

Intro to Linux - Challenges

IMPORTANT: Most of these commands can be found on the cheat-sheet at your desk

Challenge One - Getting your feet wet:

This first exercise is to help you get the hang of navigating around a file system from the command line. For this challenge, you will only need the following commands

- `cd - *`
 - `ls - *`
 - `cat file` - prints contents of a file to the screen
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1. Change directories to “challenge_one”.
 2. Navigate around inside that directory and any subdirectories to find the file with data inside it.
 - a. Hint, some of the options for the “ls” command will help a lot!
 3. Once you’ve found the file with data inside, make sure you save or write down the content of the file. You’ll need it later!

Challenge Two - Making stuff happen!

For this challenge, you will be copying, moving, and creating files and directories.

Commands you will need:

- `mkdir directory - *`
 - `touch file - *`
 - `cp`
 - `mv`
 - Others learned so far
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1. Change directories to “challenge_two”
 2. Make the following directories and files (make sure their names are the same!)
 - a. directory1
 - i. file1.txt
 - b. directory2
 - i. file2.txt
 3. Copy directory2 to a new directory, “directory3”
 - a. HINT: cp can only copy files. Are there any other options?
 4. Create a new file in directory3 with the name of the secret you found in challenge one. Make sure the file has a .txt extension.

Challenge Three - Parse ALL the data!

This challenge will help you learn how to quickly find a specific file with specific content in a sea of data-sets, look at disk space usage, and count number of files in a directory. You'll also learn how to "pipe" the output of a command to another command.

For example, try this out:

- `ls | figlet | lolcat`

What this did is pass the output of "ls" to a command called "figlet", which passed its output to "lolcat"

Commands you will need:

- `grep`
 - `du`
 - `wc -l` - counts the number of lines in a file
 - `ls`
 - Others learned so far
 - `find .`
1. Navigate to "challenge_three" directory
 2. Count the number of files and directories in the "challenge_three" directory
 - a. HINT: You may find that `wc` is your friend.
 3. How much space is the "challenge_three" directory taking up?
 4. Now that you know how much data you're working with... Find the file that contains the secret message from challenge one.