



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.

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.

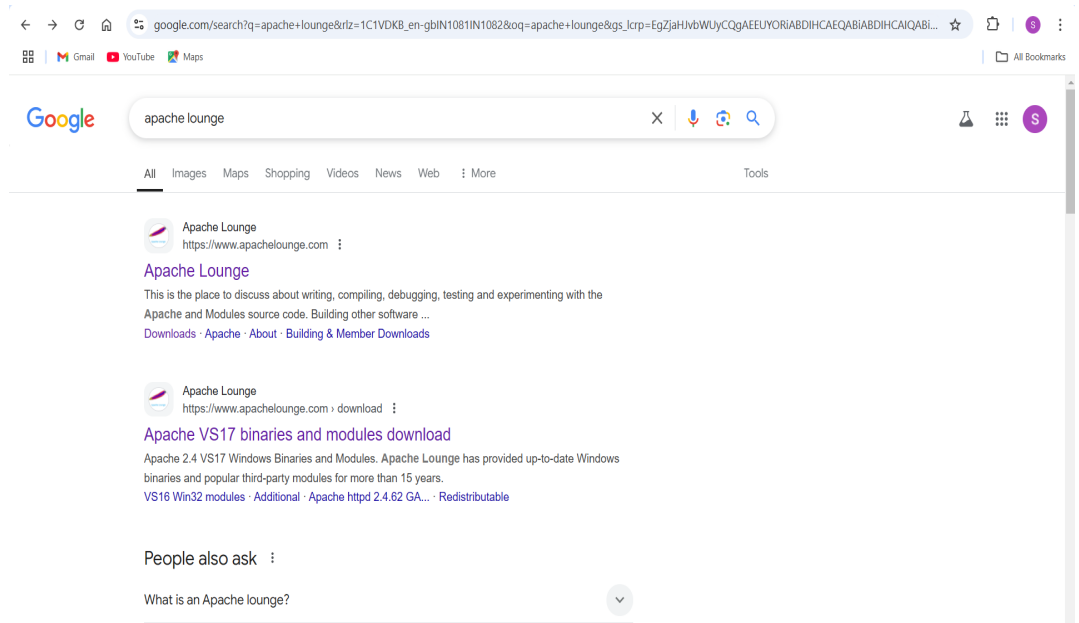
Testing Ground: Safely test and debug websites before deploying them to a live server.

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

Step-by-Step Overview

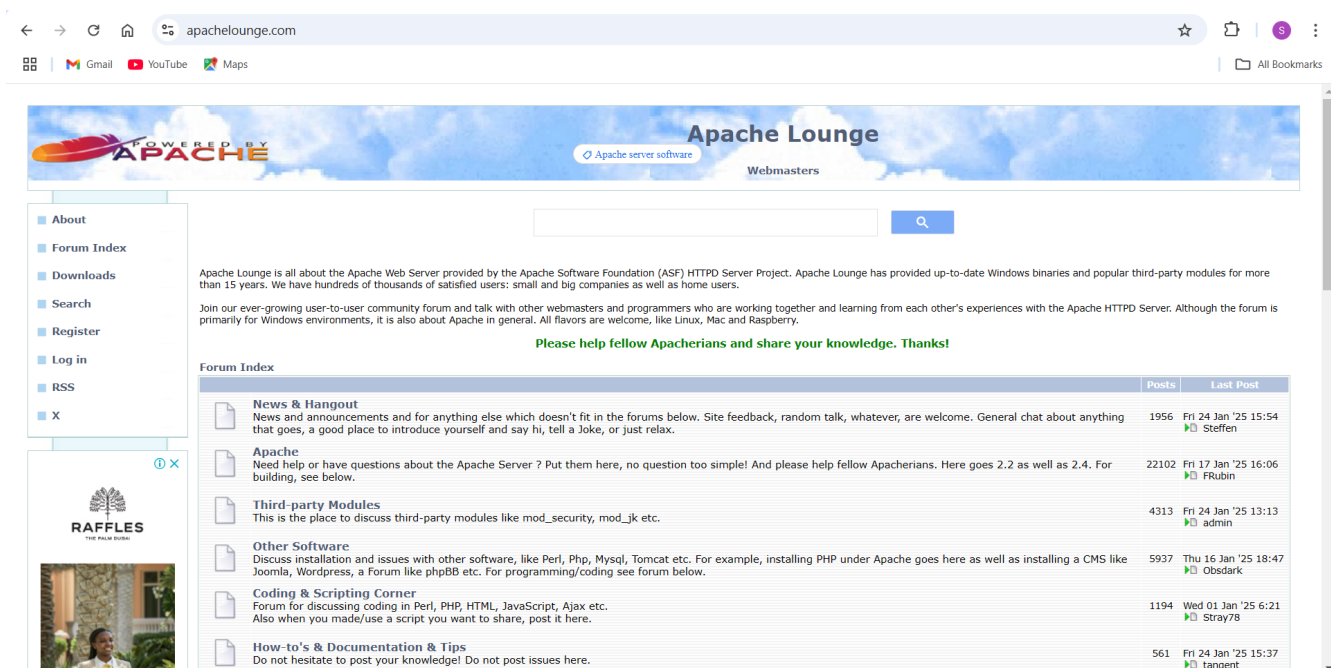
Step 1:

