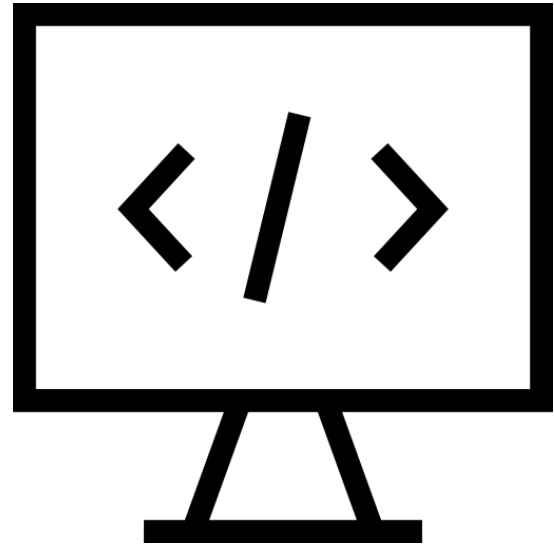
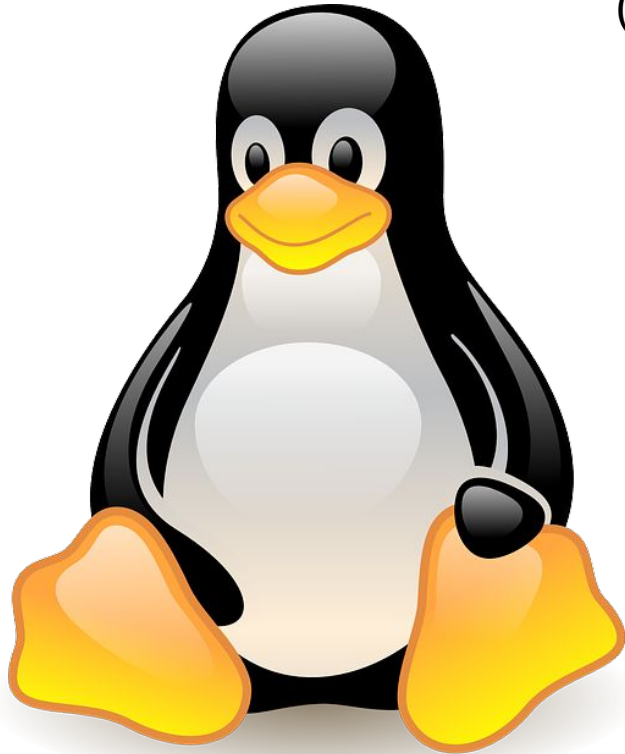


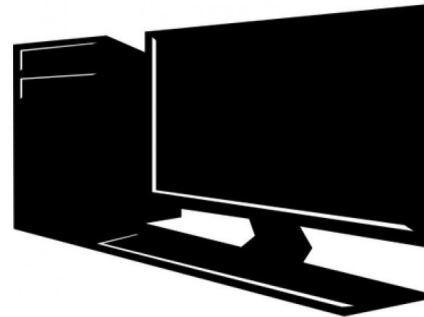
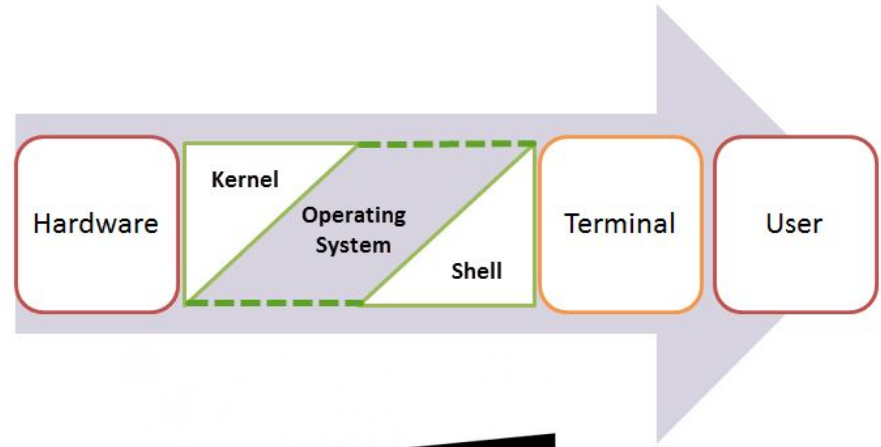
Command Line Introduction

