

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

Name: SAI RAM S

Department : IT

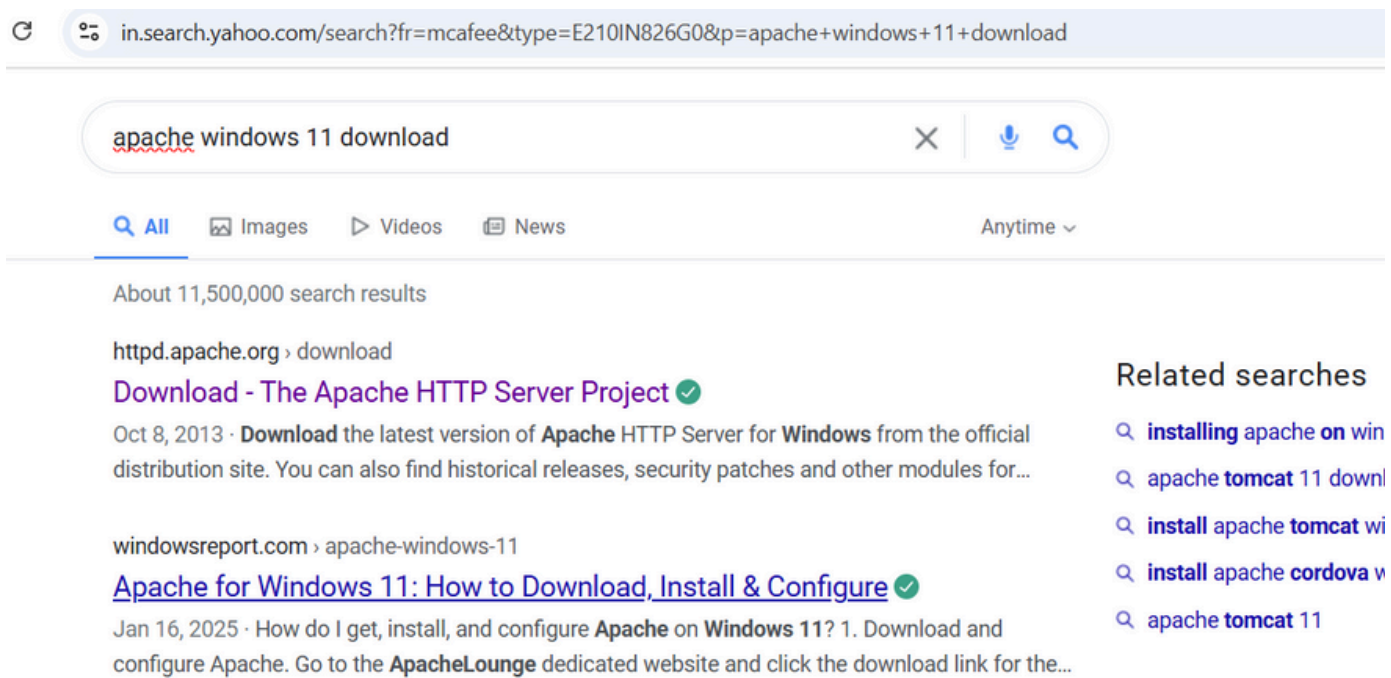
Introduction

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.



Apache Lounge

Webmasters

Apache 2.4 VS17 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 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](#)

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

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Apache 2.4 modules VS17

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

Note: VS17 Win32 modules (like mod_fcgid) use VS16 ones at VS16 Win32 modules

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Step 3 :

Click on the link "Apache 2.4.62-240904 Win64" (Windows version), download the file, and extract all its contents.



Apache Lounge

Webmasters Apache server software

Apache 2.4 VS17 Windows Binaries and Modules

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Apache 2.4.62-240904 Win64

[httpd-2.4.62-240904-win64-VS17.zip](#) 04 Sep '24 11.432k

[PGP Signature \(Public PGP key\)](#), [SHA1-SHA512 Checksums](#)

Apache 2.4.62-240904 Win32

[httpd-2.4.62-240904-win32-VS17.zip](#) 04 Sep '24 10.285k

[PGP Signature \(Public PGP key\)](#), [SHA1-SHA512 Checksums](#)

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Home

VS17

Additional

NEW

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

03 July 2024

httpd 2.4.61

01 July 2024

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.

```
Microsoft Windows [Version 10.0.22631.4751]  
(c) Microsoft Corporation. All rights reserved  
  
C:\Users\sairam>cd C:\Apache24\bin
```

Step 5 :

