

## Deploying 'awesomeweb' Website on Localhost with Apache or Nginx

### Step 1: Download and Install the Required Software

Choose between Apache or Nginx as your web server:

#### For Apache:

1. Download WampServer from the website:  
<https://httpd.apache.org/docs/current/platform/windows.html#down>.
2. Install WampServer following the instructions provided on below website:  
<https://www.w3resource.com/php/installation/install-wamp.php>

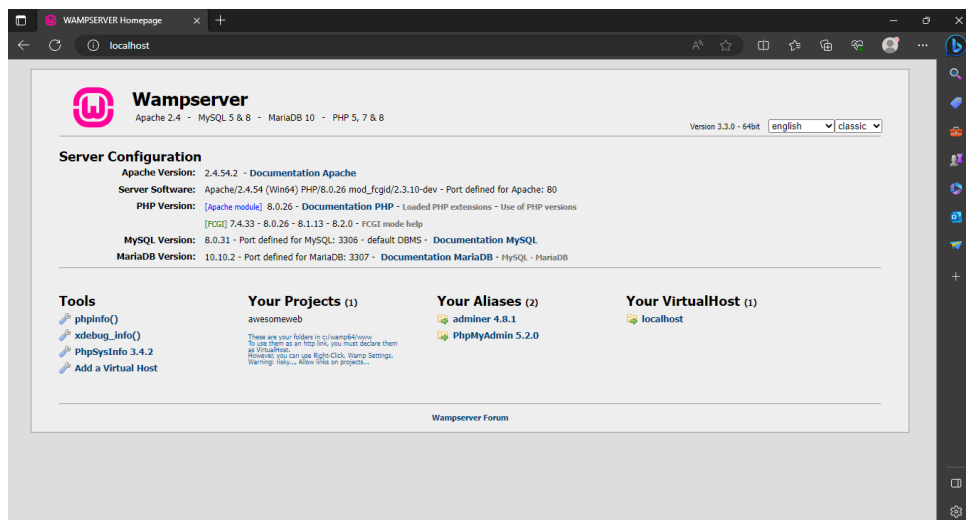
#### For Nginx:

1. Download the stable version of Nginx from the website:  
<http://nginx.org/en/download.html>
2. Unzip the downloaded file from downloaded folder and  
move the Nginx folder (ex . nginx-1.24.0) to your C: drive.

### Step 2: Verify Server Installation

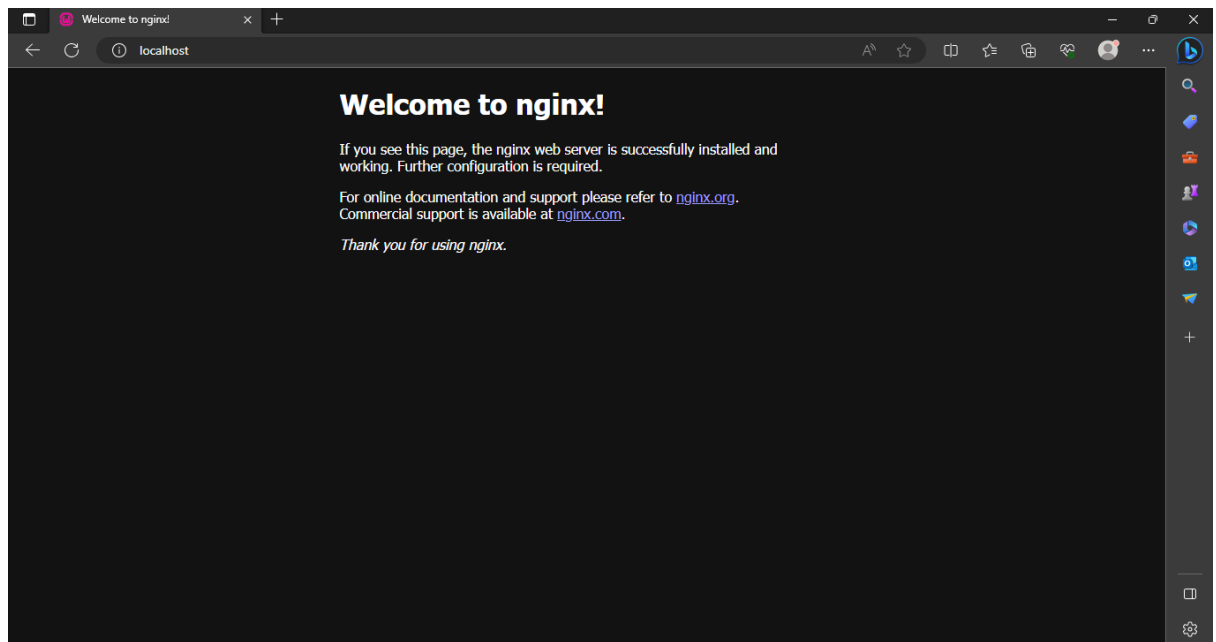
#### For Apache (WampServer):

