



**UNITECH**  
**TIC-HAÏTI-BRH**

# Gestion de Risques Informatiques

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## TP4

### Initialiser un dépôt Git local

1. Crée un dossier mon-projet-git

```
DELL@Mayooh509 MINGW64 ~  
$ mkdir mon-project-git
```

2. Crée un fichier index.txt avec une phrase

```
DELL@Mayooh509 MINGW64 ~  
$ cd mon-project-git
```

```
DELL@Mayooh509 MINGW64 ~/mon-project-git  
$ echo "Bonjour tout le monde" >> index.txt
```

3. Initialise Git et fais un premier commit

```
DELL@Mayooh509 MINGW64 ~/mon-project-git  
$ git init  
Initialized empty Git repository in C:/Users/DELL/mon-project-git/.git/  
  
DELL@Mayooh509 MINGW64 ~/mon-project-git (master)  
$ git add .  
warning: in the working copy of 'index.txt', LF will be replaced by CRLF the next time G  
it touches it  
  
DELL@Mayooh509 MINGW64 ~/mon-project-git (master)  
$ git status  
On branch master  
  
No commits yet  
  
Changes to be committed:  
  (use "git rm --cached <file>..." to unstage)  
    new file:   index.txt  
  
DELL@Mayooh509 MINGW64 ~/mon-project-git (master)  
$ git commit --message "first commit"  
[master (root-commit) alc69d4] first commit  
1 file changed, 1 insertion(+)  
create mode 100644 index.txt  
  
DELL@Mayooh509 MINGW64 ~/mon-project-git (master)  
$ git status  
On branch master  
nothing to commit, working tree clean
```

### Travailler avec l'historique Git

1. Modifie index.txt

```
DELL@Mayooh509 MINGW64 ~/mon-project-git (master)  
$ nano index.txt
```

2. Vérifie les changements

```
DELL@Mayooh509 MINGW64 ~/mon-project-git (master)  
$ git status  
On branch master  
Changes not staged for commit:  
  (use "git add <file>..." to update what will be committed)  
  (use "git restore <file>..." to discard changes in working directory)  
    modified:   index.txt  
  
no changes added to commit (use "git add" and/or "git commit -a")  
  
DELL@Mayooh509 MINGW64 ~/mon-project-git (master)  
$ git diff index.txt  
warning: in the working copy of 'index.txt', LF will be replaced by CRLF the next time G  
it touches it  
diff --git a/index.txt b/index.txt  
index 4b6186d..2269b64 100644  
--- a/index.txt  
+++ b/index.txt  
@@ -1,1 @@  
-Bonjour tout le monde  
+Bonjour tout le monde, vous allez bien?
```

3. Annule les modifications



```

DELL@Mayooh509 MINGW64 ~/mon-project-git (master)
$ git restore index.txt

DELL@Mayooh509 MINGW64 ~/mon-project-git (master)
$ git diff

DELL@Mayooh509 MINGW64 ~/mon-project-git (master)
$ git diff index.txt

DELL@Mayooh509 MINGW64 ~/mon-project-git (master)
$ git status
On branch master
nothing to commit, working tree clean

```

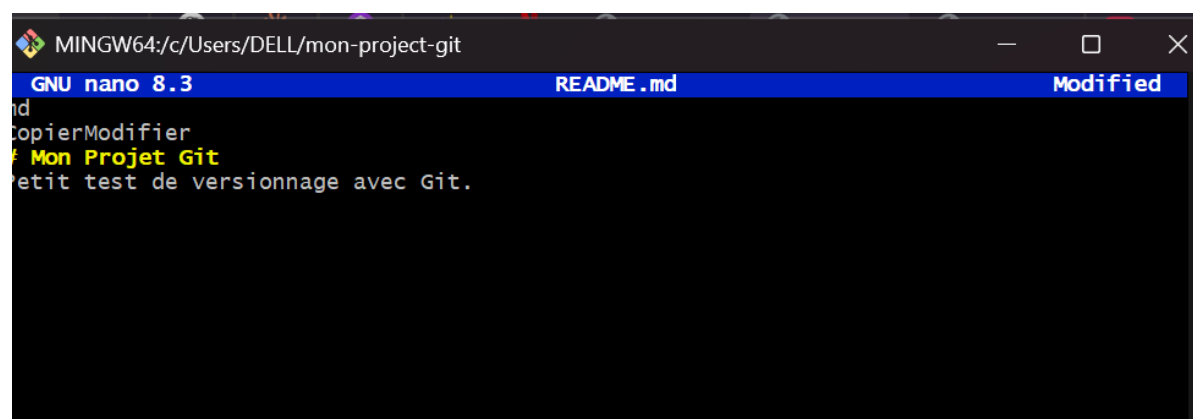
1. Crée un fichier README.md avec :

md

CopierModifier

# Mon Projet Git

Petit test de versionnage avec Git.



