

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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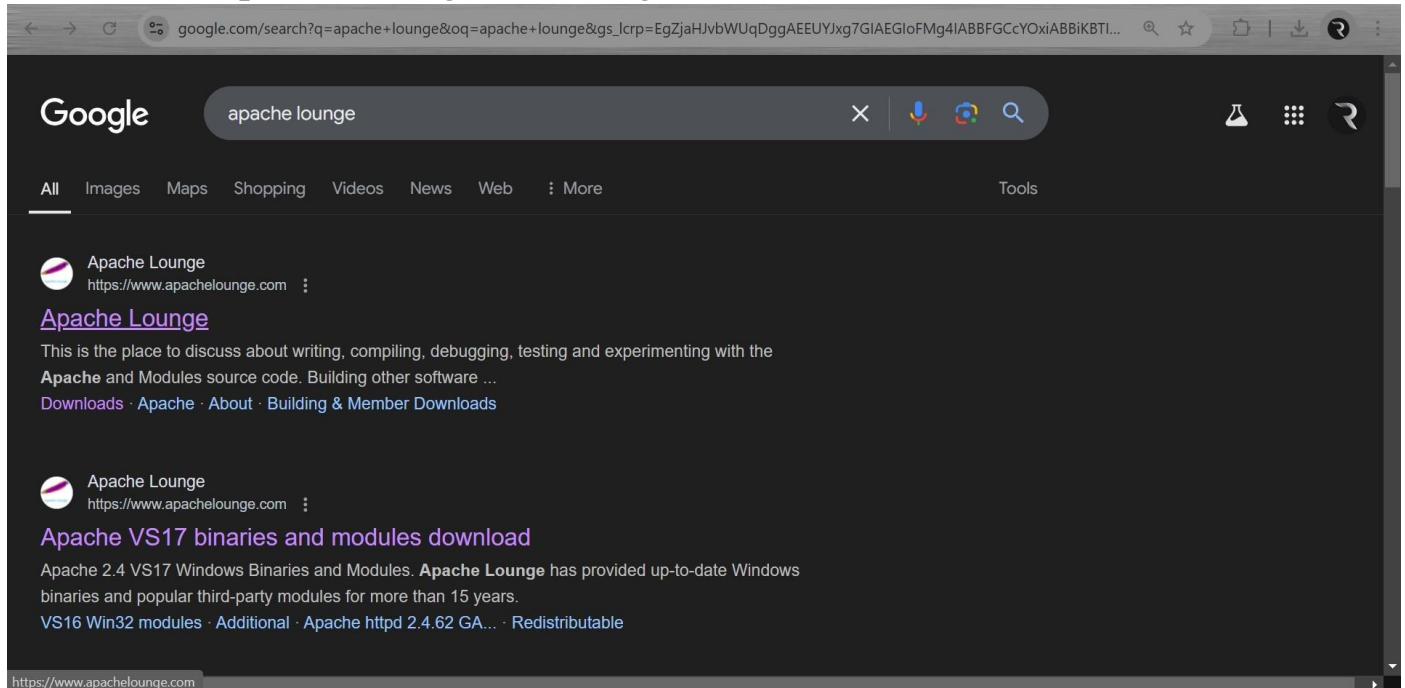
Department:IT

Introduction

In this proof of concept (POC), we will explore the process of hosting a static website on a local machine using the Apache HTTP Server. This involves installing and configuring a local web server to host a simple HTML page. By completing these steps, you will gain practical experience in setting up and managing a local Apache server, a fundamental skill for web hosting and server administration.

