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| Name | Laura Adam |

CTS-120-841-Lab Module 5

* In this lab you will enter different Linux commands and answer questions about the results.
* Include a screen print of **just the area of the screen with the desired result** (not the whole screen) in the table cell below the question, unless otherwise instructed.
  + *Reminder: Use the* ***Shift-Ctrl-Prtscr shortcut*** *& select just the area that you want.*
* The lab is worth a total of 10 points – some questions have multiple sections

**Ungraded, but important**

* Go through the **Cursor movement (table 8-1), text editing (table 8-2), cut and paste (table 8-2), completion,** and **Using History** commands at the beginning of Chapter 8.
* Try some/all of these.
* There **will** be quiz questions on them, plus lots of them will be used in future labs to make your Linux lives easier.

In order to complete these questions & many in the future you will need to change the password for the user **root:**

In the terminal type:

sudo passwd root

1. It will ask you to enter **your** student password to elevate your privileges
2. Type a new root password that you will remember & then type it again
3. If you use a simple password such as ***Password,*** it will tell you it is a ***BAD PASSWORD,*** but it WILL let you use that password

[student@localhost ~]$ sudo passwd root

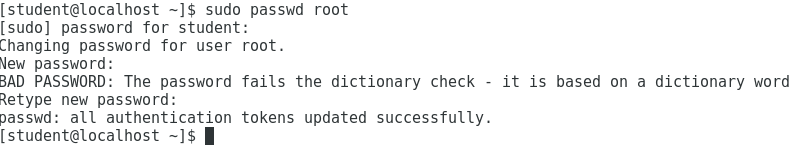
[sudo] password for student:

Changing password for user root.

New password:

Retype new password:

passwd: all authentication tokens updated successfully.



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| 1. Create a file mod5-file.txt   What are the default permissions on the file | | 1 Pt |
| Owner-  Owner Group-  World - | rw- read and write  rw- read and write  r—read only | |
| **Screenprint**: | -rw-rw-r--. 1 student student 0 Feb 26 19:31 mod5-file.txt | |

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| 1. Change the permissions on the file **mod5-file.txt** to **allow only the owner and group to read and write**, give **no** privileges to **world** | | 1 Pt |
| **Command:** | chmod o-rw mod5-file.txt | |
| **Screenprint**: | [student@localhost ~]$ chmod o-rw mod5-file.txt  [student@localhost ~]$ ls -l mod5-file.txt  -rw-rw----. 1 student student 0 Feb 26 19:31 mod5-file.txt | |

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| 1. 3. Using symbolic representation add execute permission for the owner, group, and world to mod5-file.txt | | 1 Pt |
| **Command:** | chmod +x mod5-file.txt | |
| **Screenprint**: | [student@localhost ~]$ chmod +x mod5-file.txt  [student@localhost ~]$ ls -l mod5-file.txt  -rwxrwx--x. 1 student student 0 Feb 26 19:31 mod5-file.txt | |

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| 1. Using umask set the default permissions to be:   User = rw-  Group=r- -  World=r- -  Create a file **umask-test** and show me the resulting permissions | | 1 Pt |
| **Command:** | Umask 022 unmask.test | |
| **Screenprint**: | -rw-rw-r--. 1 student student 0 Mar 4 13:01 unmask-test | |

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| 1. Use the command: tail -5 /etc/shadow   Show me the last 5 lines of the shadow file.  Do it **WITHOUT** starting a shell as another user.  Your normal user will not have the permissions to do this; you will have to change identities | | 1 Pt |
| **Command:** | Sudo ‘tail -5 /etc/shadow | |
| **Screenprint**: | student@localhost ~]$ sudo 'tail-5/etc/shadow  > sudo 'tail-5/etc/shadow  [sudo] password for student: | |

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| 1. Run   tail -5 /etc/shadow  as a single command by passing it to a shell for execution as another user (root). | | 1 Pt |
| **Command:** | su -c ‘tail -5 /etc/shadow’ | |
| **Screenprint**: | [student@localhost ~]$ su -c tail-5/etc/shadow  Password:  su: Authentication failure | |

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| 1. Change the ownership of the file **mod5-file.txt** to:   User=sshd  Group= wheel | | 1 Pt |
| **Command:** | chown student :wheel mod5-file.txt  **CHOWN SSHD:WHEEL MOD5\_FILE.TXT DIDNT** | |
| **Screenprint**: | -rw-rw-r--. 1 student wheel 0 Mar 4 13:01 mod5-file.txt | |

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| 1. Show all your running processes regardless of what terminal (if any) they are controlled by.   It will be a long list , just show me the last 5 or so. | | 1 Pt |
| **Command:** | [student@localhost ~]$ ps x | |
| **Screenprint**: | 2930 ? Sl 0:00 /usr/libexec/gvfsd-metadata  2957 ? Sl 0:05 /usr/libexec/gnome-terminal-server  2963 ? S 0:00 gnome-pty-helper  2964 pts/0 Ss 0:00 bash  51612 pts/0 R+ 0:00 ps x | |

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| 1. Show me the top processes on the system.   It will be a long list, just show me the header and the top 5. | | 1 Pt |
| **Command:** | [student@localhost ~]$ ps x | |
| **Screenprint**: | [student@localhost ~]$ ps x  PID TTY STAT TIME COMMAND  1877 ? Sl 0:00 /usr/bin/gnome-keyring-daemon --daemonize --login  1882 ? Ssl 0:00 /usr/libexec/gnome-session-binary --session gnome-classic  1891 ? S 0:00 dbus-launch --sh-syntax --exit-with-session  1892 ? Ssl 0:00 /usr/bin/dbus-daemon --fork --print-pid 5 --print-address 7  1961 ? Sl 0:00 /usr/libexec/imsettings-daemon | |

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| 1. What is the **process ID (PID)** and **command** that is using the most memory? | | 1 Pt |
| **PID:**  **Top Command:** | 2119  /usr/bin/gnome-shell | |
| **Screenprint**: | USER PID %CPU %MEM VSZ RSS TTY STAT START TIME COMMAND  student 2119 1.2 15.6 3010692 156660 ? Sl 11:48 0:46 /usr/bin/gnome-shell | |

My password keeps defaulting to the CENTOS Student password – Why? IS the new password only associated with the temporary virtual machine?

What am I missing from the examples in the book syntax wise? They don’t run on my VM ? I use google to get more info on the command but still get errors (#4,5,6,7)