

HOST A STATIC WEBSITE LOCALLY

AIM:

To set up a local server (Apache or Nginx) and host a simple HTML page with your name.

NEED FOR LOCAL WEBSITE HOSTING:

Local web hosting can be useful for a variety of reasons. If you're asking about the need for it, here are a few key advantages:

1. **Performance and Speed:** Local web hosting can offer better performance because the server is physically closer to the user, reducing latency.
2. **Control and Customization:** You have more control over the server's configuration and can easily customize the hosting environment for your needs.
3. **Cost-Effective:** For small to medium-sized websites, local hosting can sometimes be more affordable compared to international hosting services, especially if you have your own server hardware.
4. **Security:** If you're dealing with sensitive data or need to comply with specific local data privacy laws, hosting locally can give you more control over security and data protection.
5. **Regulatory Compliance:** Some countries have laws that require data to be stored within the country. Local hosting ensures that you're in compliance with such regulations.

STEP BY STEP OVERVIEW:

Step 1: Installing APACHE for windows

- Go to browser and search for 'APACHE LONGUE' and click the first link to access the official website.
- Click on 'Downloads' option of the Apache Lounge website.
- Click on the link provided for the Windows version and download the file and extract all its contents.

← → ↻ apachelounge.com/download/ ☆ | | | N |



Apache Lounge
Webmasters | Apache Software Foundation certification

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 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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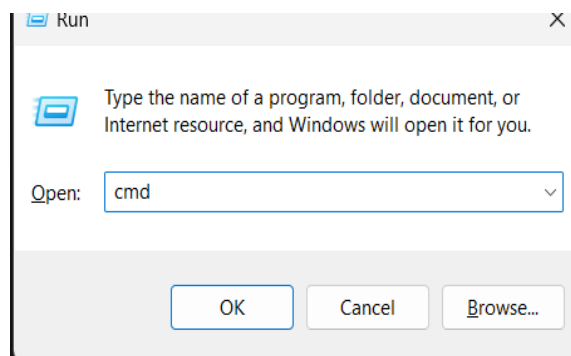
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https://ad.doubleclick.net/pcs/click?xai=AKAOjsuIR5q27R16TVy4oT5SN_oAk11D-lbQyulXt0..

Step 2: INSTALLATION

- Open the command prompt as 'Administrator' and use the command 'cd C:\path\to\Apache\bin' to set path to the 'Apache bin' folder.



- Also, then run the installation command 'httpd.exe -k install' and your Apache will be installed successfully.