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



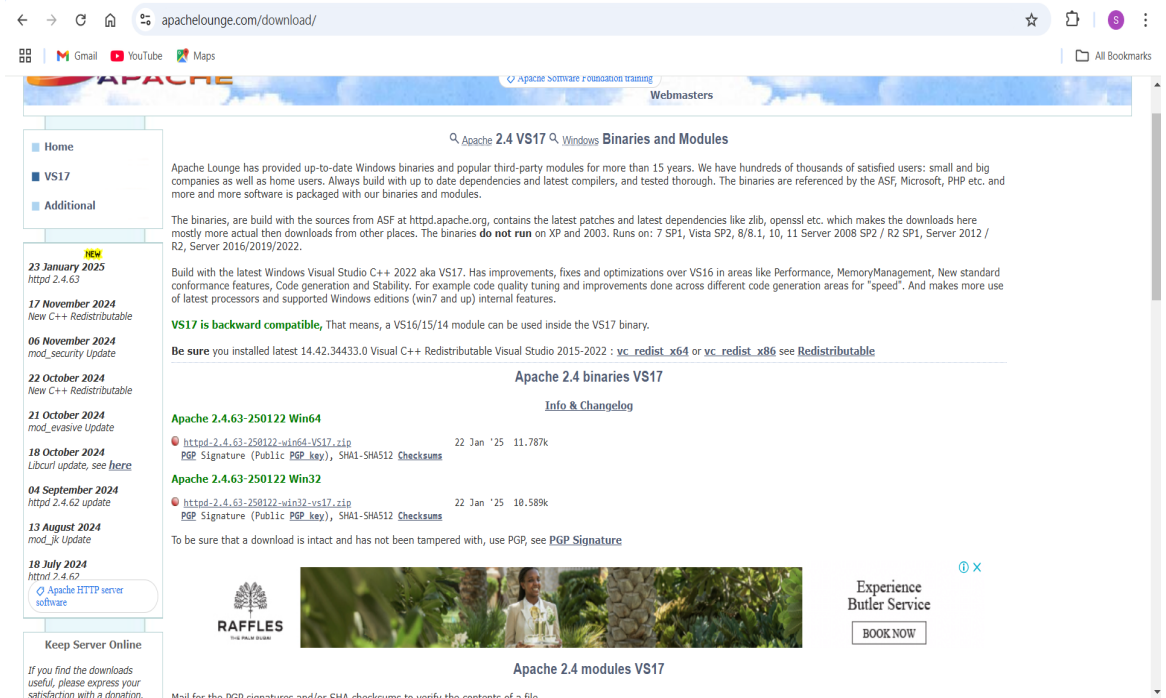
Step 2 :

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.



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

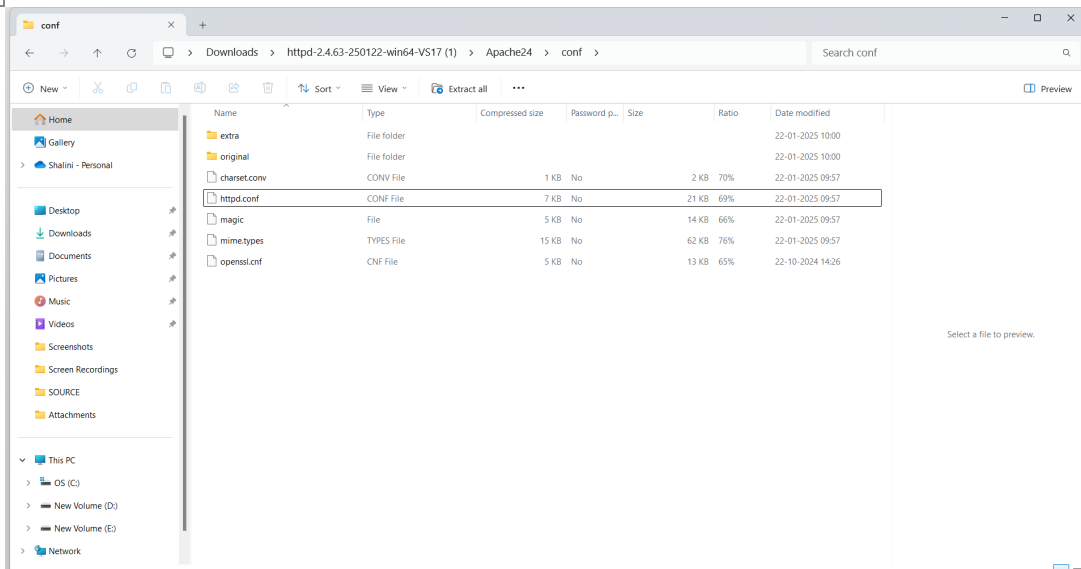
Step 5 :

