



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.

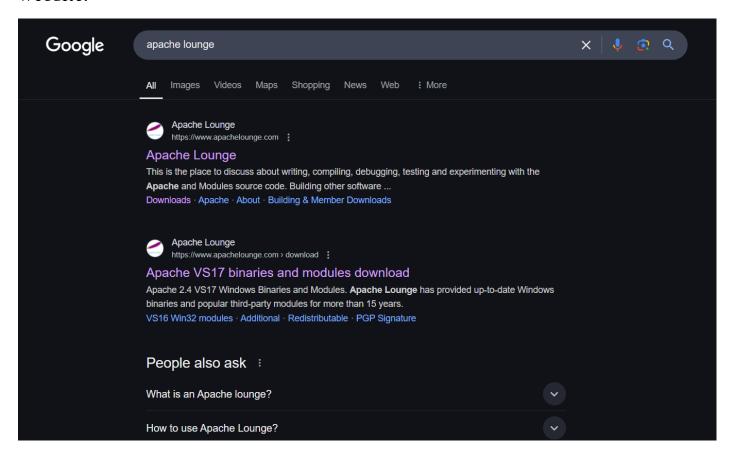
Testing Ground: Safely test and debug websites before deploying them to a live server.

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

Step-by-Step Overview

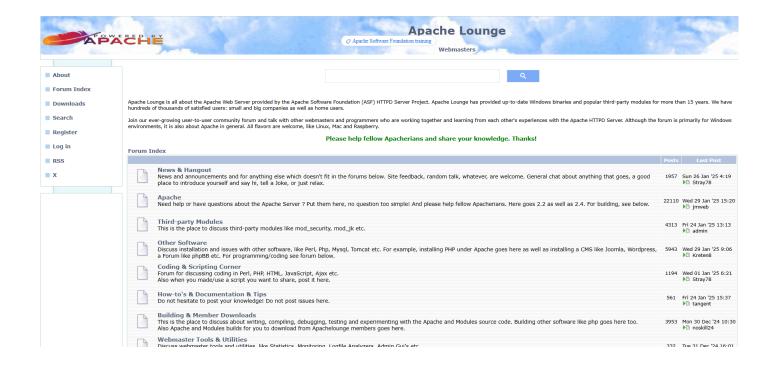
Step1:

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.

Q Apache 2.4 VS17 Q Windows Binaries and Modules

Apache Lounge has provided up-to-date Windows binaries and popular third-party modules for more than 15 years. We have hundreds of thousands of satisfied users: small and big of home users. Always build with up to date dependencies and latest compilers, and tested thorough. The binaries are referenced by the ASF, Microsoft, PHP etc. and more and more sof with our binaries and modules.

The binaries, are build with the sources from ASF at httpd.apache.org, contains the latest patches and latest dependencies like zlib, openssl etc. which makes the downloads here mo downloads from other places. The binaries do not run on XP and 2003. Runs on: 7 SP1, Vista SP2, 8/8.1, 10, 11 Server 2008 SP2 / R2 SP1, Server 2012 / R2, Server 2016/2019/20

Build with the latest Windows Visual Studio C++ 2022 aka VS17. Has improvements, fixes and optimizations over VS16 in areas like Performance, MemoryManagement, New standar features, Code generation and Stability. For example code quality tuning and improvements done across different code generation areas for "speed". And makes more use of latest pr supported Windows editions (win7 and up) internal features.

VS17 is backward compatible, That means, a VS16/15/14 module can be used inside the VS17 binary.

Be sure you installed latest 14.42.34433.0 Visual C++ Redistributable Visual Studio 2015-2022 : vc redist x64 or vc redist x86 see Redistributable

Apache 2.4 binaries VS17

Info & Changelog

Apache 2.4.63-250122 Win64

httpd-2.4.63-250122-win64-VS17.zip
<u>PGP</u> Signature (Public <u>PGP key</u>), SHA1-SHA512 <u>Checksums</u>
22 Jan '25 11.787k

Apache 2.4.63-250122 Win32

httpd-2.4.63-250122-win32-vs17.zip
 PGP Signature (Public PGP key), SHA1-SHA512 Checksums

22 Jan '25 10.589k

To be sure that a download is intact and has not been tampered with, use PGP, see <u>PGP Signature</u>

