Placement Empowerment Program

Cloud Computing and DevOps Centre

TASK:- To Host a Static Website Locally

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Introduction and Overview

The process involves setting up a local web server, configuring it correctly, and hosting a simple HTML page. By following these steps, you'll get hands-on experience with configuring and running a local Apache server

Objective

The goal of this project is to:

1. Set up a local web server using Apache.
2. Configure the server to host static files.
3. Create and host a simple HTML page displaying your name.

Importance of Local Hosting

Local hosting is an essential skill for developers, as it allows them to test and experiment with web applications in a controlled environment. It offers several advantages, such as:

Hands-On Learning: Gain practical experience with server setup and configuration.

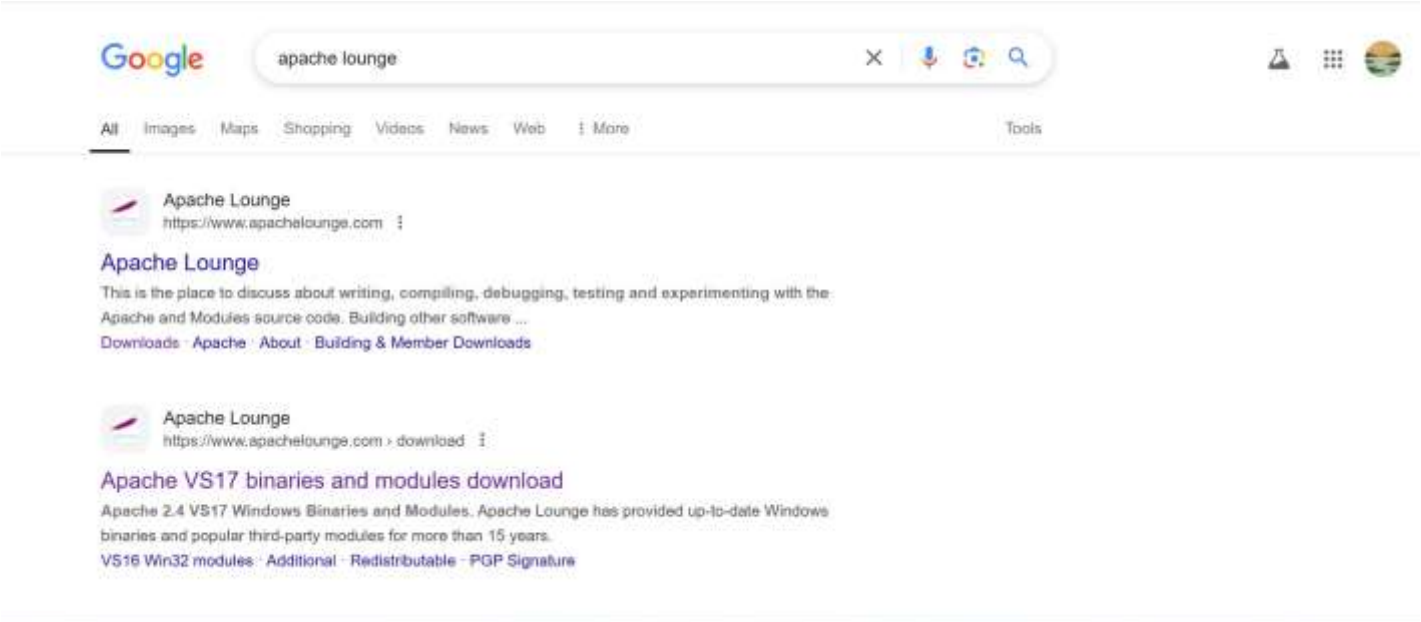
Testing Ground: Safely test and debug websites before deploying them to a live server.

Offline Development: Work on web projects without requiring an active internet connection.

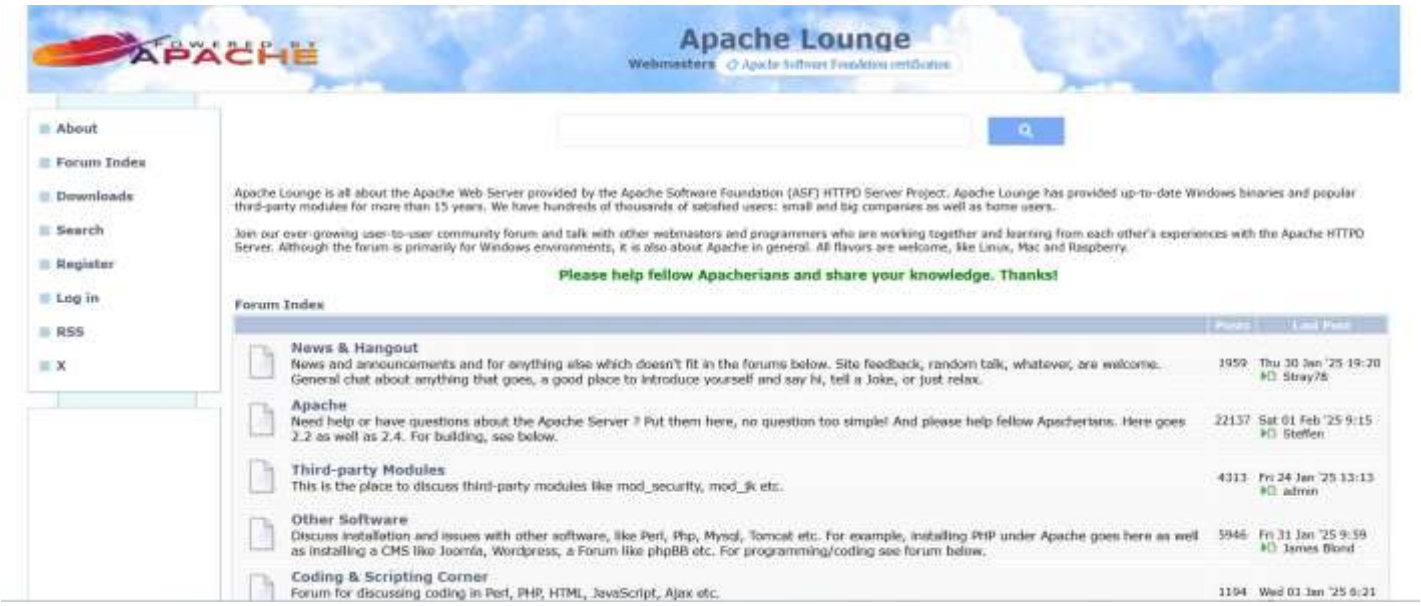
Step-by-Step Overview

Step1:

Search for "Apache Lounge" on Google and click the first link to access the official website.



Step 2 :



Step 3 :

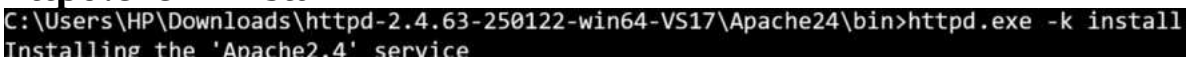
Step 4 :

Open Command Prompt as Administrator (Windows + R, type cmd, right-click and select 'Run as Administrator') and use the command cd C:\path\to\apache\bin to set the path to the Apache bin folder.

Step 5 :

Then Run the installation command :