1. Launch WampServer and ensure the W icon is green in the system tray.
2. Open any web browser and go to <http://localhost> url. You should see the WampServer homepage if everything is set up correctly.



### For Nginx:

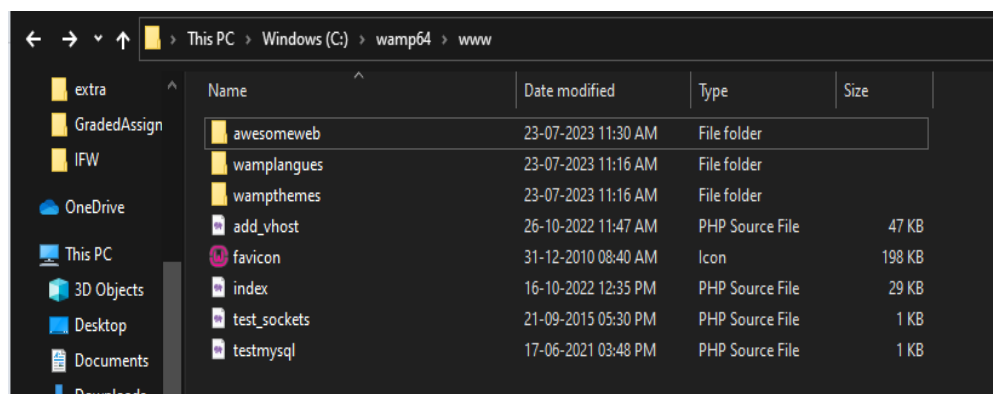
1. Open a command prompt(CMD) and navigate to the Nginx folder for C Drive (ex. C:\nginx-1.24.0\nginx-1.24.0).
2. For Start the Nginx the command: nginx.exe.
3. Open any web browser and go to <http://localhost> url. You should see the Nginx welcome page if the server is running correctly.

