

## **Placement Empowerment Program**

### ***Cloud Computing and DevOps Centre***

**TASK-1** Host a Static Website Locally: Set Up a Local Server Apache and Host a Simple HTML page with your name

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Department : CSE

# Introduction and Overview

In this Proof of Concept (POC), we will explore hosting a static website locally using the Apache HTTP Server. This involves setting up a local web server and ensuring it is configured correctly. We will host a simple HTML page to demonstrate the process. By following these steps, you will gain hands-on experience in configuring and running a local Apache server. This foundational skill is essential 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

It provides several benefits, including:

**Practical Experience:** Learn server setup and configuration through hands-on practice.

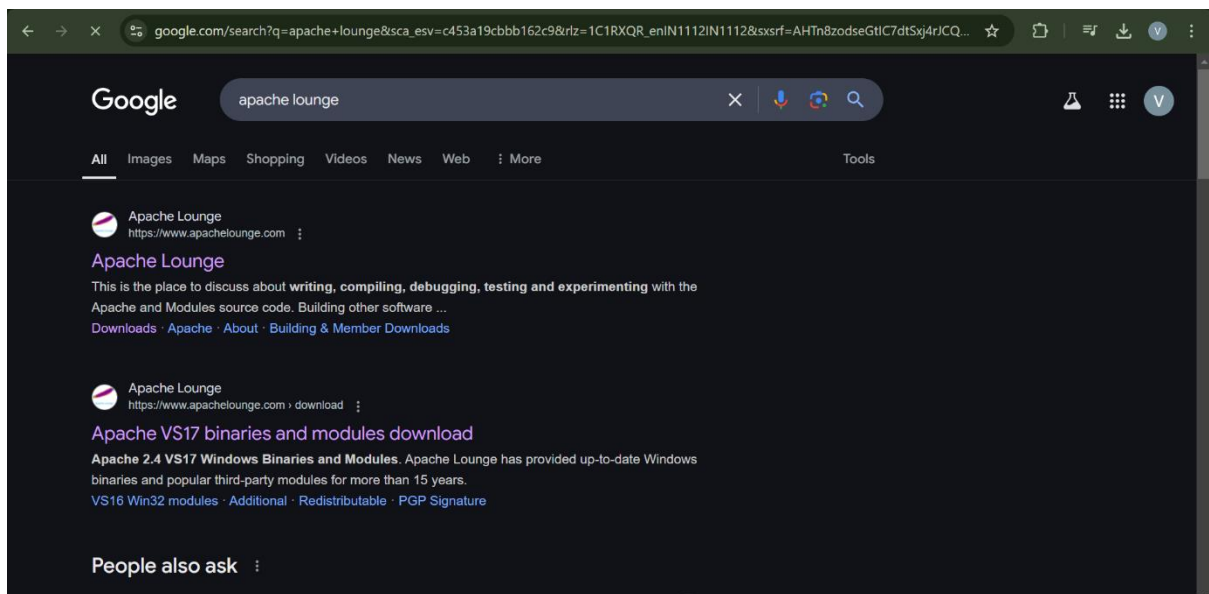
**Safe Testing:** Debug and optimize websites before deploying them to a live server.

