

Working with Unix

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Overview

Unix isn’t the most obvious or intuitive operating system in the world. The best way to learn it is by actually using it. This homework's activities use many of the most common Unix commands. Points are awarded for the correct response to the tasks. Fill in the signature above, complete the question set and upload this document to the UNIX dropbox.

When completed and answers are filled in, either submit the word docx file or a pdf.

*A. Getting Started*

* 1. Open the Terminal application. Change the default mode in which Terminal works. The instructor will show you how to do this in class.
  2. At the prompt, type the command: ssh yourid@solace.rit.edu then press <enter>. This will connect you as a terminal to Solace.
  3. When prompted, enter your password followed by <enter>. Unlike a GUI system, nothing is displayed while you type the password. The cursor will not move while you are typing. But if successful, you be logged into your home directory.
  4. Enter the command that tells you what your current working directory is:

What command was used? \_\_\_\_\_\_\_\_\_\_\_pwd\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

What was the result? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_/home/MAIN/che7955\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*B. Unix Basics*

1. Step A.3 above places the user in his/her login or home directory. Display a list of the contents in that directory. What command was used

ls

1. In the login directory, create a new directory named mydir. What command was used

\_\_\_\_\_\_\_\_\_mkdir mydir\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Change to the directory just created. What command was used

\_\_\_\_\_\_\_\_\_\_\_\_cd/ mydir\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What are the contents of this directory? What command was used

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ls\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Now, change back to the home (login) directory. What command was used

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_..\\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Delete the mydir directory. What command was used

\_\_\_\_\_\_\_\_\_\_\_\_\_rmdir mydir\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

*C. More Unix—Less Prompting!*

* 1. Create a directory named temp in the home directory. Make temp the current working directory. What command(s) was/were used

\_\_\_\_\_\_\_\_\_\_\_cd /home —> mkdir temp\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_says permission denied so i made it under che7955\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Within temp, create a directory named images. Make images the current working directory. What command(s) was/were used

\_\_\_\_\_\_\_cd /home/MAIN/temp → mkdir images\_\_\_\_\_\_\_\_\_

* 1. Within images, create TWO directories: jpeg and gif. What command(s) was/were used

cd /home/MAIN/temp/images → mkdir jpeg → mkdir gif

* 1. List the contents of the images directory. What command(s) was/were used? What is in the directory

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ls\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. What is the full path to the images directory (starting at root)? What command(s) was/were used to determine this

\_\_\_\_\_home/MAIN/temp/image/jpeg (and) /home/MAIN/temp/image/gif\_\_\_\_\_\_

* 1. Now, “jump” to the home directory using only one command. What command was used

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cd /home/MAIN/che7955\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Create a directory named png in the home directory. What command(s) was/were used

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_mkdir png\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. The png directory is in the wrong place. It should be in the images directory, not the home directory. Correct this problem. There are many ways to do this. Write the command(s) used below.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_mv png /home/MAIN/temp/image\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Confirm that the images directory now has three (3) directories in it. What command(s) was/were used

\_\_\_\_\_\_\_\_\_\_\_\_\_mv png /home/MAIN/temp/image\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. Unix is Fun! (highlight one) YES NO
  2. “Jump” back to the home directory. Using a single command, change to the ***png*** directory just created using absolute reference (pathname). What command was used

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_cd /home/MAIN/che795\_\_\_\_\_\_\_\_\_

*D. Creating Simple Files*

* 1. Change to home/temp directory. Type the command: nano (or Vi or pico)

Pico, Vi and Nano are simple txt editors usually available in Unix. Type in some text and then save the file with the name example. (Look at the commands at the bottom of the screen or search the web for help.) What command was used to save the file

\_\_i used nano then i used ctrl +x and then typed in the name and pressed enter\_\_\_\_\_

* 1. Exit pico or nano. The current working directory should still be temp. List the contents of this directory in short form, then list the directory in long form. What commands were used

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ls and -l\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* 1. When the temp directory was listed, there should have been a directory named images and a file named example. In the long listing format, how can a user determine what is a file and what is a directory   
       
     \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_he colors a dir is blue and a file is gray\_\_\_\_\_\_\_\_

**When finished, post this file to the Unix homework dropbox.**

*Rubric*

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| --- | --- |
|  |  |
| A4. Cmd to determine current working directory and output | 5 |
| B1. Cmd to determine directory contents | 5 |
| B2. Cmd to create directory | 5 |
| B3. Cmd to change directory location | 5 |
| B4. New location's contents described | 5 |
| B5. Cmd to return to home (login) directory. | 5 |
| B6. Cmd to delete **mydir** | 5 |
| C1. Cmd to create **temp** | 5 |
| C2. Cmds to create **images** inside **temp** | 5 |
| C3. Cmds to create directories **jpeg, gif** | 5 |
| C4. Cmds to list contents of **images** | 5 |
| C5. Cmds to list full path to **images** from root | 5 |
| C6. Cmd to "jump" to home directory | 5 |
| C7 & 8. Cmds to create **png** directory and relocate it inside **images** | 10 |
| C9. Confirmation **images** contents are correct | 5 |
| C11. Absolute reference directory change cmd | 5 |
| D. Successful creation of text file **example** | 10 |
| Name given | 5 |
| **Total** | **100** |