



Placement Empowerment Program Cloud Computing and DevOps Centre

Host a Static Website Locally: Set Up a Local Server Apache and Host a Simple HTML page with your name

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Introduction

This proof of concept (POC) demonstrates the process of hosting a static website locally using the Apache HTTP Server, involving the setup of a local web server, its configuration, and hosting a simple HTML page to build foundational knowledge in web hosting and server management.

Objective

The objective of this project is to:

- 1. Install and set up a local web server using Apache.
- 2. Configure the server to serve static files.
- 3. Design and host a basic HTML page that displays your name.

Importance of Local Hosting

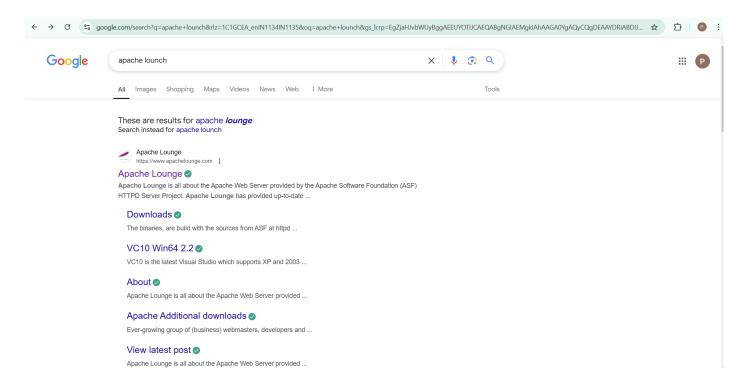
Local hosting is a crucial skill for developers, enabling them to test and experiment with web applications in a secure and controlled environment. It provides several benefits, including:

- **Practical Experience**: Learn server setup and configuration through handson practice.
- **Safe Testing**: Debug and refine websites without the risks associated with live server deployment.
- Offline Development: Develop web projects without relying on an active internet connection.

Step-by-Step Overview

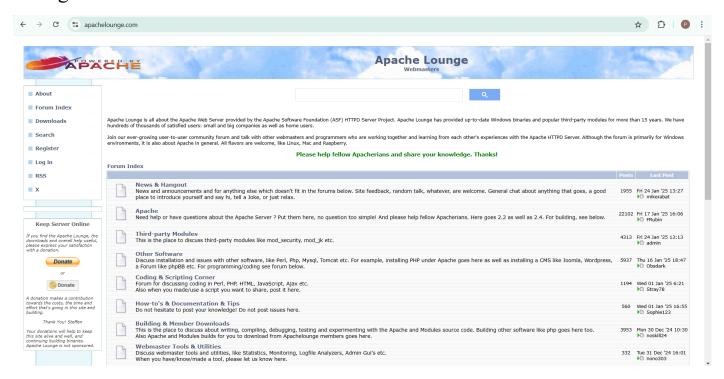
Step1:

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



Step 2:

Click on the "Downloads" option located on the left-hand side of the Apache Lounge website.



Step 3:

Click on the link "Apache 2.4.62-240904 Win64" (Windows version), download the file, and extract all its contents.



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.

```
C:\Users\DELL>cd C:\Users\DELL\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24
C:\Users\DELL\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24>
```

Step 5:

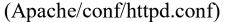
Then Run the installation command:

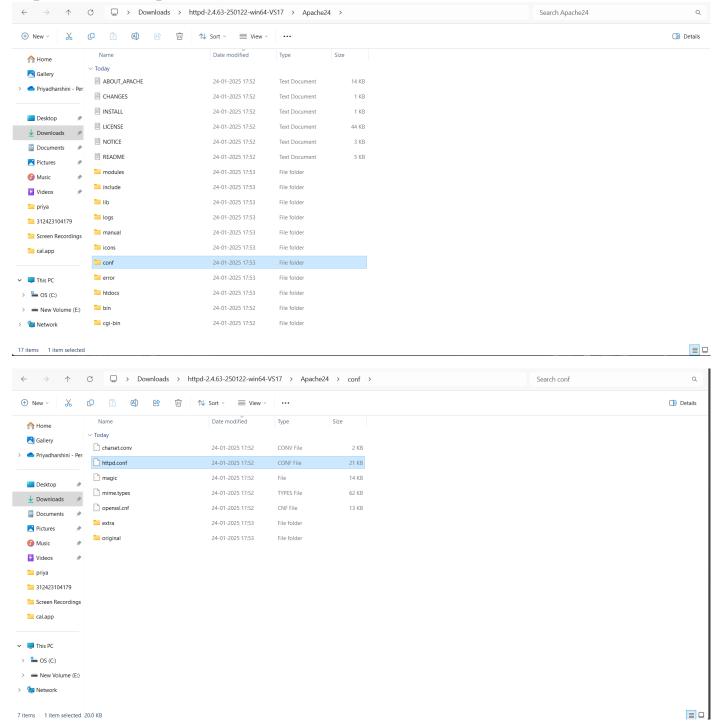
httpd.exe -k install

```
C:\Users\DELL\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>httpd.exe -k install
Installing the 'Apache2.4' service
(OS 5)Access is denied. : AH00369: Failed to open the Windows service manager, perhaps you forgot to log in as Administrator?
C:\Users\DELL\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>
```

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'