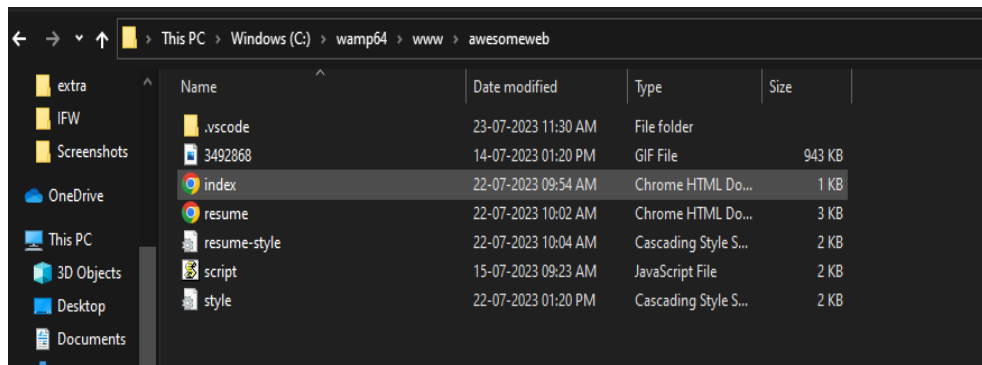


### Step 3: Deploy 'awesomeweb' Website

#### 1. For Apache (WampServer):

- Navigate to the www directory in the WampServer installation folder (e.g., C:\wamp64\www).
- Create a new folder named 'awesomeweb' in the www directory.
- Place your website files (HTML, CSS, JS, etc.) inside the 'awesomeweb' folder.





## 2. For Nginx:

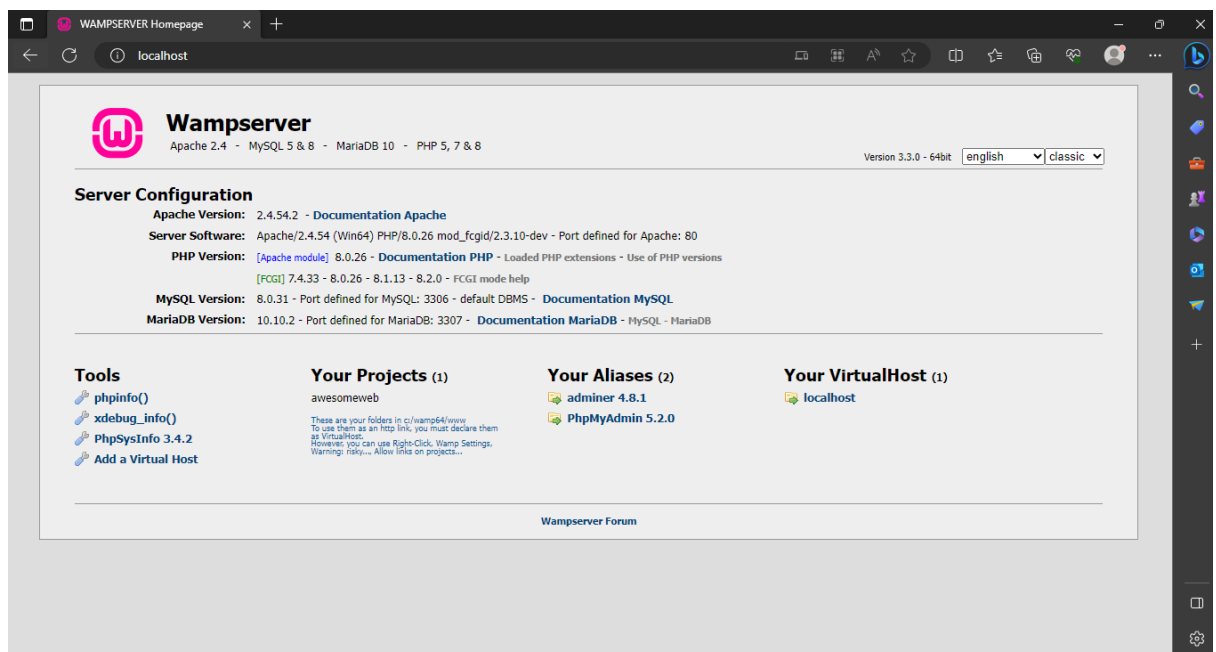
- Create a new folder named 'awesomeweb' into the Nginx installation folder (ex. C:\nginx-1.24.0\nginx-1.24.0).
- Place your website files (HTML, CSS, JS, etc.) inside the 'awesomeweb' folder.

