1. Log into Ubuntu and install the Apache web server using the Terminal with apt-get.
   1. sudo apt-get install apache2
2. Command to start the Apache web server
   1. sudo systemctl start apache2.service
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.
   1. Cat /var/www/html/index.html
4. Change to the Apache Web Root
   1. cd /var/www/html
5. From the same Terminal, create a new file in your Desktop directory with the name index.html that contains first and last name. single command without changing directories.
   1. echo ‘Gunnar Forcier’ > /home/gunnar/Desktop/index.html
6. Copy the index.html file from your Desktop to the Apache Web Root directory using a single command.
   1. Sudo cp /home/gunnar/Desktop/index.html /var/www/html
7. Screenshot taken
8. Create the following directory structure
   1. Sudo mkdir -p /var/www/html/departments/it/{help,status,tools}
   2. Sudo mkdir -p /var/www/html/departments/payroll
   3. Sudo mkdir -p /var/www/html/departments/hr/{staff,resources,help}
9. Create a new folder at the same level of the tree as the it/ directory called marketing/ by copying hr/ directory
   1. Command: sudo cp -r /var/www/html/departments/hr /var/www/html/departments/marketing
10. Use the touch command to create the files policies.html and faq.html in the departments/hr/ folder
    1. Command: 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
    1. 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.
    1. Command: ls -alh ../../hr
13. Touch the faq.html file in the departments/hr/ directory using the touch command
    1. Command: sudo touch /var/www/html/departments/hr/faq.html
14. Change your directory to the departments/hr/ directory in one command.
    1. Command: cd /var/www/html/departments/hr
15. List the directory’s contents again, showing the full attributes and take note of what changed.
    1. Command: ls -alh since I’m in the directory. ls -alh /var/www/html/departments/hr if I wasn’t.
16. What changed for the faq.html?
    1. The time accessed changed
17. Change to your home directory in one command
    1. Command: cd
18. Delete the two HTML files from the departments/hr/ directory in one command.
    1. Command: sudo rm /var/www/html/departments/hr/\*.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.
    1. Command: sudo mv /var/www/html/departments/payroll /var/www/html/departments/hr/
20. Screenshot taken
21. Remove the files and folders you created within the Apache Web Root directory. Do this from your home directory in one command forcing removal of all items except the html folder and the index.html file.
    1. Command: sudo rm -r /var/www/html/departments