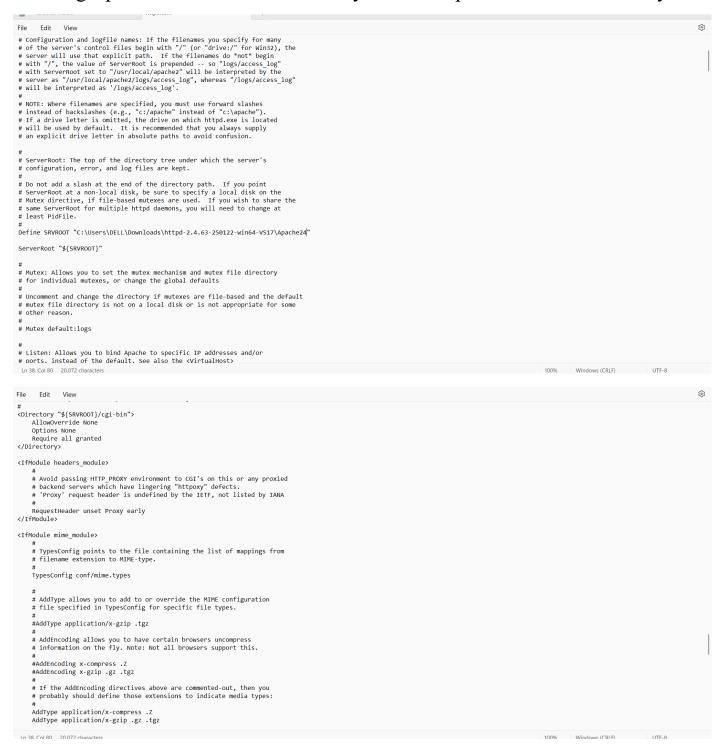




Step 7:

Inside the **httpd.conf** file, replace the content with the provided configuration. Ensure you update the SRVROOT directive with your Apache installation path. This configuration defines the server's root directory, listening port, modules,

document root for serving web files, logging paths, and basic permissions, ensuring Apache serves content correctly from the specified htdocs directory.



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'.

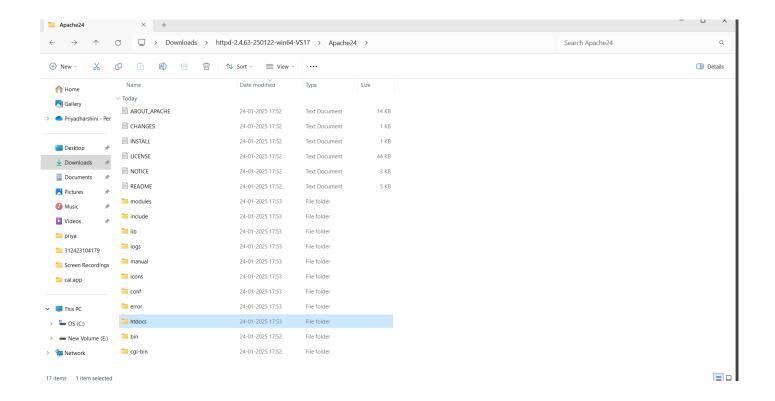
Step 9:

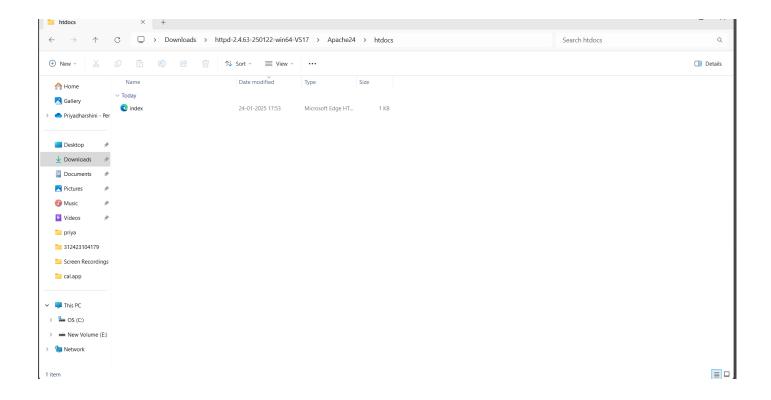
Run the command httpd.exe -k start to start the Apache server.

C:\Users\DELL\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>httpd.exe -k

Step10:

Go to the Apache folder, navigate to the **htdocs** folder, and find the **index.html** file. Right-click on it and select 'Edit with Notepad'.



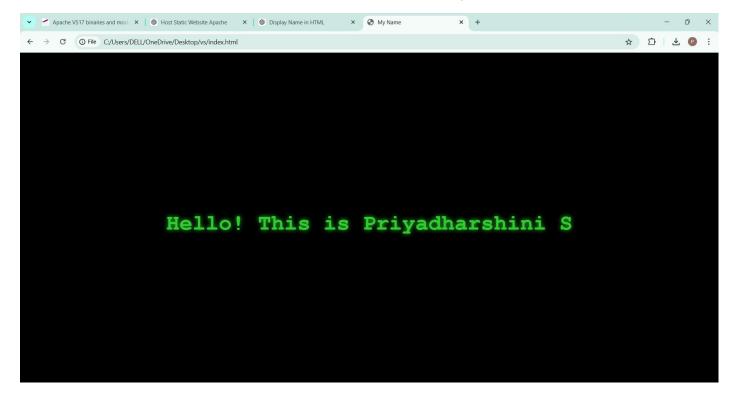


Step 11:

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

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.



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.