## Step 4: Server/File Configure

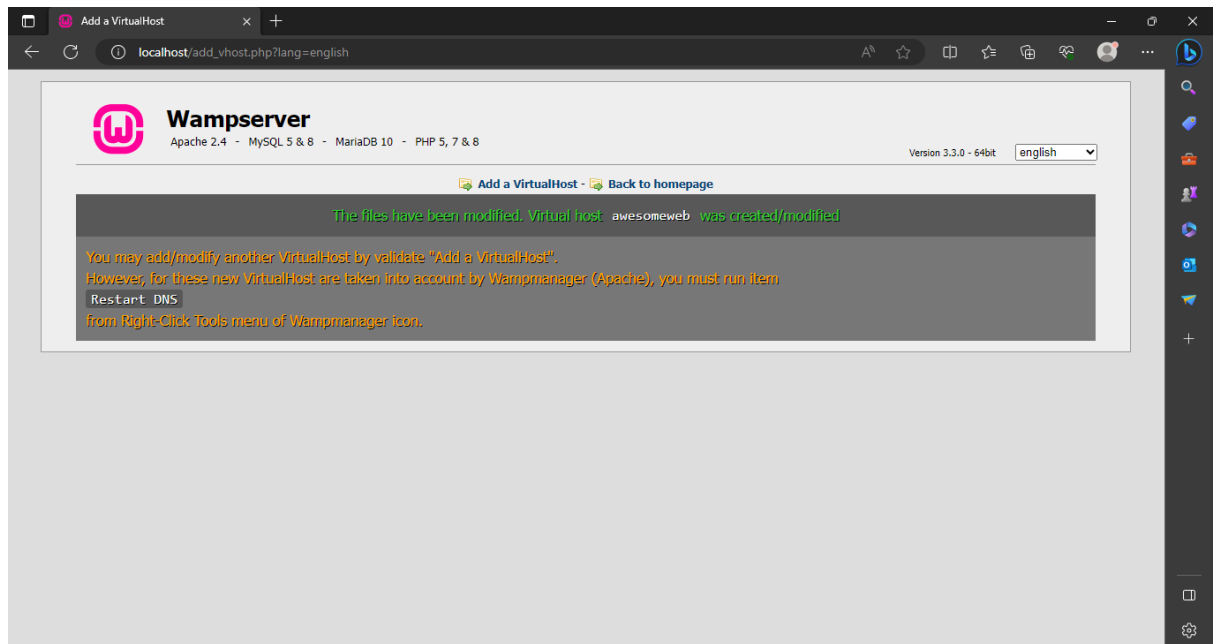
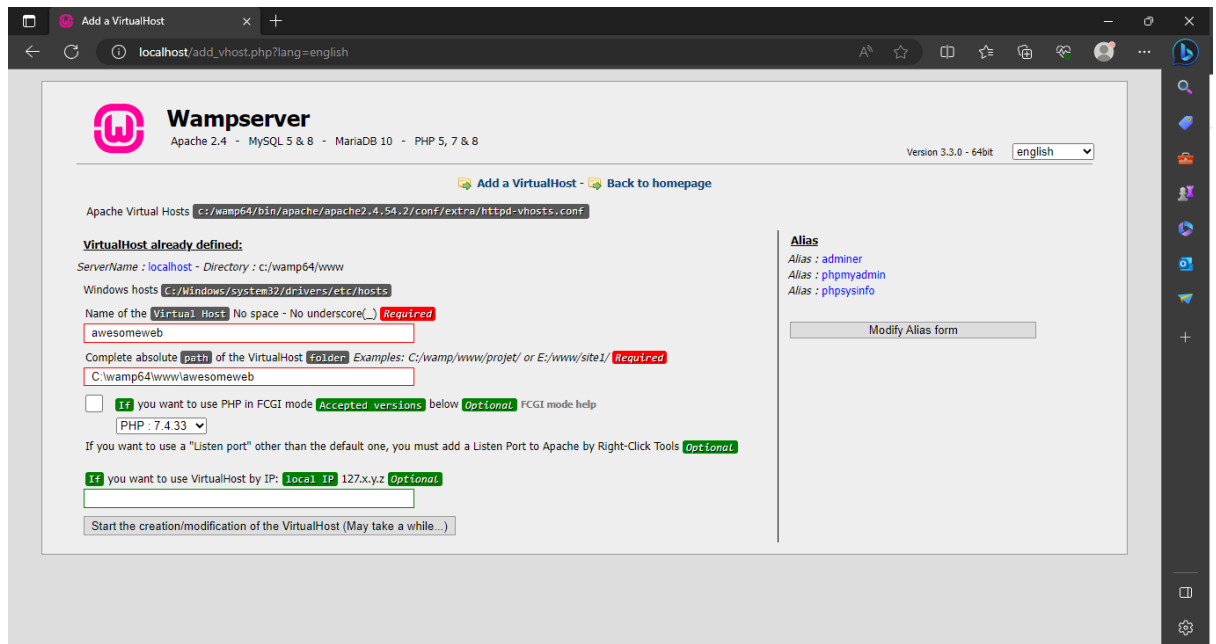
### 1. For Apache (WampServer):