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

# Step-by-Step Overview:

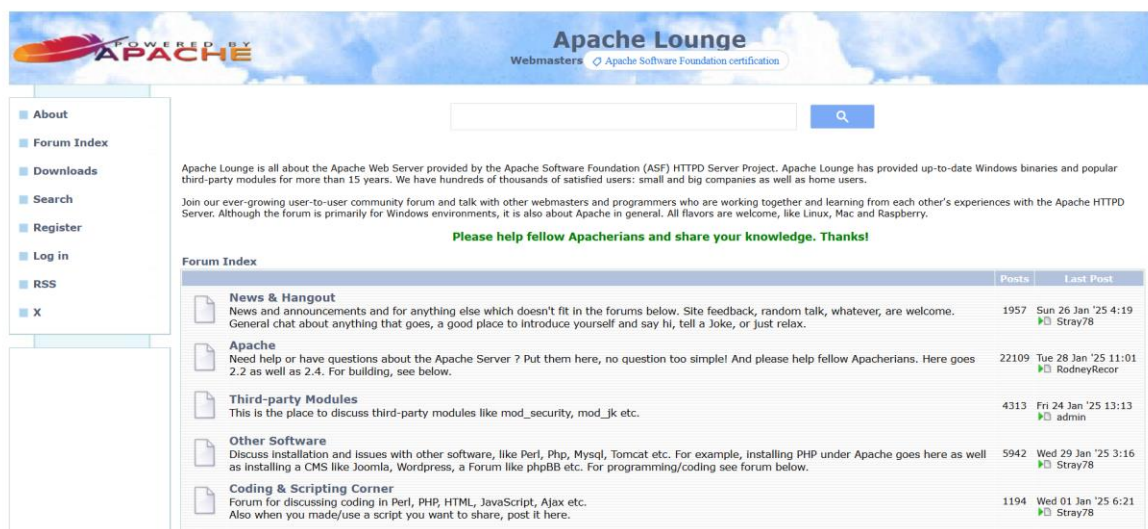
## Step 1:

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



## Step 2:

Click on the "Downloads" option 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.

VS17  
Additional

**23 January 2025**  
httpd 2.4.63  
**17 November 2024**  
New C++ Redistributable  
**06 November 2024**  
mod\_security Update  
**22 October 2024**  
New C++ Redistributable  
**21 October 2024**  
mod\_evasive Update  
**18 October 2024**  
Libcurl update, see [here](#)  
**04 September 2024**  
httpd 2.4.62 update  
**13 August 2024**  
mod\_jk Update  
**18 July 2024**  
httpd 2.4.62

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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 [httpd.apache.org](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**

**Apache 2.4.63-250122 Win64**

[httpd-2.4.63-250122-win64-VS17.zip](#) 22 Jan '25 11.787k  
PGP Signature (Public PGP\_key), SHA1-SHA512 Checksums

**Apache 2.4.63-250122 Win32**

[httpd-2.4.63-250122-win32-vs17.zip](#) 22 Jan '25 10.589k  
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](#)

**Pelikan Limited Edition and Special Edition Fountain Pen. Pelikan Apatite Ink of the Year**

**Apache 2.4 modules VS17**

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

<https://www.apachelounge.com/download/VS17/binaries/httpd-2.4.63-250122-win64-VS17.zip> **VS16 ones at VS16 Win32 modules**

## 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:\> Administrator: Command Prompt
Microsoft Windows [Version 10.0.22631.4751]
(c) Microsoft Corporation. All rights reserved.

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

## Step 5:

Then Run the installation command :