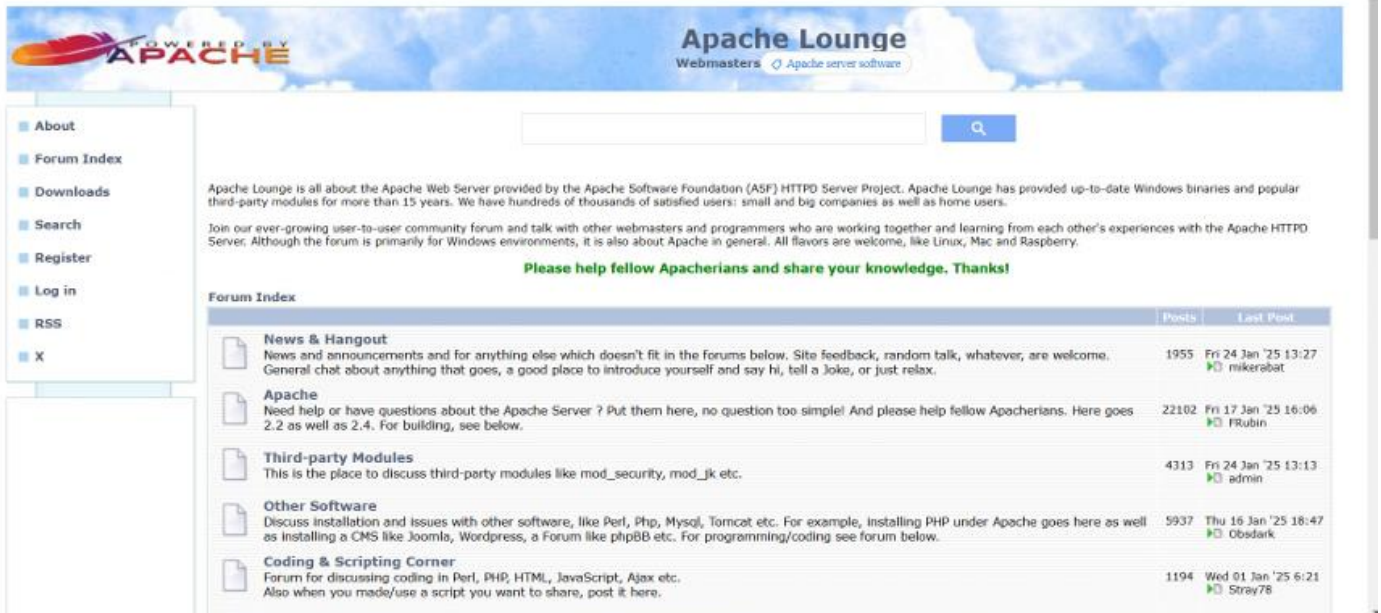
Step-by-Step Overview Step1:

Search for "Apache Lounge" on Google and click the first link.



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 2.4.63-250122 Win64" (Windows version), download the file, and extract all its contents.



Step 4 :

Open Command Prompt as Administrator. Type windows + R, then type cmd, right-click and use the command `cd C:\<path>\to\apache\bin` to set the path to the Apache bin folder.

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

Step 5 :

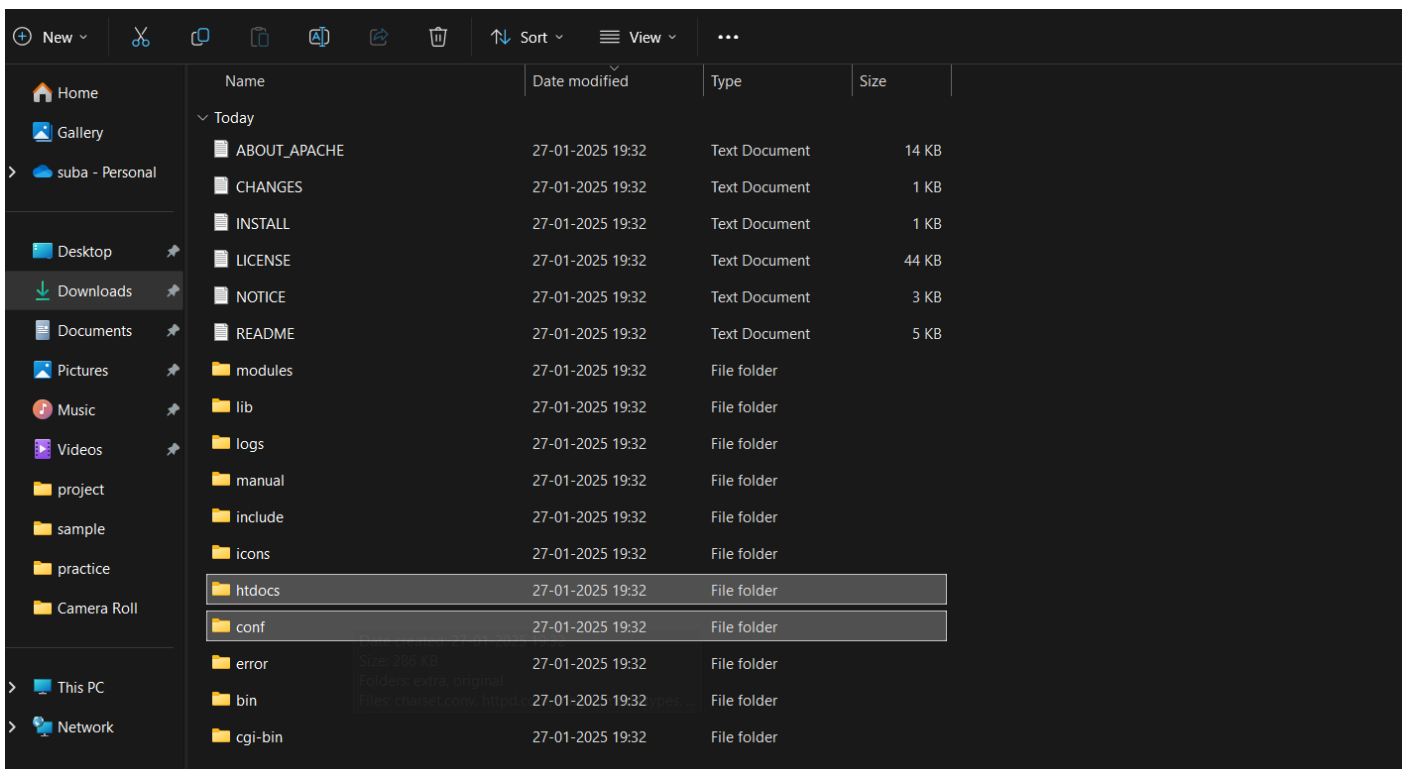
Run the installation command : httpd.exe

