

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.

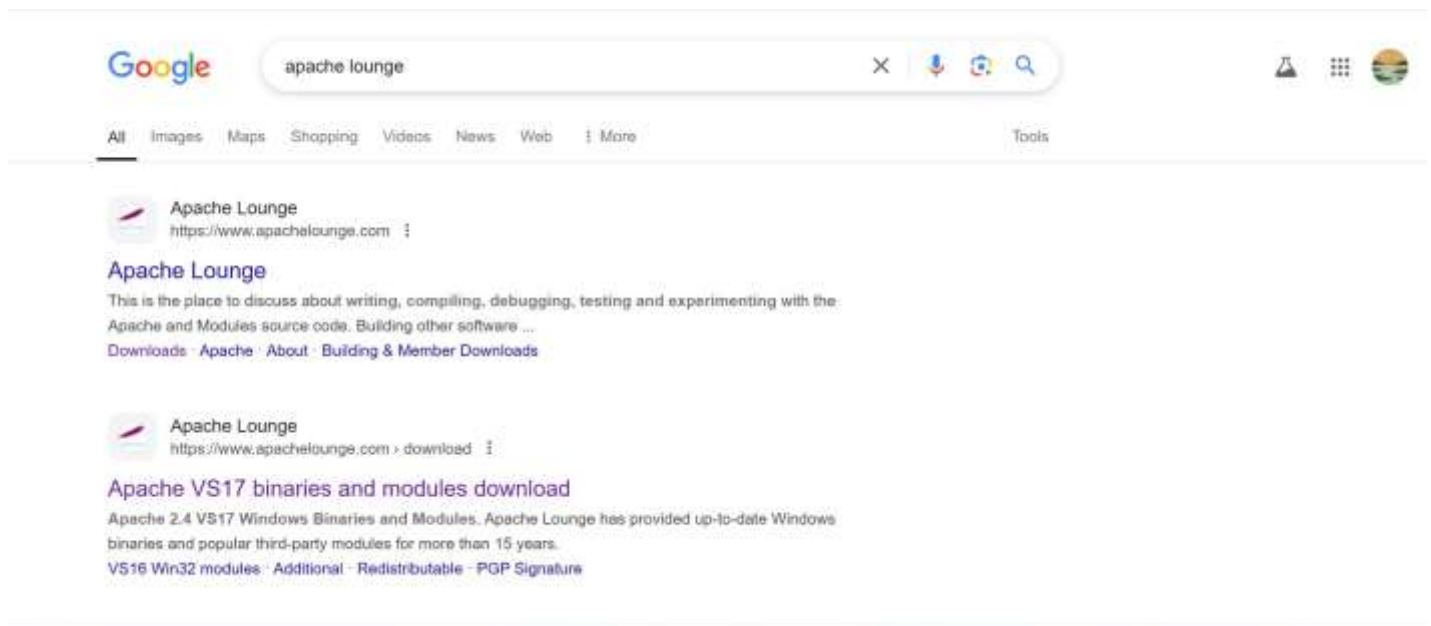
Testing Ground: Safely test and debug websites before deploying them to a live server.

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

Step-by-Step Overview

Step1:

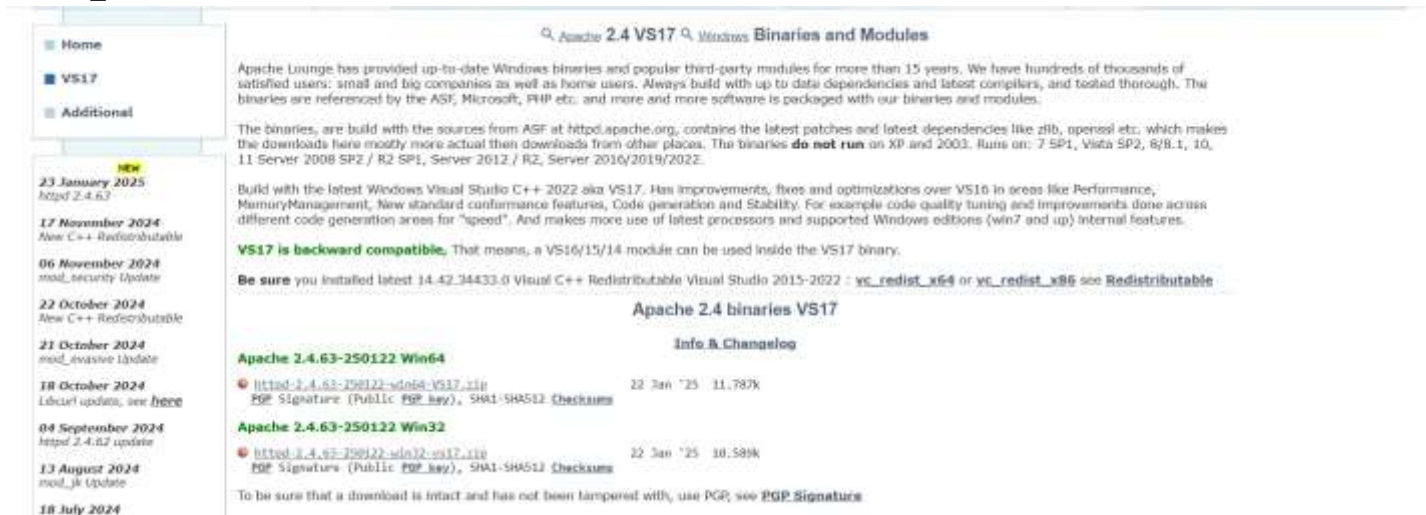
Search for "Apache Lounge" on Google and click the first link to access the official website.



