

# UNIX Lab #5

1 pt

Due Date: 03/28 11:59 pm

*This is your last UNIX Lab!*

## Instructions:

- If you haven't yet, Read the "About this module" file before starting this lab
- Go to <http://lynda.psu.edu/> and sign in using your PSU credentials
- After you logged in, use the search box to look for "Unix for Mac OS X Users"
- Watch the Chapter 6 and 7 videos. It is important to take notes as Unix-related questions will be always asked in exams.
- After you are done watching and understanding the videos, complete the exercises below and do the quiz on CANVAS.

Before you start, remember:

- Complete the section "Getting access to UNIX" in the "About this module" file
- Learn how to take screenshots of a window:
  - o Mac users: <https://support.apple.com/en-us/HT201361>
  - o Windows users: <https://support.microsoft.com/en-us/help/13776/windows-use-snipping-tool-to-capture-screenshots>
- Open your terminal (Terminal for Mac users, MobaXterm for Windows users)

## EXERCISE:

- Create a new directory by typing `mkdir Desktop/ulab5`. Enter that directory by typing `cd Desktop/ulab5`
- Type `lh` and confirm there is no `lh` command. (`lh: command not found`)
- Type `touch .bashrc`. Using any of the text editors you have discovered so far (nano for Mac/emacs for Windows, vi), open the file to enter the line `alias lh= 'ls -lah'`. Save and exit
- Now type `source .bashrc`, then type `lh` again. Observe that the alias command `lh` works now.
- Type `lh>output.txt` to save the output of `lh` in the `output.txt` file
- Type `echo '*****'>>output.txt`
- Type `cat output.txt` to see the contents of the file. Take a screenshot of the shell.

- Type “touch .bash\_profile”. Use any text editor to open and edit the file. Add the following just as in the video:

```
if [ -f .bashrc ] ; then
    source .bashrc
fi
```

- As shown in videos from Chapter 7 (2<sup>nd</sup> and 6<sup>th</sup>), add extra lines to the .bashrc file to do the following when logging in:
  - Show uptime
  - Create the alias “home” to move to the home directory
  - Customize the command prompt to show (using PS1 to enter command prompt formatting codes):
    - User name followed by “- “
    - Current time in 12-hour HH:MM am/pm format followed by “>>”
- Type “source .bashrc”. Take the second screenshot of the shell.
- Type “ps | less” (Mac users) or “ps aux | less” (Windows users). Keep scrolling by hitting the space bar. When it reaches the end, press the “q” key to exit.
- Type “history | tail -8” and take the third screenshot of the shell.
- Copy the three screenshots in a Word document, save it as a PDF and submit the file ULAB5.pdf to the Unix Lab 5 assignment on CANVAS.
- Go back to the command line. Do “cd ~/Desktop” and then “rm -r ulab5”. Now the ulab5 directory is deleted.
- Complete the Quiz 5 of the UNIX module before the due date of this assignment.