The screenshot shows a terminal window with the nano editor open. The file being edited is README.md. The content of the file is as follows:

```

md
CopierModifier
# Mon Projet Git
Petit test de versionnage avec Git.

```

2. Ajoute et committe le fichier

```

DELL@Mayooh509 MINGW64 ~/mon-project-git (master)
$ git add README.md
warning: in the working copy of 'README.md', LF will be replaced by CRLF the next time G
it touches it

DELL@Mayooh509 MINGW64 ~/mon-project-git (master)
$ git commit -m"add readme.md"
[master 2741d4c] add readme.md
1 file changed, 4 insertions(+)
create mode 100644 README.md

```

```

DELL@Mayooh509 MINGW64 ~/mon-project-git (master)
$ git log
commit 2741d4c40c300c48b1a46f84824003bb760e081e (HEAD -> master)
Author: Mayooh509 <lodomafr22@gmail.com>
Date:   Fri May 9 21:19:47 2025 -0400

    add readme.md

commit a1c69d4b8955698530ab6e4ac9d03a9685c75dcc
Author: Mayooh509 <lodomafr22@gmail.com>
Date:   Fri May 9 21:01:39 2025 -0400

    first commit

```

Exercice 4 : Créer un dépôt GitHub et pousser le projet

1. Crée un nouveau repo sur GitHub sans README


## Create a new repository

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

---

*Required fields are marked with an asterisk (\*).*

Owner \*

 mayooh509

Repository name \*

travaux-pratiques-gpi


✔ travaux-pratiques-gpi is available.

Great repository names are short and memorable. Need inspiration? How about **cautious-pancake** ?


Description (optional)

---

☐

 **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:

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

## 2. Ajoute le remote et pousse ton projet

```
DELL@Mayooh509 MINGW64 ~/mon-project-git (main)
$ git remote add origin https://github.com/mayooh509/travaux-pratiques-gri.git
git branch -M main
git push -u origin main
info: please complete authentication in your browser...
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (6/6), 546 bytes | 182.00 KiB/s, done.
Total 6 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/mayooh509/travaux-pratiques-gri.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

## Exercice 5 : Créer une nouvelle branche

### 1. Crée une branche nouvelle-fonction

```
DELL@Mayooh509 MINGW64 ~/mon-project-git (main)
$ git branch nouvelle-fonction
```

### 2. Ajoute un fichier fonctchion.py

```
DELL@Mayooh509 MINGW64 ~/mon-project-git (main)
$ git checkout nouvelle-fonction
Switched to branch 'nouvelle-fonction'

DELL@Mayooh509 MINGW64 ~/mon-project-git (nouvelle-fonction)
$ nano fonctvhion.py
```

### 3. Merge cette branche dans main

```
DELL@Mayooh509 MINGW64 ~/mon-project-git (nouvelle-fonction)
$ git add fonctvhion.py
warning: in the working copy of 'fonctvhion.py', LF will be replaced by CRLF the next time Git touches it

DELL@Mayooh509 MINGW64 ~/mon-project-git (nouvelle-fonction)
$ git commit -m"ajouter fonctvhion.py"
[nouvelle-fonction 26239ea] ajouter fonctvhion.py
1 file changed, 1 insertion(+)
create mode 100644 fonctvhion.py

DELL@Mayooh509 MINGW64 ~/mon-project-git (nouvelle-fonction)
$ git status
On branch nouvelle-fonction
nothing to commit, working tree clean

DELL@Mayooh509 MINGW64 ~/mon-project-git (nouvelle-fonction)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