#### Option 1: Configure Virtual Host From UI (WampServer - Apache)

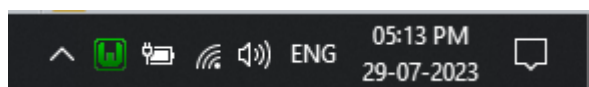
1. Open a web browser and type <http://localhost/>. You should see the WampServer homepage.

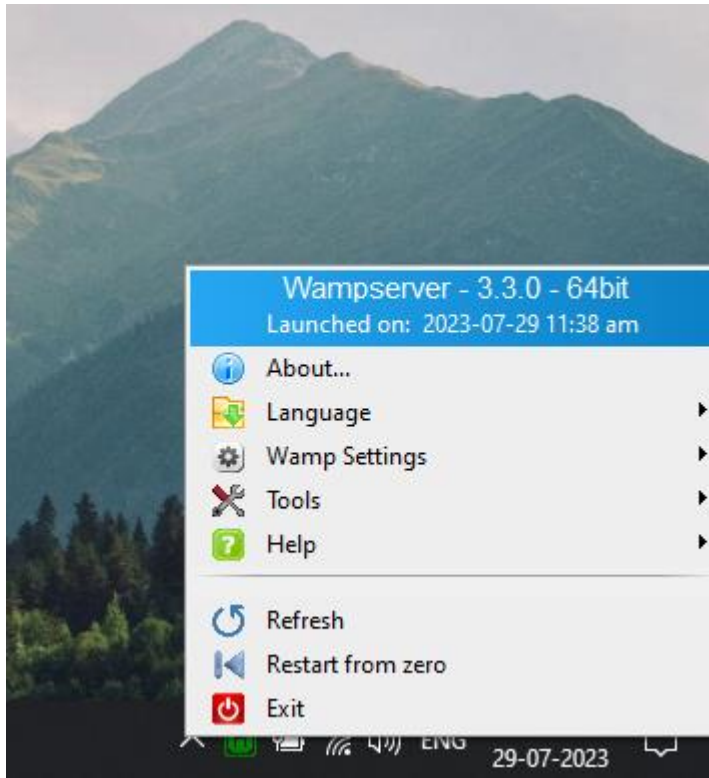


2. go to Tools > click on the Add a Virtual Host.
3. Enter 'awesomeweb' as the Server Name and provide the path to your 'awesomeweb' website folder (e.g., C:\wamp64\www\awesomeweb).
4. Click on the "Start the creation/modification of the VirtualHost" button.



- After the configuration is complete, right-click on the WampServer icon and select "Refresh" option.





