



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 and Overview

In this POC, we will learn how to host a static website locally using the Apache HTTP Server. This 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, which is a foundational skill for web hosting and server management.

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.

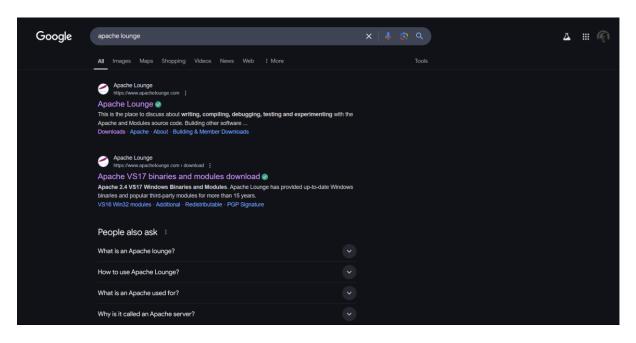
Testing Ground: Safely test and debug websites before deploying them to a live server.

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.



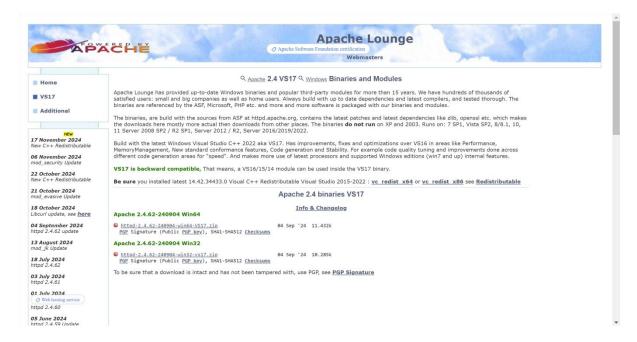
Step 2:

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.

```
Microsoft Windows [Version 10.0.26100.2894]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32> cd C:\Users\vinis\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin

C:\Users\vinis\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>
```

Step 5:

Then Run the installation command:

httpd.exe -k install

```
C:\Users\vinis\Downloads\httpd-2.4.63-250122-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 folder you downloaded, go to the **conf** folder, and right-click on the httpd.conf file; select 'Edit with Notepad'

(Apache/conf/httpd.conf)

Name	Date modified	Туре	Size
∨ Today			
ABOUT_APACHE	28-01-2025 10:27	Text Document	14 KB
CHANGES	28-01-2025 10:27	Text Document	1 KB
INSTALL	28-01-2025 10:27	Text Document	1 KB
LICENSE	28-01-2025 10:27	Text Document	44 KB
NOTICE	28-01-2025 10:27	Text Document	3 KB
README	28-01-2025 10:27	Text Document	5 KB
modules	28-01-2025 10:27	File folder	
include	28-01-2025 10:27	File folder	
lib	28-01-2025 10:27	File folder	
logs	28-01-2025 10:27	File folder	
manual	28-01-2025 10:27	File folder	
icons	28-01-2025 10:27	File folder	
error	28-01-2025 10:27	File folder	
htdocs	28-01-2025 10:27	File folder	
cgi-bin	28-01-2025 10:27	File folder	
conf	28-01-2025 10:27	File folder	
bin	28-01-2025 10:27	File folder	
Name	Date modified	Туре	Size
∨ Today			
charset.conv	28-01-2025 10:27	CONV File	2 KB
httpd.conf	28-01-2025 10:27	CONF File	21 KB
magic	28-01-2025 10:27	File	14 KB
mime.types	28-01-2025 10:27	TYPES File	62 KB
openssl.cnf	28-01-2025 10:27	CNF File	13 KB
original	28-01-2025 10:27	File folder	
extra	28-01-2025 10:27	File folder	

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'.

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

Step 9:

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

C:\Users\vinis\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'.

Name	Date modified	Туре	Size
∨ Today			
■ ABOUT_APACHE	28-01-2025 10:27	Text Document	14 KB
CHANGES	28-01-2025 10:27	Text Document	1 KB
INSTALL	28-01-2025 10:27	Text Document	1 KB
LICENSE	28-01-2025 10:27	Text Document	44 KB
■ NOTICE	28-01-2025 10:27	Text Document	3 KB
README	28-01-2025 10:27	Text Document	5 KB
modules	28-01-2025 10:27	File folder	
include	28-01-2025 10:27	File folder	
ib	28-01-2025 10:27	File folder	
ings	28-01-2025 10:27	File folder	
manual	28-01-2025 10:27	File folder	
icons	28-01-2025 10:27	File folder	
error	28-01-2025 10:27	File folder	
htdocs	28-01-2025 10:27	File folder	
cgi-bin	28-01-2025 10:27	File folder	
conf	28-01-2025 10:27	File folder	
bin	28-01-2025 10:27	File folder	
Nama	Date modified	Tuno	Sizo
Name	Date modified	Туре	Size
∨ Today index	28-01-2025 10:27	Microsoft Edge HT	1 KB

Step 11:

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

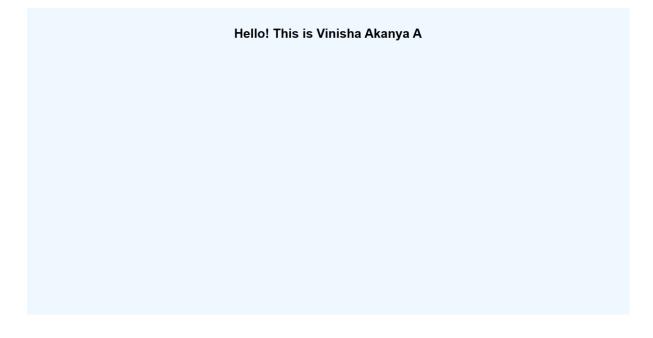
```
∠ Search

🔻 File Edit Selection View Go Run Terminal Help
      × Welcome
                      ♦ WebPage.html ×

■ Release Notes: 1.96.4
仚
      C: > Users > vinis > Downloads > ◆ WebPage.html > ...
             <!DOCTYPE html>
             <html lang="en">
              <meta charset="UTF-8">
               <meta name="viewport" content="width=device-width, initial-scale=1.0">
               <title>Simple HTML Page</title>
                 body {
B
                   font-family: Arial, sans-serif;
                   text-align: center;
                   margin: 50px;
                   background-color: ■#f0f8ff;
                 button {
                   padding: 10px 20px;
                   font-size: 16px;
                   color: □white;
                   background-color: ■#007bff;
                   border: none;
                   border-radius: 5px;
                   cursor: pointer;
                 button:hover {
                   background-color: ■#0056b3;
               <h1>Welcome to My Simple Webpage</h1>
               This is a basic HTML program to get you started!
               <button onclick="alert('You clicked the button!')">Click Me</button>
        34
```

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.