虛擬主機, cn2服务器, vps雲主機 - 香港10G大帶寬服務器, 租服務

HK高防雲,美國高防雲,雲服務,彈性雲,600G HK香港本地防禦,全球 3TB 防禦,100倍故障賠償 bgp.la

打开 >

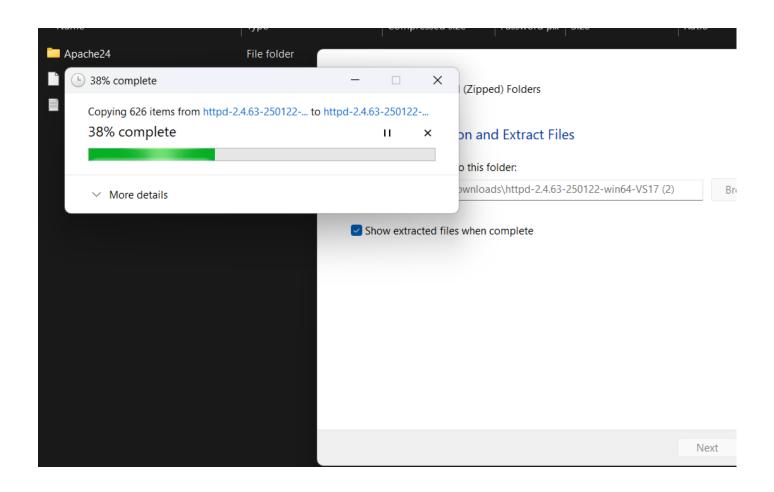
Apache 2.4 modules VS17

Mail for the PGP signatures and/or SHA checksums to verify the contents of a file.

Step 4:

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

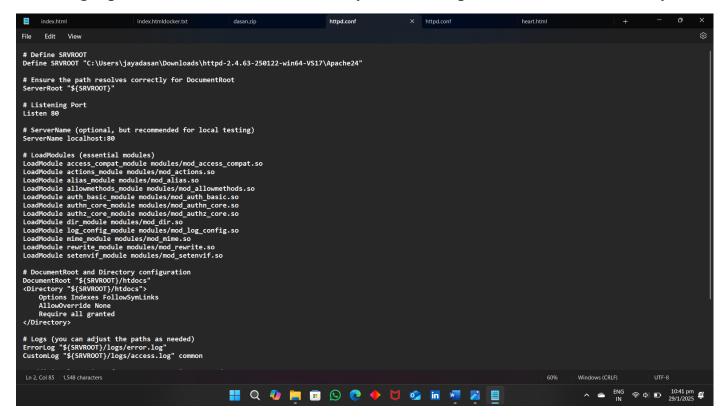
(Apache/conf/httpd.conf)



Step 5:

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 6:

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

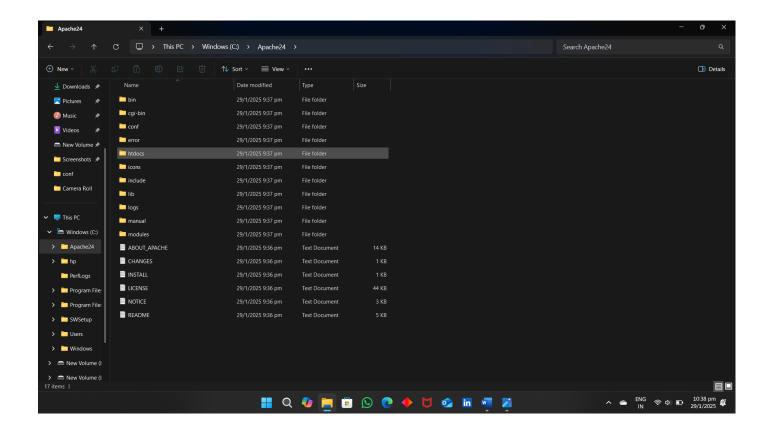
Step 7:

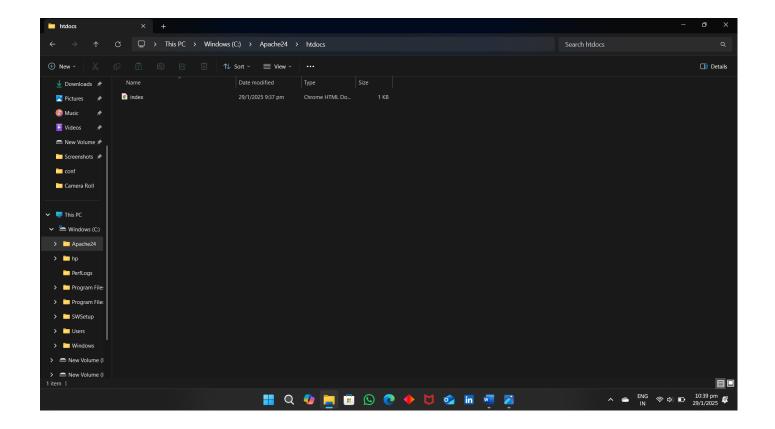
Run the command **httpd.exe** -k start to start the Apache server.

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

Step8:

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 9:

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

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index.html
                                                                                                   index.htmldocker.txt lambda_function.zip dasan.zip
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File Edit View
 <html lang="en">
 <head>
                                      <meta charset="UTF-8">
                                       <meta name="viewport" content="width=device-width, initial-scale=</pre>
                                      <title>Black Heart Emoji</title>
  </head>
  <body>
                                       You contain the containing of the containing
  </body>
  </html>
```

Step 10:

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.