



Git : Part 3

Collaborate on GitHub

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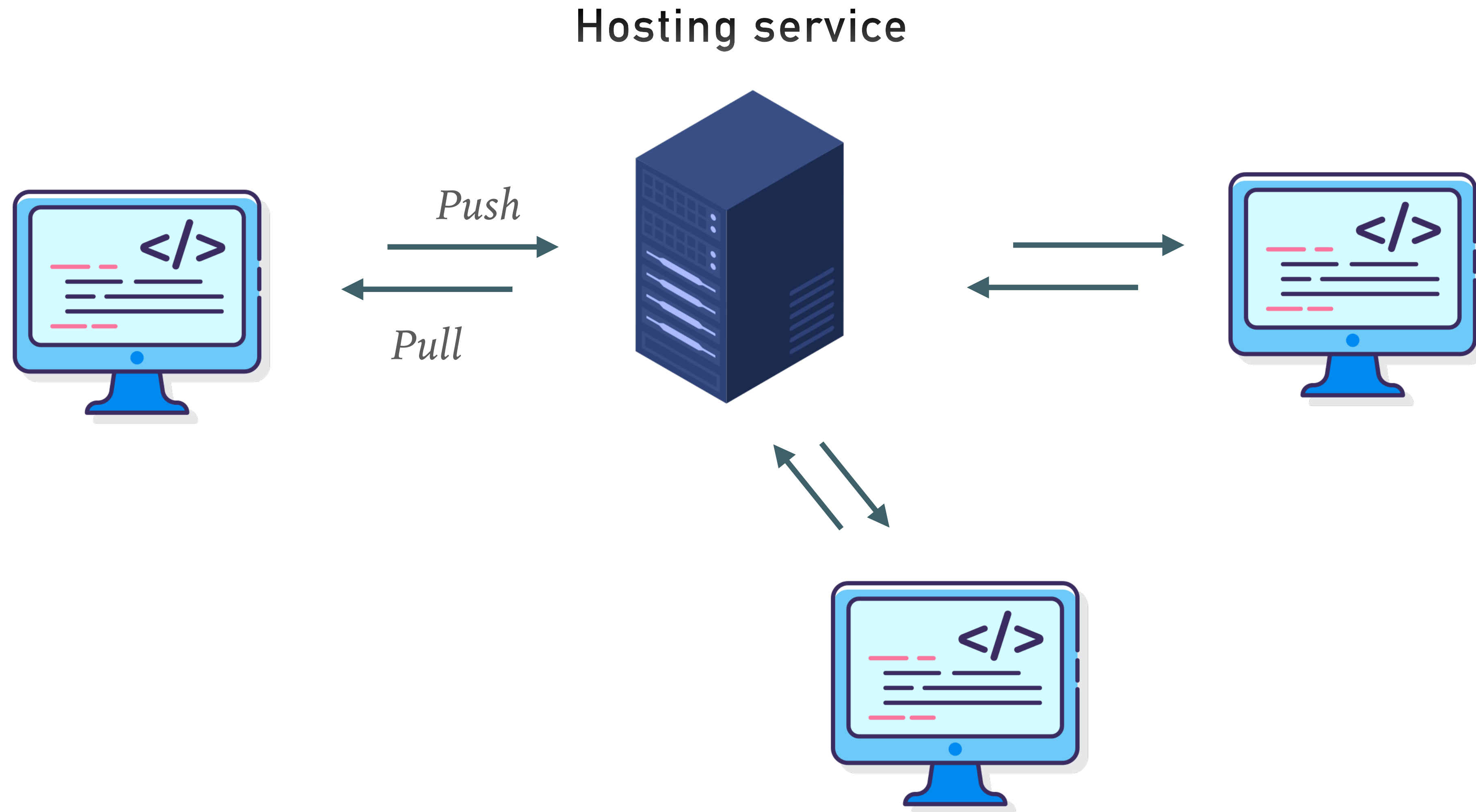
What is Github ?