Then Run the installation command :
`httpd.exe -k install`

```
C:\Users\shalni\Downloads\httpd-2.4.63-250122-win64-VS17\Apache24\bin>httpd.exe -k install
Installing the 'Apache2.4' service
The 'Apache2.4' service is successfully 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
Define SRVROOT "C:/Users/Hi/Downloads/httpd-2.4.62-240904-win64-VS17/Apache24"

# Ensure the path resolves correctly for DocumentRoot
ServerRoot "${SRVROOT}"

# Listening Port
Listen 80

# ServerName (optional, but recommended for local testing)
ServerName localhost:80

# LoadModules (essential modules)
LoadModule access_compat_module modules/mod_access_compat.so
LoadModule actions_module modules/mod_actions.so
LoadModule alias_module modules/mod_alias.so
LoadModule allowmethods_module modules/mod_allowmethods.so
LoadModule auth_basic_module modules/mod_auth_basic.so
LoadModule authn_core_module modules/mod_authn_core.so
LoadModule authz_core_module modules/mod_authz_core.so
LoadModule dir_module modules/mod_dir.so
LoadModule log_config_module modules/mod_log_config.so
LoadModule mime_module modules/mod_mime.so
LoadModule rewrite_module modules/mod_rewrite.so
LoadModule setenvif_module modules/mod_setenvif.so

# DocumentRoot and Directory configuration
DocumentRoot "${SRVROOT}/htdocs"
<Directory "${SRVROOT}/htdocs">
    Options Indexes FollowSymLinks
    AllowOverride None
    Require all granted
</Directory>

# Logs (you can adjust the paths as needed)
ErrorLog "${SRVROOT}/logs/error.log"
CustomLog "${SRVROOT}/logs/access.log" common
```

```
# Additional settings for MIME types, DirectoryIndex, etc.
<IfModule mime_module>
    TypesConfig conf/mime.types
    AddType application/x-compress .Z
    AddType application/x-gzip .gz .tgz
</IfModule>

<IfModule dir_module>
    DirectoryIndex index.html
</IfModule>
```

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

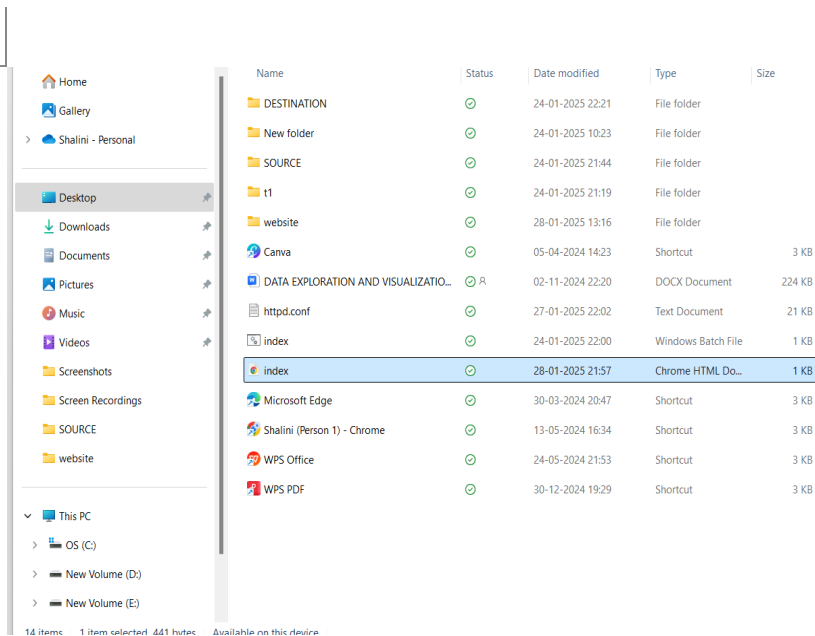
Step 9 :

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

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

Step 10:

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).

```
<!DOCTYPE html>
<html>
<head>
  <title> Shalini</title>
  <style>
    body {
      background-color: white; /* Set background color to black */
      color: green; /* Set text color to green */
      font-family: monospace; /* Use a monospace font for the retro look */
    }
  </style>
</head>
<body>
  <h1>SHALINI</h1>
  <p>This website is hosted locally on Apache.</p>
</body>
</html>
```

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.