Lab 2: Basic Linux Commands
CSE 2100-001

Trang Hoang

09/13/2017

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Date Performed: September 14, 2016
Partners:

1   Objective

Develop a further understanding of the Linux Console, including file system manipulation, package management (apt-get), etc.

1.1   Definitions

ls to list everything in the current directory

pwd is Print Working Directory to show a file path to the current directory that the user is in

root directory is the highest level directory in the entire file structure

apt-get install is a command to install new package (software) on your system

apt-get remove is a command to remove/ uninstall a software on your system

mkdir is to make a folder in the directory

sh is a shell used to run a script

uname is command to check the version of the operating system that you are currently running

cd is to change the current directory

df is disk filesystem to display the current availability of disk space for file systems

2 Question 1

When connected to the lab WiFi hotspot, what IP address is assigned to your Pi?

192.168.0.107

3 Question 2

What are the MAC addresses of the eth0 and wlan0 network interfaces on your Pi
Hint: MAC addresses are listed as HWaddr in ifconfig

eth0: b8:27:eb:8c:1c:36 wlan0:b8:27:eb:d9:49:63

4 Question 3

Suppose we want to install a Linux program from a repository using "apt-get install". What command should we run first, and why? First do command "sudo apt-get update" to refresh all online sources that apt-get will query whenever you try to install some pieces of software so that the system will have the most up-to-date links. Then do "sudo apt-get install" followed by the software you want to install

5 Question 4

Write a script that will successfully compile AND execute the "Hello World" example found in the class source code repository. Your script must execute successfully when the command "sudo sh testscript.sh" is run from your home directory.

```
cd cse2100/
cd hello_world/
cmake .
make
~/cse2100/hello_world/hello_world
sh testscript.sh
```