

Placement Empowerment Program

Cloud Computing and DevOps Centre

Deploy Your Static Website Using GitHub Pages Host
your local Git repository's static website directly using
GitHub Pages

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INTRODUCTION

GitHub Pages is a free hosting service provided by GitHub that allows you to deploy static websites directly from a repository. It is an excellent solution for hosting personal projects, documentation, portfolios, and other simple websites. Using GitHub Pages, you can make your local static website live on the internet with minimal setup.

OVERVIEW

The deployment process involves:

Creating a GitHub repository for your website.

Setting up Git locally on Windows and linking it to GitHub.

Uploading your static website files (HTML, CSS, JavaScript).

Enabling GitHub Pages from the repository settings.

Accessing your live website via a GitHub-provided URL.

OBJECTIVES

Set up a local Git repository on Windows.

Push a static website to GitHub.

Enable GitHub Pages for hosting.

Access and manage your website online.

IMPORTANCE OF AUTOMATED DEPLOYMENT

Free Hosting: No cost for static site deployment.

Version Control: Easy tracking of website changes with Git.

Fast and Reliable: Hosted on GitHub's global CDN for quick access.

Custom Domain Support: Can be linked to a personal domain.

No Backend Required: Ideal for portfolios, project documentation, and personal blogs.

STEP-BY-STEP OVERVIEW


Step 1 : Install git

1. Download and install Git for Windows from [Git for Windows](#).

← → ↻ google.com/search?q=git&oq=git&gs_lcrp=EgZjaHJvbWUyEQgAEUyOxhDGLDGAIEGloFMgYIARBFdKyEggCEC4YxjHARjARxiABBikBTIGCAMQRg7MhIBBAAGEMyGwEysQMiygAQYigUyEgg... ☆ ⓘ

Google git × 🔍

All Images Videos News Shopping Web Maps : More Tools

 **Git**
<https://git-scm.com>

Git

Git is easy to learn and has a tiny footprint with lightning fast performance. It outclasses SCM tools like Subversion, CVS, Perforce, and ClearCase with ...

Downloads

Git via Git ... You can also always browse the current contents of ...

Download for Windows

Click here to download the latest (2.47.1(2)) 64-bit version of Git ...

Book

Download Ebook. The entire Pro Git book, written by Scott ...


Download for macOS

There are several options for installing Git on macOS. Note ...

Documentation

External Links. The External Links section is a curated, ever ...

[More results from git-scm.com »](#)

 **GitHub**
<https://github.com>

Git

System software

```
git init
Initialized empty Git repository in /tmp/tmp.IMEY5788Y/.git/
$ cat > README << 'EOF'
$ git commit -m 'first commit'
$ git add README
$ git commit
(master root-commit) e4dc69 You can edit locally and push to any remote.
```


Git is a distributed version control system that tracks versions of files. It is often used to control source code by programmers who are developing software collaboratively. [Wikipedia](#)

Programming languages: Python, C, C++, Perl, Tcl

Initial release date: 7 April 2005

Developer(s): Junio Hamano and others

← → ↻ git-scm.com/downloads/win ☆ ⓘ

 **git** --fast-version-control

Type / to search entire site...

About

Documentation

Downloads

GUI Clients

Logos

Community

The entire **Pro Git book** written by Scott Chacon and Ben Straub is available to read online for free. Dead tree versions are available on [Amazon.com](#).

Download for Windows

[Click here to download](#) the latest (2.47.1(2)) 64-bit version of Git for Windows. This is the most recent [maintained build](#). It was released 16 days ago, on 2025-01-14.

Other Git for Windows downloads

Standalone Installer

[32-bit Git for Windows Setup.](#)

[64-bit Git for Windows Setup.](#)

Portable ("thumbdrive edition")

[32-bit Git for Windows Portable.](#)

[64-bit Git for Windows Portable.](#)

Using winget tool

Install [winget](#) tool if you don't already have it, then type this command in command prompt or Powershell.

