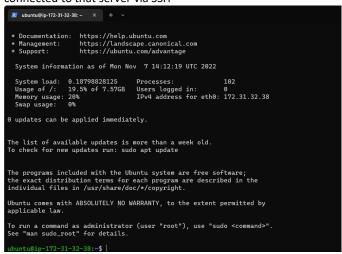
Assignment

Assignment Date:05-11-2022
Submitted by:Govarthan A(govasana07@gmail.com)

Assignment 1:- How to upload HTML web pages on Apache2 web server in EC-2 Instance?

Step1: Initially I created a Linux server using Ubuntu image under EC2 section once the server is up then I connected to that server via SSH

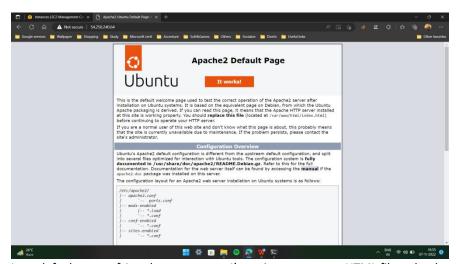


Step2: Once connected I updated the Linux server using sudo apt-get update command

Step3: After updating the machine I installed the apache2 server using sudo apt-get install apache2

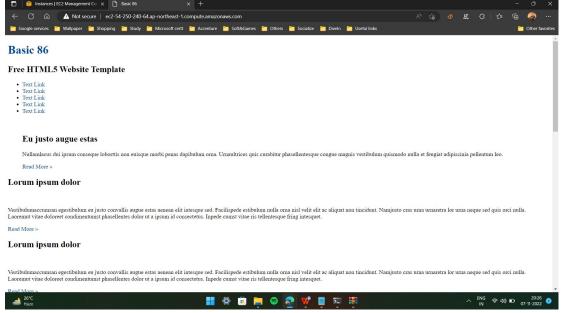
Step4: Now I went to my instance and took the public ip of it and opened it





I got default page of Apache server now I'm going to put new HTML file to load new page for this IP address

Step5: This default page HTML will be located in /var/www/html/index.html so I moved to this path and started editing index.html to load new page



Step6: once edited the page I reloaded the tab to see updated page

Assignment 2 : Create readfile.sh in which you can read the information of PWD like size, permission, date time etc.

So, I created a file called readfile.sh and provided permission to it to execute using chmod +x readfile.sh

And added below lines to get the Present working directory's size, permisson and date&time

```
gova@GovaAnand: ~

GNU nano 4.8

#!/bin/sh

echo "Size of this directory is $(du -sh)"

echo "Permission in this directory is $(ls -l) "

echo "Date and time is $(date)"
```

Output is:

```
gova@GovaAnand:~

gova@GovaAnand:~$ ls

downloads readfile.sh shell.sh shell.sh.save

gova@GovaAnand:~$ nano readfile.sh

gova@GovaAnand:~$ ./readfile.sh

Size of this directory is 84K .

Permission in this directory is total 16

drwxr-xr-x 5 gova gova 4096 Nov 7 11:51 downloads

-rwxr-xr-x 1 gova gova 135 Nov 11 11:47 readfile.sh

-rwxr-xr-x 1 gova gova 88 Nov 6 19:42 shell.sh

-rwxr-xr-x 1 gova gova 80 Nov 6 19:43 shell.sh.save

Date and time is Fri Nov 11 11:48:28 IST 2022

gova@GovaAnand:~$ ______
```

Assignment 3: Take an input of name from user and print Have a great day ahead {name}

Created new sh file called name.sh and added the below commands

```
🥑 gova@GovaAnand: ~
  GNU nano 4.8
                                                             name.sh
#!/bin/sh
echo "What is your name?"
read name
echo "Have a Great day Ahead, $name"
And the output is:
 🥑 gova@GovaAnand: ~
 gova@GovaAnand:~$ touch name.sh
 gova@GovaAnand:~$ chmod +x name.sh
 gova@GovaAnand:~$ nano name.sh
 gova@GovaAnand:~$ nano name.sh
 gova@GovaAnand:~$ ./name.sh
What is your name?
Govarthan Anandhan
Have a Great day Ahead, Govarthan Anandhan
gova@GovaAnand:~$ _
```

Assignment 4: Let's take a scenario of fintech app program in which we want to have three separate

outputs for 3 different situations:

I created the fintech.sh file and added the below condition inside that

And the output is:

```
gova@GovaAnand:~

gova@GovaAnand:~

gova@GovaAnand:~

shame.sh readfile.sh shell.sh shell.sh.save

gova@GovaAnand:~

gova@GovaAnand:~

name.sh readfile.sh shell.sh shell.sh.save

gova@GovaAnand:~

name.sh readfile.sh shell.sh shell.sh.save

gova@GovaAnand:~

name.sh readfile.sh shell.sh shell.sh.sh

Enter the balance number

your@GovaAnand:~

name.sh readfile.sh shell.sh shell.s
```

```
Assignment 5: Debug and define briefly about
the following program :-
#!/bin/bash
# Print a message about disk useage.space free=$( df -h | awk '{ print $5 }' | sort -n | tail -n
1 | sed 's/%//' )
case $space_free in
[1-5]*)
echo Plenty of disk space available
[6-7]*)
echo There could be a problem in the near future
echo Maybe we should look at clearing out old files
echo We could have a serious problem on our hands soon
echo Something is not quite right here
Esac
Since the Above program has some syntax error I resolved those and correct program is
#!/bin/bash
# Print a message about disk useage.
space_free=$( df -h | awk '{ print $5 }' | sort -n | tail -n 1 | sed 's/%//' )
case $space_free in
[1-5]*)
echo "Plenty of disk space available"
[6-7]*)
echo "There could be a problem the near future"
echo "Maybe we should look at clearing out old files"
9*)
echo "We could have a serious problem on our hands soon"
echo "Something is not quite right here"
gova@GovaAnand: ~
GNU nano 4.8
 Print a message about disk useage.
pace_free=$( df -h | awk '{ print $5 }' | sort -n | tail -n 1 | sed 's/%//' )
ase $space_free in
1-5]*)
cho "Plenty of disk space available"
6-7]*) echo "There could be a problem the near future"
 tho "Maybe we should look at clearing out old files"
 ho "We could have a serious problem on our hands soon"
 cho "Something is not quite right here"
```

Explanation:

So in this script its checking for free disk space in the directory we are in so for that they used

Which will provide use the output of disk free space in human readable form (in kb,mb,gb,tb like that) And then Pipeline command |

awk{print \$5}

So **awk** command is used to manipulate the data and here they used **print \$5** wchich will print 5th field in **df -h** so in free space 5th field is **use**%

Sort -n

This will sort the output from lowest to highest

Tail -n 1

This cmd will print last line

Sed s/%//

So sed command is a stream editor and it is used to find and replace content .

Here we are **finding** % and **replacing it with empty space** so at the and the output will be just number which sorted from low to high

Switch case is used here it will check each and every case if it passes any case then particular output will be displayed

My output is:

