      0 S   0.0  0.0   0:00.22 kthreadd
    3 root      20   0       0      0      0 S   0.0  0.0  16:03.56 ksoftirqd/0
    5 root       0 -20       0      0      0 S   0.0  0.0   0:00.00 kworker/0:+
    7 root      20   0       0      0      0 S   0.0  0.0  53:18.94 rcu_sched
    8 root      20   0       0      0      0 R   0.0  0.0  42:58.42 rcuos/0
    9 root      20   0       0      0      0 S   0.0  0.0   4:12.74 rcuos/1
   10 root      20   0       0      0      0 S   0.0  0.0   0:00.00 rcuos/2
   11 root      20   0       0      0      0 S   0.0  0.0   0:00.00 rcuos/3
aplath16s18@cs-mint ~ $ █
```
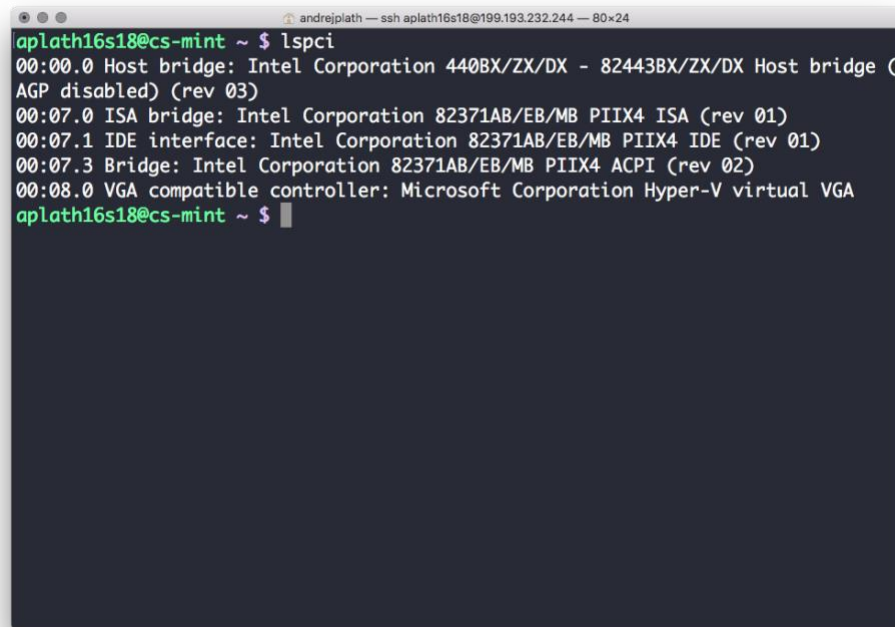
6) Used "**clear"** to clear screen of content.

```
  2 root       20   0         0       0       0 S   0.0  0.0   0:00.22 kthreadd
  3 root       20   0         0       0       0 S   0.0  0.0  16:03.56 ksoftirqd/0
  5 root        0 -20         0       0       0 S   0.0  0.0   0:00.00 kworker/0:+
  7 root       20   0         0       0       0 S   0.0  0.0  53:18.94 rcu_sched
  8 root       20   0         0       0       0 R   0.0  0.0  42:58.42 rcuos/0
  9 root       20   0         0       0       0 S   0.0  0.0   4:12.74 rcuos/1
 10 root       20   0         0       0       0 S   0.0  0.0   0:00.00 rcuos/2
 11 root       20   0         0       0       0 S   0.0  0.0   0:00.00 rcuos/3
aplath16s18@cs-mint ~ $ clear

aplath16s18@cs-mint ~ $ █
```

7) Used the "**who**" command. The **who** command tells you who is currently logged into the machine.

```
aplath16s18@cs-mint ~ $ who
aplath16s18 pts/2        2018-04-04 17:07 (76-14-196-251.or.wavecable.com)
rushingj pts/4        2018-04-03 12:32 (john-10.wou.edu)
tholman17s18 pts/7        2018-04-04 17:12 (c-73-180-18-113.hsd1.or.comcast.net)
rcaamalcastillo13s18 pts/8        2018-04-04 17:51 (192.95.68.102)
rushingj tty8        2018-02-08 09:46 (:0)
rushingj pts/1        2018-02-08 09:48 (:0)
aplath16s18@cs-mint ~ $ █
```

8) Used "**lspci**" command. command lists all PCI buses and devices connected to them. This commonly includes network cards and sound cards.

IV. Cooler Commands:

1) "**banner**" command can print banners. No options and can print only 10 characters at most.

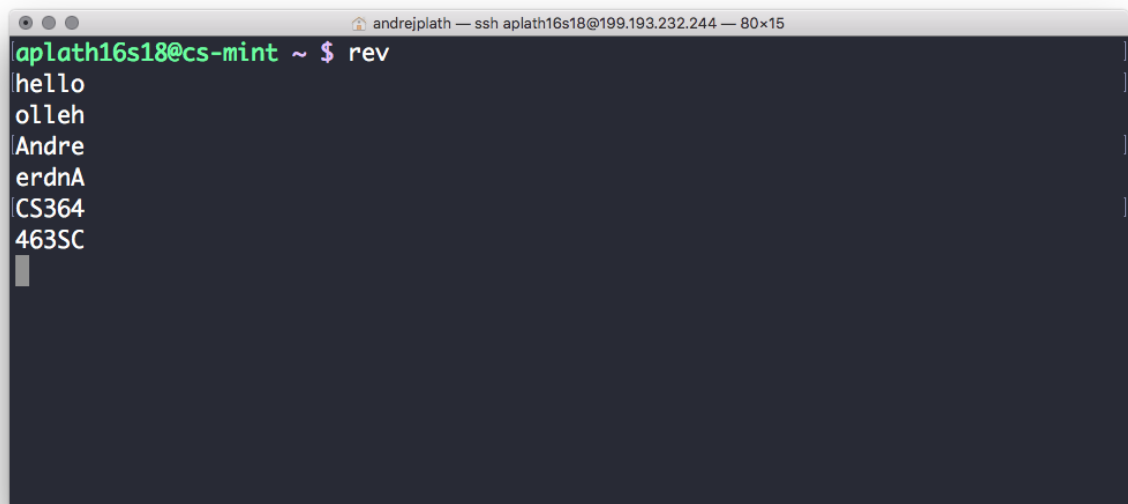2) "**fortune**" command will put up a random, but hopefully sensible quote, or your fortune for the day.

```
[aplath16s18@cs-mint ~ $ fortune
You will remember something that you should not have forgotten.
aplath16s18@cs-mint ~ $
```

3) "**rev**" command will print the reverse of whatever you type in. First run rev, then start typing one sentence at a time.

```
[aplath16s18@cs-mint ~ $ rev
[hello
olleh
[Andre
erdnA
[CS364
463SC
```