

Creation of GitHub repository for Labs

We will have many Labs. Thus, we are going to create a GitHub repository (example: “**labs**”) that will contain all the Labs:

labs - Lab1
 - Lab2
 ...

Firstly, in the WEB interface of GitHub (open with Google Chrome or another navigator), you have to create a new repository in GitHub, for example “**labs**” (use the same name of your labs folder). Configure your GitHub in private access as shown the figure 1.

Create a new repository

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

Owner * Repository name *

you / labs

Great repository names are short and memorable. Need inspiration? How about [improved-carnival?](#)

Description (optional)

labs

☐ 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:
Skip this step if you're importing an existing repository.

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

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

.gitignore template: None

Choose a license
A license tells others what they can and can't do with your code. [Learn more.](#)

License: None

This will set `main` as the default branch. Change the default name in your [settings](#).

ⓘ You are creating a private repository in your personal account.

Create repository

Figure 1: Create a GitHub repository.

Secondly, you should create a personal access token to use in place of a password to access of your GitHub folder. Follow the instructions to generate a token (select only repo and user).

Thirdly, in a terminal, follow the steps to clone your new GitHub repositories in your computer:

GIT configuration (to do once, creation of ".gitconfig" file in your user root folder):

```
esp32:~/$ git config --global user.name "your name"
```

```
esp32:~/$ git config --global user.email "your email address"
```

```
esp32:~/$ more ~/.gitconfig
```

*Go to the repository name (example : **labs**):*

```
esp32:~/$ cd labs
```

Init GIT folder :

```
esp32:~/labs$ git init
```

Import files from GitHub:

```
esp32:~/labs$ git remote add origin <my HTTPS GIT url>
```

Add ".gitignore" file

Add new files:

```
esp32:~/labs$ git add *
```

Commit files (local):

```
esp32:~/labs$ git commit -m "Initial commit"
```

```
esp32:~/labs$ git branch -M main
```

Save to GitHub server:

```
esp32:~/labs$ git config credential.helper store
```

```
esp32:~/labs$ git push -u origin main
```