St. JOSEPH'S GROUP OF INSTITUTIONS
OMR, CHENNAI - 119

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 to Hosting a Static Website Using Git and Apache

Version control and web hosting are essential for managing and deploying websites efficiently. By combining Git for version control and Apache for local hosting, you can create a structured workflow for developing and testing your static website.

Why Use Git?

- Track changes and maintain a history of your website files.
- Restore previous versions if needed.
- Collaborate with others efficiently.

Why Use Apache?

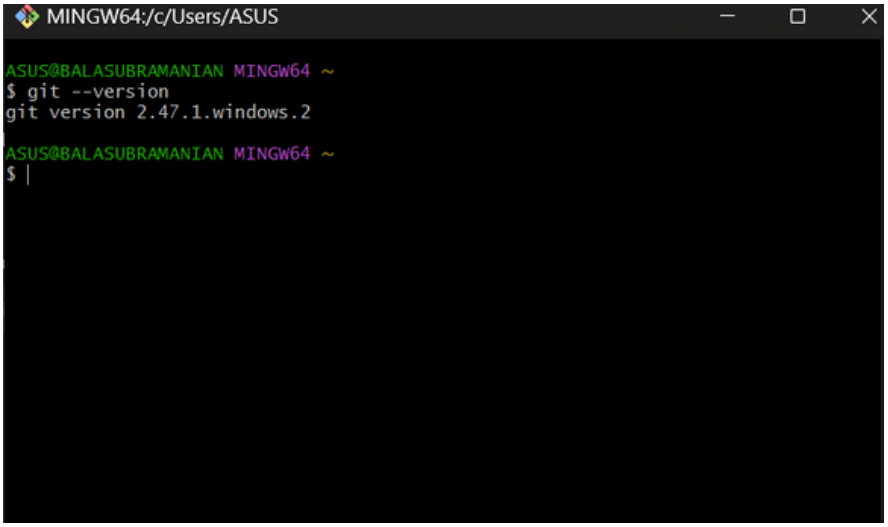
- Host and preview your website locally before deploying.
- Serve static files (HTML, CSS, JavaScript) with high performance.
- Simulate a real web server environment.

Workflow Overview

- Set up Apache to serve your static website.
- Initialize Git in your website folder to enable version control.
- Track changes and commit updates regularly.
- Push to a remote repository (like GitHub) if needed.

Step 1: Install Git (If Not Installed)

- Download Git from git-scm.com.
- Run the installer and select "Git Bash" and "Git GUI" during installation.
- Open Command Prompt (cmd) or Git Bash and check if Git is installed:bash



Step 2: Navigate to Your Website Directory

- Open Command Prompt (cmd) or Git Bash.
- Change directory to your website folder:

Step 3: Initialize the Git Repository

- Run the following command to create a Git repository in your website folder:

```
PS C:\Users\ASUS\Downloads\samp> git init
Reinitialized existing Git repository in C:/Users/ASUS/Downloads/samp/.git/
PS C:\Users\ASUS\Downloads\samp>
```

Step 4: Add Files to the Repository

```
PS C:\Users\ASUS\Downloads\samp> git add .
PS C:\Users\ASUS\Downloads\samp>
```

Step 5 :Commit the Files

```
PS C:\Users\ASUS\Downloads\samp> git commit -m "Initial commit for static website"
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
PS C:\Users\ASUS\Downloads\samp>
```

Step 6: Check the status

You can check the status of your repository anytime:

```
PS C:\Users\ASUS\Downloads\samp> git status
On branch master
Your branch is up to date with 'origin/master'.
```

Step 7: Check Logs:

```
PS C:\Users\ASUS\Downloads\samp> git log
commit 48609bbcf941a0bc517af103d72bfe3c11c75040 (HEAD -> master, origin/master)
Author: Balasubramanianvoffcl <vbalasubramanian559@gmail.com>
Date:   Mon Jan 27 21:48:15 2025 +0530

    Initial commit for static website

commit 948b254e679e1daad1237e163b2a1f2f0e11de7a
Author: Balasubramanianvoffcl <vbalasubramanian559@gmail.com>
Date:   Fri Jan 24 09:36:22 2025 +0530

    welcome
PS C:\Users\ASUS\Downloads\samp>
```