1. Log into Ubuntu and install the Apache web server using the Terminal with apt-get.

What command did you use? **sudo apt-get install apache2**

2. The Apache web server should be started when you install it, but just to be safe, issue the command to start the Apache web server.

What command did you use? **sudo service apache2 start**

3. Apache stores web pages in the folder **/var/www/html** by default. We call this folder the **Apache Web Root**. Within that directory, you'll find an HTML page. Display the HTML file's contents to the screen without leaving your home directory.

What command did you use? **cat /var/www/html/index.html**

4. From the same Terminal, change to the **Apache Web Root** directory.

What command did you use? **cd /var/www/html**

5. From the same Terminal, create a new file in your `Desktop/` directory with the name `index.html` that **contains your first and last name as its contents**. Do this using a single command **without changing directories**.
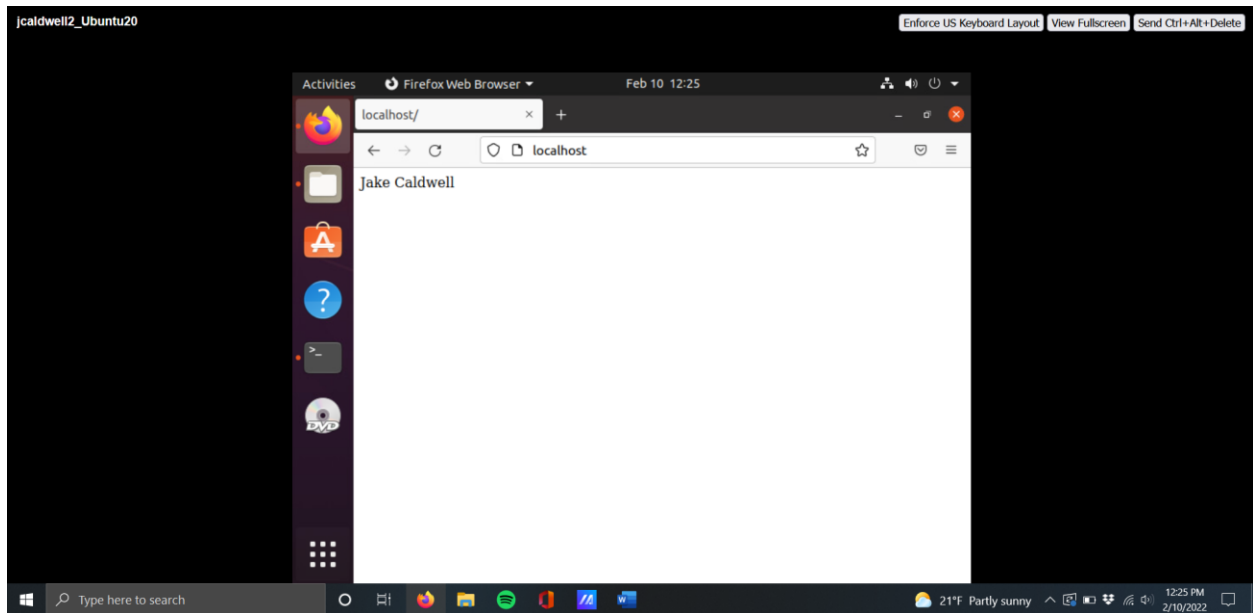
What command did you use? **echo "Jake Caldwell" > ~/Desktop/index.html**

6. Copy the index.html file from your Desktop to the **Apache Web Root** directory using a single command, without changing directories.

What command did you use? **sudo cp ~/Desktop/index.html /var/www/html**

7. On your Linux machine, using Firefox, open the URL http://localhost/. Take a screen shot of your virtual machine displaying your name in the browser. Use the "Print Screen" button on Windows or another tool. The screenshot must show your computer's desktop as well as the virtual machine running Firefox.

Upload your image below.

8. Create the following directory structure <u>under the Apache Web Root directory</u>, where each box shown is a directory.

Ten commands or less: DO THIS WITHOUT LEAVING WEB ROOT DIRECTORY FOR ACTUAL LAB

Sudo mkdir departments

Cd departments

Sudo mkdir it payroll hr

Cd it

Sudo mkdir help status tools

Cd /var/www/html/departments/hr

Sudo mkdir staff resources help

DO THIS WITHOUT LEAVING WEB ROOT DIRECTORY FOR ACTUAL LAB

9. Create a new folder at the same level of the tree as the `it/` directory called `marketing/` but do so by copying the `hr/` department directory and all its children with a single command.

What command did you use? **sudo cp /var/www/html/depatments/hr /var/www/html/deparments/marketing -r**

10. Use the touch command to create the files `policies.html` and `faq.html` in the `departments/hr/` folder.

What command did you use? **sudo touch /var/www/html/departments/hr/policies.html /var/www/html/departments/hr/faq.html**

11. Change into the `help/` directory under the `departments/it/` directory with one command.

What command did you use? **cd /var/www/html/departments/it/help**

12. From the `departments/it/help/` directory, list the contents of the `departments/hr/` directory, being sure to use a long listing so you can see the additional attributes for the `faq.html` file.

