* Create a new user with the following details:

**sudo adduser slee**

* Username: slee
* Full Name: Stan Lee
* Work Phone: 1-800-HEROES
* Password: Marvelwins
* Create a new user with the following details:

**sudo adduser wdisney**

* + Username: wdisney
  + Full Name: Walt Disney
  + Work Phone: 1-800-MAGIC
  + Password: Marvelwins
* Login as “Stan Lee”.
* Create the following directories:
  + /marvel\_characters/avengers
  + /marvel\_characters/ideas
  + /top\_secret
* Create a text file in the “avengers” directory called “avengers.txt” with the following text (each name is on a separate line):
  + Captain America
  + Incredible Hulk
  + Ironman
  + Black Widow
  + Hawkeye
  + Thor
  + Spiderman
  + Doctor Strange
* Sort the text within this file Alphabetically and output not save

**:sort in command mode of VIM**

* Create a text file in the users root directory with the following text(each name is on a separate line:
  + Doctor Weird
  + Metal Man
  + Sharknado
  + Fireball
  + The Rooster
  + Mermaid Man
  + Barnacle Boy
* Reverse sort the list.

**:sort! in command mode of VIM**

* Move the file to /marvel\_characters/ideas.
* Create a new hidden text file “do\_not\_open” in the top\_secret directory. Include the following text within the file:
  + “My favorite superhero is: [fill with the name of your favorite superhero]”.
* Run the command to display this file in its directory.

**mv .do\_not\_open.txt do\_not\_open.txt**

* Copy the files in the “marvel\_characters” directory into “tmp”

**cp -R \* /tmp**

* Archive the copied files into all\_charachters.tar

**tar -cf all\_characters.tar avengers ideas**

* gzip the all\_charachters.tar file

**gzip all\_characters.tar**

* Display the contents of this file without unzipping.

**tar -tvf all\_characters.tar.gz**

* How much space did you save by compressing the files?

**10K – 0.35 = 9.65K**

* Copy the zipped all\_charachters.tar file into Walt Disney’s home directory.

**sudo cp all\_characters.tar.gz /home/wdisney**

* Return to the root directory of this user.
* Display a list of all of the file names, under your home directory and all subdirectories, which have file names ending with .txt using the “find” command.

**find /home/slee -name “\*.txt”**

* Login to Walt Disney
* Unzip the all\_charachters.tar file

**gunzip all\_characters.tar.gz**

* Return to your user.
* Use the find command to identify the location of the “syslog” file.

**sudo find -name “syslog”**

* Use the locate command to identify the location of the “syslog” file.

**locate -b ‘\syslog’**

* Note the difference between the two.
* Display the last 10 lines of the current syslog file.

**tail /var/log/syslog**

* Elevate your user privilege to be the root/superuser.

**sudo -i**

* Which process is consuming the max CPU resource? (pid 1789)

**top**

* Are there any parent processes? (Yes)

**pstree -p**

* Where is the binary file for this process located? (/usr/bin/gnome-shell)

**readlink -f /proc/1789/exe**

* What is the size of this file? (19K)

**ls -lh | grep “gnome-shell”**

* What are the permissions on this file? (-rwxr-xr-x)
* **ls -lh | grep “gnome-shell”**
* How long has the system been running?

**uptime**