(Meeting #1)



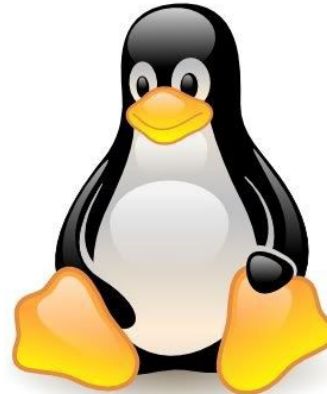
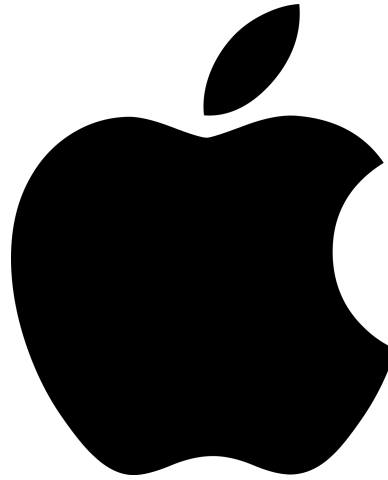
What is a Shell?

- A shell is a program that interacts with your computer and is able to launch programs and carry out tasks
- Some shells include **bash**, **sh**, **cmd**, and **powershell**.
- The program that you open on your computer is called a **terminal**.



The Bash Shell

- Since we will be working with Linux, we will be using the **Bash** shell
- Bash was introduced in 1989 and is the most widely used shell to date
- Most **Linux** and **Mac OS** systems use Bash, unless changed by the user

