

# Complete GitHub Pages Blog Setup - Step by Step Guide

## Prerequisites

- A GitHub account (free)
  - Git installed on your computer (optional but recommended)
  - A text editor (VS Code, Notepad++, or even Notepad)
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## Step 1: Create Your GitHub Repository

### A. Go to GitHub

1. Open your browser and go to [github.com](https://github.com)
2. Sign in to your account

### B. Create New Repository

1. Click the green **"New"** button or go to [github.com/new](https://github.com/new)
  2. **Repository name:** Enter exactly `yourusername.github.io` (replace `yourusername` with your actual GitHub username)
    - Example: If your username is `0xb0rn3`, name it `0xb0rn3.github.io`
  3. **Description:** "Security writeups and research blog"
  4. **Public/Private:** Select **Public** (required for GitHub Pages)
  5. **DO NOT** check any initialization options (no README, .gitignore, or license)
  6. Click **"Create repository"**
- 

## Step 2: Set Up Your Local Environment

### Option A: Using Git (Recommended)

```
bash

# Open terminal/command prompt and run:
git clone https://github.com/yourusername/yourusername.github.io.git
cd yourusername.github.io
```

### Option B: Without Git

1. Download the repository as ZIP from GitHub
2. Extract to a folder on your computer
3. Open the folder

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## Step 3: Create Your Blog Structure

### A. Create Folders

Create this exact folder structure:

```
yourusername.github.io/  
├── assets/  
│   ├── writeups/  
│       ├── (your writeup folders will go here)  
└── (index.html will go here)
```

### B. Save the index.html

1. Copy the complete index.html code I provided
2. Save it as `index.html` in the root of your repository (not inside any folder)

### C. Create writeups.json

1. Create a new file: `assets/writeups/writeups.json`
2. Add this starter content:

```
json  
  
{  
  "writeups": [  
    {  
      "id": "example-writeup",  
      "title": "My First Writeup - Getting Started",  
      "description": "This is an example writeup to test the blog functionality.",  
      "category": "tutorial",  
      "tags": ["example", "test", "blog"],  
      "difficulty": "easy",  
      "date": "2024-08-25",  
      "readTime": "5 min",  
      "folder": "example-writeup"  
    }  
  ]  
}
```

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## Step 4: Create Your First Writeup

### A. Create Writeup Folder

1. Inside `assets/writeups/`, create a folder named `example-writeup`
2. Inside `example-writeup/`, create a file named `README.md`

## B. Add Content to README.md

Copy one of the templates I provided (CTF or Tool template) and customize it, or use this simple example:

markdown

**# My First Writeup - Getting Started**

**## Overview**

This is my first writeup on my new security blog!

**## What I'm Learning**

- Setting up GitHub Pages
- Writing in Markdown
- Organizing security research

**## Code Example**

Here's a simple Python script:

```
```python
print("Hello, Security World!")
```

## Next Steps

- Add more writeups
- Document my security journey
- Share knowledge with the community

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**Author:** Your Name

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### ## Step 5: Upload to GitHub

#### #### Option A: Using Git Commands

```
```bash
```

```
# Add all files
```

```
git add .
```

```
# Commit changes
```

```
git commit -m "Initial blog setup"
```

```
# Push to GitHub
```

```
git push origin main
```

## Option B: Using GitHub Web Interface

1. Go to your repository on GitHub
2. Click "Upload files"
3. Drag and drop all your files
4. Write commit message: "Initial blog setup"
5. Click "Commit changes"

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## Step 6: Enable GitHub Pages

1. Go to your repository on GitHub
2. Click **Settings** (in the repository menu)
3. Scroll down to **Pages** section (left sidebar)
4. Under **Source**, select:
  - **Deploy from a branch**
  - Branch: **main** (or master)
  - Folder: **/ (root)**
5. Click **Save**
6. Wait 2-5 minutes for deployment

Your blog is now live at: <https://yourusername.github.io>

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## Step 7: Verify Your Blog

1. Open your browser
  2. Go to `https://yourusername.github.io`
  3. You should see your blog with the example writeup
  4. Click on the writeup card to test if it opens
- 

## Adding New Writeups (The Easy Process)

### 1. Create Writeup Folder

```
assets/writeups/your-writeup-name/
```

### 2. Add Your Content

Create `README.md` in that folder with your writeup

### 3. Update writeups.json

Add a new entry:

```
json
{
  "id": "your-writeup-name",
  "title": "Your Writeup Title",
  "description": "Brief description here",
  "category": "ctf",
  "tags": ["tag1", "tag2"],
  "difficulty": "medium",
  "date": "2024-08-25",
  "readTime": "10 min",
  "folder": "your-writeup-name"
}
```