### Option 2: Configure Virtual Host Manually (WampServer - Apache)

1. Navigate to the Apache configuration directory ex:  
C:\wamp64\bin\apache\apache2.4.54.2\conf\extra.
2. Open httpd-vhosts.conf file with notepad.
3. Add the following VirtualHost configuration:

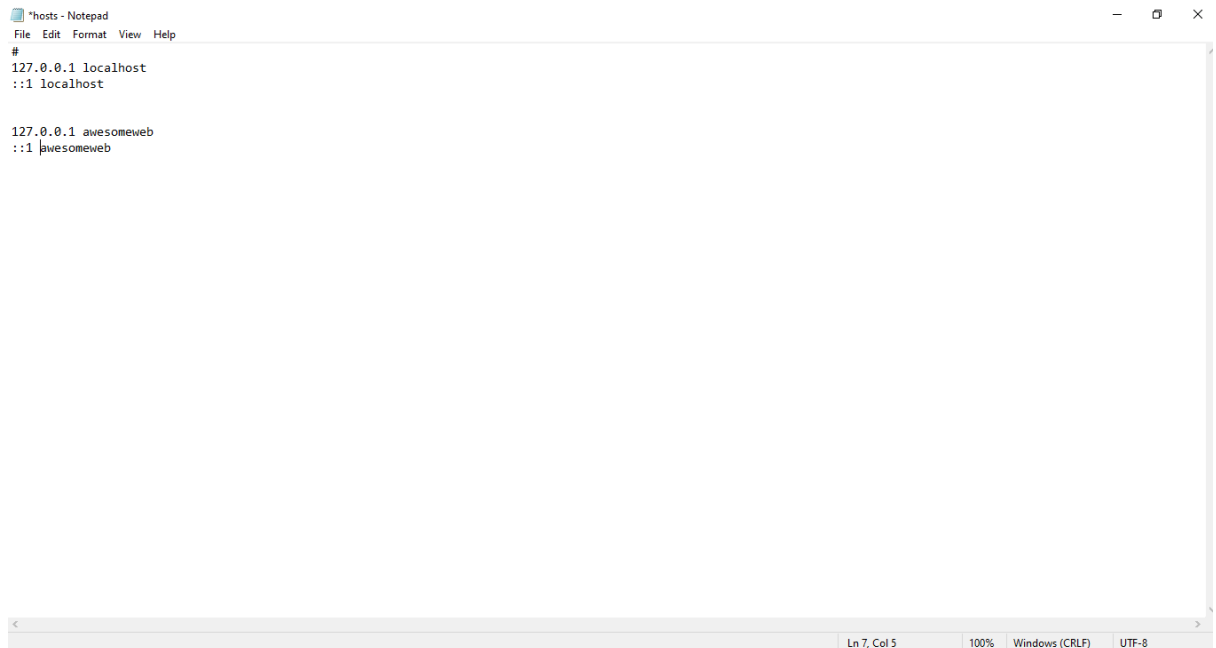
```
#  
<VirtualHost *:80>  
  
    ServerName awesomeweb  
  
    DocumentRoot "c:/wamp64/www/awesomeweb"  
  
    <Directory "c:/wamp64/www/awesomeweb/">  
  
        Options +Indexes +Includes +FollowSymLinks +MultiViews  
  
        AllowOverride All  
  
        Require local  
  
    </Directory>  
  
</VirtualHost>  
  
#
```

A screenshot of a Notepad window titled 'httpd-vhosts - Notepad'. The window contains an Apache Virtual Hosts configuration. It starts with a comment line '# Virtual Hosts' followed by a blank line. Then there is a <VirtualHost \*:80> block. Inside this block, 'ServerName localhost' and 'ServerAlias localhost' are set. The 'DocumentRoot' is set to '\${INSTALL\_DIR}/www'. A <Directory '\${INSTALL\_DIR}/www/'> block follows, with 'Options +Indexes +Includes +FollowSymLinks +MultiViews', 'AllowOverride All', and 'Require local'. The </Directory> and </VirtualHost> tags close the first block. A second <VirtualHost \*:80> block is added below. Its 'ServerName' is 'awesomeweb' and 'DocumentRoot' is 'c:/wamp64/www/awesomeweb'. A <Directory 'c:/wamp64/www/awesomeweb/'> block follows with the same options and requirements as the first. The </Directory> and </VirtualHost> tags close the second block. The file ends with a blank line and a '#' character. The status bar at the bottom shows 'Ln 1, Col 1', '100%', 'Windows (CRLF)', and 'UTF-8'.

