



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 how to locally host a static website using the Apache HTTP Server. The process includes setting up a local web server, configuring it properly, and hosting a basic HTML page. By completing these steps, you will gain practical experience in configuring and managing an Apache server, a fundamental skill for web hosting and server administration.

Objective

The objective of this project is to:

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

Importance

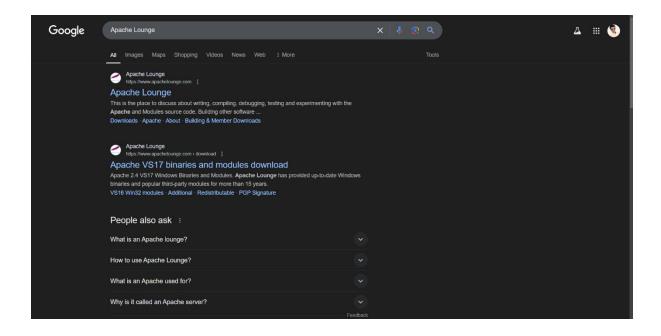
Local hosting is a fundamental skill for developers, enabling them to test and refine web applications in a controlled environment. It provides several key benefits:

- **Hands-On Learning:** Develop practical experience with server setup and configuration.
- **Testing Environment:** Safely test and debug websites before deploying them to a live server.
- Offline Development: Work on web projects without relying on an internet connection.

Step-by-step Overview

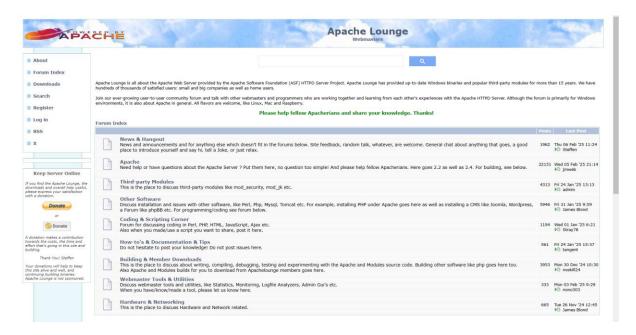
Step 1:

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



Step 2:

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



Step 3:

- Download "Apache 2.4.62-240904 Win64" (Windows version).
- Extract all its contents to a preferred location on your system.



Step 4:

- Open Command Prompt as Administrator (Press Windows + R, type cmd, right-click, and select 'Run as Administrator').
- Set the path to the Apache bin folder using:

C:\Users\HP\Downloads\httpd-2.4.62-240904-win64-VS17\Apache24>cd C:\Users\HP\Downloads\httpd-2.4.62-240904-win64-VS17\Apache24/bin

Step 5:

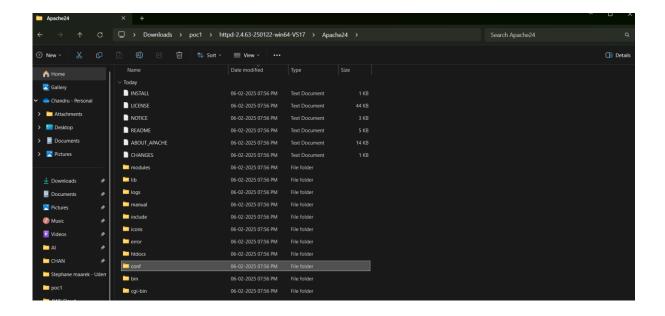
Run the following command to install Apache:

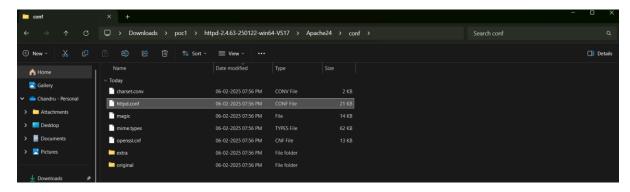
httpd.exe -k install

C:\Users\HP\Downloads\httpd-2.4.62-240904-win64-VS17\Apache24\bin>httpd.exe -k install Installing the 'Apache2.4' service The 'Apache2.4' service is successfully installed.

Step 6:

- Navigate to the Apache installation folder, open the conf folder, and locate httpd.conf.
- Right-click on httpd.conf and select 'Edit with Notepad'.





