

# **Institut universitaire des sciences**

## **Faculte: I3 /FST**

Etudiante: Evena leamande

Matière : TD/1 système

Date : le 05/11/2025

### **Objectif TD**

L'objectif TD : Se devoir a pour objectif de préparer et configurer l'environnement Git (identité, clé SSH, vérification d'installation) afin d'être prêt à créer, suivre et synchroniser des projets avec Git.

- Initialiser un dépôt local
- Faire des commits
- Générer une clé SSH
- Lier un dépôt local à un dépôt distant GitHub
- Pousser du code en ligne de façon sécurisée

MINGW64:/c/Users/HP

```
HP@client MINGW64 ~
$ git --version
git version 2.51.2.windows.1

HP@client MINGW64 ~
$ git config --global user.email "evenaleamande1@gmail.com"

HP@client MINGW64 ~
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
user.email=evenaleamande1@gmail.com

HP@client MINGW64 ~
$ ls
'3D Objects'/
AppData/
'Application Data'@
Contacts/
Cookies@
Desktop/
Documents/
Downloads/
Favorites/
IntelGraphicsProfiles/
Links/
'Local Settings'@
Music/
'My Documents'@
NTUSER.DAT
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TM.blf
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer00000000000000000000000000000000
1.regtrans-ms
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer00000000000000000000000000000000
2.regtrans-ms
NetHood@
OneDrive/
Pictures/
```



```
MINGW64:/c/Users/HP
'My Documents'@
NTUSER.DAT
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TM.blf
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer00000000000000000000000000000000
1.regtrans-ms
NTUSER.DAT{53b39e88-18c4-11ea-a811-000d3aa4692b}.TMContainer00000000000000000000000000000000
2.regtrans-ms
NetHood@
OneDrive/
Pictures/
PrintHood@
PyCharmMiscProject/
Recent@
'Saved Games'/
Searches/
SendTo@
'Start Menu'@
Templates@
Videos/
ntuser.dat.LOG1
ntuser.dat.LOG2
ntuser.ini