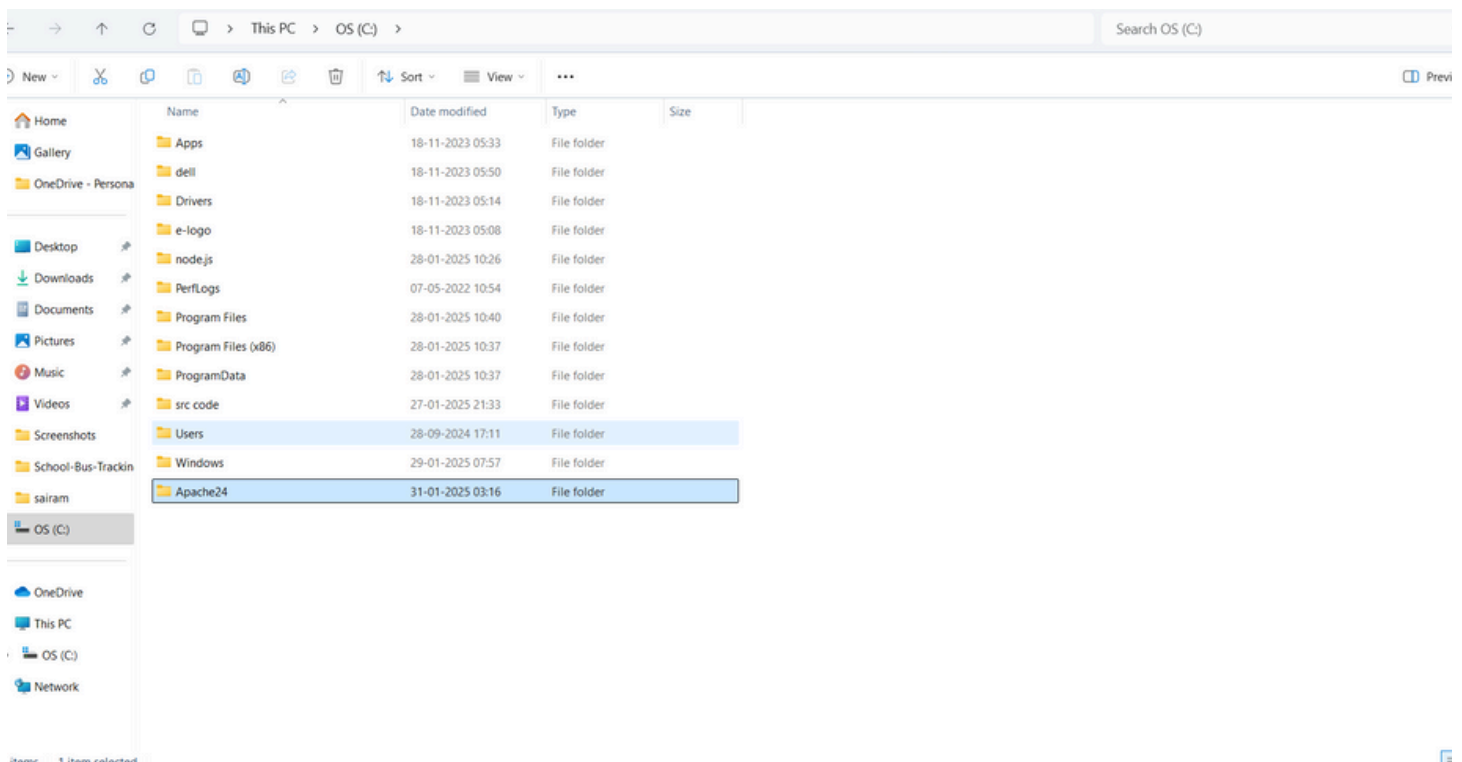
Run the installation command :

`httpd.exe -k install`

```
C:\Apache24\bin>httpd.exe  
AH00558: httpd.exe: Could not reliably determine the server's f  
lobally to suppress this message  
|
```

Step 6 :