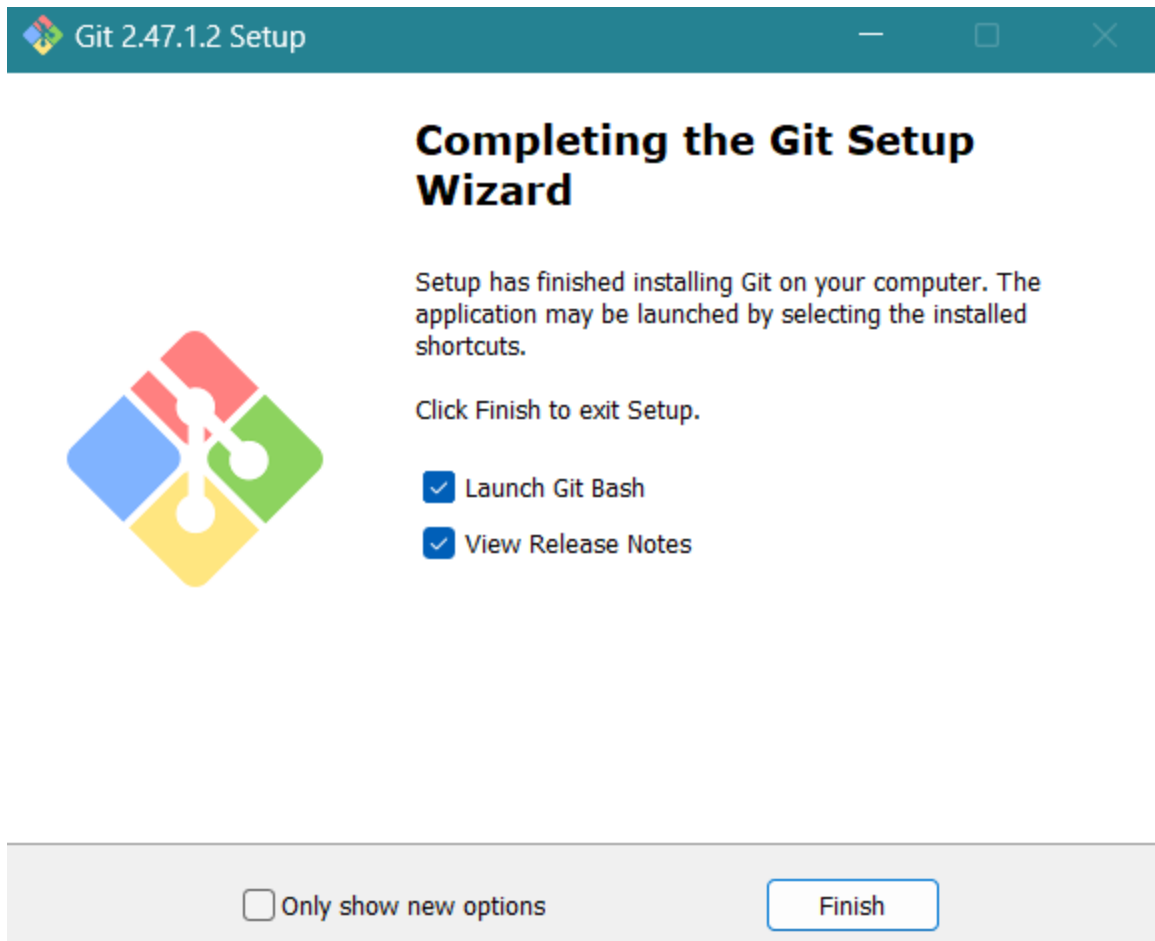
```
winget install --id Git.Git -e --source winget
```

The current source code release is version **2.48.1**. If you want the newer version, you can build it from the [source code](#).

Now What?

Now that you have downloaded Git, it's time to start using it.

2. During installation, select **Git Bash** as your default terminal.



Step 2 : Create a local repository

1. Navigate to your project folder:

```
cd path\to\your\project
```

2. Initialize a Git repository:

```
C:\Users\harsh>git init
Reinitialized existing Git repository in C:/Users/harsh/.git/
```