- ◆ Web hosting service that hosts git projects on the cloud
- ◆ A platform for hosting and collaborating on Git repositories
- ◆ The most used ones are : Github, bitbucket and gitlab.
- ◆ **Github** is the most popular one, it was bought by Microsoft in 2018



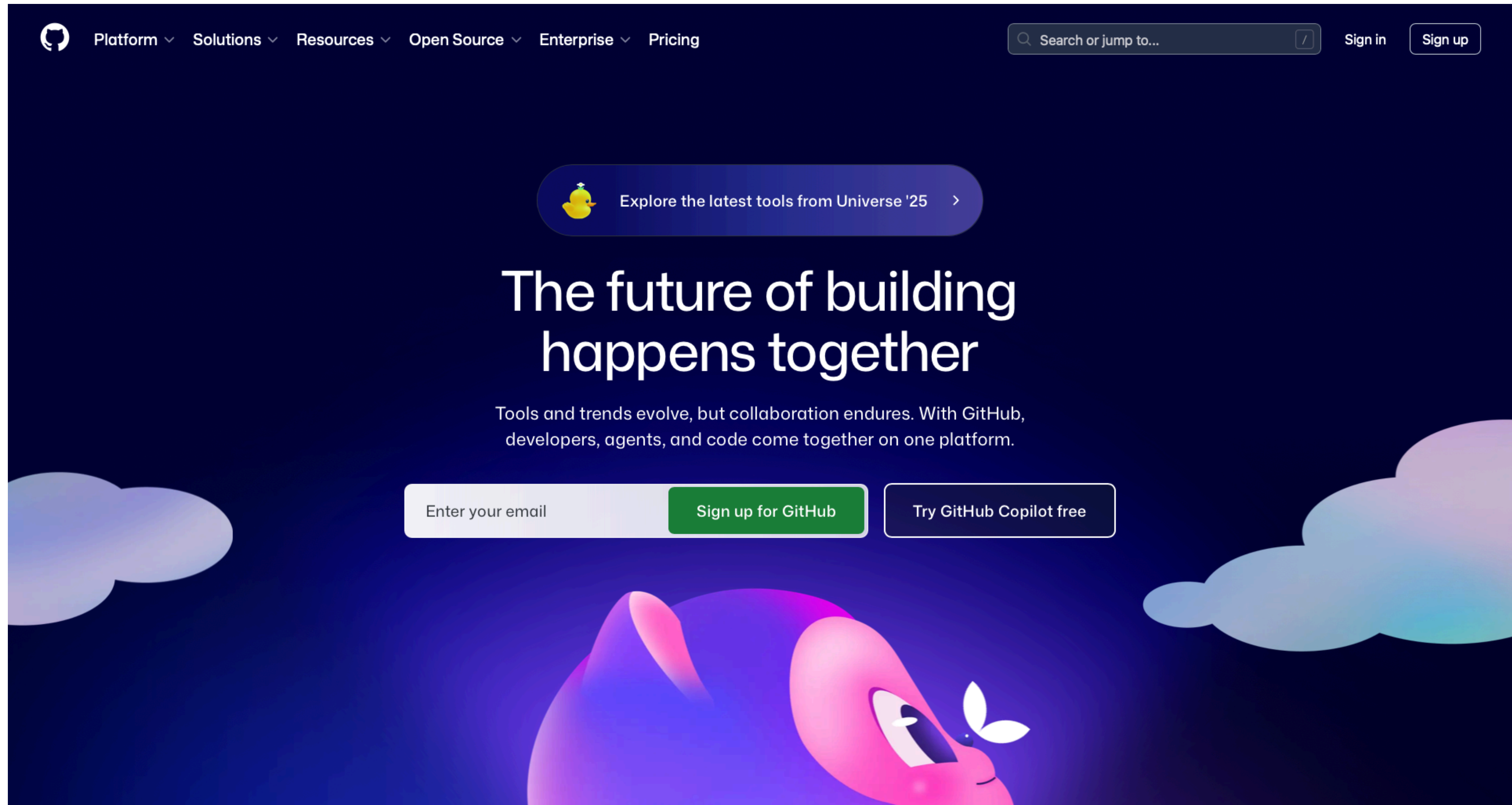
What is Github ?