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



Home	ab	31-01-2025 03:15	Application	98 KB
Gallery	abs	31-01-2025 03:15	Application	109 KB
> OneDrive - Persona	ApacheMonitor	31-01-2025 03:15	Application	42 KB
Desktop	apr_crypto_openssl-1.dll	31-01-2025 03:16	Application extens...	19 KB
Downloads	apr_dbd_odbc-1.dll	31-01-2025 03:16	Application extens...	31 KB
Documents	apr_idap-1.dll	31-01-2025 03:16	Application extens...	15 KB
Pictures	brotlicommon.dll	31-01-2025 03:16	Application extens...	134 KB
Music	brotlienc.dll	31-01-2025 03:16	Application extens...	3,266 KB
Videos	dbmmmanage	31-01-2025 03:16	Perl Source File	9 KB
Screenshots	htcacheclean	31-01-2025 03:16	Application	101 KB
School-Bus-Trackin	htdbm	31-01-2025 03:16	Application	123 KB
sairam	htdigest	31-01-2025 03:16	Application	85 KB
OS (C:)	htpasswd	31-01-2025 03:16	Application	119 KB
OneDrive	httpd	31-01-2025 03:16	Application	31 KB
This PC	httxt2dbm	31-01-2025 03:16	Application	66 KB
> OS (C:)	jansson.dll	31-01-2025 03:16	Application extens...	54 KB
Network	libapr-1.dll	31-01-2025 03:16	Application extens...	213 KB
	libapriconv-1.dll	31-01-2025 03:16	Application extens...	36 KB
	libaprutil-1.dll	31-01-2025 03:16	Application extens...	294 KB
	libcrypto-3-x64.dll	31-01-2025 03:16	Application extens...	6,447 KB
	libcurl.dll	31-01-2025 03:16	Application extens...	620 KB

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.

```
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
```



```
<IfModule mime_module>
#
# TypesConfig points to the file containing the list of mappings from
# filename extension to MIME-type.
#
TypesConfig conf/mime.types

#
# AddType allows you to add to or override the MIME configuration
# file specified in TypesConfig for specific file types.
#
#AddType application/x-gzip .tgz
#
# AddEncoding allows you to have certain browsers uncompress
# information on the fly. Note: Not all browsers support this.
#
#AddEncoding x-compress .Z
#AddEncoding x-gzip .gz .tgz
#
# If the AddEncoding directives above are commented-out, then you
```

Step 8 :

Open Command Prompt and type the command `httpd.exe -t` to test the

```
Microsoft Windows [Version 10.0.22631.4751]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sairam>cd C:\Apache24\bin
```