-k install

```
C:\Users\subam\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>httpd.exe -k install
Installing the 'Apache2.4' service
(OS 5)Access is denied. : AH00369: Failed to open the Windows service manager, perhaps you forgot to log in as Administrator?
```

Step 6 :

Go to the Apache folder you downloaded, then go to the conf folder, and rightclick on the httpd.conf file; select 'Edit with Notepad'



Step 7 :

Replace the content of the httpd.conf file with the provided configuration, ensuring the SRVROOT directive matches your Apache installation path. This setup configures the server's root directory, listening port, document root, logging paths, and permissions to serve content properly from the htdocs directory.

```
# ServerRoot: The top of the directory tree under which the server's
# configuration, error, and log files are kept.
#
# Do not add a slash at the end of the directory path. If you point
# ServerRoot at a non-local disk, be sure to specify a local disk on the
# Mutex directive, if file-based mutexes are used. If you wish to share the
# same ServerRoot for multiple httpd daemons, you will need to change at
# least PidFile.
#
Define SRVROOT " C:\Users\subam\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24"

ServerRoot "${SRVROOT}"

#
# Mutex: Allows you to set the mutex mechanism and mutex file directory
# for individual mutexes, or change the global defaults
#
# Uncomment and change the directory if mutexes are file-based and the default
# mutex file directory is not on a local disk or is not appropriate for some
# other reason.
#
# Mutex default:logs

#
# Listen: Allows you to bind Apache to specific IP addresses and/or
# ports, instead of the default. See also the <VirtualHost>
# directive.
#
# Change this to Listen on specific IP addresses as shown below to
# prevent Apache from glomming onto all bound IP addresses.
#
#Listen 12.34.56.78:80
Listen 80
```