3. Add all files:

```
C:\Users\harsh>git add .
```

3. Commit the changes:

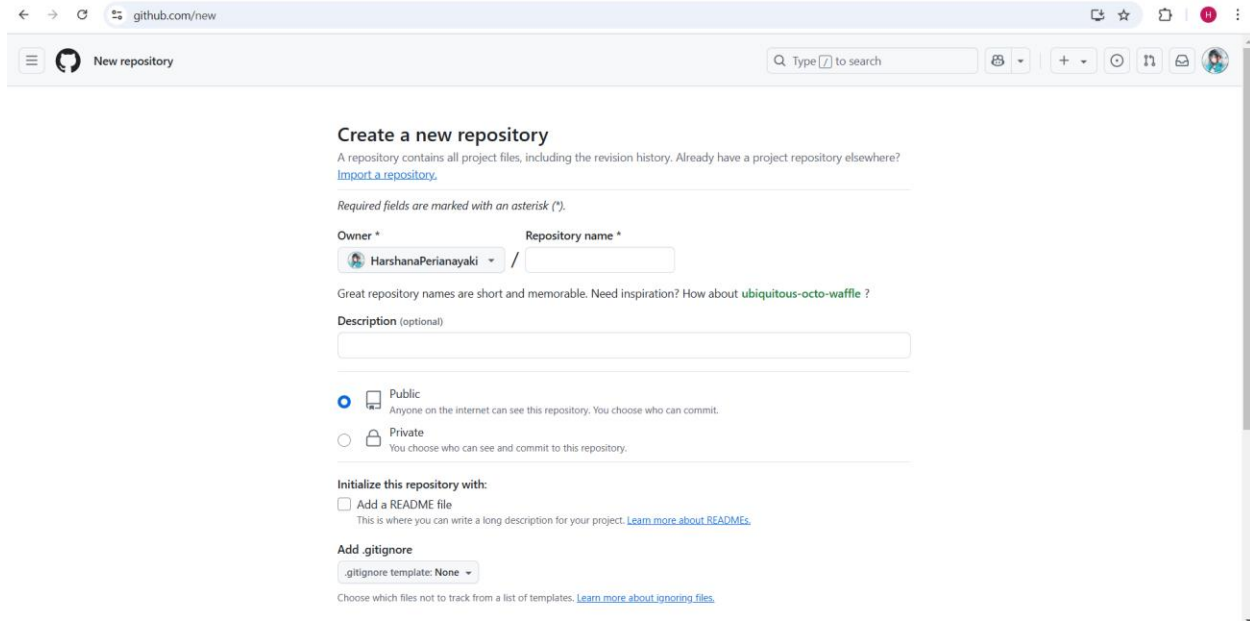
```
C:\Users\harsh>git commit -m "Initial commit"
warning: could not open directory 'Application Data/': Permission denied
warning: could not open directory 'Cookies/': Permission denied
warning: could not open directory 'Documents/My Music/': Permission denied
warning: could not open directory 'Documents/My Pictures/': Permission denied
warning: could not open directory 'Documents/My Videos/': Permission denied
warning: could not open directory 'Local Settings/': Permission denied
warning: could not open directory 'My Documents/': Permission denied
warning: could not open directory 'NetHood/': Permission denied
warning: could not open directory 'PrintHood/': Permission denied
warning: could not open directory 'Recent/': Permission denied
warning: could not open directory 'SendTo/': Permission denied
warning: could not open directory 'Start Menu/': Permission denied
warning: could not open directory 'Templates/': Permission denied
On branch feature-branch

Initial commit

Untracked files:
  (use "git add <file>..." to include in what will be committed)
```

Step 3 : Create a Github repository

1. Go to [GitHub](https://github.com) and sign in.
2. Click on **New Repository**.



← → ↻ github.com/new

New repository

Q Type [Z] to search

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)

Required fields are marked with an asterisk (*).

Owner * Repository name *

HarshanaPerianayaki /

Great repository names are short and memorable. Need inspiration? How about [ubiquitous-octo-waffle](#) ?

Description (optional)

☒ Public
Anyone on the internet can see this repository. You choose who can commit.

☐ Private
You choose who can see and commit to this repository.

Initialize this repository with:

☐ Add a README file
This is where you can write a long description for your project. [Learn more about READMEs.](#)

Add .gitignore

.gitignore template: None

Choose which files not to track from a list of templates. [Learn more about ignoring files.](#)


3. Name the repository (e.g., my-website).

Create a new repository

A repository contains all project files, including the revision history. Already have a project repository elsewhere? [Import a repository.](#)


Required fields are marked with an asterisk (*).


Owner * Repository name *

 HarshanaPerianayaki / my-website

✓ my-website is available.