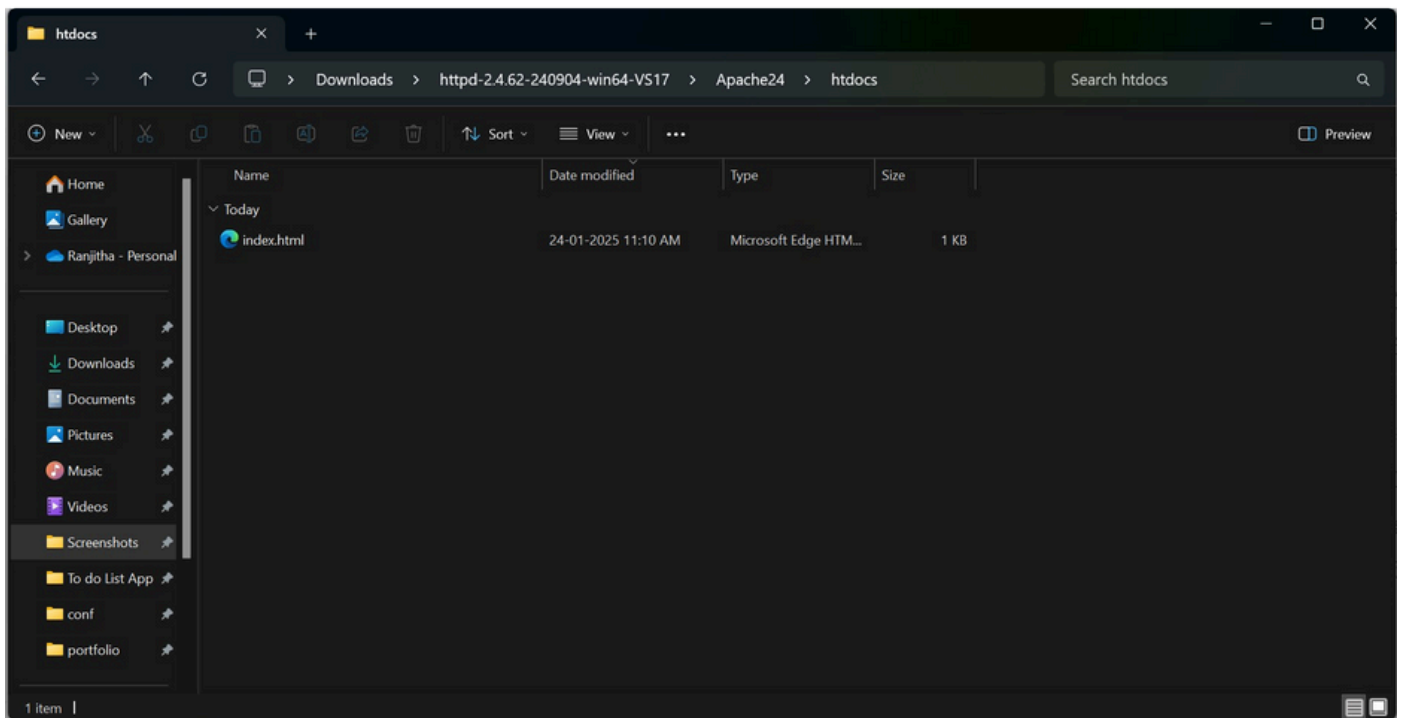
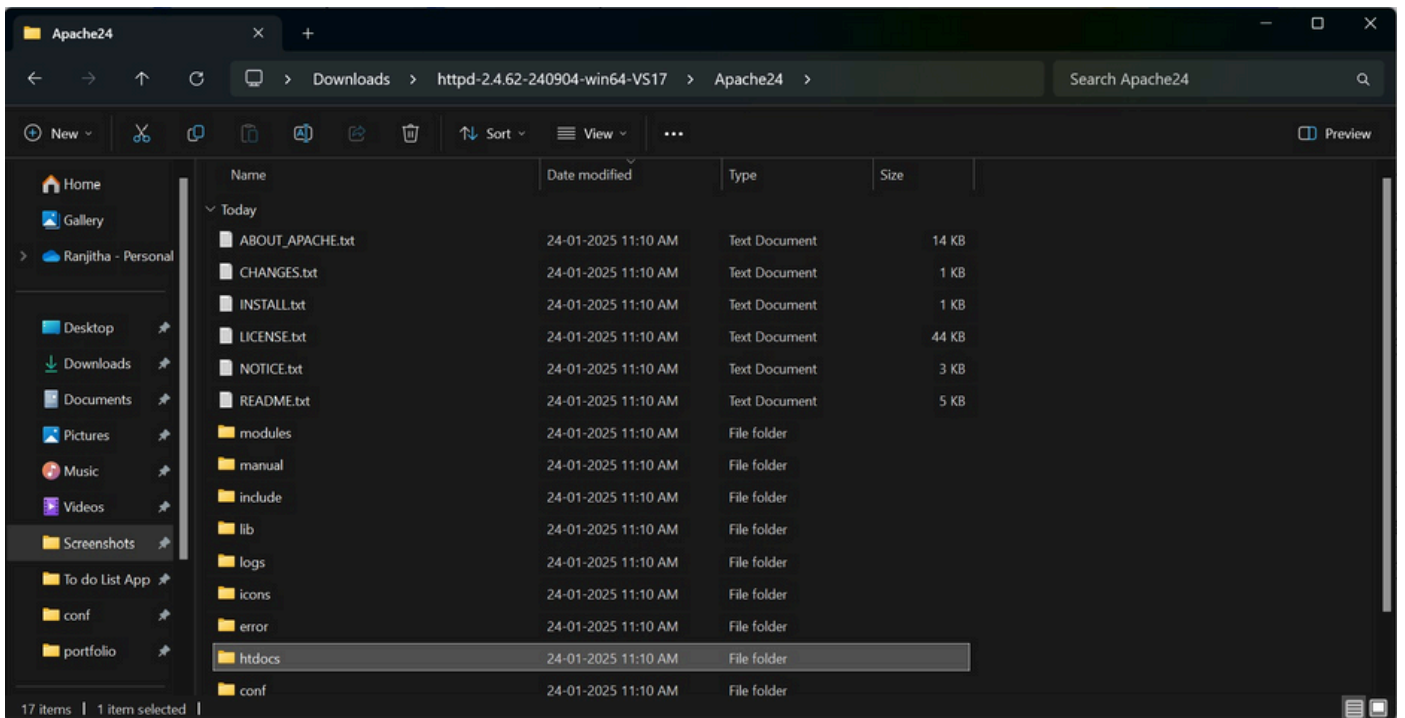
Step 9 :

Run the command `httpd.exe -k`.

```
Apache24\bin>httpd.exe
00558: httpd.exe: Could not reliably determine the server's fully qualified domain name, so I'll just use the IP address. Set the 'ServerName' directive globally to suppress this message
```

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).