Step 2 :



Step 3 :



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 companies as well as 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 software is packaged with our binaries and modules.

The binaries, are build with the sources from ASF at <http://httpd.apache.org>, contains the latest patches and latest dependencies like zlib, openssl etc. which makes the downloads here mostly more actual then 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 2016/2019/2022.

Build with the latest Windows Visual Studio C++ 2022 aka VS17. Has improvements, fixes and optimizations over VS16 in areas like Performance, MemoryManagement, New standard conformance 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 processors and 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

File Name	Size	Date
httpd-2.4.63-250122-win64-VS17.zip	11.787K	22 Jan '25
PGP Signature (Public PGP key), SHA1-SHA512 Checksums		
httpd-2.4.63-250122-win32-VS17.zip	10.589K	22 Jan '25
PGP Signature (Public PGP key), SHA1-SHA512 Checksums		

To be sure that a download is intact and has not been tampered with, use PGP, see [PGP Signature](#)

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:\Windows\System32>C:\Users\HP\Downloads\httpd-2.4.63-250122-win64-VS17 (1)\Apache24\bin
```

Step 5 :

Then Run the installation command :

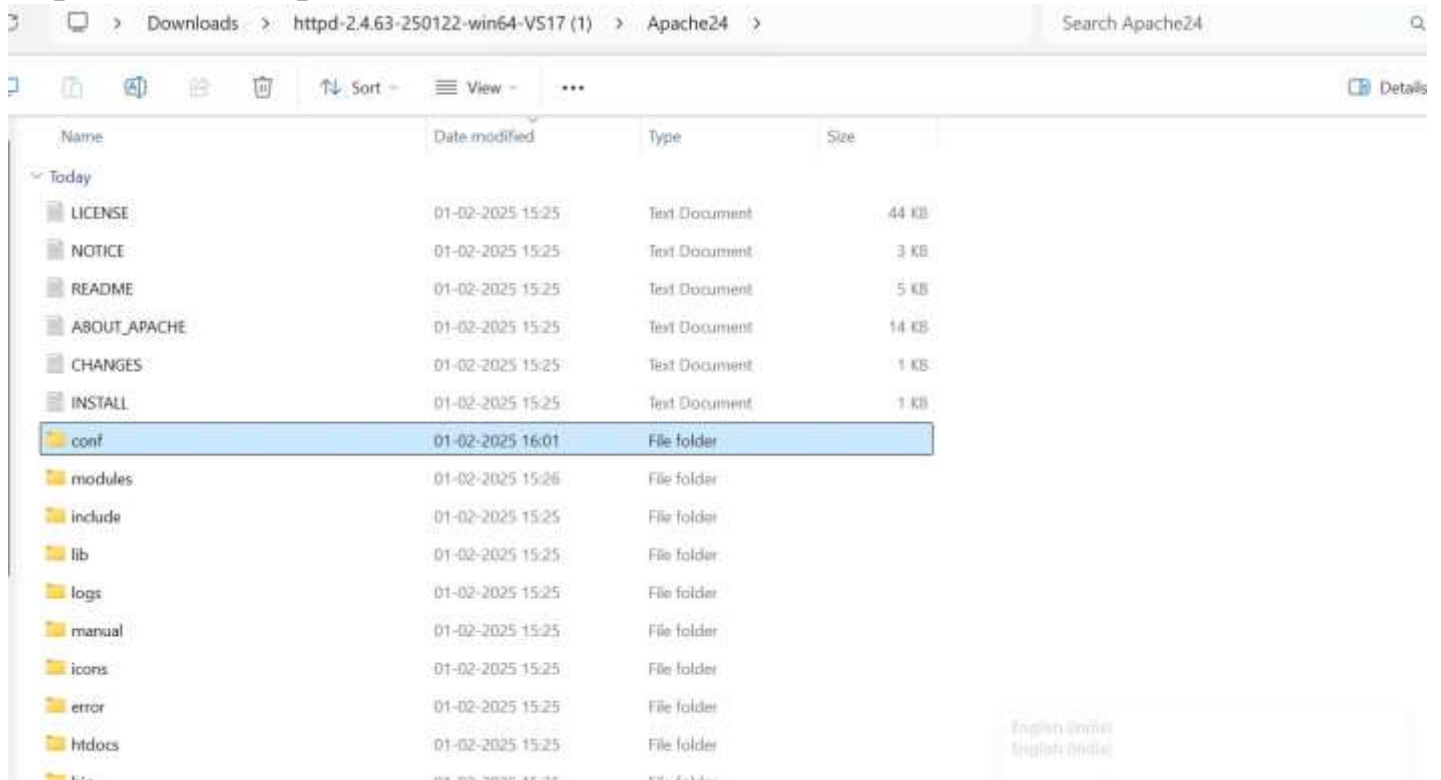
httpd.exe -k install