DELL@Mayooh509 MINGW64 ~/mon-project-git (main)
$ git merge nouvelle-fonction
Updating 2741d4c..26239ea
Fast-forward
 fonctvhion.py | 1 +
1 file changed, 1 insertion(+)
create mode 100644 fonctvhion.py
```

# Exercice 6 : Gérer un conflit

Objectif : Apprendre à résoudre un conflit Git.

Énoncé :

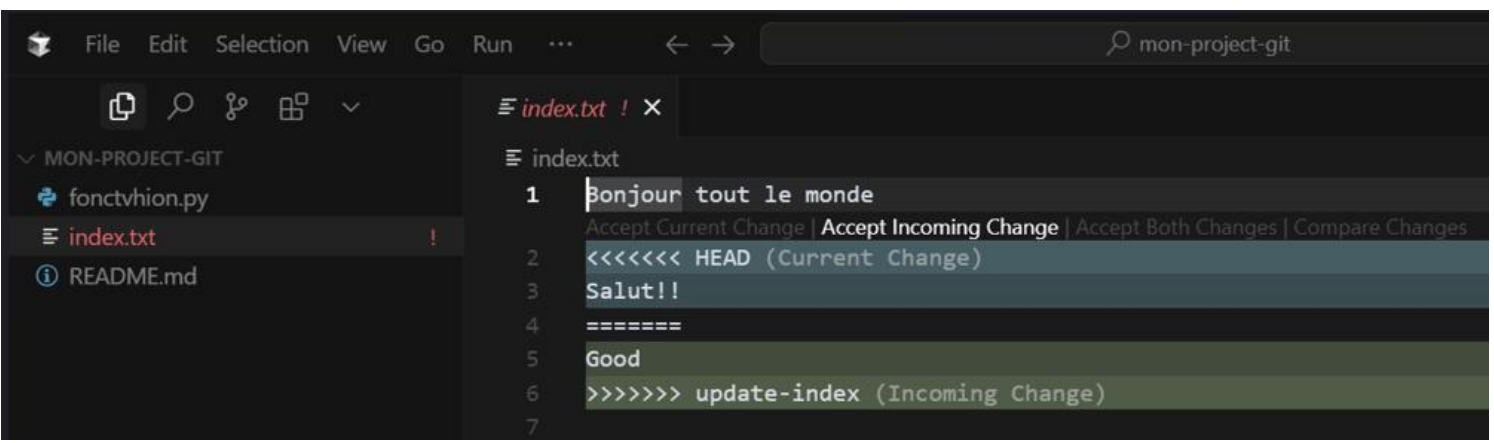
1. Sur main, ajoute une ligne à index.txt

```
MINGW64:/c/Users/DELL/mon-project-git
GNU nano 8.3 index.txt
Bonjour tout le monde
Good mornning!
```

2. Sur une autre branche update-index, modifie la même ligne

```
MINGW64:/c/Users/DELL/mon-project-git
GNU nano 8.3 index.txt
Bonjour tout le monde
mornning!
```

