

## # Creating a Repository on GitHub

### ## Step 1: Log in to GitHub

- Go to <https://github.com> and log in with your account credentials.

### ## Step 2: Create a New Repository

- On the top-right corner, click the `+` icon.
- Select `New repository` from the dropdown.

### ## Step 3: Configure Repository Details

#### 1. **Repository Name**:

- Enter a name for your repository (e.g., `my-first-repo`).
- Use hyphens instead of spaces, e.g., `sample-project`.

#### 2. **Description (Optional)**:

- Write a brief description of your project (e.g., "This is my first repository for testing GitHub").

### ## Step 4: Set Repository Visibility

- **Public**: Anyone can see this repository.
- **Private**: Only you (and invited collaborators) can access it.

**\*Tip\***: Choose **Public** if it's just a demo. Select **Private** for personal or private projects.

### ## Step 5: Initialize the Repository (Optional)

- **Check**: "Add a README file" to get started with a basic README.
- **Check**: "Add .gitignore" (Optional) to ignore certain files (e.g., choose **Python** if applicable).

- **Check**: "Choose a license" (Optional) for open-source projects (e.g., **MIT License**).

## ## Step 6: Create the Repository

- Click the `Create repository` button at the bottom.

## ## Step 7: Overview of Your New Repository

- You'll be redirected to your repository's main page.
- **Code**: Browse your files and manage branches.
- **Issues**: Track tasks or bugs.
- **Pull Requests**: Manage collaboration and code reviews.
- **Settings**: Change visibility, invite collaborators, or delete the repo.

## ## Step 8: Clone the Repository to Your Computer (Optional)

- Click `Code` > `HTTPS` or `SSH` and copy the URL.
- In **VS Code**, open the terminal and run:

```
git clone <repository-url>
```