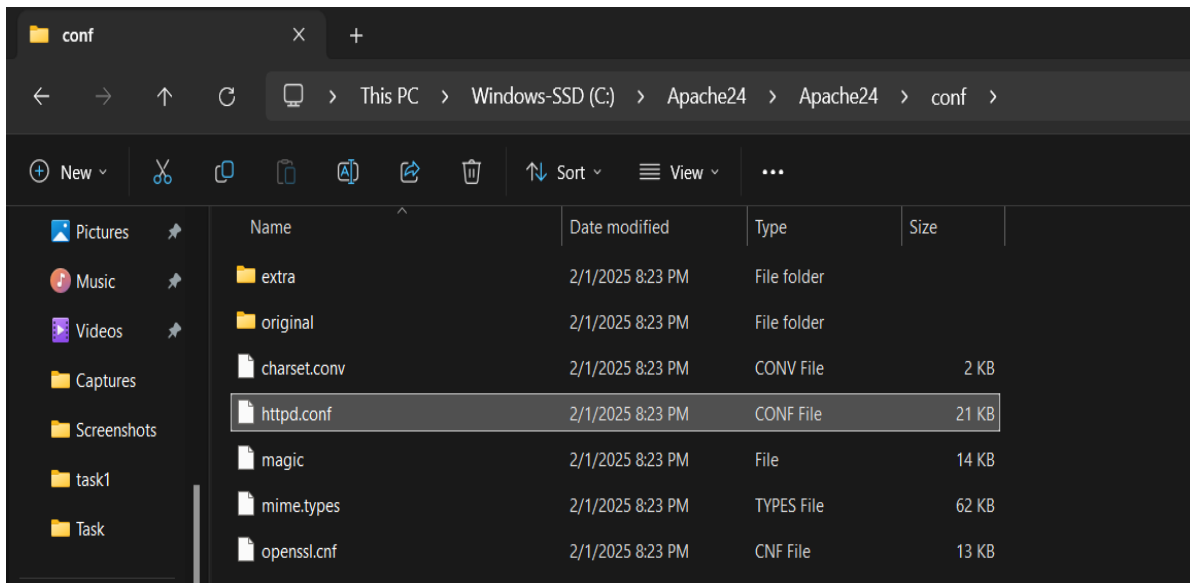
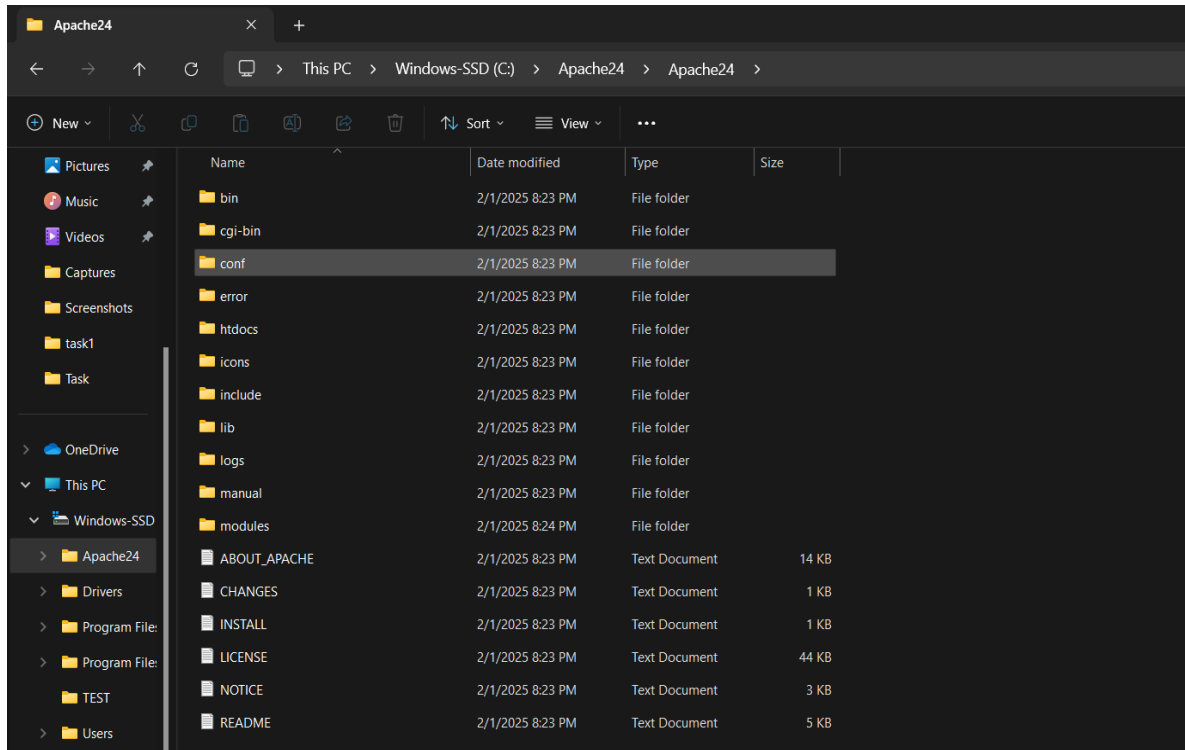
```
C:\Windows\system32\cmd.exe
Microsoft Windows [Version 10.0.22631.4751]
(c) Microsoft Corporation. All rights reserved.

C:\Windows\System32>cd C:\Apache24\Apache24\bin

C:\Apache24\Apache24\bin>httpd.exe -k install
Installing the 'Apache2.4' service
The 'Apache2.4' service is successfully installed.
```

Step 3: CONFIGURE

- Navigate to the Apache folder, go to the 'conf' folder and right-click on it to edit it with Notepad.



