Vanier College Unix 420-321-VA (Sect. 00004)

Final Project Website Hosting

Due: 12th December 2021

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GitHub Repo:

https://github.com/DHay10/UnixProject

Description:

- The project is meant to show the process of setting up a virtual space to upload a
 website to a VPS hosting service using Unix knowledge. Originally, the plan was to be
 able to offer a step-by-step guide to be able to explain the process to a normal person
 wanting to upload their own website. But due to some reasons, we didn't put as much
 effort into this project to be able to attain the endpoint (Sorry).
- However, the project is to currently show our own applied knowledge on how to set up a basic website (Which doesn't include data collection).

Steps Made:

- 1. With the use of VM, we made and accessed our public and private SSH keys.
- 2. We bought a VPS cloud server (OVH Server) and set it up.
 - a. Updated all packages of the server.
 - b. Registered the IP address and the password to access root.
 - c. Made users for both teammates to be able to connect and administrate the webserver.
 - d. Installed Apache and PHP. (Omitted MySQL, as the project only demos the deployment of a simple website with no data collection)
- 3. We implemented our Web Project (Internet Programming) as an example of a website and made changes such as:
 - a. Make our home page an 'index.html' file instead of going into the apache file setting to direct to the home page address.
 - b. Assemble and structure using relational pathing interconnecting HTML files.
- 4. We uploaded our sample website to the /var/www/html/ folder using FileZilla connected to the server.

Info:

• IP Address: 142.44.161.194

Root User: dhay

Root Password: 1234Aa

Team Contribution:

- We worked together at the same time using discord and screen sharing. We did each step together as the process is linear and couldn't necessarily be done by separating the workload.
- As we did the work on my computer(Andy), the commits on github were only made by my name.

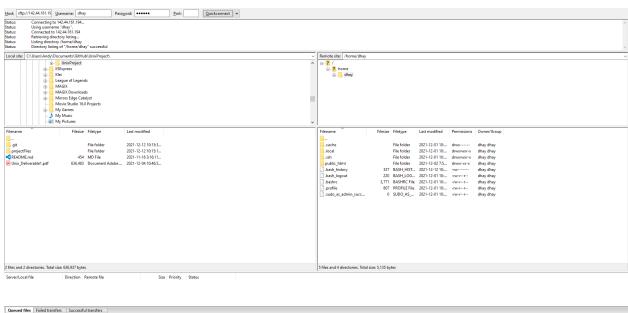
Screenshots:

```
wbuntu@vps-bafd52a5:~$ sudo adduser atoushi
Adding new group `atoushi' (.1001) ...
Adding new group `atoushi' (1001) with group `atoushi' ...
Creating home directory 'home/atoushi' ...
Copying files from `/etc/skel' ...
New password:
Retype new password updated successfully
Changing the user information for atoushi
Enter the new value, or press ENTER for the default
Full Name []: Ali Alnajjar
Room Number []:
Work Phone []:
Home Phone []:
Other []:

Is the information correct? [Y/n] Y
ubuntu@vps-bafd52a5:~$ sudo adduser dhay
Adding user 'dhay' ...
Adding new group 'dhay' (1002) with group `dhay' ...
Creating home directory 'home/dhay' ...
Copying files from '/etc/skel' ...
New password:
Retype new password:
Retype new password:
Retype new password:
Password: network information for dhay
Enter the new value, or press ENTER for the default
Full Name []: Andy Nguyen-Chao
Room Number []:
Work Phone []:
Home Phone []:
Other []:
Is the information correct? [Y/n] Y
ubuntu@vps-bafd52a5:~$ s
```

```
Dec 03 01:33:33 vps-bafd52a5 systemd[1]: Started The Apache dhay@vps-bafd52a5:~$ sudo mkdir /var/www/dhay dhay@vps-bafd52a5:~$ sudo chown -R dhay:dhay /var/www/dhay dhay@vps-bafd52a5:~$ sudo chmod -R 755 /var/www/dhay
                                                   Started The Apache HTTP
dhay@vps-bafd52a5:~$ sado climed k /33 / tal/mam, anay
dhay@vps-bafd52a5:~$ nano /var/www/dhay/index.html
dhay@vps-bafd52a5:~$ sudo nano /etc/apache2/sites-available/dhay.conf
dhay@vps-bafd52a5:~$ sudo a2ensite dhay.conf
Enabling site dhay.
  systemctl reload apache2
dhay@vps-bafd52a5:~$ sudo a2dissite 000-default.conf
dhay@vps-bafd52a5:~$ sudo apache2ctl configtest
AH00112: Warning: DocumentRoot [/var/www/your_domain] does not exist
Svntax OK
dhay@vps-bafd52a5:~$ sudo nano /etc/apache2/sites-available/dhay.conf
dhay@vps-bafd52a5:~$ sudo apache2ctl configtest
Syntax OK
dhay@vps-bafd52a5:~$ sudo systemctl restart apache2
dhay@vps-bafd52a5:~$ sudo apt-get update
Get:3 http://nova.clouds.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:4 http://nova.clouds.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Fetched 336 kB in 1s (451 kB/s)
Reading package lists... Done

dhay@vps-bafd52a5:~$ sudo apt-get install apache2 openssl
Reading package lists... Done
Building dependency tree
openssl set to manually installed.
dhay@vps-bafd52a5:/var/www$ sudo apt install apache2
Building dependency tree
Reading state information... Done
apache2 is already the newest version (2.4.41-4ubuntu3.8).
O upgraded, O newly installed, O to remove and O not upgraded.
dhay@vps-bafd52a5:/var/www$ sudo ufw app list
Available applications:
  Apache Secure
  Nginx HTTPS
dhay@vps-bafd52a5:/var/www$ sudo ufw allow 'Apache'
Rule added
Rule added (v6)
dhay@vps-bafd52a5:/var/www$ sudo ufw status
Nginx HTTP
                                                    Anywhere
                                                    Anywhere
Apache
                                                    Anywhere (v6)
                                                    Anywhere (v6)
22/tcp (v6)
Apache (v6)
                                                    Anywhere (v6)
```





Filename	Filesize	Filetype	Last modified	Permissions	Owner/Group
_					
images		File folder	2021-12-02 8:4	drwxrwxr-x	dhay dhay
backToTopB.js	281	JavaScript	2021-12-02 8:4	-rw-rw-r	dhay dhay
o bbc_about.html	6,018	Chrome H	2021-12-02 8:4:::43	-rw-rw-r	dhay dhay
bbc_aboutstyle.css	257	CSS File	2021-12-02 8:4	-rw-rw-r	dhay dhay
bbc_basestyle.css	1,905	CSS File	2021-12-02 8:4	-rw-rw-r	dhay dhay
o bbc_coffee_beans.html	1,666	Chrome H	2021-12-02 8:4	-rw-rw-r	dhay dhay
o bbc_contact.html	2,434	Chrome H	2021-12-02 8:4	-rw-rw-r	dhay dhay
bbc_homestyle.css	510	CSS File	2021-12-02 8:4	-rw-rw-r	dhay dhay
bbc_recipes.css	1,212	CSS File	2021-12-02 8:4	-rw-rw-r	dhay dhay
o bbc_recipes.html	4,812	Chrome H	2021-12-02 8:4	-rw-rw-r	dhay dhay
index.html	8,938	Chrome H	2021-12-02 8:4	-rw-rw-r	dhay dhay