```
DELL@Mayooh509 MINGW64 ~/mon-project-git (main)
$ git merge update-index
Auto-merging index.txt
CONFLICT (content): Merge conflict in index.txt
Automatic merge failed; fix conflicts and then commit the result.
```



Lien du repository : <https://github.com/mayooh509/travaux-pratiques-gpi.git>

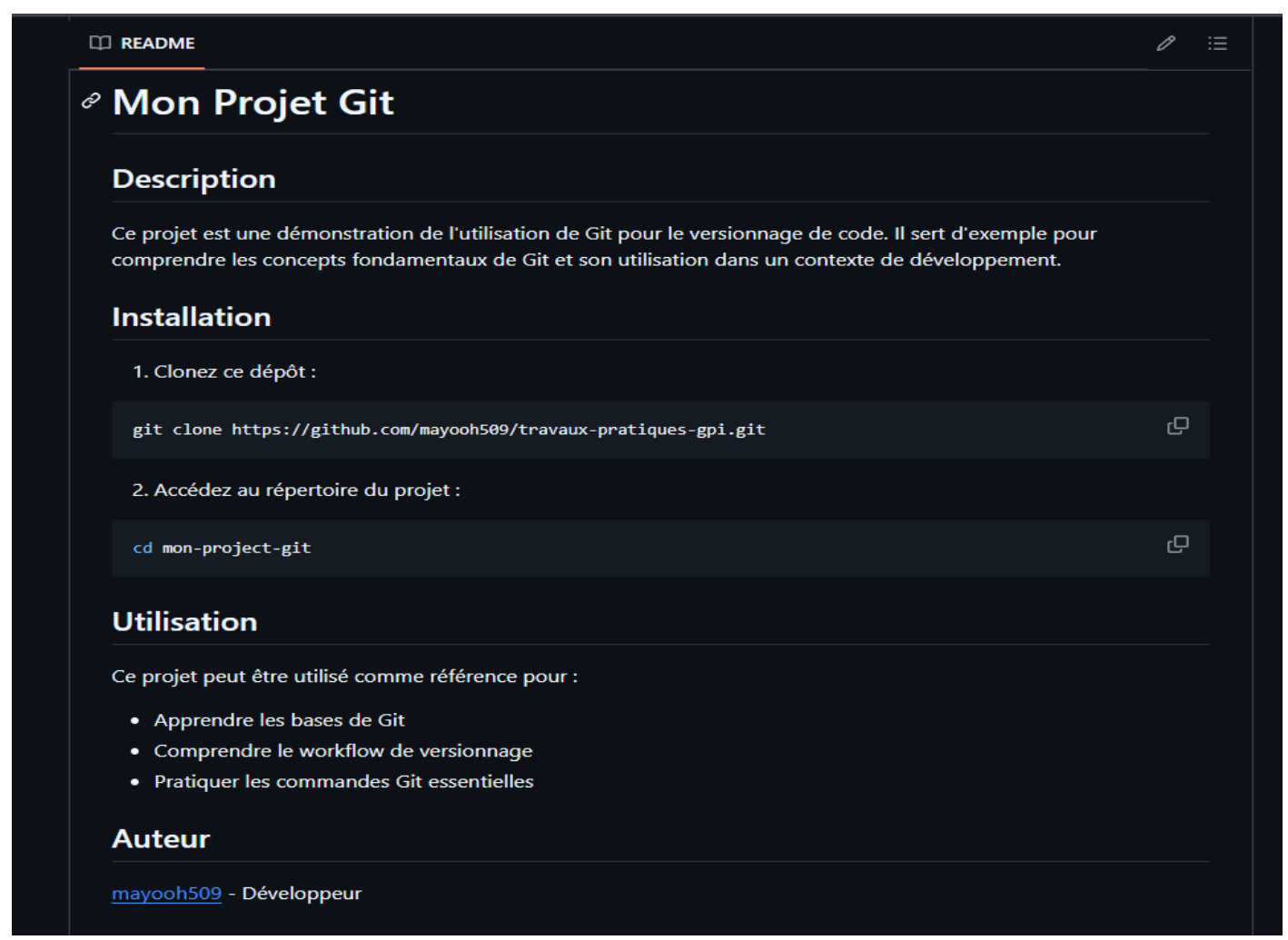
# Exercice 7 : Améliorer le README.md

Objectif : Rédiger un README plus professionnel.

Énoncé :

Ajoute les sections suivantes :

## Description-Installation-Utilisation-Auteur



## TP5

### Exercice 1 : Initialiser un dépôt Git

Objectif : Créer un dépôt local et ajouter un fichier

Créer un dossier ex1\_init\_repo

```
DELL@Mayooh509 MINGW64 ~  
$ mkdir ex1_init_repo
```

Ajouter un fichier README.md contenant une description

```
DELL@Mayooh509 MINGW64 ~  
$ cd ex1_init_repo/
```

```
MINGW64:/c/Users/DELL/ex1_init_repo  
GNU nano 8.3 README.md  
Buenos Días
```

### Initialisation du depot git

```
MINGW64:/c/Users/DELL/ex1_init_repo  
DELL@Mayooh509 MINGW64 ~/ex1_init_repo  
$ git init  
Initialized empty Git repository in C:/Users/DELL/ex1_init_repo/.git/  
DELL@Mayooh509 MINGW64 ~/ex1_init_repo (master)  
$ git add .  
warning: in the working copy of 'README.md', LF will be replaced by CRLF  
the next time Git touches it  
DELL@Mayooh509 MINGW64 ~/ex1_init_repo (master)  
$ git status  
On branch master  
  