GITHUB SETUP



Sign up to GitHub



Create a new repository

Create a new repository

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

Owner *

 AmineFrj ▾

Repository name *

my-repo ✓

Great repository names are short and memorable. Need inspiration? How about **probable-adventure**?

Description (optional)

My first repo



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: Python ▾

Choose a license

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

License: None ▾



You are creating a public repository in your personal account.

Create repository



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Initial setup

Quick setup — if you've done this kind of thing before

Set up in Desktop

 or

HTTPS

SSH

https://github.com/AmineFrj/my-repo.git

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend every repository include a [README](#), [LICENSE](#), and [.gitignore](#).

...or create a new repository on the command line

```
echo "# my-repo" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
git remote add origin https://github.com/AmineFrj/my-repo.git
git push -u origin main
```

...or push an existing repository from the command line

```
git remote add origin https://github.com/AmineFrj/my-repo.git
git branch -M main
git push -u origin main
```

...or import code from another repository

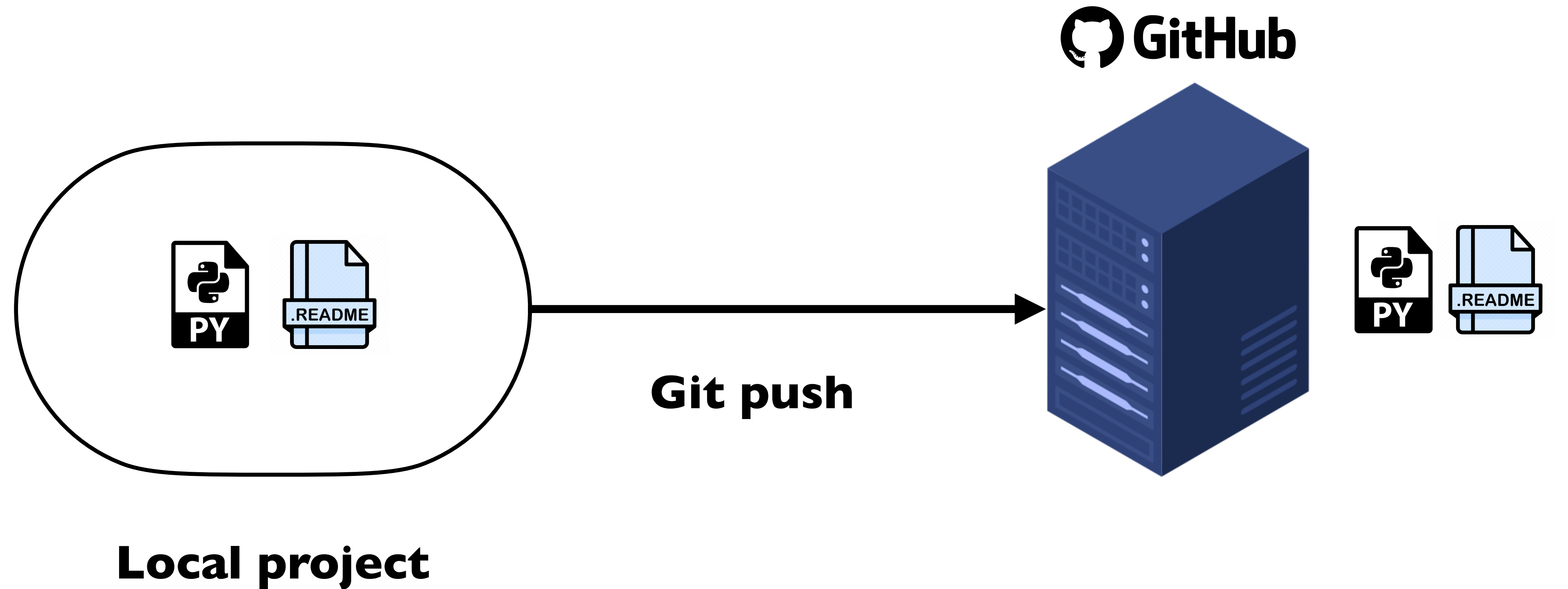
You can initialize this repository with code from a Subversion, Mercurial, or TFS project.