4. Select **Public** and **Initialize with a README (optional)**.

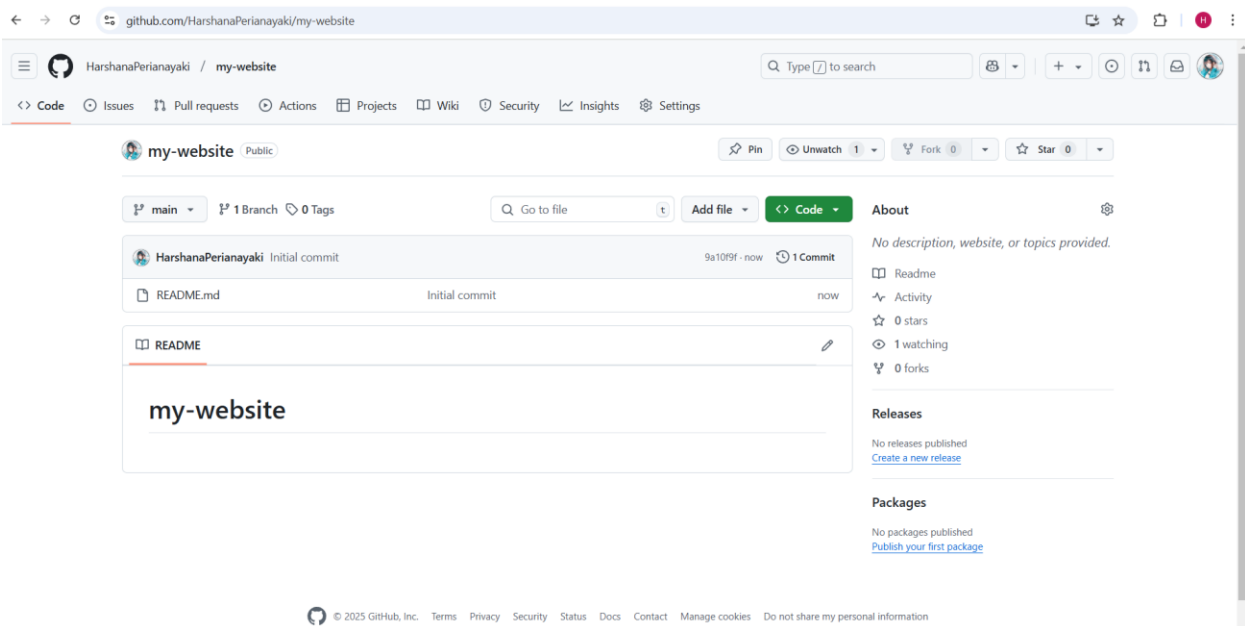
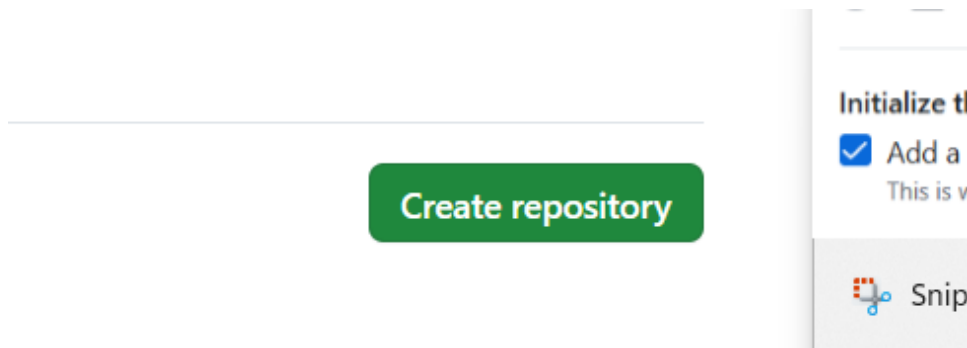
☒  Public
Anyone on the internet can see this repository. You choose who can commit.

☐  Private
You choose who can see and commit to this repository.

Initialize this repository with:

☒ Add a README file
This is where you can write a long description for your project. [Learn more about READMEs.](#)

5. Click **Create Repository**.



Step 4 : Link local repository to GitHub

1. Add the remote GitHub repository:

```
C:\Users\harsh>git remote add origin https://github.com/HarshanaPerianayaki/my-website.git
```

```
C:\Users\harsh>
```

2.Push your code to GitHub:

