What is Due and When?
All items are due by Wednesday, September 13th at 11pm

- Wk2 - Linux Basics & File Manipulation
  Note: There is no graded Discussion Board (DB) assignment this week but you are always encouraged to post questions and thoughts to the DB at any time!

Watch, Read, & Do
- **Review:** The Linux Command Line Chapters 1 & 2 *(assigned last week)*
- **Read:** The Linux Command Line
  o Chapter 3 *(skip page 22 on Symbolic Links)*
  o Chapter 4 *(skip page 32 on links, we will cover those later)*
  o Chapter 5
- **Complete:** Wk2 - Linux Basics & File Manipulation *(defined below)*

Video Lectures

Path & Command Basics *(posted last week)*
- https://www.youtube.com/watch?v=irYWpAZKurA&feature=youtu.be

Getting Around in Unix
- https://www.youtube.com/watch?v=ZcBQ7I3YnOs&feature=youtu.be

Basics of Getting Help in Linux
- https://www.youtube.com/watch?v=QSPPGmS-UPA&feature=youtu.be

Creating and Deleting Files and Folders in Linux
- https://www.youtube.com/watch?v=91FhiTyEaCU&feature=youtu.be

Basics of viewing Files in Linux
- https://www.youtube.com/watch?v=hQvK5kComDg&feature=youtu.be

Moving and Copying Files and Directories in Linux
- https://www.youtube.com/watch?v=GKEGNdNIQrw&feature=youtu.be

Notes
- Early in the semester we will be covering a lot of topics. The goal is to introduce you to a number of fundamental Linux command-line features as quickly as possible. You will gain mastery of these items as we progress through the semester

and work with these items on a regular basis. Take your time and review each week's assignment to see which item's covered in the video lectures and reading are necessary to complete that week's work and which items are mostly informational.

- We will start to use the LPIC book in a future week.

Install VirtualBox Extension Pack

VirtualBox can be better integrated into your host OS by installing the VirtualBox Extension Pack. You can download the Extension Pack from the same web site you downloaded VirtualBox. Please see the image below for reference. This is the first step to helping resolve issues related to USB device access and screen resolution.

These screenshots are for an older version of VirtualBox but the process has not changed. You can find this download at the following URL: https://www.virtualbox.org/wiki/Downloads
Improve Screen Resolution and Add the Ability to Drag and Drop Files to/from Your VM

Many students experience issues with video card drivers when using Ubuntu in a VM. Following the process below should help resolve these issues. There is no guarantee this will work for your system but please try this if your screen resolution is fixed or too big/small.

It is possible to drag and drop files between your host OS and Ubuntu installed in a VirtualBox VM. I have attached a screenshot below that shows what options to enable as well as a description of the process below. Please post to the DB if you have any questions.

Process
- In the VirtualBox menu on your host OS (Mac or Windows) go to the **Devices** menu and select **Install Guest Additions**.
- Once guest additions are installed, return to the **Devices** menu and select **Drag'n'Drop** -> **Bidirectional**. This will let you drag files from your host OS to Ubuntu and from Ubuntu back to your host OS.
- Shutdown your Ubuntu VM.
- Shutdown VirtualBox (probably not necessary).
- Restart Virtualbox and your Ubuntu VM.
- Try dragging and dropping files!

Due Date: Wednesday, September 13th at 11:00pm
This week's assignment involves exploring the Unix file system and the use of some basic commands.

Please complete the attached file. The file is attached as a Word document. Your version of Linux should have software that can read Word document files. For the first few assignments I prefer your homework in

the Word format. Moving forward we will discuss other file formats for submitted work.

Many assignments will ask you to explore and learn to use some new commands we won't discuss directly in any of the week's material. One of the skills required of a Unix user and administrator is the ability to quickly learn new commands to help tackle a tough situation. Using the man pages to learn a new command is something you will do constantly. The man pages are your best friend and part of this week's assignment will introduce you to them.

Notes About Submitting Your Work

- You will submit your work using the Blackboard assignment interface. To submit your work, return to this post and click on the title. You will be taken to a screen where you can upload your assignment and enter a message to me if you wish to do so. You must hit SUBMIT for me to get your work. Please, DO NOT CLICK SAVE.
- Work will not be accepted by email. Any work sent to me via email will not be graded. You must use the Blackboard assignment interface.
- You will know your work is correctly submitted if you click on the "My Grades" link in the left-hand navigation menu and you see an exclamation point "!" for this assignment. If you see any symbol other than an exclamation point please email me.
- If you are only submitting one item it is fine to just upload that file directly. If you are submitting multiple items you MUST put all of these items into a single ZIP file before submitting them to Blackboard. If you do not know how to create a ZIP file please email me or post to the discussion board. There are a number of good resources online and the process is as easy as right-clicking on a folder on most operating systems. We will also go over how to create archives and ZIP files on Linux in a later week.
- If you upload the wrong file you must email me immediately so I can clear the incorrect submission and you can resumbit the assignment. Due to a large number of students accidentally uploading the wrong file in previous semesters I can only assume that students are being careless or they are trying to buy additional time on the assignment. If you are employed as a programmer at a company and accidentally upload the wrong code into the production code-base you could potentially lose your job. If a company like Amazon goes off-line due to a code error they lose tens of thousands of dollars a second in revenue. This is a good time to start focusing on not making that type of mistake, when the stakes aren't that high. If you have any questions or concerns about this policy please don't hesitate to contact me or post to the discussion board. Everybody makes mistakes and that

is fine. All I ask is that you double check what you submit and email me as soon as you notice there is an issue. Thanks!