



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. By following these steps, you'll get hands-on experience with configuring and running a local Apache server, which is a foundational skill for web hosting and server management.

To host a static website locally, you'll set up an Apache server on your computer. This allows you to serve HTML pages without needing an external host. First, you'll install Apache, then create a simple HTML page (e.g., with your name displayed). Once that's done, you'll configure Apache to serve your page, and voilà – your static website will be up and running on your local machine! This is a great way to practice web development before deploying your site online.

Objective

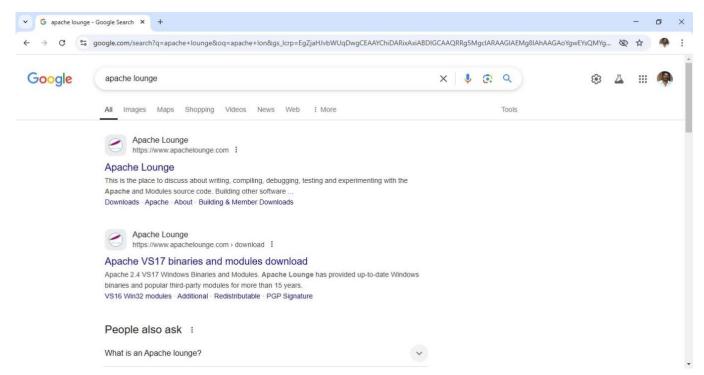
The goal of this project is to:

- 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.

Step-by-Step Overview

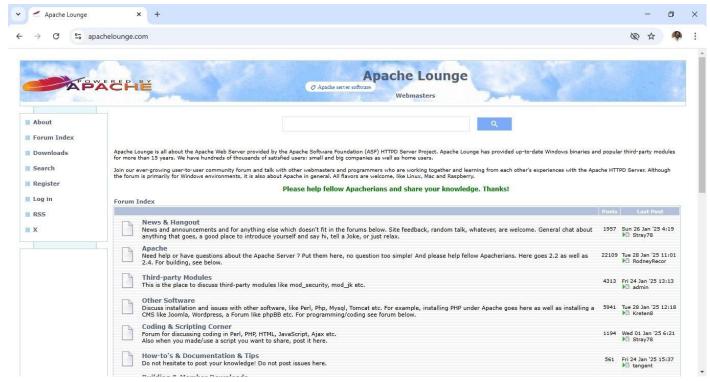
Step1:

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:\Users\HP\Downloads\httpd-2.4.62-240904-win64-VS17\Apache24>cd C:\Users\HP\Downloads\httpd-2.4.62-240904-win64-VS17\Apache24/bin

Step 5:

Then Run the installation command:

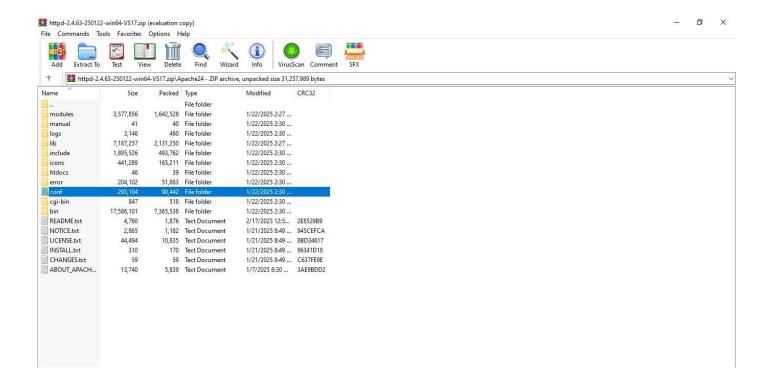
httpd.exe -k install

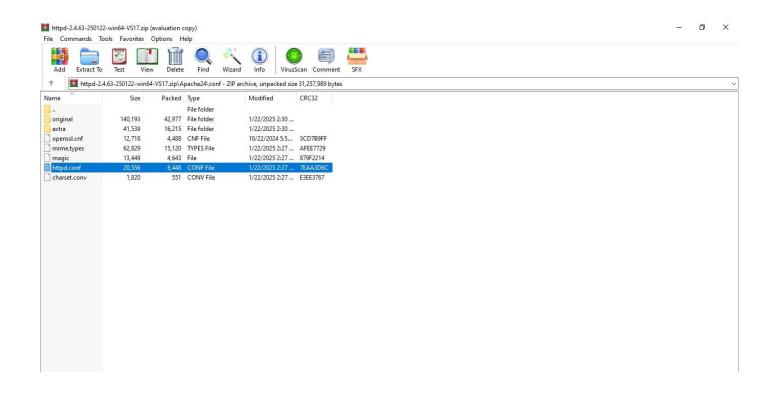
C:\Users\HP\Downloads\httpd-2.4.62-240904-win64-V517\Apache24\bin>httpd.exe -k install
Installing the 'Apache2.4' service
The 'Apache2.4' service is successfully installed.

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 "C:/Users/Hi/Downloads/httpd-2.4.62-240904-win64-VS17/Apache24"
\mbox{\tt\#} Ensure the path resolves correctly for DocumentRoot ServerRoot \mbox{\tt\#}\{\mbox{\tt SRVROOT}\}\mbox{\tt\#}
# 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 auth_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'.

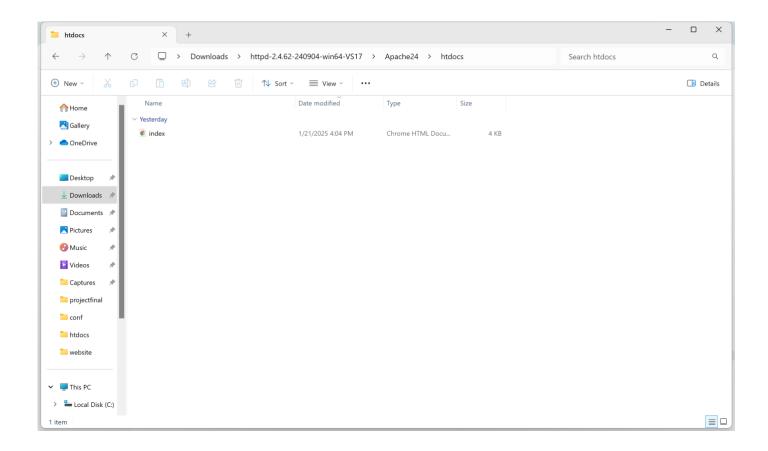
```
C:\Users\HP\Downloads\httpd-2.4.62-240904-win64-VS17\Apache24\bin>httpd.exe -t
Syntax OK
```

Step 9:

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

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).

```
*Untitled - Notepad
                                                                                                                                                                                                                                  O
File Edit Format View Help <!DOCTYPE html>
<html lang="en">
<head>
     <meta charset="UTF-8">
<meta name="viewport" content="width=device-width, initial-scale=1.0">
     <title>AWS Academy Cloud Foundations Completion</title>
           body {
    font-family: Arial, sans-serif;
                margin: 0;
padding: 0;
               background-color: #f4f4f4;
color: #333;
           .container {
   width: 80%;
                margin: 20px auto;
padding: 20px;
                background-color: #fff;
border-radius: 8px;
box-shadow: 0 4px 8px rgba(0, 0, 0, 0.1);
                color: #0073e6;
                text-align: center;
                font-size: 18px;
                line-height: 1.6;
           .certificate {
                display: block;
width: 100%;
                text-align: center;
padding: 20px;
font-size: 20px:
```

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.