

Networking and Servers Assignment – 1

[GitHub link](#)

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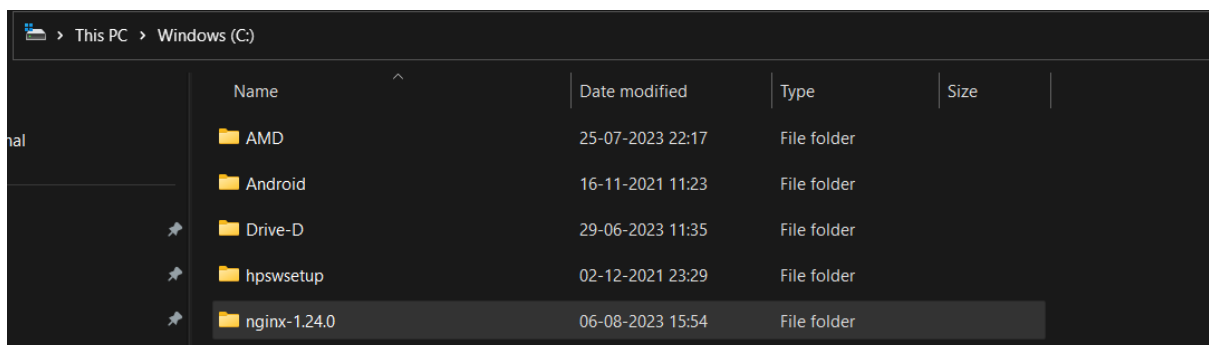
I have deployed a website on localhost using Nginx. The steps are as follow.

Downloading the Nginx

We need to download the Nginx from [here](#). We will be able to see many versions, however recommended is stable version.

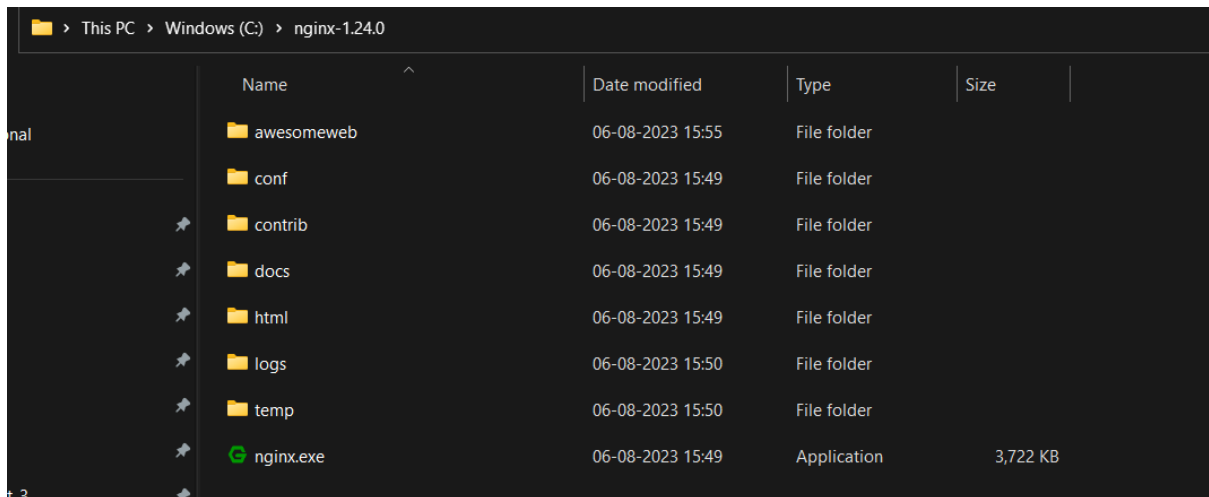
Saving in the local machine

We need to save that file in the local machine in the desired path and we need to remember that. I have saved in the C drive with the name nginx – 1.24.0.



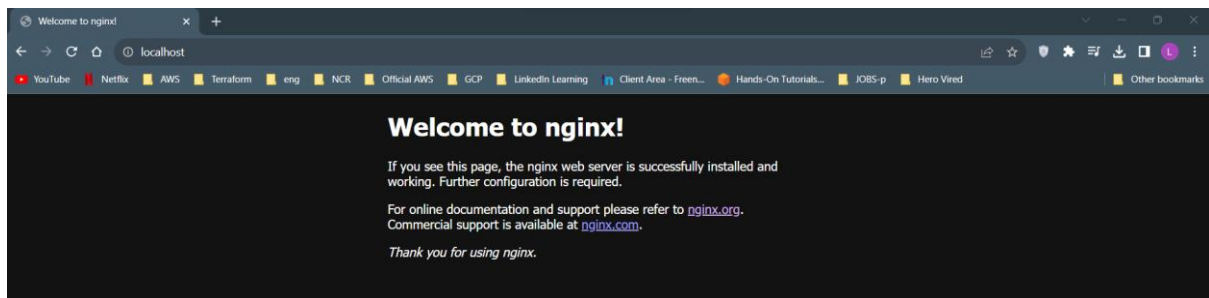
Installation of Nginx

After installing the webserver, we need to open it and run the executable file nginx.exe.