Import code

ProTip! Use the URL for this page when adding GitHub as a remote.

What is a push

Git push sends projects into repository in the cloud



Setup ssh key

- ◆ Since august 2021 GitHub password authentication has been removed and replaced by ssh keys, so you don't have to enter your password multiple times.

```
[macbook-pro-de-amine:hello git amine$ git push -u origin main
Username for 'https://github.com': AmineFrj
[Password for 'https://AmineFrj@github.com':
remote: Support for password authentication was removed on August 13, 2021.
remote: Please see https://docs.github.com/en/get-started/getting-started-with-git/about-remote-repositories#cloning-with-https-urls for information on currently recommended modes of authentication.
fatal: Authentication failed for 'https://github.com/AmineFrj/my-repo.git/'
```

Configure SSH keys

Search or jump to...

Pull requests

Issues

Codespaces

Marketplace

Explore

AmineFrj

my-repo

Public

<> Code

Issues

Pull requests

Actions

Projects

Wiki

Security

Insights

Settings

Pin

Unwatch 1

Fork 0

Quick setup — if you've done this kind of thing before

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Import code

ProTip!

Use the URL for this page when adding GitHub as a remote.

Signed in as AmineFrj

Set status

Your profile

Your repositories

Your projects

Your stars

Your gists

Upgrade

Try Enterprise

Feature preview

Help

Settings

Sign out

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About







Configure SSH keys


 **Amine Ferdjaoui**
Your personal account



Go to your personal profile



-  Public profile
-  Account
-  Appearance
-  Accessibility
-  Notifications

- Access
-  Billing and plans
 -  Emails
 -  Password and authentication
 -  Sessions
 -  **SSH and GPG keys**
 -  Organizations
 -  Moderation

- Code, planning, and automation
-  Repositories
 -  Codespaces
 -  Packages
 -  Copilot
 -  Pages
 -  Saved replies

- Security
-  Code security and analysis

- Integrations
-  Applications
 -  Scheduled reminders

- Archives
-  Security log
 -  Sponsorship log

SSH keys

There are no SSH keys associated with your account.

Check out our guide to [generating SSH keys](#) or troubleshoot [common SSH problems](#).

GPG keys

There are no GPG keys associated with your account.

Learn how to [generate a GPG key and add it to your account](#).

Vigilant mode

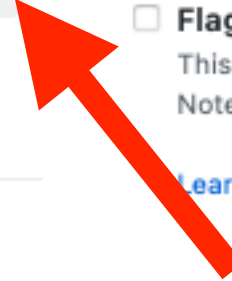
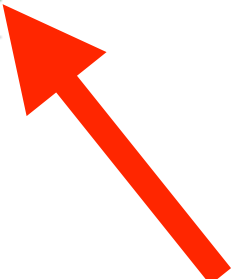
☐ **Flag unsigned commits as unverified**

This will include any commit attributed to your account but not signed with your GPG or S/MIME key. Note that this will include your existing unsigned commits.

[Learn about vigilant mode.](#)

New SSH key

New GPG key



Setup ssh key

- ◆ First check if you have no SSH keys on your computer

```
$ ls -al ~/.ssh
```

- ◆ SSH keys supported by GitHub are :
 - ◆ id_rsa.pub
 - ◆ id_ecdsa.pub
 - ◆ id_ed25519.pub
- ◆ If you already have one just copy it into your GitHub settings, otherwise follow the instructions : <https://docs.github.com/en/authentication/connecting-to-github-with-ssh/generating-a-new-ssh-key-and-adding-it-to-the-ssh-agent>

Setup multiple ssh keys

- ◆ If you have multiple accounts, make sure to add specific key for each one in `~/.ssh/config` then add ssh private keys to your agent with : `ssh-add ~/.ssh/<key-name>`
- ◆ Cf. <https://gist.github.com/oanhnn/80a89405ab9023894df7>