

# How to deploy Vite React App to GitHub Pages

## Setup a simple react application

To begin, make sure you have Node.js installed on your machine. You can then create a new React project by running the following command in your terminal

```
npm create vite my-project
cd my-project
npm install
npm run dev
```

now install install gh-pages package as a dev-dependency:

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

## Add Script in package.json

In the package.json file add two new scripts predeploy & deploy something like this:

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

## Add Base Path in vite config

In the vite.config.js add a base path which is the name of the GitHub repository you created and it will look like this:

```
// https://vitejs.dev/config/
export default defineConfig({
  plugins: [react()],
  base: "/my-project",
});
```

## Setting Up Git

Before deploying your website, you'll need to set up a Git repository to track your project's changes. Follow these steps:

```
#create a new git repository
$ git init
```

```
#add all changed file paths to staged changes
$ git add .
```

```
#commit all staged changes
$ git commit -m 'initial commit'
```

```
#add remote repository
$ git remote add origin [HTTPS URL of the your repo]
```

```
#pushed local repository to remote repository on GitHub
$ git push origin master
```

## **Deploy**

Now it's time for deployment. This process involves building your React application and pushing it to the gh-pages branch of your repository :

```
npm run deploy
```

After running this command, git pushes the contents of the dist directory (which contains the built assets) to the gh-pages branch of your repository. This branch serves as the source for your GitHub Pages website. GitHub automatically detects changes to this branch and updates your website accordingly.

Once the deployment process is complete, your website is live! You can access it using the URL :

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

where username is your GitHub username and repository-name is the name of your GitHub repository.