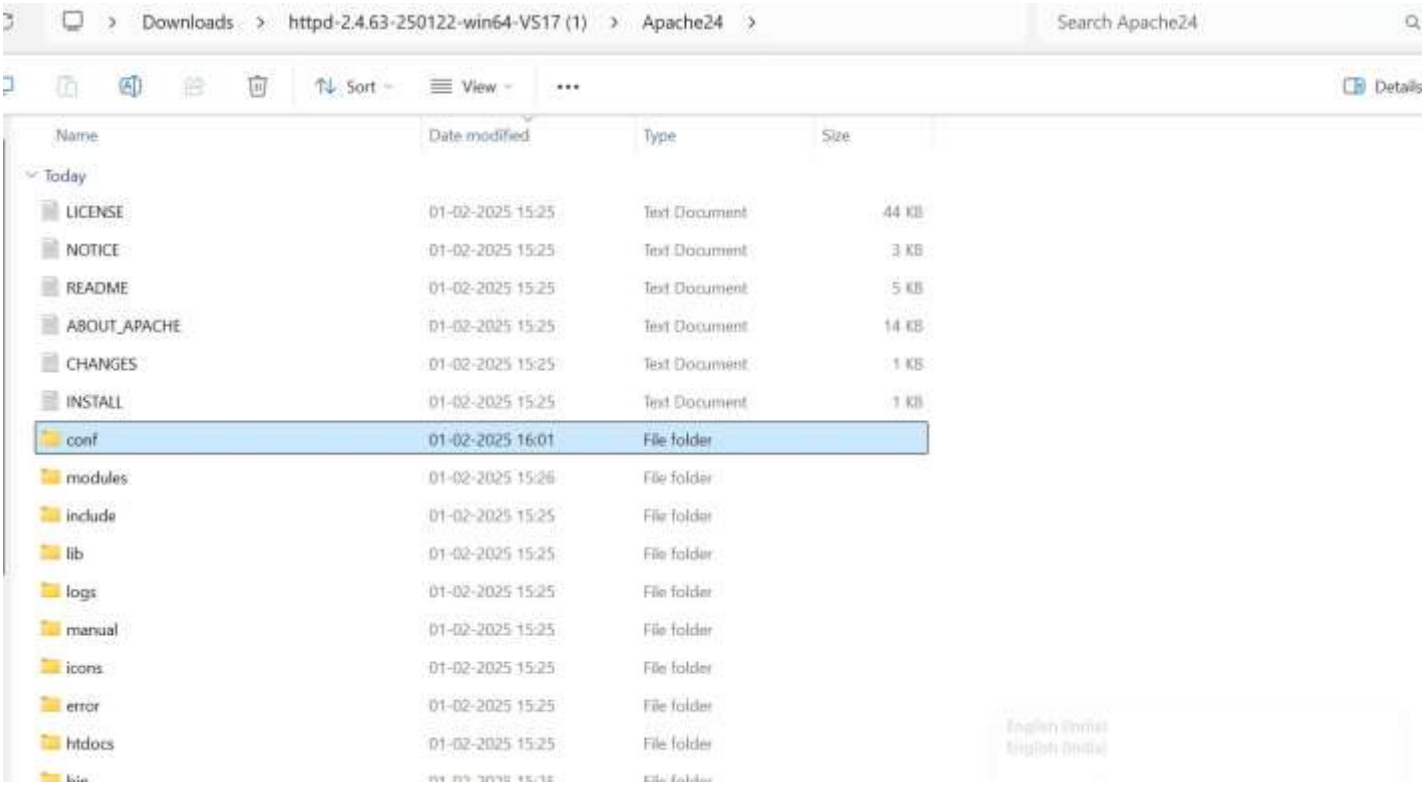
httpd.exe -k install



Step 6 :

Navigate to the Apache folder you downloaded, go to the **conf** folder, and right-click on the httpd.conf file; select 'Edit with Notepad'

(Apache/conf/httpd.conf)



Step 7 :

Inside the **httpd.conf** file, replace the content with the provided configuration. Ensure you update the SRVROOT directive with your Apache installation path.

Step 8 :

Open Command Prompt and type the command **httpd.exe -t** to test the configuration file. If the configuration is correct, you should see '**Syntax OK**'.

Step 9 :

Run the command **httpd.exe -k** start to start the Apache server.

```
C:\Users\HP\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>httpd.exe
Syntax OK
```

Step10:

Step 11 :

Create a simple model to display your name in HTML (you may optionally add CSS for styling).

