## **Assignment Hero-Vired 3**

All files are uploaded to github repo HeroVired\_Assignment 3.

- 1. Index.html for question1, python script for question 2 and documentation with a screenshot of NMAP for question 3.
- 2. I will use both wamp apache servers to host index.html.
- 3. Python script to check the status of subdomains using sleep for 60 seconds and then again run the loop.

Glthub - <u>nksharma063/server\_assigment\_herovired: Assignment number three for herovired for configuration on apache and niginx (github.com)</u>

## **Question 1**

**Ans:**. Steps, i took to complete the given assignment.

- 1. I created one index.html file.
- 2. I tested the port 80 using wamp server itself which is using netstat.

Test which uses port 80

Tested by command netstat filtered on port 80

Test for TCP. Your port 80 is used by a processus with PID = 2056

The processus of PID 2056 is 'httpd.exe' Session: Services

The service of PID 2056 for 'httpd.exe' is 'wampapache64'

This service is from Wampserver - It is correct

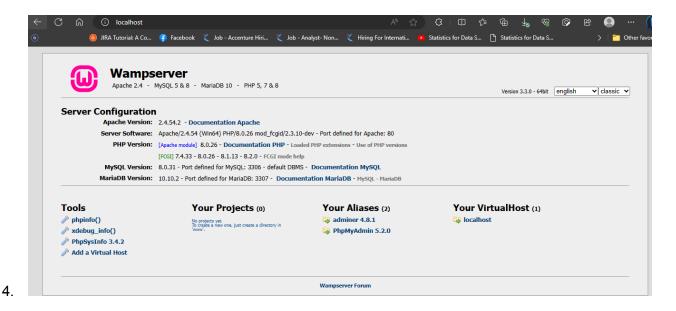
Test for TCPv6

Your port 80 is used by a processus with PID = 2056
The processus of PID 2056 is 'httpd.exe' Session: Services
The service of PID 2056 for 'httpd.exe' is 'wampapache64'
This service is from Wampserver - It is correct
Tested by attempting to open a socket on port 80 =====

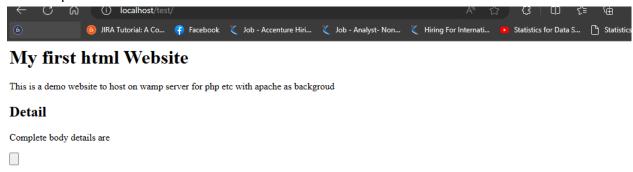
Your port 80 is actually used by :Server: Apache/2.4.54 (Win64) PHP/8.0.26 mod\_fcgid/2.3.10-dev

"""

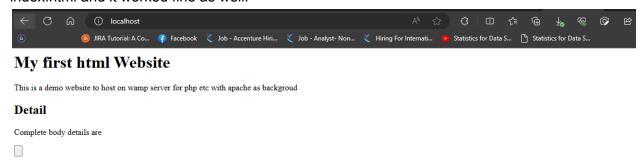
3. I will deploy the index.html on wamp server on port 80.



5. I created one folder inside www as test and copied pasted by index.html there . I was able to open the 127.0.0.1/test and result as



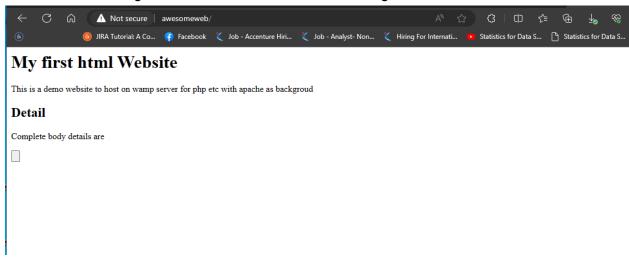
6. I removed the test folder and intended the direction of the world wide web interface to index.html and it worked fine as well.



7. I changed the httpd.conf file under ~/bin/apache/conf/httpd.conf , and changed teh directory to /test/ /www/test

8. I also updated the virtual directory.conf fi

9. I changed the C:\Windows\System32\drivers\etc as suggested on the internet. I created the server alias along with localhost. It seems to be working fine.



10. I also installed nginx and checked the configuration to deploy my website on port number 80 for localhost on linux through wsl.

Ques 2 A website can have many subdomains and different services are running on them. Write a Python script to check the status of the subdomains which are up or down. The script should automatically check the status every min and should update it in tabular format on the screen. Write a detailed documentation of it.

Ans.

Tools:

Library: Googlesearch, flask

Module: os, time, search, request, render\_request,

ChatGPT

Steps i took to accomplish the task:

- 1. I have called the google search library which I found on the internet for python to collect all the subdomains.
- 2. I also created one iterated loop while appending \*site: with domain to collect all the available subdomains.
- 3. I created the filter which will split the string by / and then fetch the 0 index value that is subdomain.(subdomain.domain.com)
- 4. I added the subdomain with domain in sorted loop through set to get the uniqueness
- 5. I implemented os.system library to check the availability of the subdomains
- 6. I also rendered the result on port number 3000, to render the results on the browser, which I collected in dict format.
- 7. I will display either the results or create on a jinja 2 template and redirect these results into that so that a tabular format can be displayed on the browser.
- 8. Once done, i will submit or upload my github repository in the link

Ques3. Now, complete the given tasks.

Task 1: Install Nginx inside the Ubuntu machine and host a website.

Task 2: Come back to your host machine (windows/Linux/mac) and scan the virtual machine using Nmap.

Task 3: Create the documentation of the process and the output of the scan.

Task 4: Observe the ports which are open.

**Ans.** We took the following steps as suggested above and performed experiments on virtual box and wsl2.

1). Installed the Nginx and hosted the website on port 80.

- 2) When we did scanning from host machine to virtual machines sin oracle and wsl2, we found two ports are 80 as of nginx and 22 for ssh server which we installed for experiment.
- 3) We performed scanning from host to vm and vice versa and found that host can scan servers with ports of server inside the machine but not the services and everything like you can scan your local ip with nmap.

VM can reach the gateway of the internet and nothing else on host, once nmap is performed from VM.

4) Port Open are 80 and 22

