

How to deploy our Vite React project to the Github as Github Pages

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To create a Vite project, connect it with GitHub, and deploy it to GitHub Pages:

1. Create a New Vite Project

1. Install Vite

Ensure you have Node.js installed. Then run:

```
npm create vite@latest my-vite-app
```

- Replace `my-vite-app` with your project name.
- Select the framework (e.g., React, Vue, etc.) and variant (e.g., TypeScript or JavaScript).

2. Navigate to Your Project Folder

```
cd my-vite-app
```

3. Install Dependencies

```
npm install
```

4. Test Your Project

Start the development server to confirm it's working:

```
npm run dev
```

2. Initialize a Git Repository and Push to Github

1. Initialize Git

```
git init
```

2. Add All Files and Commit

```
git add .  
git commit -m "Initial commit"
```

3. Create a GitHub Repository

- Go to [GitHub](#).
- Create a new repository with the same name as your project.

4. Add the Remote Repository

```
git remote add origin https://github.com/<username>/<repository-name>.git
```

5. Push the Code to GitHub

```
git branch -M main  
git push -u origin main
```

Deploying a Vite website to GitHub Pages using gh-pages involves a few steps:

Step 1: Configure your vite.config.js

Update your Vite configuration file to include a `base` option. This is necessary because GitHub Pages serves files from a subdirectory.

1. Open your `vite.config.js` file.
2. Add the `base` property with the repository name:

```
import { defineConfig } from 'vite';  
  
export default defineConfig({  
  base: '/<repository-name>', // Replace with your GitHub repository
```

```
name
});
```

Step 2: Install gh-pages

Install the `gh-pages` package to manage the deployment process:

```
npm install gh-pages --save-dev
```

Step 3: Update package.json Scripts

Add the following scripts to your `package.json`:

```
"scripts": {
  "build": "vite build",
  "predeploy": "npm run build",
  "deploy": "gh-pages -d dist"
}
```

- `predeploy`: Builds your project before deploying.
- `deploy`: Uses `gh-pages` to publish the `dist` folder.

Step 4: Build and Deploy

Run the following commands to deploy your site:

1. Build your project:

```
npm run build
```

2. Deploy it to GitHub Pages:

```
npm run deploy
```

Step 5: Verify GitHub Pages Deployment

1. Go to your GitHub repository.
2. Navigate to **Settings > Pages**.
3. Ensure the source is set to the `gh-pages` branch.
4. Wait for a few minutes, and your site should be live at:

```
https://<username>.github.io/<repository-name>/
```