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\subam\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>httpd.exe -t
```

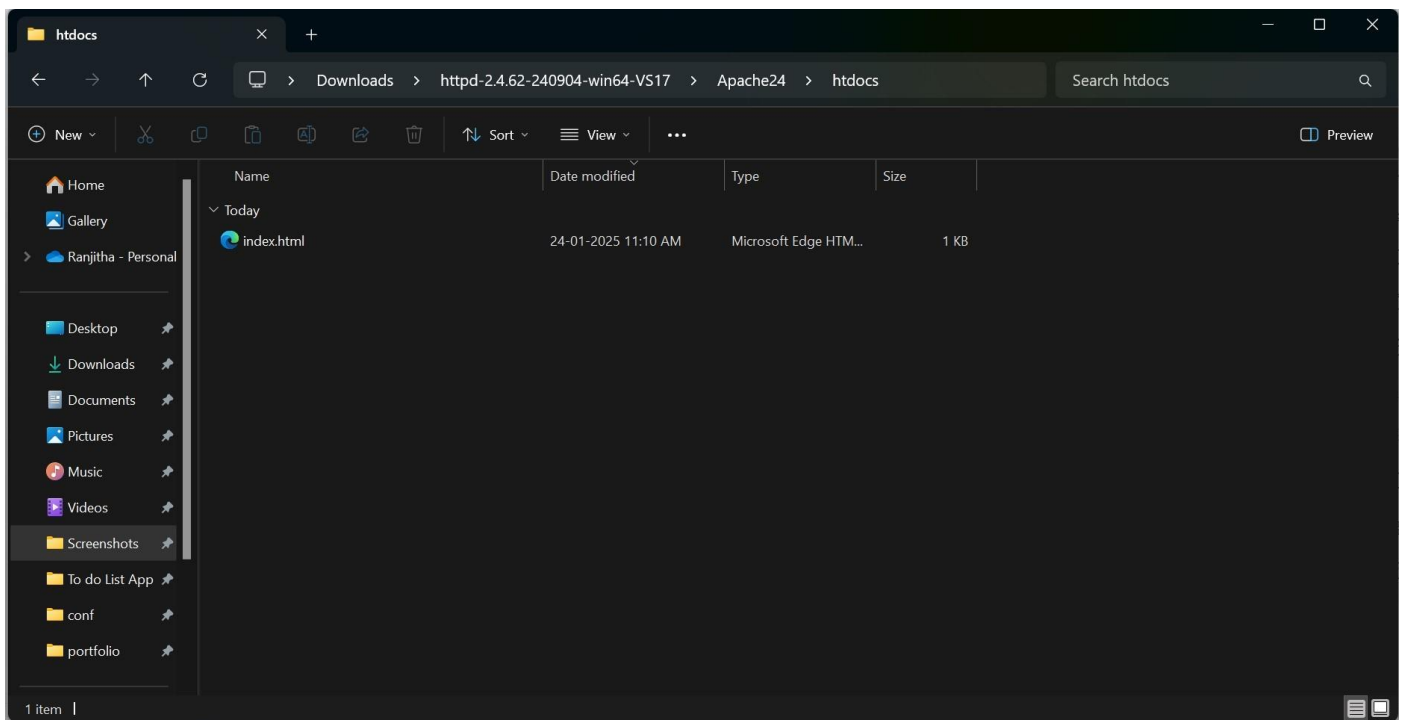
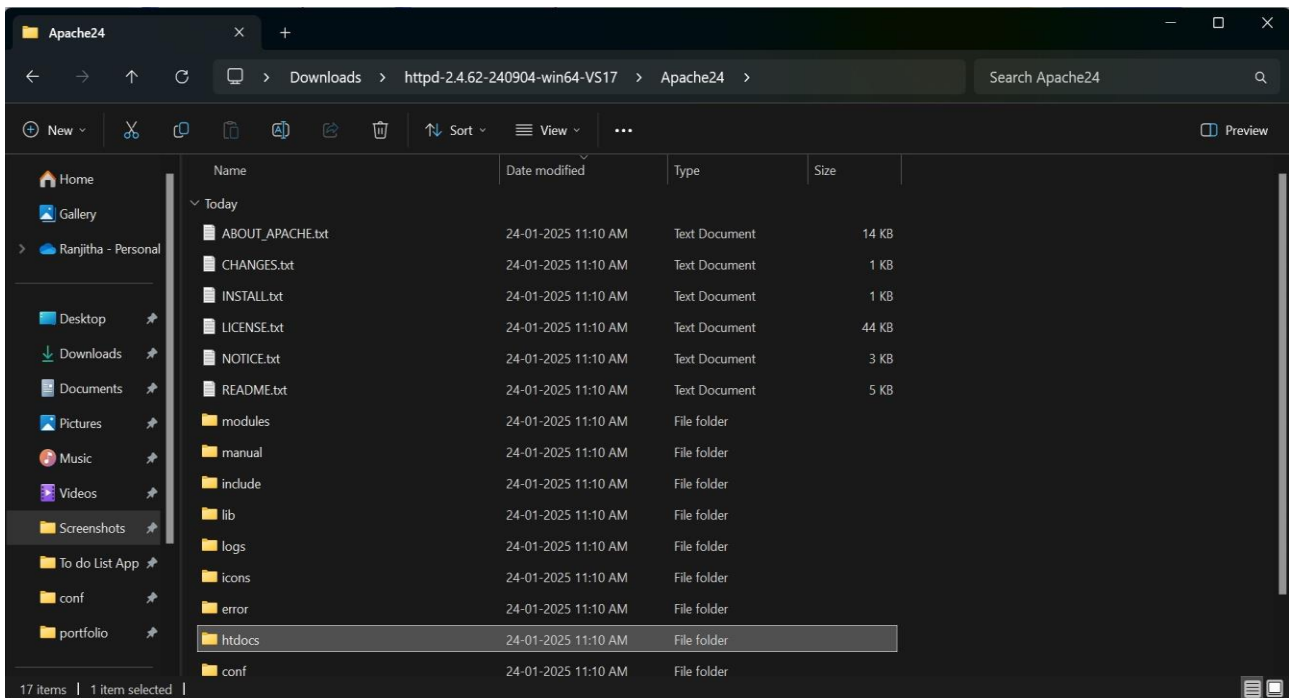
Step 9 :

Run the command `httpd.exe -k`.

```
C:\Users\subam\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'.



Step 11 :

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

```

1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Hello Subashini</title>
7      <style>
8          body {
9              margin: 0;
10             display: flex;
11             justify-content: center;
12             align-items: center;
13             height: 100vh;
14             background: white;
15             font-family: 'Arial', sans-serif;
16             color: black;
17         }
18         .text-container {
19             text-align: center;
20         }
21         h1 {
22             font-size: 3rem;
23         }
24     </style>
25 </head>
26 <body>
27     <div class="text-container">
28         <h1>HELLO, THIS IS SUBASHINI P</h1>
29     </div>
30 </body>
31 </html>
32

```

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.



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.