Name Section#

Basic Linux Commands (Part 1)

Due date

End of Week 4 lab class

Evaluation

• 3% of final grade.

Submission

Submit completed lab using **Turnitin Assingment** on BlackBoard before due date.

Materials

- Student laptop computer
- Ubuntu 14.04.5 installed in VMWare Workstation

Procedure

Exercise #1: Command pwd

Read the man pages for pwd.

1) man pwd

Read the manual pages of pwd command

What is the purpose/output of **pwd** command?

2) Press q to quit the manual pages of pwd.

Exercise #2: command cd

Ty _]	pe the following command and press Enter
1)	this brings you into your home directory
	Record the bash prompt: user@localhost :\$
2)	pwd
	Record the output of that command:
3)	cd ~ this brings you into your home directory
	Record the bash prompt: user@localhost :\$
4)	pwd
	Record the output of that command:
5)	cd /etc
	Record the bash prompt: user@localhost :\$
6)	pwd
	Record the output of that command:
7)	 this brings you one level up, in this case etc's parent directory, which is root directory
	Record the bash prompt: user@localhost :\$
8)	pwd
	Record the output of that command:

Record the bash prompt: user@localhost: Note that we are using the relative path.	
What would the command line look like if we we	re to use the absolute
pwd	
Record the output of that command:	
cd /usr/local/bin/	
Record the bash prompt: user@localhost :	ç
pwd	
Record the output of that command:	
cd//sbin	
Record the bash prompt: user@localhost :	S
pwd	
Record the output of that command:	
cd /	
Record the bash prompt: user@localhost :	\$
pwd	
Record the output of that command:	
cd bin	
Record the bash prompt: user@localhost: Note that we are using the relative path. What wo like if we were to use the absolute path?	uld the command lin
pwd	
Record the output of that command:	

Exercise #3: command ls

- 1) ls /bin/ls
- 2) ls /home/user
- 3) ls -a /home/user
- 4) ls -al /home/user
- 5) **ls** /ho, then press the [**Tab**] key the shell will fill in the rest of the file name for you.

Press the 'up arrow' key twice. You will notice that previously typed in commands can be recalled by using the arrow keys.

Exercise #4: command more

Follow the steps outlined below:

- 1) cd /etc to go into the /etc directory (lots of files in here!)
- 2) ls -la
- 3) ls -al | more to view the contents one screen at a time

The piping capacity of Linux using the | symbol (Shift-\)

Use the [spacebar] to jump to the next screen of information You can use \mathbf{q} to abort the command

4) cd /home

Exercise #5: command mkdir

- 1) user@localhost :/home\$ cd
 - What is the purpose of the cd command without arguments?
- 2) user@localhost :~ \$ mkdir cst8102 ; cd cst8102
- 3) user@localhost :~/cst8102\$ mkdir labs tests
- 4) user@localhost :~/cst8102\$ ls

	o What is the output of the above command?
	user@localhost :~/cst8102\$ mkdir labs/lab01 tests/test0: user@localhost :~/cst8102\$ ls labs tests
	• What is the output of the above command?
7)	<pre>user@localhost :~/cst8102\$ mkdir lectures/lecture01</pre>
	 Record the error message:
	 Explain why this command did not execute successfully:
8)	user@localhost :~/cst8102\$ mkdir -p lectures/lecture01 o Did the command execute successfully?
erci	se #6: command <i>rmdir</i>
1)	user@localhost :~/cst8102\$ ls -1
	o What is the output of that command? (Give a description)
2)	user@localhost :~/cst8102\$ rmdir tests o Record the error message:
3)	user@localhost :~/cst8102\$ ls -1
	user@localhost :~/cst8102\$ cd tests
5)	user@localhost :~/cst8102/tests\$ rmdir test01

- 6) user@localhost :~/cst8102/tests\$ cd ...
- 7) user@localhost :~/cst8102\$ rmdir tests
 - o Does the command produce an error message?

- 8) user@localhost :~/cst8102\$ rmdir lectures/lecture01
- 9) user@localhost :~/cst8102\$ rmdir lectures
- 10)user@localhost :~/cst8102\$ ls
 - Is **lectures** removed?

Review exercise

Enter the commands below in your home directory.

- 1. mkdir ~/lab2
- 2. cd lab2
- 3. mkdir linux ./windows unix
- 4. mkdir linux/ubuntu ./unix/freebsd
- 5. rmdir linux
- 6. rmdir windows
- 7. mkdir -p ~/lab2/linux/android/nougat
- 8. cd windows
- 9. cd linux/android
- 10. cd ../../
- 11. pwd

Answer these questions based **only** on the above 11 commands:

1) How many directories have you successfully deleted?

List them using absolute path:

2)	How many directories in total have you created? (Including deleted directories)
	List them by names:
3)	How many directories are left in the directory lab2 ?
	List them using relative paths: (current directory is user's home directory)
4)	How many error messages have you encountered?
	Record the error message along with the command number (1-11):
5)	Record the output of the command pwd :