Lab

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**Due Date** Friday Jan 27, 23:30

****Instructions****
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Please submit your answers in order.

DigitalOcean note: Before completing this week's lab you will need to follow along with the video I created on working with DigitalOcean. Specifically you need to complete this weeks lab as a regular user, not the root user. So before doing the lab follow along with the video on D2L, in the content section.

Part 12 points

Two directories are described below. For each, cd into the directory, run the command pwd and take a screenshot.

1. The directory where most of the systems configuration files are.

```
vagrant@ubuntu2210:/etc$ pwd
/etc
```

2. The directory where binaries for many of the utilities we have used, like mkdir, really are.

```
vagrant@ubuntu2210:/bin$ pwd
/bin
```

Part 2 3 points

For **three** of the directories below, write a paragraph, in your own words, about the purpose of that directory. What type of files are stored there, what is special about it...?

- /etc This is where system config files are stored. Essentialy, the settings for programs and applications
- /dev Where device files are stored, containing physical devices.
- /var User programs like logs, backups, and more. Files within var change size during use of the OS, hence var short for variable.

- /usr/bin is the main directory for executable programs that are executed by users that are not used in boot or system repair. Files installed
- /bin Contains programs and commands, and is the primary directory for executable programs.
- /boot
- /proc

Part 3 1 point

Write a grep command that will find all the files in your home directory that contain the word 'alias'.

The output should only show the files, not every instance of word 'alias'. You can find out how to do this in the man page for grep.

Example of what the output will look like.

```
./.bash_historylis
./.bashrc
```

Include a screenshot that shows your command, and the output.

```
vagrant@ubuntu2210:~$ grep -r alias -l.bashrc
```

Part 4 3 points

Create a new week3 directory in your home directory copy the script below into your shell and hit enter. You don't have to create a file, you can just copy this directly into the shell and hit enter

```
mkdir dir{1..2}

for dir in $(find . -mindepth 1 -type d); do
   touch $dir/f{1..4}.pyc $dir/p{1..4}.py
   done
```

This will create two directories and write 8 files to each directory

use the find utility to find all of the .pyc files in both directories and delete them. Do this with just a single find command.

find has an -exec command, you can search for this in the man page for find. You are looking fot the option that will allow you to delete all of files in one invocation of -exec.

Don't use the -delete option.

include a screenshot of the command you used to successfully delete the .pyc files.

```
vagrant@ubuntu2210:~/week3$ find dir1 dir2 -name *.pyc -exec rm -f {} \;
```

Part 5: 3 points

Inside of the week3 directory create an **index.html** file using vi(m) and copy and paste the HTML file below into the new file you just created.

Use vi(m) to remove all of the comments in the code below.

There is more than one way to perform this task. the full 3 points will be awarded to one of the more efficient methods.

Take at least 2 screenshots

• a screenshot of the command you used to create a new index.html file with vi(m)

```
vagrant@ubuntu2210:~/week3$ vim index.html
vagrant@ubuntu2210:~/week3$ ls
dir1 dir2 index.html
```

a screenshot of the edited file, to demonstrate that you successfully removed all
of the comments

vagrant@ubuntu2210:~/week3\$ vim -c ':g/<!--/d' -c 'wq' index.html</pre>

"-c" lets you run vim command, in this case the commands are <code>g/<!--/d</code> and 'wq'. The <code>g/<!--/d</code> command deletes all lines that start with <code><!--</code> which is the syntax for a comment in html. 'wq' writes and quits so the file only opens to run the command then closes almost instantly. The 'index.html' is just the file where the commands should be executed.

Describe the method that you used to remove the comments. Do this by adding a note to your pdf.

Your description needs to demonstrate that you understand how you removed the comments to get full marks.

Total: 12 points

Submission Instructions

Submit a .pdf using the dropbox on D2L

Title your pdf "your-name-lab2.pdf" ie "nathan-mcninch-lab2.pdf"

File must be a .pdf.