- Replace the content with the provided configuration. Ensure you update the SRVROOT directive with your Apache installation path.

```
httpd.conf  index.html  +
File Edit View

#Define SRVROOT
Define SRVROOT C:\Apache24\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, Directory Index, 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 4: TEST CONFIGURATION

- Open the command prompt and give ‘httpd.exe -t’ to test the configuration.

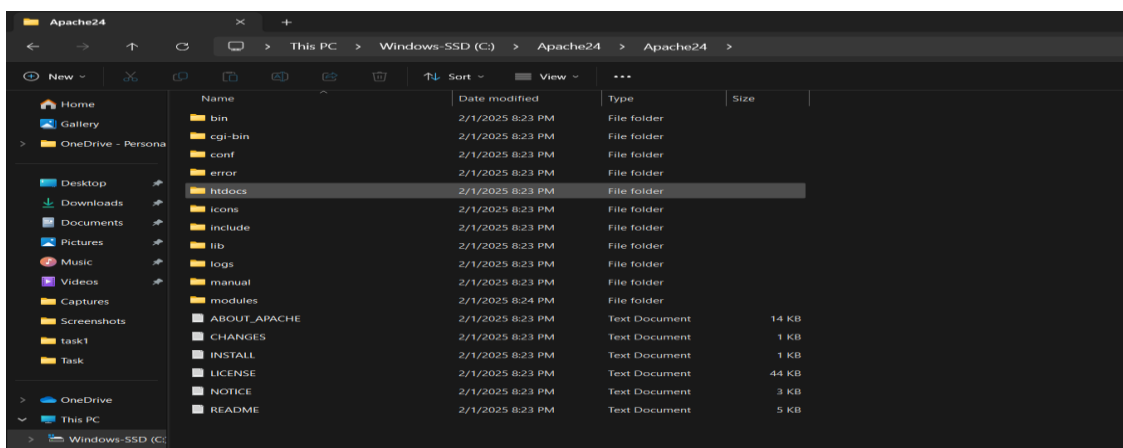
```
C:\Apache24\Apache24\bin>httpd.exe -t
```

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

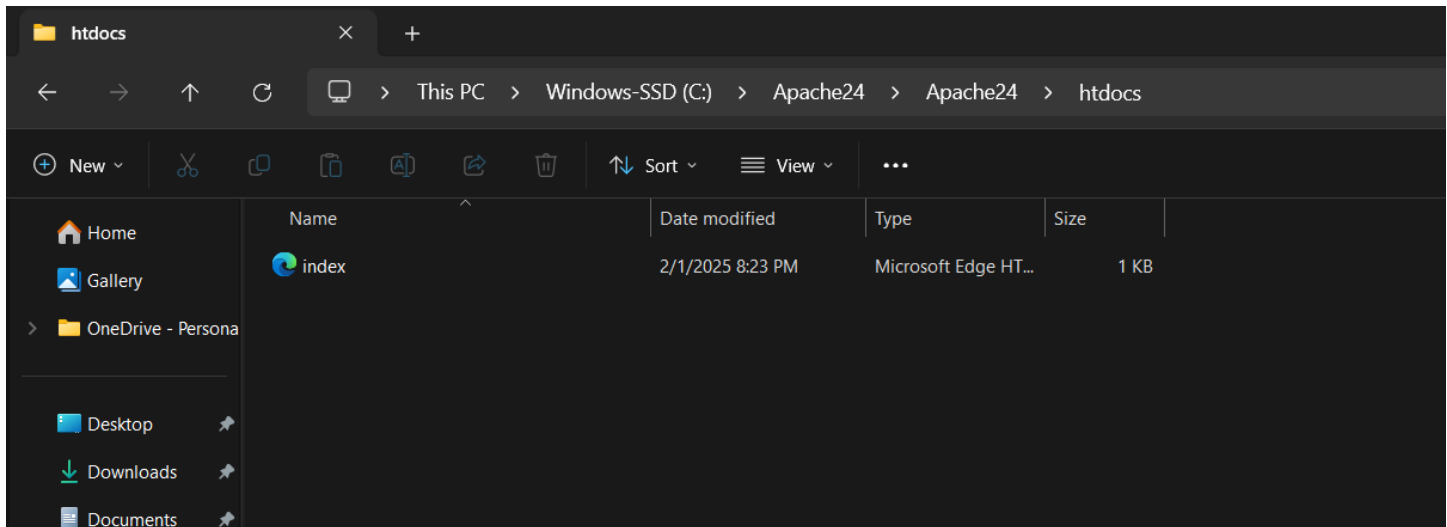
```
C:\Apache24\Apache24\bin>httpd.exe -k
```

Step 5: UPLOADING A HTML FILE

- Go to the Apache folder and navigate to ‘htdocs’ folder.



- You will find a index.html file. Edit it with Notepad.



- Give a html code that prints your name as shown below;

```
httpd.conf  index.html
File Edit View

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>My Name</title>
</head>
<body>
  <h1>NIDHISHA A DHAS</h1>
</body>
</html>
|
```

- Save this file.

Step 6: TEST THE WEB-HOSTING

- Open your browser and type 'localhost/index.html' in the address bar.
- You will be able to see the website hosted successfully.



My Name



File | C:/Apache24/Apache24/htdocs/index.html

NIDHISHA A DHAS

CONCLUSION:

In this POC, we have understood:

- To install, configure and run the Apache server locally.
- To host a static website that displays your name.
- Understand the basics of web-server configuration and file hosting.