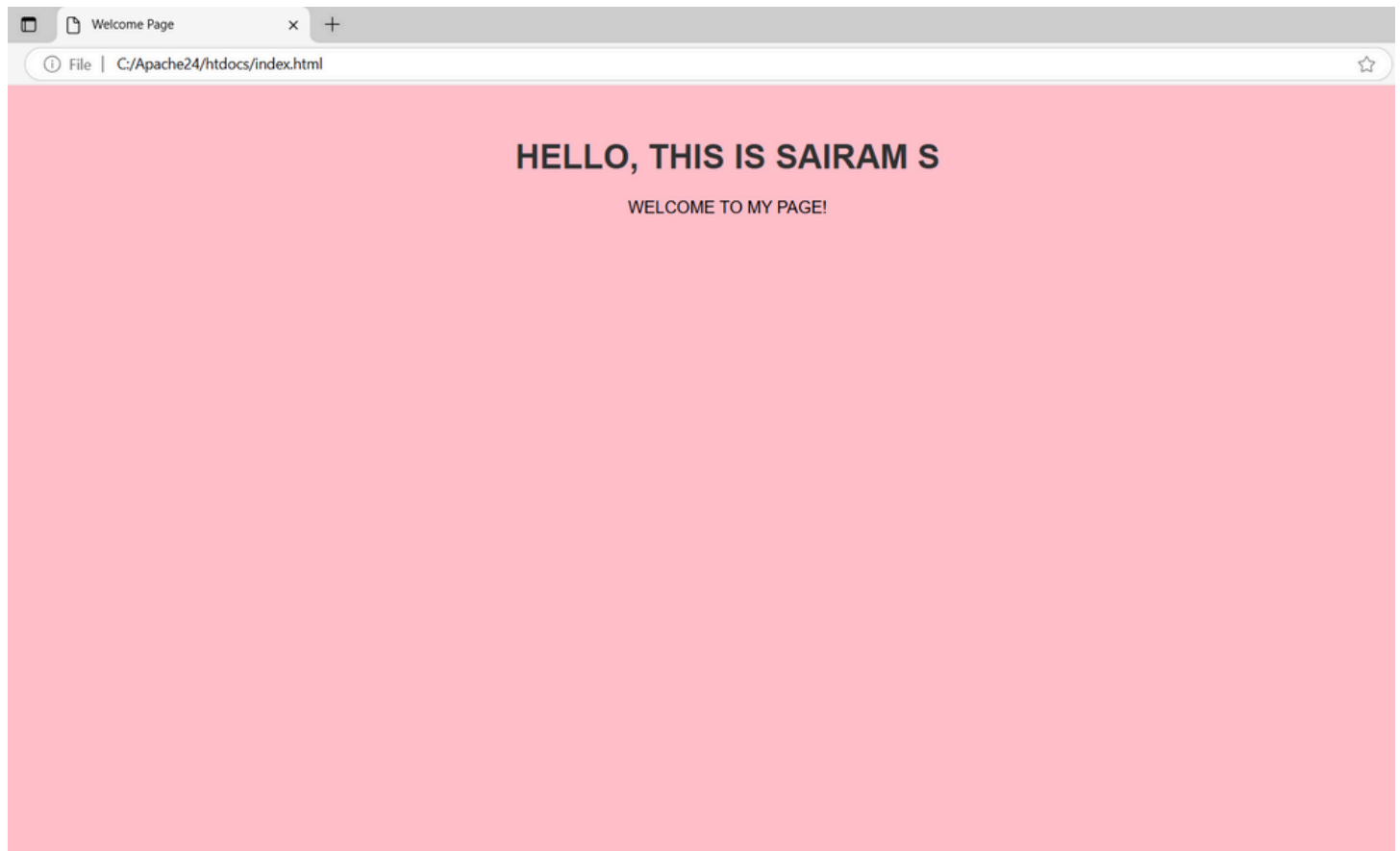
```

C: > Users > sairam > Downloads > <> index.html > ...
1  <html lang="en">
2  <head>
3      <meta charset="UTF-8">
4      <meta name="viewport" content="width=device-width, initial-scale=1.0">
5      <title>Welcome Page</title>
6      <style>
7          body {
8              font-family: Arial, sans-serif;
9              text-align: center;
10             margin: 50px;
11             background-color: #pink;
12         }
13         h1 {
14             color: #333;
15         }
16     </style>
17 </head>
18 <body>
19     <h1>HELLO, THIS IS SAIRAM S</h1>
20     <p>WELCOME TO MY PAGE!</p>
21 </body>
22 </html>
23

```

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.