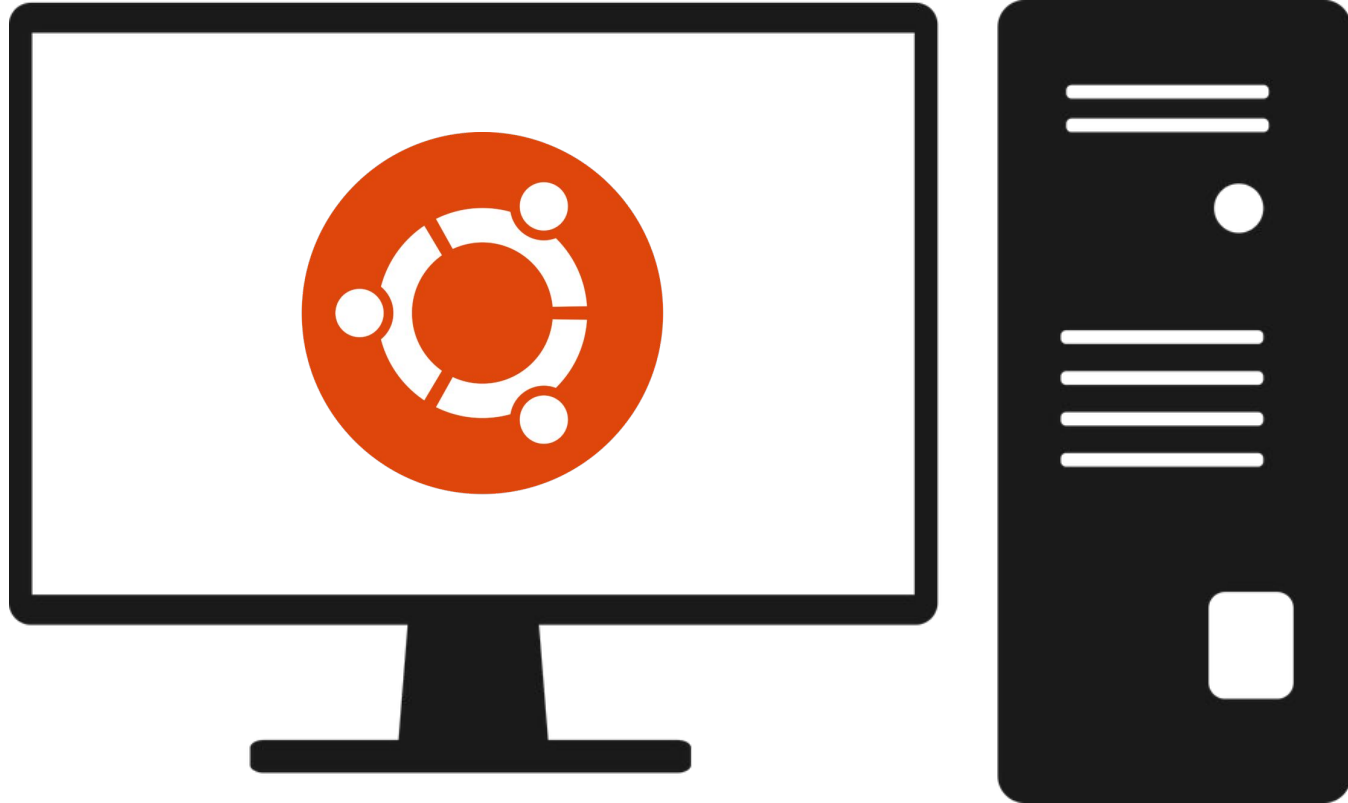


\$ Basic Bash Commands

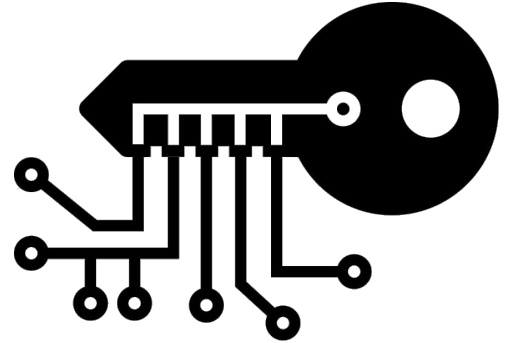
ls	Lists files in current directory.
cat [<i>file</i>]	Shows contents of <i>file</i> . Short for “concatenate.”
cd [<i>directory</i>]	Changes directory to <i>directory</i> . Short for “change directory”
touch [<i>file</i>]	Creates an empty file called <i>file</i> .
nano [<i>file</i>]	Edits the file called <i>file</i> .
man [command]	Shows the “manpage” (or manual) of how to use a command

Note: To go BACK a directory, use “cd ..”

Lets Try It!



Exercise #1



Store a password in a “safe” place

- Move to `/tmp` directory
- Create an empty file called `password.dat`
- Edit the file using the command-line text editor, `nano`
- Write a fake password into the file
- Save the password
- Use the `ls` and `cat` commands to inspect the file that you created

Note: `/tmp` is short for “temporary” and is the location where programs store temporary files in Linux. `/tmp` is normally cleared on boot up (you should **NEVER** store plaintext passwords in files)

Exercise #2

Store a password in a “safer” place

- Move to the `/tmp` directory
- Make a hidden folder called `.password`
- Use `nano` to put another fake password in the file
- Save the file
- Use the `ls` and `cat` commands to view your file. What do you have to do differently?



BONUS

- 1) Use the `man` command to find out about the `md5sum` command
- 2) Use the `md5sum` command to make a MD5 sum of your password file

Great Work!

- Feel free to revisit the first few **OverTheWire** puzzles to see if they make more sense
- Any questions are welcome! If not during club hours email hoefler2002@gmail.com
- Don't forget to join the Remind (<https://www.remind.com/join/f6kacf2>)!

