Linux 101
Assignment Due Date: 1/20/16

Many activities we do throughout the semester will rely on using the Linux command line interface (CLI) to some extent. While graphical user interfaces (GUIs) are handy, they rarely provide the full level of customization offered by a CLI with respect to performing system tasks. While the commands, tips and tricks we discussed in class are a good start to understanding how to interact with the Linux CLI, a deeper exploration is needed to really give yourself a good foundation upon which to build.

Answer the questions below using your preferred document editing software. When you're finished, convert the document into a PDF file and submit it via Blackboard for grading in the "Assignments" section.

1. What command prints the current working directory to STDOUT?

2. How is the tilde (~) interpreted by the shell?

3. What command locates files on the system?

4. What does the "grep" command do?

5. What command modifies the permissions of a file?

6. What does the "wget" command do?

7. What symbol(s) redirect the output of a command?

8. What does the "scp" command do?

9. How is archiving/compression done in Linux (by default)?

10. What does the "sudo" command do?

For the next set of questions, give your answer in the form of the Linux command that will satisfy the listed task. The first question has been answered for you as an example.

1. Display the contents of "homework.txt" to STDOUT
    cat homework.txt

2. Open the file "homework.txt" for editing using the *nano* text editor

3. Make a backup of "homework.txt" by copying it to another file named "homework_backup.txt"

4. Delete your original "homework.txt" file

5. Download your friend's homework file located at http://www.dirtyhomeworkcheater.com/it2910/hw1.txt and save it as "copied_homework.txt"

6. Look at the differences between your friend's homework (copied_homework.txt) and your homework file (homework_backup.txt)

7. You realize that your friend is an idiot; delete your friend's homework file (copied_homework.txt)

8. Change the name of "homework_backup.txt" to "homework.txt"

9. Upload your homework file to another computer on your local network; specifically, to the computer that has the IP address 192.168.1.23

10. Exit the shell