### 4. Push Changes

```
bash
git add .
git commit -m "Add new writeup: Your Title"
git push
```

---

## Troubleshooting Common Issues

### Blog Not Loading?

- **Check repository name:** Must be exactly `yourusername.github.io`
- **Wait time:** First deployment can take up to 10 minutes
- **Check GitHub Pages status:** Go to Settings > Pages to see deployment status

## Writeups Not Showing?

- **Check writeups.json:** Ensure valid JSON syntax (use [jsonlint.com](https://jsonlint.com) to validate)
- **Check console:** Press F12 in browser, check Console tab for errors
- **File paths:** Ensure folder names in JSON match actual folder names exactly

## Images Not Loading?

- **Use relative paths:** `images/screenshot.png` not `/images/screenshot.png`
- **Check file extensions:** `.png` vs `.PNG` (case-sensitive)
- **Commit images:** Ensure images are added to git

## 404 Error?

- **Check GitHub Pages is enabled** in repository settings
  - **Verify branch:** Should be `main` or `master`
  - **Clear cache:** Try Ctrl+F5 or incognito mode
- 

## Customization Guide

### Change Blog Title and Info

In `index.html`, find and modify:

```
html

<h1>0xb0rn3</h1>
<p>Security Research & Penetration Testing Writeups</p>
```

### Update Social Links

Find the social links section and update URLs:

```
html

<a href="https://github.com/yourusername" class="social-link" target="_blank">
<a href="https://x.com/yourhandle" class="social-link" target="_blank">
```

### Change Color Theme

In `index.html`, find the `:root` section and modify colors:

CSS

```
--accent-color: #00d4aa; /* Main accent color */
--accent-secondary: #ff6b6b; /* Secondary color */
--primary-bg: #0a0e16; /* Background color */
```

# Writing Tips

## Markdown Basics

```
markdown

# Main Title
## Section
### Subsection

**Bold text**
*Italic text*
`inline code`

`` `language`
code block
```

### Link text

Show Image

Important note

- Bullet point
- Numbered list

#### #### Writeup Categories

- `ctf` - CTF challenges
- `tutorial` - How-to guides
- `vulnerability` - CVE analysis
- `tools` - Tool guides
- `web` - Web security
- `network` - Network security
- `mobile` - Mobile security

#### #### Difficulty Levels

- `easy` - Green badge
- `medium` - Orange badge
- `hard` - Red badge

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### ## Advanced Features

#### #### Adding Images to Writeups

1. Create `images/` folder in your writeup folder
2. Add images there
3. Reference in markdown: `![Description](images/screenshot.png)`

#### #### Code Syntax Highlighting

Use triple backticks with language:

```
```markdown
```

```
```python
```

```
print("Hello")
```

bash

`ls -la`



#### #### Tables in Writeups

```markdown

| Tool | Purpose |

|-----|-----|

| Nmap | Scanning |

| Burp | Web testing |

```

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### ## Maintenance

#### #### Update Existing Writeup

1. Edit the `README.md` file
2. Commit and push changes
3. Blog updates automatically

#### #### Delete a Writeup

1. Remove the folder from `assets/writeups/`
2. Remove entry from `writeups.json`
3. Commit and push

#### #### Backup Your Blog

Your entire blog is version-controlled in Git - every change is saved!

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### ## Quick Commands Reference

#### #### Git Commands

```bash

# Clone repository

git clone https://github.com/username/username.github.io.git

# Add changes

git add .

# Commit

git commit -m "Your message"

# Push to GitHub

git push

# Pull latest changes

git pull

```

#### #### File Structure

#### Final File Structure

```
...
username.github.io/
├── index.html
├── assets/
│   └── writeups/
│       ├── writeups.json
│       └── [writeup-folders]/
│           ├── README.md
│           └── images/
...
```

---

#### ### Final Checklist

- [ ] Repository named `username.github.io`
- [ ] index.html in root directory
- [ ] assets/writeups/ folder created
- [ ] writeups.json with at least one entry
- [ ] At least one writeup folder with README.md
- [ ] GitHub Pages enabled in Settings
- [ ] Blog accessible at <https://username.github.io>

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#### ### Support

If you encounter issues:

1. Check browser console (F12) for errors
2. Validate JSON at [jsonlint.com](https://jsonlint.com)
3. Check GitHub Pages build status in repository Settings
4. Ensure all file paths match exactly (case-sensitive)

Your blog is now ready! Start writing and sharing your security knowledge with the world.