4. Save the changes.
5. Open the hosts file with a notepad running in administrator. The hosts file is located at "C:\Windows\System32\drivers\etc".
6. Add the below line in the hosts file :

127.0.0.1 awesomeweb

::1 awesomeweb

A screenshot of a Notepad window titled '\*hosts - Notepad'. The window shows the contents of the Windows hosts file. It starts with a comment line '#'. Below it are two lines: '127.0.0.1 localhost' and '::1 localhost'. There is a blank line, followed by two more lines: '127.0.0.1 awesomeweb' and '::1 awesomeweb'. The status bar at the bottom shows 'Ln 7, Col 5', '100%', 'Windows (CRLF)', and 'UTF-8'.

7. Save the changes.
8. To apply the changes, go to the WampServer icon in the system tray and click "Refresh."

Now, you have configured the virtual host for 'awesomeweb' both through the UI and manually.

## 2. For Nginx:

1. Navigate to the Nginx configuration directory ex:

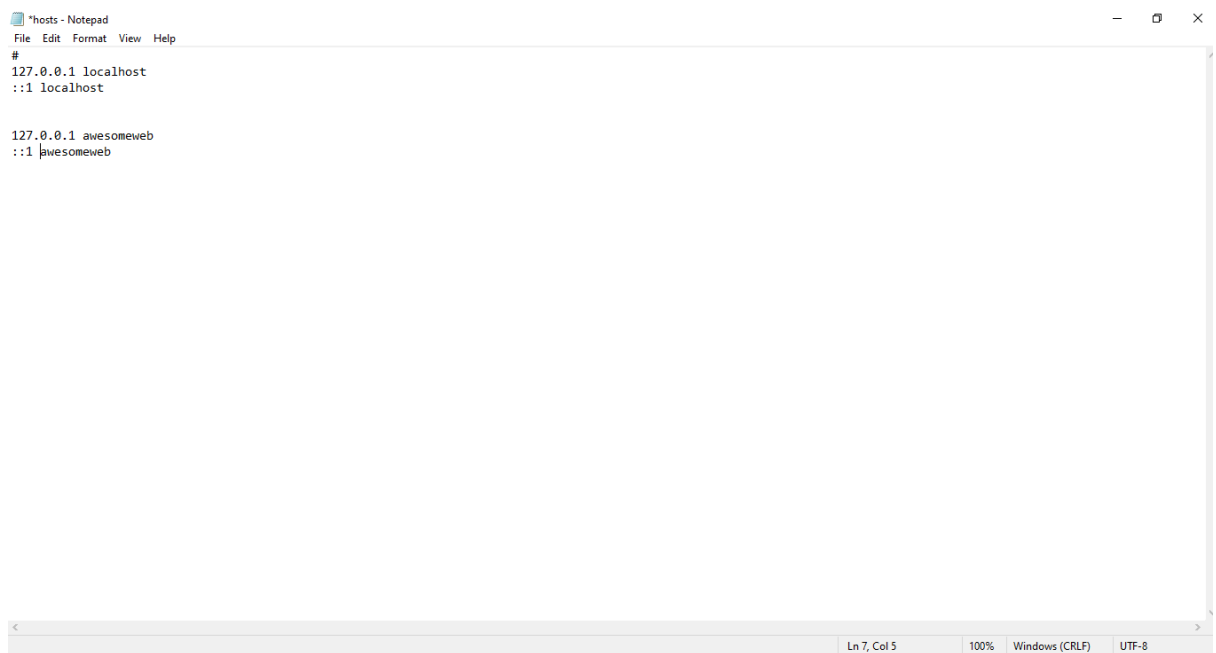
C:\nginx-1.24.0\nginx-1.24.0\conf.