HP@client MINGW64 ~
$ cd Desktop

HP@client MINGW64 ~/Desktop
$ mkdir projet-git

HP@client MINGW64 ~/Desktop
$ cd projet-git

HP@client MINGW64 ~/Desktop/projet-git
$ git init
Initialized empty Git repository in C:/Users/HP/Desktop/projet-git/.git/

HP@client MINGW64 ~/Desktop/projet-git (master)
$ echo "Hello Git!" > README.md

HP@client MINGW64 ~/Desktop/projet-git (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time Git touches it

HP@client MINGW64 ~/Desktop/projet-git (master)
$ git commit -m "premier commit avec powershell"
[master (root-commit) e693e06] premier commit avec powershell
 1 file changed, 1 insertion(+)
 create mode 100644 README.md
```



```
MINGW64:/c/Users/HP
$ git status
On branch master
nothing to commit, working tree clean

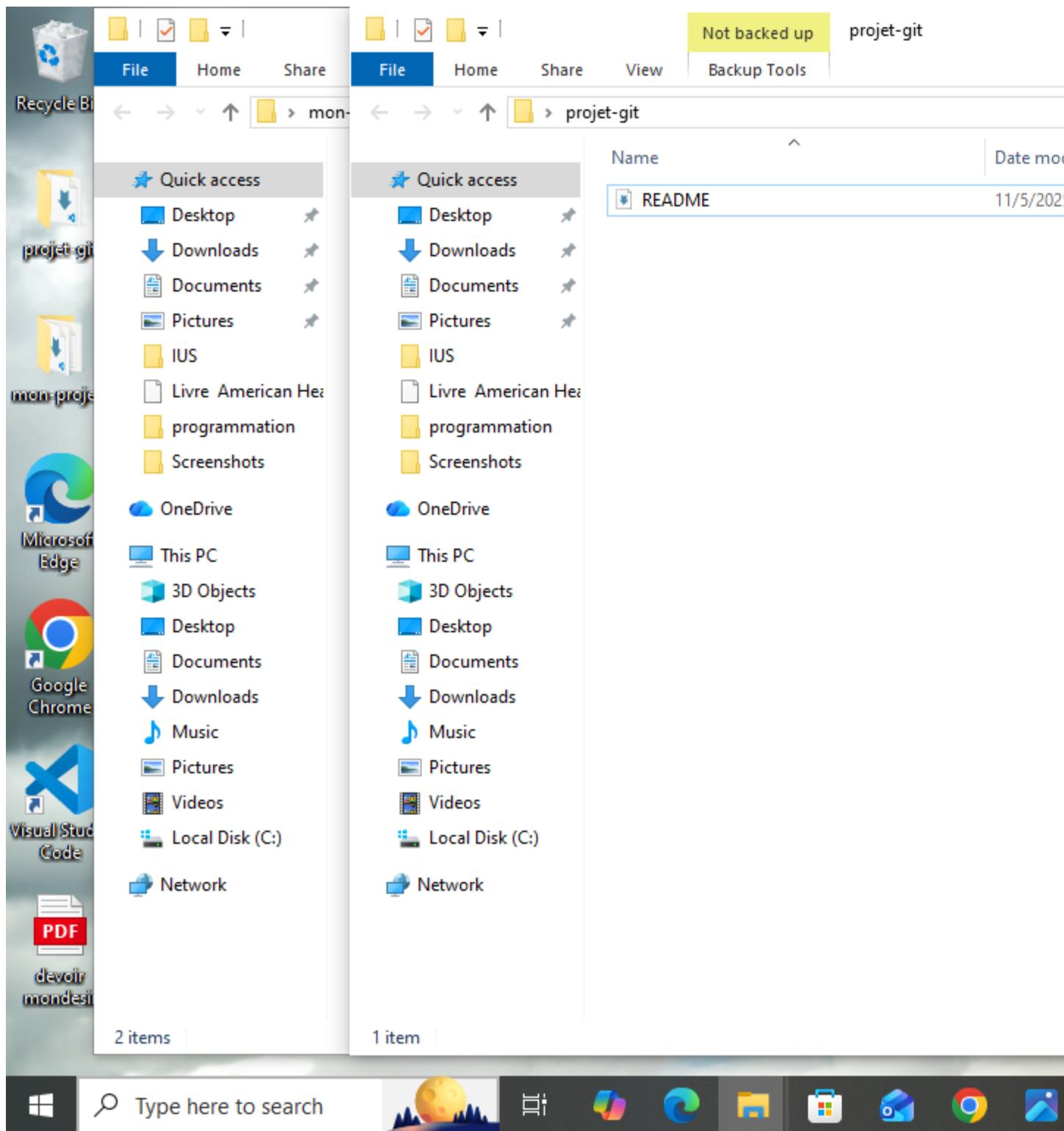
$ git log
commit e693e0662f4d3efd10ff51f566c819090e934b19 (HEAD -> master)
Author: unknown <evenaleamande1@gmail.com>
Date:   Mon Nov 3 10:28:22 2025 -0800

    premier commit avec powershell

$ cd ..

$ ssh-keygen -t ed25519 -C "evenaleamande1@gmail.com"
Generating public/private ed25519 key pair.
Enter file in which to save the key (/c/Users/HP/.ssh/id_ed25519):
Created directory '/c/Users/HP/.ssh'.
Enter passphrase for "/c/Users/HP/.ssh/id_ed25519" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/HP/.ssh/id_ed25519
Your public key has been saved in /c/Users/HP/.ssh/id_ed25519.pub
The key fingerprint is:
SHA256:nUhsB1NOXDVD03JK4i5BDZqRv+Chx5EaAPn0WXug4Sw evenaleamande1@gmail.com
The key's randomart image is:
+--[ED25519 256]--+
|o. ....*+o...o=|
|.... ...*o +...  +|
| o.+ Boo++..o o +|
| E.*=.=+.++.o + .|
| .* +.S o. .|
| o + .|
| .|
| |
+----[SHA256]-----+
$ cat ~/.ssh/id_ed25519
-----BEGIN OPENSSH PRIVATE KEY-----
b3B1bnNzaC1rZXktdjEAAAABG5vbmcUAAAAEbm9uZQAAAAAAAAABAAAAwAAAAtzc2gtZW
```