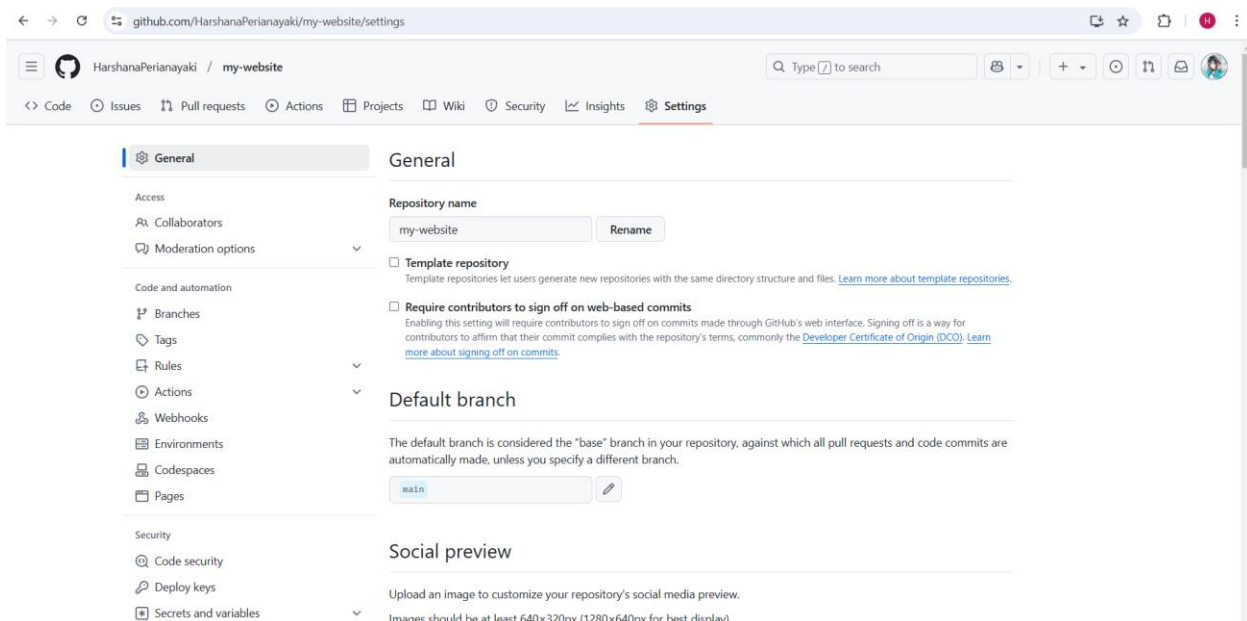
```
C:\Users\harsh>git branch -M main
```



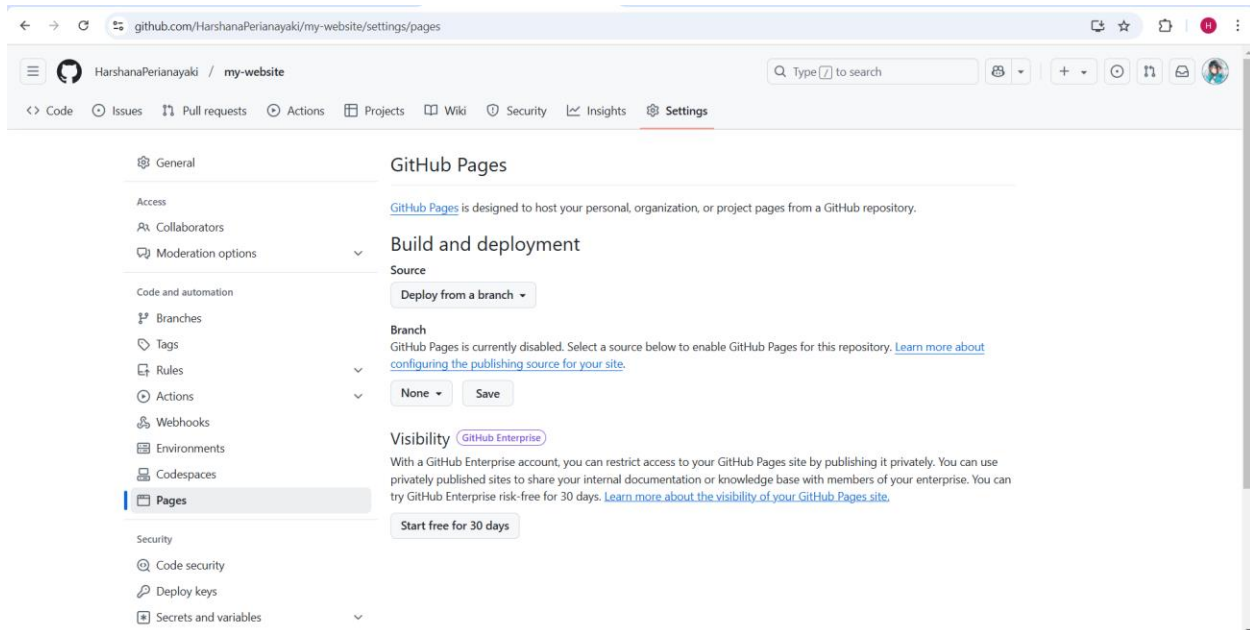
```
C:\Users\harsh>git push -u origin main
```

