 

**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: NANTHINI R Department : ADS



**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.

**Objective**

The main goals of this project are:

1. Set up a local web server using Apache.
2. Configure the server to serve static files.
3. Create a simple HTML page that shows your name.

**Importance of Local Hosting**

Hosting websites locally on your computer is a valuable skill for developers. It lets you:

* Learn by Doing: Get practical experience with setting up and running a web server.
* Test Before Going Live: Make sure everything works as expected before hosting a website on the internet.
* Work Offline: Develop and test your website without needingan internetconnection.

**Step-by-Step Overview**

**Step1:**Search "Apache Lounge" on Google and click the first link to go to the official Apache Lounge website.

**Step2:**On the website, click the "Downloads" link on the left side**.**

**Step3:**Find and click on the "Apache 2.4.62-240904 Win64" (Windows version), then download and extract all the files.

**Step4:**Open Command Prompt as Administrator. To do this, press Windows + R, type cmd, right-click on Command Prompt, and select Run as Administrator. Then type the following command to go to the Apache bin folder:

bash

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cd C:\path\to\apache\bin

**Step5:**Now, install Apache by running this command in Command Prompt:

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httpd.exe -k install

**Step6:**Go to the folder where you downloaded Apache. Find the conf folder and open the httpd.conf file using Notepad

**Step7:**In the httpd.conf file, replace the default content with the configuration provided. Make sure to update the SRVROOT setting with the path where you installed Apache. This tells Apache where to find its files and how to serve your website correctly.

**Step8:**To test if your configuration is correct, open Command Prompt again and run the following command:

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httpd.exe -t

If the configuration is correct, you should see "Syntax OK."

**Step9:**Start the Apache server by typing this command:

sql

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httpd.exe -k start

**Step10:**Go to the folder where Apache is installed, then navigate to the htdocs folder. Find the index.html file, right-click on it, and select Edit with Notepad.

**Step11:**Create a simple HTML page that displays your name. You can add CSS for styling, but it’s optional.

**Step12:**Open your browser and type this in the address bar:

bash

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localhost/index.html

You should see your website displaying your name.

**Expected Outcome**

By the end of this project, you will:

1. Successfully install and run Apache on your computer.
2. Host a simple static HTML website that shows your name.
3. Learn how to configure a web server and manage static files locally.