

Hosting Your Website for Free Using GitHub. A Beginner's Guide to Hosting Websites on GitHub

By Computer Doctor

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About the Author:

Computer Doctor is a cybersecurity expert and ethical hacker dedicated to help individuals and organizations understand digital vulnerabilities and adopt effective security measures. With a strong background in ethical hacking, penetration testing, network security, and secure software development, Computer Doctor is passionate about fostering a safer digital environment.

For questions or further guidance on using this walkthrough, please feel free to contact Computer Doctor by Visit www.computerdoctortz.co.tz to explore additional IT services offered.

GitHub:

GitHub is a platform for hosting, managing, and collaborating on code repositories. It uses Git, a version control system, to track changes in projects. GitHub Pages, a feature of GitHub, allows users to host static websites directly from a repository for free.

GitHub Pages is a powerful feature provided by GitHub that allows users to host static websites (HTML, CSS, and JavaScript) directly from their GitHub repositories. Let's assume the GitHub username **Kasanga** to guide you step by step through the process of hosting a website.

This guide will walk you through hosting a website using GitHub Pages.

Create a GitHub Account:

Step 1: Create a GitHub Account (if you don't have one)

1. Go to [GitHub](#).
2. Sign up for a free account by filling in your details.
3. Choose your unique username carefully—this will appear in your website URL.
 - For this guide, the username is **Kasanga**, so the hosted website will eventually be available at:
`https://kasanga.github.io`
4. Confirm your email address to fully activate your account.

Step 2: Create a New Repository for Your Website

1. Log in to your GitHub account and click the + icon in the top-right corner, then select **New repository**.
2. Fill in the repository details:
 - **Repository Name:** Enter a name, e.g., `kasanga.github.io`
NB: The name before `(name).github.io` must be the same as the username of the account in GitHub.
 - **Description:** Optionally describe your project (e.g., "Personal website hosted on GitHub Pages").
 - **Visibility:** Choose **Public** (so others can view your website).
3. (Optional) Check the box **Add a README file** to initialize the repository. This file can provide an overview of your project.
4. Click **Create repository**.

Step 3: Upload Your Website Files

Your website needs basic files like `index.html` to function. These files can include:

- `index.html`: The main webpage file (**mandatory**).
- `style.css`: Optional file for styling your page.
- `script.js`: Optional file for JavaScript functionality.

To upload your files:

1. Direct Upload via GitHub Interface: (skip 2 below if you prefer to use this)

- On the repository page (e.g., <https://github.com/kasanga/kasanga.github.io>), click **Add file > Upload files**.
- Drag and drop your `index.html` and any other files into the upload area.
- Write a **commit message** (e.g., "Add website files") and click **Commit changes**.

2. Using Git Locally: (skip 1 above if you prefer to use this)

If you're familiar with Git, you can upload your files using the following steps:

- Clone the repository locally:

```
$git clone https://github.com/kasanga/kasanga.github.io.git  
$cd kasanga.github.io
```

- Add your website files to the project directory.
- Stage and commit your changes:

```
$git add .  
$git commit -m "Add website files" #replace with your website files
```

- Push the changes back to GitHub:

```
$git push origin main
```

Step 4: Enable GitHub Pages

Once your files are in the repository, enable GitHub Pages to make your website live:

1. Go to your repository page (e.g., <https://github.com/kasanga/kasanga.github.io>).
2. Click the **Settings** tab at the top.
3. In the left-hand menu, find and click **Pages** (under "Code and automation").
4. Under the **Source** section:
 - Select the branch where your files are stored (e.g., `main`).

- Choose **Root** as the folder if your files are in the main directory.

5. Save your changes.

GitHub will display the URL of your website, which will look like:
<https://kasanga.github.io/>

Step 5: Verify Your Website is Live

1. Wait a few minutes for GitHub Pages to build your site and Propagation of your web pages.
 2. Open the provided URL (e.g., <https://kasanga.github.io>) in your browser.
 3. You should see your website live!

With these steps, **Kasanga** can host a fully functional, professional-looking website for free!