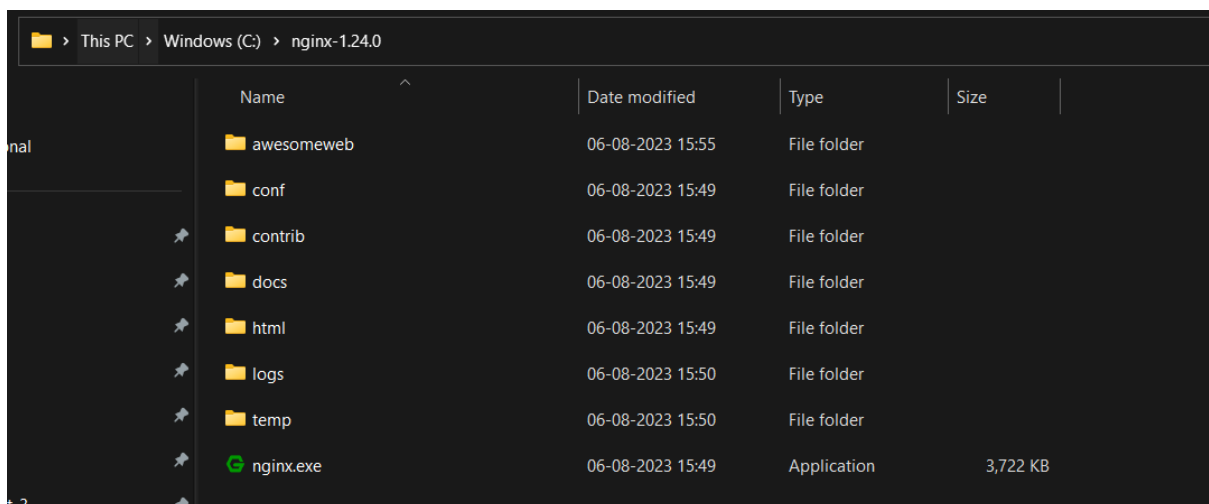
Nginx webserver status check

After clicking on the exe file, we will go to the browser and check the status by using localhost. If the nginx webserver is up/active, we will be able to see the website.



Setting up our custom domain name

In the same nginx -1.24.0, we will create a new folder with the desired name. In this case, I'm creating a folder with the name "awesomeweb".



Creating HTML files

Once the folder is created, we need to write html code inside the awesomeweb folder. I have taken the same web template which was created by Nginx team and edited the content.

This PC > Windows (C:) > nginx-1.24.0 > awesomeweb				
Name	Date modified	Type	Size	
50x.html	06-08-2023 15:49	HTML Source File	1 KB	
index.html	06-08-2023 23:35	HTML Source File	1 KB	

Update .conf File

We need to put the below code to create the domain name.

```
server {
    listen      80;
    server_name awesomeweb;

    #charset koi8-r;

    #access_log logs/host.access.log main;

    location / {
        root    awesomeweb;
        index   index.html index.htm;
    }
}
```

Update hosts file

We need add the below line in the hosts file to create a DNS entry for the website. For that we need to open this path **C:\Windows\System32\drivers\etc** and find hosts file.

This PC > Windows (C:) > Windows				
Name	Date modified	Type	Size	
Speech_OneCore	07-05-2022 10:54	File folder		
System	07-05-2022 10:54	File folder		
System32	05-08-2023 00:05	File folder		

This PC > Windows (C:) > Windows > System32 > drivers > etc				
Name	Date modified	Type	Size	
hosts	06-08-2023 15:38	File	2 KB	

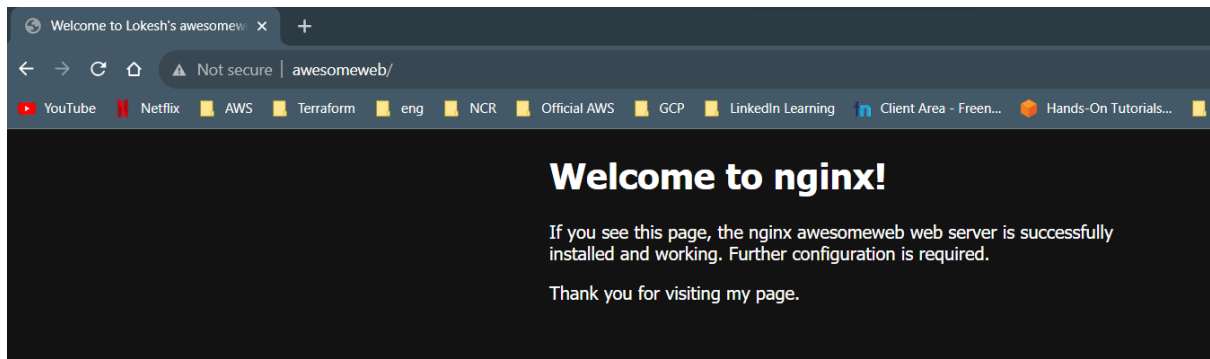
In the host's file, we need to add the below lines and save.

```
127.0.0.1 awesomeweb
::1 awesomeweb

Ln 1, Col 1
```

Domain name check

Now we performed all the steps and we will check whether the domain name has been changed or not. For that we need to run the nginx.exe file again.



Now the domain name has been changed to awesomeweb!!!