No commits yet  
  
Changes to be committed:  
  (use "git rm --cached <file>..." to unstage)  
    new file:   README.md  
  
DELL@Mayooh509 MINGW64 ~/ex1_init_repo (master)  
$ git commit -m "Premier commit"  
[master (root-commit) 1b3e6e1] Premier commit  
 1 file changed, 1 insertion(+)  
 create mode 100644 README.md  
  
DELL@Mayooh509 MINGW64 ~/ex1_init_repo (master)  
$ git status  
On branch master  
nothing to commit, working tree clean
```

### Exercice 2 : Suivre les modifications d'un fichier

Modifier plusieurs fois note.txt

```
MINGW64:/c/Users/DELL/ex1_init_repo  
GNU nano 8.3 note.txt  
are you fine
```

### Exercice 3 : Consulter l'historique des changements

Objectif : Utiliser log



```

DELL@Mayooh509 MINGW64 ~/ex1_init_repo (master)
$ git log
commit 9c1297c760f53182f604ba7f2906ce6fc2eb6907 (HEAD -> master)
Author: mayooh509 <lodomafr22@gmail.com>
Date: Sat May 10 18:54:13 2025 -0400

    deuxieme modification de are you well en are you fine

commit 5151918a2e310c75ca0cf9a24cc00bd06241fa5b
Author: mayooh509 <lodomafr22@gmail.com>
Date: Sat May 10 18:52:50 2025 -0400

    modifier how are you en are you well? dans note.txt

commit d029edea15b6e073dea66d7f916d7c1d179d6cd8
Author: mayooh509 <lodomafr22@gmail.com>
Date: Sat May 10 18:50:02 2025 -0400

    ajouter how are you dans note.txt

commit 1b3e6e1f8cd73a56dfdabf76ac61da927c42c4fc
Author: mayooh509 <lodomafr22@gmail.com>
Date: Sat May 10 18:44:12 2025 -0400

    Premier commit

```

show

```

DELL@Mayooh509 MINGW64 ~/ex1_init_repo (master)
$ git show
commit 9c1297c760f53182f604ba7f2906ce6fc2eb6907 (HEAD -> master)
Author: mayooh509 <lodomafr22@gmail.com>
Date: Sat May 10 18:54:13 2025 -0400

    deuxieme modification de are you well en are you fine

diff --git a/note.txt b/note.txt
index 03c0e4a..1dfa2cc 100644
--- a/note.txt
+++ b/note.txt
@@ -1,1 @@
-are you well?
+are you fine

```

blame

```

DELL@Mayooh509 MINGW64 ~/ex1_init_repo (master)
$ git blame note.txt
9c1297c7 (mayooh509 2025-05-10 18:54:13 -0400 1) are you fine

```

## Exercice 4 : Annuler des changements

### Annuler avant le commit

```

DELL@Mayooh509 MINGW64 ~/ex1_init_repo (master)
$ nano note.txt

DELL@Mayooh509 MINGW64 ~/ex1_init_repo (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
        modified:   note.txt

no changes added to commit (use "git add" and/or "git commit -a")

DELL@Mayooh509 MINGW64 ~/ex1_init_repo (master)
$ git restore note.txt

DELL@Mayooh509 MINGW64 ~/ex1_init_repo (master)
$ git status
On branch master
nothing to commit, working tree clean

```

## Exercice 5 : Lier un dépôt local à GitHub

<https://github.com/mayooh509/ex1-init-repo.git>

### Push vers GitHub

```

1 DELL@Mayooh509 MINGW64 ~/ex1_init_repo (main)
2 $ git remote add origin https://github.com/mayooh509/ex1-init-repo.git
3
4 DELL@Mayooh509 MINGW64 ~/ex1_init_repo (main)
5 $ git branch -M main
6 git push -u origin main
7 Enumerating objects: 12, done.
8 Counting objects: 100% (12/12), done.
9 Delta compression using up to 8 threads
10 Compressing objects: 100% (7/7), done.
11 Writing objects: 100% (12/12), 1.04 KiB | 212.00 KiB/s, done.
12 Total 12 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
13 To https://github.com/mayooh509/ex1-init-repo.git
14 * [new branch]      main -> main
15 branch 'main' set up to track 'origin/main'.

```