evenaleamande/mon-projet-vava

github.com/evenaleamande/mon-projet-vava#

evenaleamande / mon-projet-vava

Code Issues Pull requests Actions Projects Wiki Security

## mon-projet-vava

main 1 Branch 0 Tags Go to file

evenaleamande Initial commit

README.md Initial commit

README

Local

Clone

HTTPS SSH Git

git@github.com:evenaleamande/mon-projet-vava

Use a password-protected SSH key

Open with GitHub Desktop

Download ZIP



```
MINGW64:/c/Users/HP
+---[SHA256]---+
HP@client MINGW64 ~
$ cat ~/ssh/id_ed25519.pub
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIOnGq00k0CKeDkKdQC7ui+ESHsnc7mjBGsFbbbauh2U8
evenaleamande1@gmail.com

HP@client MINGW64 ~
$ ssh-keygen -t rsa -b 4096 -C "evenaleamande1@gmail.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/HP/.ssh/id_rsa):
/c/Users/HP/.ssh/id_rsa already exists.
Overwrite (y/n)? y
Enter passphrase for "/c/Users/HP/.ssh/id_rsa" (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/HP/.ssh/id_rsa
Your public key has been saved in /c/Users/HP/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:xt0QL6323FaLD2+q8cdc5qMWTUBKwb0KE+To3dvvXh8 evenaleamande1@gmail.com
The key's randomart image is:
+---[RSA 4096]---+
| ...
| . +
| +. .
| . o= o ..
| ..o+S. o .
| . +Bo o +
| +.oo.= *.E
| . o.+oB.o..
| +o+XB. ...
+---[SHA256]---+
HP@client MINGW64 ~
$ cat ~/ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAQABAAQCAQC9xUpK2NMaUmChBsH0a1k300GImuK8wEQInrBagnIx
i99eu+U08Lz885rotkKkkfQyB7tH7bb65A3y2lQnqHR2d9Xxr10ZNFA7zAYOYpFAZ+7KNFWExRiMvAPn
eetBoM+jTC6ekaMvsSJh0/t+Rhe/ZoP0gyIIKWbdjg55jvaGMXGH5Atdx/BUTDKFt9CLDpbxV5Z9V3cQ
KF5jLx6Ro1g+Quv3RxbgsgWpHaUpJZUy3C0/ci1TRZPUmTTT178XkkCSLfRvP0XcR67puAny2hd8U4iG
DitHmQ4rJfaz8TwFBXcNIth8tj6CHye9hYB1q+zZ4QRRCceuQ1EnJKU+p512cvMh26VQqXncjtUFs2
GpE9L6MxHsKwce3KeGmEprE5BL2we45FMVPGC07cmwR46gQwNSd02Ay1xMAk1BvBJt/pjmqFbsvu3g8L
GRU1wnP7Qk7TdRDbrRtpplNAmuXotRN5izGtdTmP602UTWzh5bY6VVSBUh1nS+6hrclEMPPx1jTvqzx0
i7NlUgtpADuxDtWRCzHSM6i0Gzq3cHIL5HxHaV7n9hJNGjPLV0gJgSaiMhomxSwKrFRy4RZr0c148N+l
VMs9psV2/17HDj8k/DJ/lQzee/zDB3CbjMRzkQXWbt5fIdWtjfwi0/1m3TMTdds3Ndp/+c7yfI/6qR/
Qw== evenaleamande1@gmail.com

HP@client MINGW64 ~
$ ^C

HP@client MINGW64 ~
$ |
```



**En conclusion :** Ce travail pratique m'a permis de découvrir et de comprendre les bases de Git et GitHub à travers l'utilisation de PowerShell.

Grâce à ce devoir, j'ai compris l'importance de Git dans la gestion de versions, la collaboration en équipe et la sauvegarde sécurisée des projets.

C'est une étape essentielle pour tout développeur souhaitant travailler de manière professionnelle et organisée.