Step 5 : Enable GitHub Pages

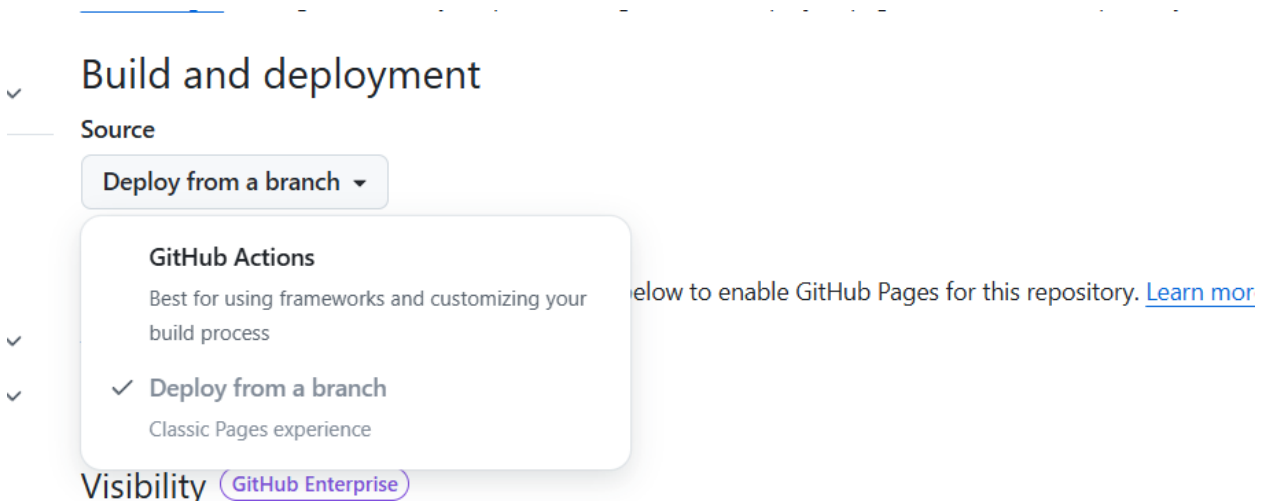
1. Go to your repository on GitHub.



2. Click on **Settings** > **Pages** (left sidebar).



3. Under **Source**, select **Deploy from a branch**.



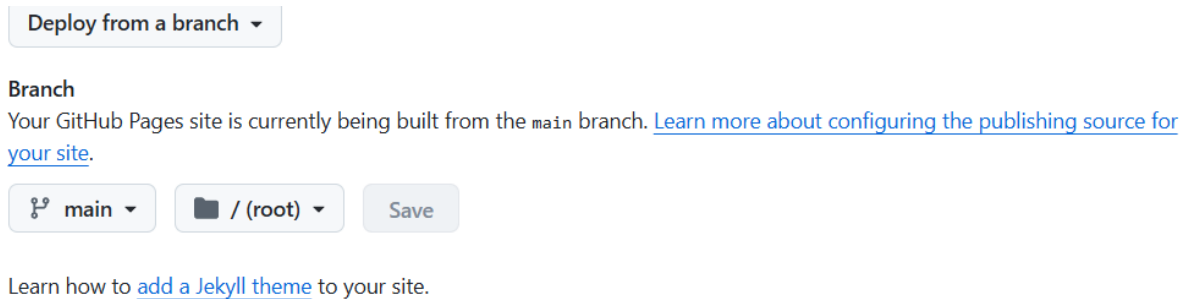
4. Choose the **main** branch and **/ (root)** directory.

Branch

GitHub Pages is currently disabled. Select a source below to enable GitHub Pages for this repository. [Learn more about configuring the publishing source for your site.](#)



5. Click **Save**.



Step 6 : Access the Website

After a few minutes, your website will be available at:

```
C:\Users\harsh>https://HarshanaPerianayaki.github.io/my-website/
```

Optional : Use a Custom Domain

1. Go to **Settings > Pages** and add your custom domain.

Custom domain

Custom domains allow you to serve your site from a domain other than `harshanaperianayaki.github.io`. [Learn more about configuring custom domains.](#)

← → ↻ 📄

harshanaperianayaki.github.io/my-website/

☆ 🗑️ 🔴 ⋮

my-website

2. Update your DNS settings to point to GitHub's servers.

OUTCOME

After completing the deployment, you will:

Have a live static website hosted on GitHub Pages.

Understand Git and GitHub basics for managing website changes.

Gain experience in cloud-based deployment for web development.