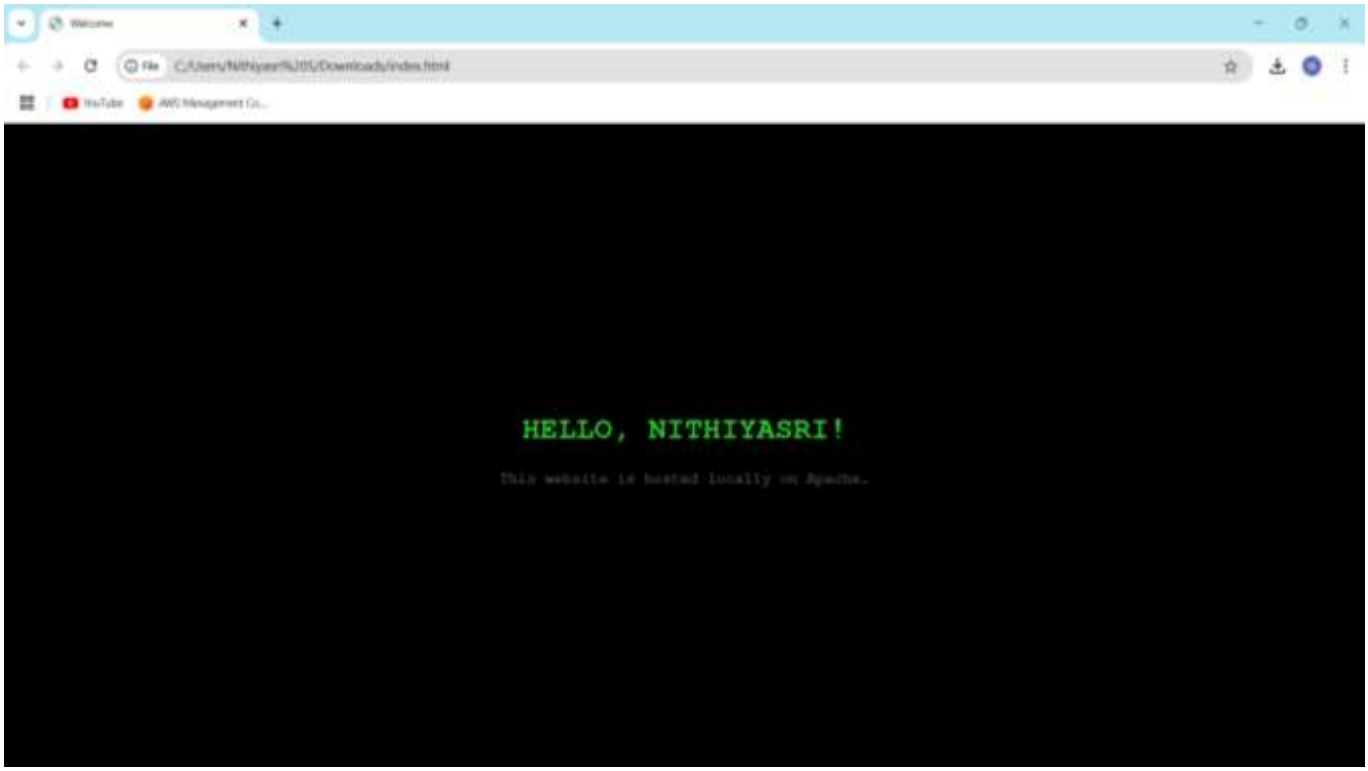
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>My First Website - Hacker Style</title>
    <style>
        /* Global Styles */
        body {
            margin: 0;
            padding: 0;
            font-family: 'Courier New', monospace;
            background: black;
            color: #00ff00;
            height: 100vh;
            display: flex;
            justify-content: center;
            align-items: center;
            overflow: hidden;
            position: relative;
            font-size: 1.2rem;
        }

        /* Matrix Animation */
        @keyframes matrix {
            0% {
                background: rgba(0, 0, 0, 0.9);
            }
            50% {
                background: rgba(0, 0, 0, 0.6);
            }
            100% {
                background: rgba(0, 0, 0, 0.9);
            }
        }

        .matrix-bg {
            position: absolute;
```

Step 12 :

Open the Chrome browser and type **localhost/index.html** in the address bar. You should be able to see the website hosted successfully.



Expected Outcome

By completing this POC, you will:

1. Successfully configure and run an Apache server locally.
2. Host a static HTML website that displays your name.
3. Understand the basics of web server configuration and file hosting.