

Assignment 1

SYST13416 Linux Operating System, Sheridan College, Summer 2022

Before attempting this assignment, make sure you complete all work for Module 1 and Module 2, which includes Worksheets , 2 and 3. Make sure you are comfortable with all the material. This assignment is individual work and summative assessment (this means, only clarification questions will be answered; it is up to you to figure out the solution and demonstrate your understanding

IMPORTANT! Make sure you understand the history command. You will be submitting a snapshot of your history that needs to contain all of the commands used to complete this assignment.

DO NOT CHANGE OR REMOVE ANYTHING from the history snapshot. Marks will not be deducted for having a couple of extra attempts containing errors, AND marks will be deducted if any commands are missing or if the content of the file has been modified, or contains unrelated entries! This is not a time-consuming assignment and it is worth your while to complete the assignment in its entirety a second time!

1 Create and navigate directory tree

- Create the directory sub-tree depicted in Figure 1. The tilda (~) in the figure represents your home directory (which already exists) and the sub-directories `~/syst13416/assignment1` (which you will need to create if you already have not done so.) For example, mine would be `/home2/bajcar/syst13416/assignment1` on our server `dev.fast.sheridanc.on.ca`.
- Make sure all names are as they appear in the diagram—case sensitivity.

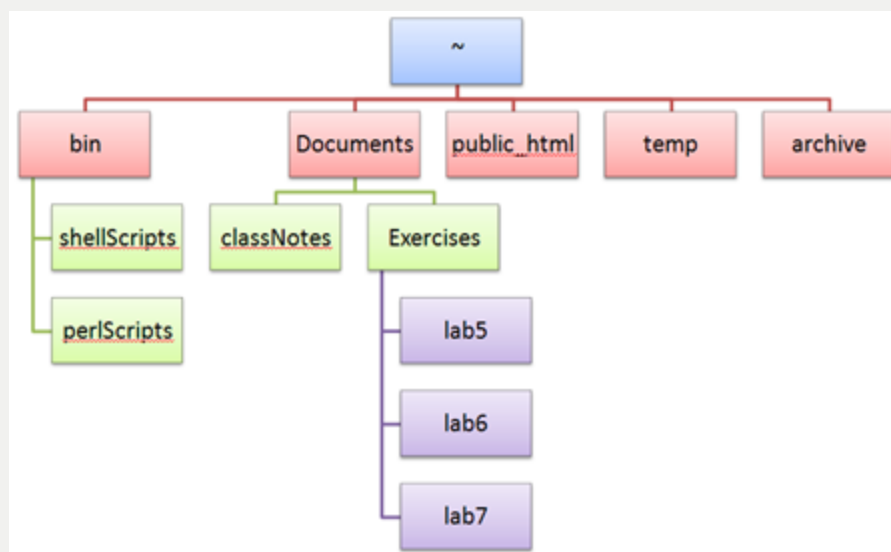


Figure 1

- Navigate to **classNotes** directory Here, create an empty file (using the `touch` command) called **a1notes**. Using the `cat` command add your full name as the first line of the document. Add the current date and time (default format) to appear as the second line of the document. Add the absolute path to our home directory (using `pwd`) as the third line of the document.
- Navigate to the **archive** directory. View your history and find the first command used to complete this assignment. Note the line number. Save the history from, and including, the line you just identified to the end of your history in a file called **a1q1.log** in the **archive** directory.
- Set permissions to **a1notes** and **a1q1.log** so that you have the read and write permissions, others in your group read only, and everyone else no permissions.



Explore commands and redirection

- Navigate to **classNotes** directory.
- Using the `whatis` command, create a file called **temp**, which will contain the definition list, with a single-line entry for each command you encountered in Worksheets 1, 2, 3, Modules 1, 2, 3, and this assignment.
- For any command that does not have an entry when using `whatis` command, create your own entry, using the same format (you can omit the brackets containing the manual page level or using 0 to indicate that it does not come from the online manual).
- Use the `sort` command to sort the file and the `nl` command to number the lines in the file. For more information on these commands, refer to the online manual.
- Save the sorted and numbered list as **cmdList** (no extension).
- Add your full name (will appear on a line by itself after the sorted numbered listing) at the end of **cmdList**
- Add the current date and time (default format) to the end of **cmdList** This will appear on the last line of the file, under your name.
- Create a history snapshot that contains ALL commands used to produce this file, called **a1q2.log** then email yourself this file as well (hint: use `head` or `tail` commands to get the correct block)
- Set permissions to **cmdList** and **a1q2.log** so that you have the read and write permissions, others in your group read only, and everyone else no permissions.

Submission

- Use FileZilla to download the **a1notes**, **a1q1.log**, **cmdList**, and **a1q2.log** to your machine and attach to the SLATE Dropbox individually (separately, do not zip). Screenshots will not be accepted!
- In the Comments area of the SLATE Dropbox, type (or copy) the absolute pathname to your home directory.

Note:

- Marks will be deducted for improper submission.
- This is a summative evaluation instrument—individual effort. Ask questions and discuss the problem only, NOT THE SOLUTION.