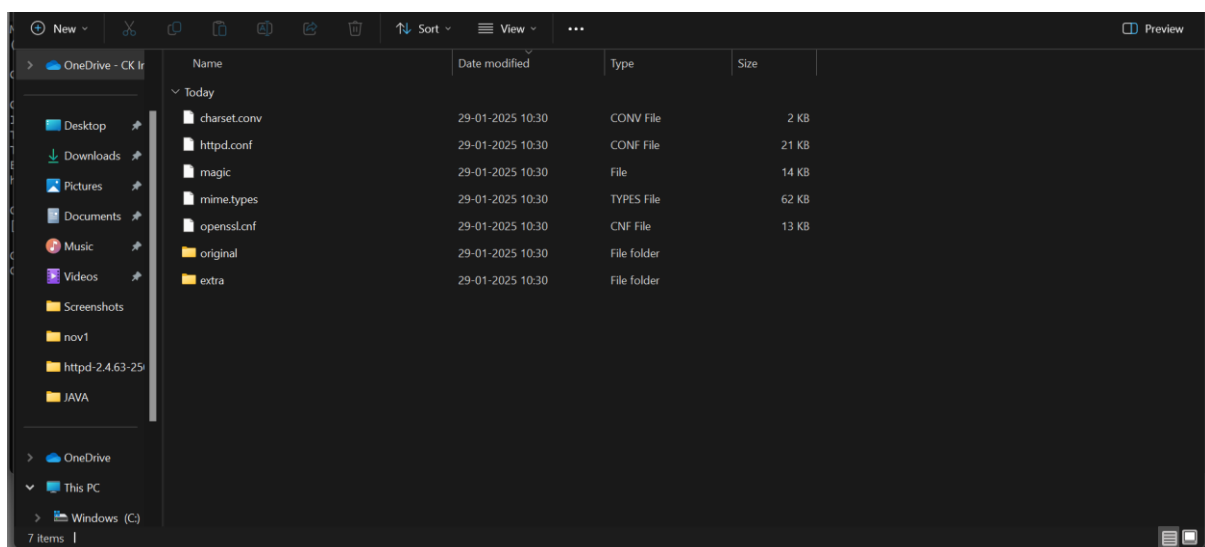
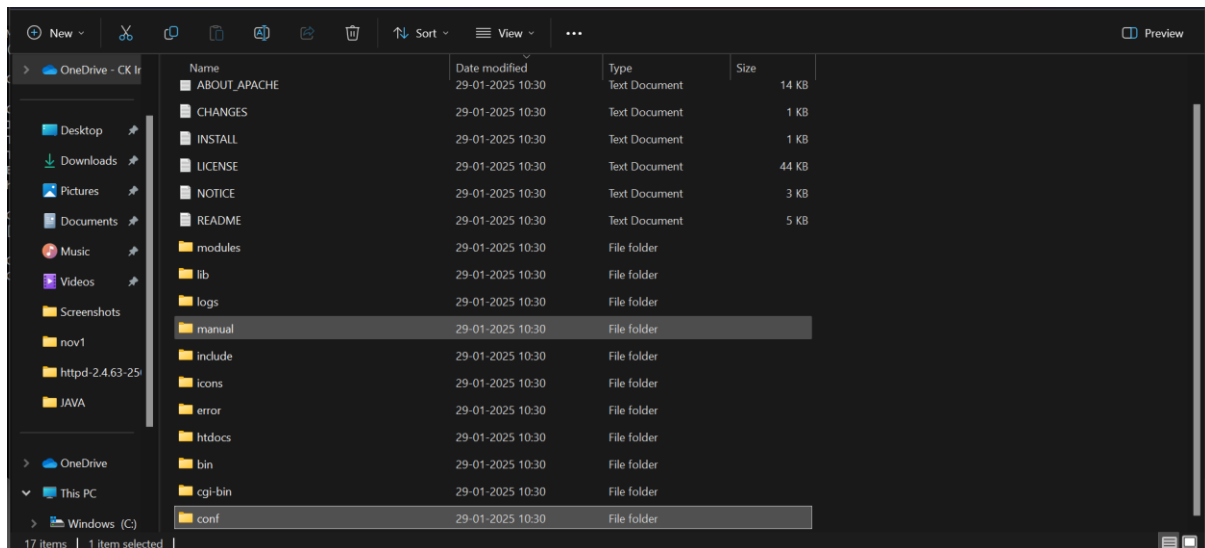
**httpd.exe -k install**

```
C:\Users\Staff\Downloads\httpd-2.4.63-250122-win64-VS17 (1)\Apache24\bin>httpd.exe -k install
[Wed Jan 29 10:33:33.470058 2025] [mpm_winnt:error] [pid 10952:tid 436] AH00433: Apache2.4: Service is already 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)



## 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.