What command did you use? **ls /var/www/html/departments/hr -alh**

13. "Touch" the `faq.html` file in the `departments/hr/` directory using the `touch` command.

What command did you use? **sudo touch /var/www/html/departments/hr/faq.html**

14. Change your directory to the `departments/hr/` directory in one command.

What command did you use? **cd ../../hr**

15. List the directory's contents again, showing the full attributes and take note of what changed.

What command did you use? **ls -alh**

16. What changed for the `faq.html` file?

The time it was accessed

17. Change to your home directory in one command.

What command did you use? **cd /home**

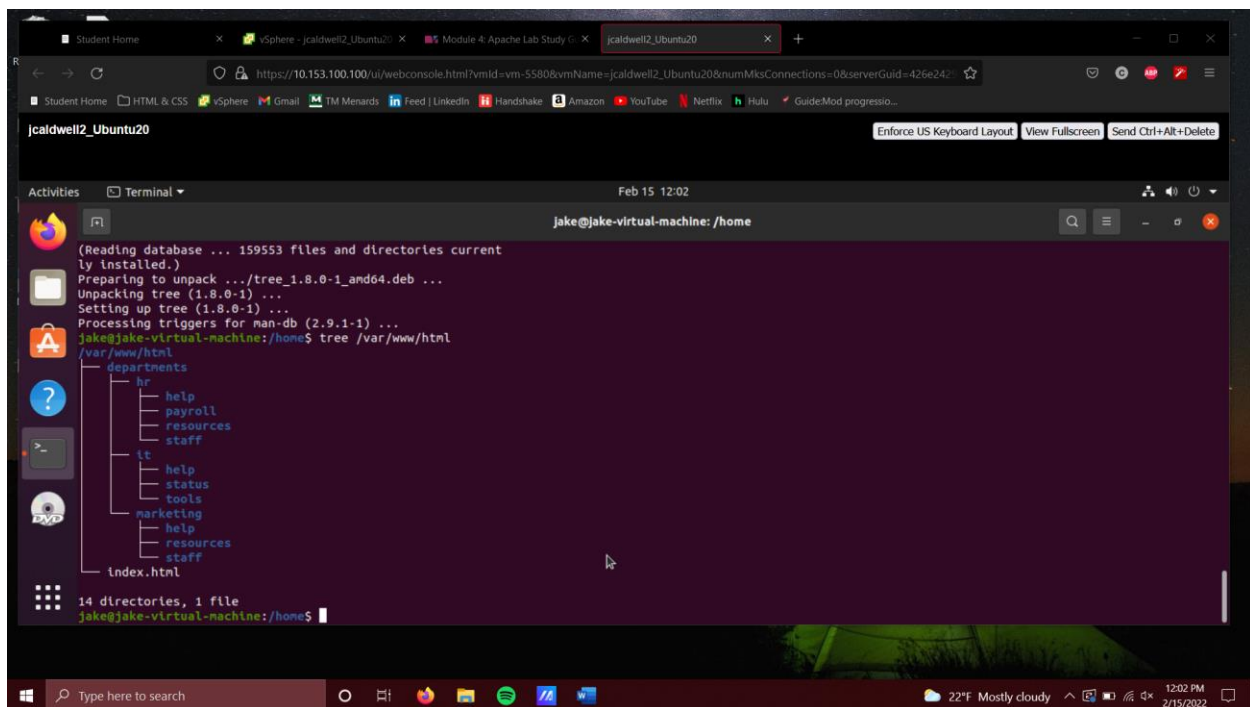18. Delete the two HTML files from the `departments/hr/` directory in one command.

What command did you use? **sudo rm /var/www/html/departments/hr/policies.html /var/www/html/departments/faq.html**

19. The Payroll department is moving and will be a sub-unit of HR now. Move the `payroll/` directory from `departments/` to the `hr/` directory using one command. You should still be in your home directory.

What command did you use? **sudo mv /var/www/html/departments/payroll /var/www/html/departments/hr**

20. On your Linux machine, using the Terminal, use the command tree /var/www/html display a recursive listing of your folder structure. (You may need to install the tree command with sudo apt-get install tree.)

Take a screenshot of the virtual machine displaying the results of the tree command. The screenshot must show your computer's desktop as well as the virtual machine showing your Terminal, and your name must be visible in the prompt. Upload the image below. This will demonstrate that you created the files and folders in this lab yourself.

21. Remove the files and folders you created within the **Apache Web Root** directory. Do this from your home directory <u>in one command</u> forcing removal of all items and be sure to only remove the folders and files you added - do not delete the Apache Web Root folder itself or the index.html file within.

What command did you use? **sudo rm -r /var/www/html/departments**

Careful still experimenting with this one