```
C:\Users\HP\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>httpd.exe -k install
Installing the 'Apache2.4' service
```

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**'.

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

Name	Date modified	Type	Size
Yesterday			
index	1/21/2025 4:04 PM	Chrome HTML Docu...	4 KB

Step 11 :

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

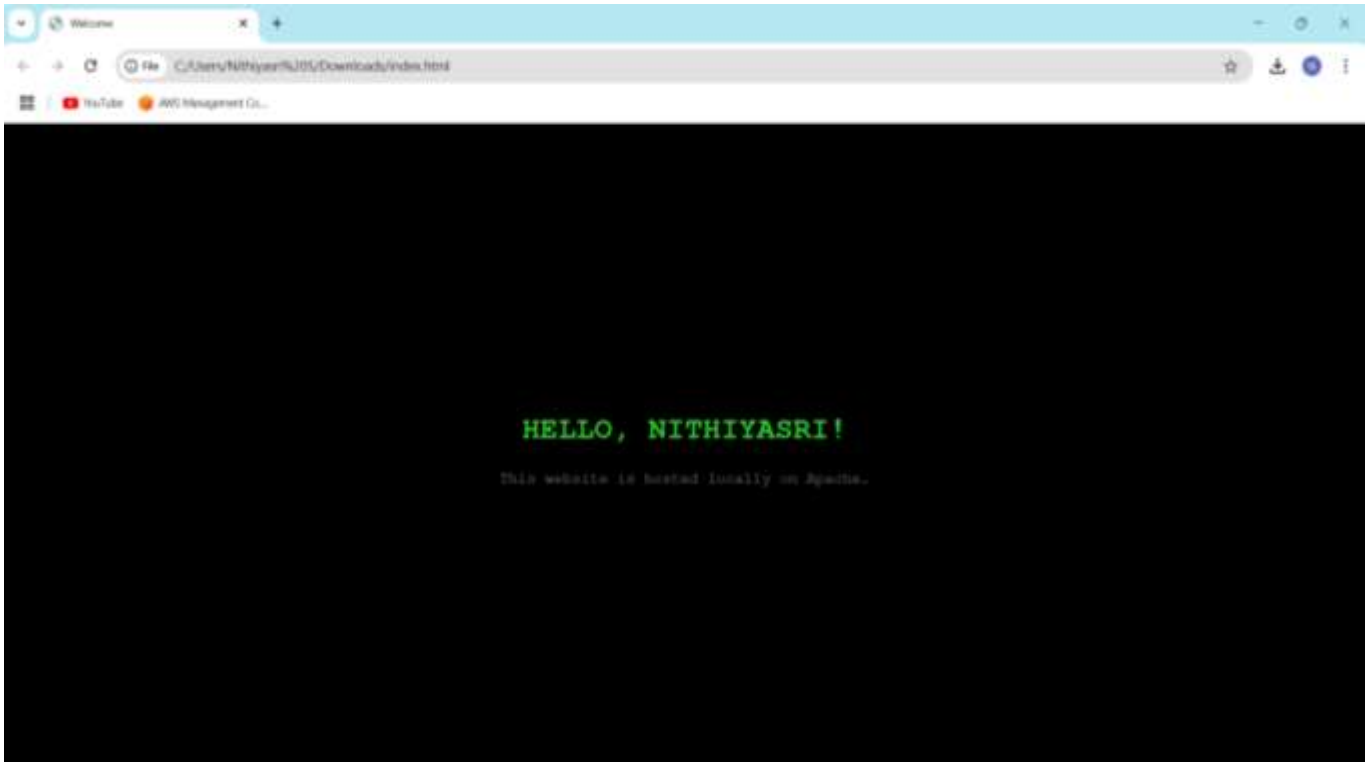
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My First Website - Hacker Style</title>
  <style>
    /* Global Styles */
    body {
      margin: 0;
      padding: 0;
      font-family: 'Courier New', 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.