2. Open nginx.conf file with notepad.

3. Add the following Server configuration:

```
server {  
  
    listen    80;  
  
    server_name awesomeweb;  
  
    location / {  
  
        root awesomeweb;  
  
        index index.html index.htm;  
  
    }  
  
}
```

4. Save the changes.
5. Open the hosts file with a notepad running in administrator. The hosts file is located at "C:\Windows\System32\drivers\etc".
6. Add the below line in the hosts file :  
  
127.0.0.1 awesomeweb  
  
::1 awesomeweb



```
*hosts - Notepad
File Edit Format View Help
#
127.0.0.1 localhost
::1 localhost

127.0.0.1 awesomeweb
::1 awesomeweb
```

7. Save the changes.
8. Open a command prompt in C:\nginx-1.24.0\nginx-1.24.0 this location and use the following command to reload Nginx and apply the changes : nginx -s reload

## Step 6: Access Your Website

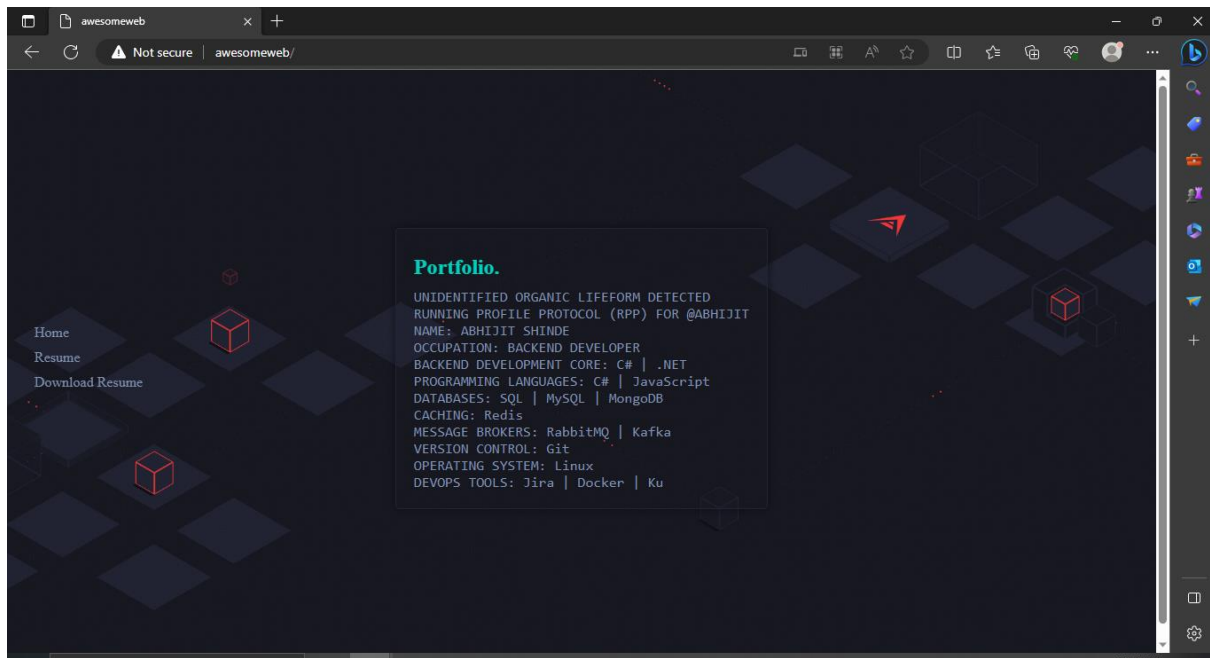
### 1. For Apache (WampServer):

- Open a web browser and navigate to <http://awesomeweb/>. You should now see your 'awesomeweb' website.

### 2. For Nginx:

- Open a web browser and navigate to <http://awesomeweb/>. You should now see your 'awesomeweb' website.





Congratulations! You have successfully deployed your 'awesomeweb' website on localhost using either Apache or Nginx and assigned it a DNS name. You can access your website locally using the specified DNS name.