Step 7:

- Replace the content with the provided configuration.
- Update the SRVROOT directive with your Apache installation path.
- Ensure settings like the server's root directory, listening port, document root, logging paths, and permissions are correctly defined.

```
# Define SRWBOOT TC:/Users/Hi/Downloads/httpd-2.4.62-248984-win64-VS17/Apache24*

# Ensure the path resolves correctly for DocumentRoot
ServerRoot "${SRWBOOT}*

# Listening Port
Listen 80

# ServerName (optional, but recommended for local testing)
ServerName (calhost:80

# LoadModule access_compat_module modules/mod_access_compat.so
LoadModule access_compat_module modules/mod_actions.so
LoadModule actions_module modules/mod_actions.so
LoadModule actions_module modules/mod_auth_mosic_so
LoadModule auth_mosic_module modules/mod_auth_mosic_so
LoadModule auth_mosic_module modules/mod_auth_mosic_so
LoadModule auth_core_module modules/mod_auth_core.so
LoadModule auth_core_module modules/mod_auth_core.so
LoadModule into modules/mod_auth_core.so
LoadModule into modules/mod_auth_core.so
LoadModule into modules/mod_auth_core.so
LoadModule section*
LoadModule modules/mod_auth_core.so
LoadModule section*

# DocumentRoot and Directory configuration
DocumentRoot **S[SRWROOT]*Nidocs**
Options Indoces**
```

Step 8:

- Open Command Prompt and run: httpd.exe -t
- If the configuration is correct, you should see 'Syntax OK'.

```
C:\Users\HP\Downloads\httpd-2.4.62-240904-win64-VS17\Apache24\bin>httpd.exe -t
Syntax OK
```

Step 9:

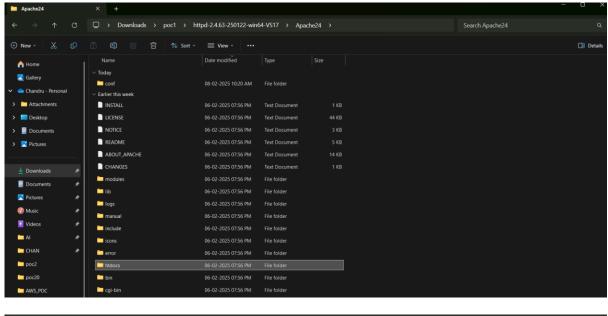
Run the following command to start Apache:

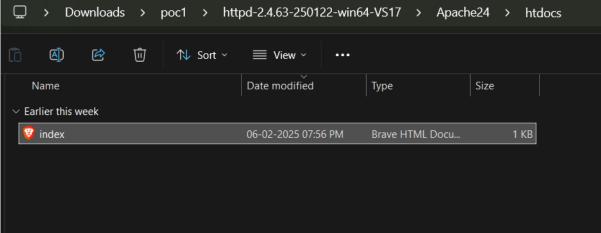
httpd.exe -k start

```
C:\Users\HP\Downloads\httpd-2.4.62-240904-win64-VS17\Apache24\bin>httpd.exe -k start
```

Step 10:

- Navigate to the htdocs folder inside your Apache directory.
- Right-click on index.html and select 'Edit with Notepad'.



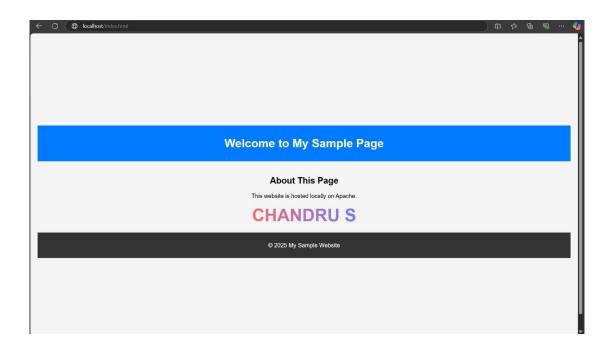


Step 11:

- Create a basic HTML page to display your name.
- Optionally, add CSS for styling.

Step 12:

- Open Google Chrome and type: localhost/index.html
- You should now see your website hosted successfully.



Expected Outcome

By completing this proof of concept (POC), you will:

- 1. Successfully set up and configure an Apache server on your local machine.
- 2. Host a static HTML webpage that displays your name.
- 3. Gain a foundational understanding of web server configuration and file hosting.