```
#  
Define SRVROOT "c:/Apache24"  
  
ServerRoot "c:/Apache24"
```

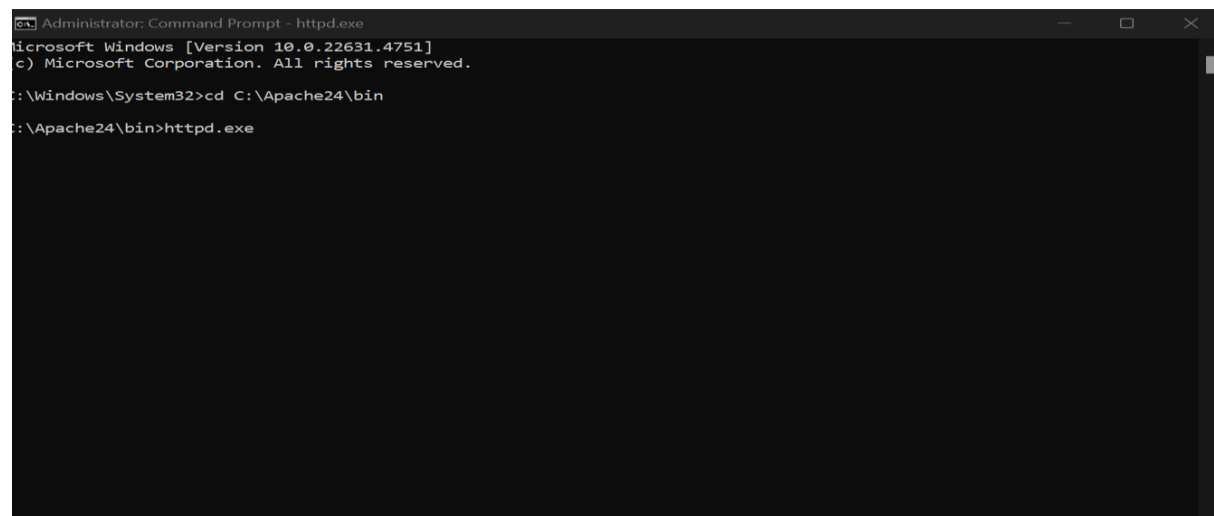
## Step 8:

Use “ctrl+f” to search and there look for 80 there will be given like this in the image as shown.

```
#  
ServerName localhost:80
```

## Step 9:

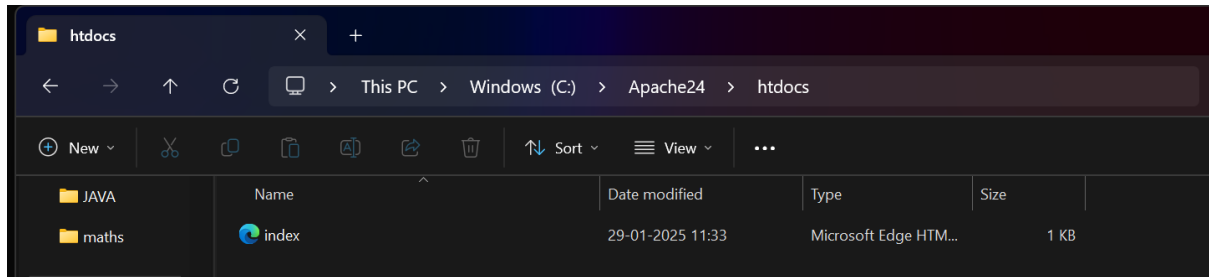
Then to move to the file use cd <file path> and install httpd.exe



```
Administrator: Command Prompt - httpd.exe  
Microsoft Windows [Version 10.0.22631.4751]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Windows\System32>cd C:\Apache24\bin  
C:\Apache24\bin>httpd.exe
```

## Step 10:

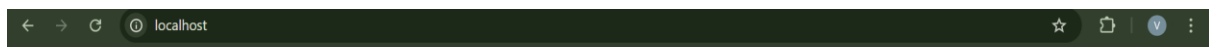
Copy your website files(HTML,CSS,JAVASCRIPT etc) to the c:\Apache24\htdocs directory.



Name	Date modified	Type	Size
index	29-01-2025 11:33	Microsoft Edge HTM...	1 KB

## Step 11:

Open a web browser and go to <http://localhost>. Now your website will be hosted and displayed.



### Welcome to My Website

This is a simple static webpage using HTML.

#### About Me

I am learning web development and this is my first webpage.

#### Contact

Email: example@example.com