 

**Placement Empowerment Program**

***Cloud Computing and DevOps Centre***

**Deploy Your Static website Using GitHub Pages**

Host your Local git repository static website directly using GitHub

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**Introduction**

**GitHub Pages is a free hosting service provided by GitHub that allows you to host static websites directly from a GitHub repository. This service is ideal for personal projects, portfolios, or documentation sites. With GitHub Pages, you can easily deploy your website from your local Git repository to a live, publicly accessible URL, all without needing to configure a web server or worry about complicated hosting solutions.**

**Objective**

**The goal of this guide is to:**

* **Explain the basics of GitHub Pages and how it works.**
* **Walk you through using Git commands (especially git push) to deploy a website.**
* **Show you how to set up a GitHub repository for hosting your static website.**
* **Help you configure the repository to serve your website using GitHub Pages.**

**Prerequisites**

**Before starting, make sure you have the following:**

1. **A GitHub account.**
2. **Git installed on your local machine.**
3. **A static website (HTML, CSS, JavaScript files, etc.) ready for deployment.**

**Step-by-Step Guide**

**1. Create a New Repository on GitHub**

* **Go to your GitHub account.**
* **Click the + icon in the upper-right corner and select New repository.**
* **Name your repository (e.g., my-static-site).**
* **Optionally, add a description and choose visibility (Public is recommended for GitHub Pages).**
* **Click Create repository.**

**2. Initialize a Local Git Repository**

**If you haven't already created a local repository for your website files:**

* **Open your terminal (or Git Bash).**
* **Navigate to the directory where your website files are stored.**
* **Initialize a new Git repository:**

**git init**

* **Add your website files to the repository:**

**git add .**

* **Commit your changes:**

**git commit -m "Initial commit"**

**3. Link the Local Repository to GitHub**

**Now, link your local repository to the remote GitHub repository:**

**git remote add origin https://github.com/your-username/my-static-site.git**

**4. Push Your Website to GitHub**

**Push your local files to GitHub:**

**git push -u origin master**

**5. Set Up GitHub Pages**

**Now that your files are on GitHub, it’s time to enable GitHub Pages:**

* **Go to your GitHub repository page.**
* **Click on the Settings tab.**
* **Scroll down to the Pages section in the left sidebar.**
* **Under Source, select main (or master, depending on your branch) as the source branch for GitHub Pages.**
* **Optionally, choose a folder (like /docs) if your website files are stored in a subdirectory.**
* **Click Save.**

**6. Access Your Website**

**After a few moments, GitHub Pages will build and deploy your website. You can now access it at:**

**https://your-username.github.io/my-static-site/**

**Conclusion**

**GitHub Pages is a simple, free, and efficient way to host your static website. By following these steps, you can easily deploy a site from your local repository and make it publicly accessible on the web. Whether you're working on personal projects or professional portfolios, GitHub Pages provides an easy-to-use solution for hosting static content.**