

LAPORAN PRAKTIKUM

TEKNOLOGI CLOUD

Pertemuan 1



DISUSUN OLEH :

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Nama : Isna Budiarti Utami

Prodi : Sistem Informasi

UNIVERSITAS TEKNOLOGI DIGITAL INDONESIA

2021/2022

BAB I

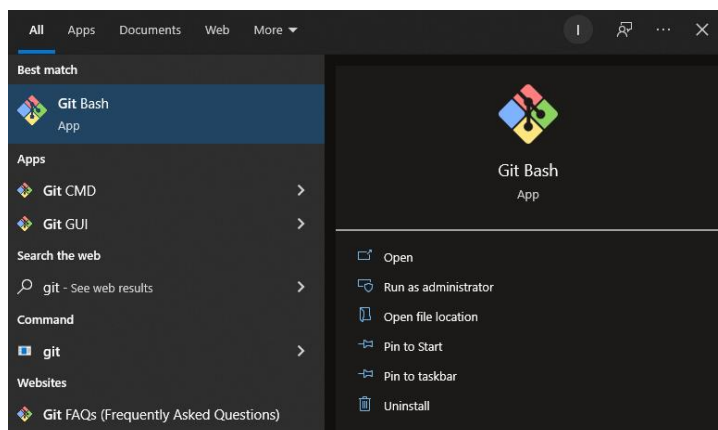
PEMBAHASAN LATIHAN

Materi RTFM di Repo STMIK Akakom

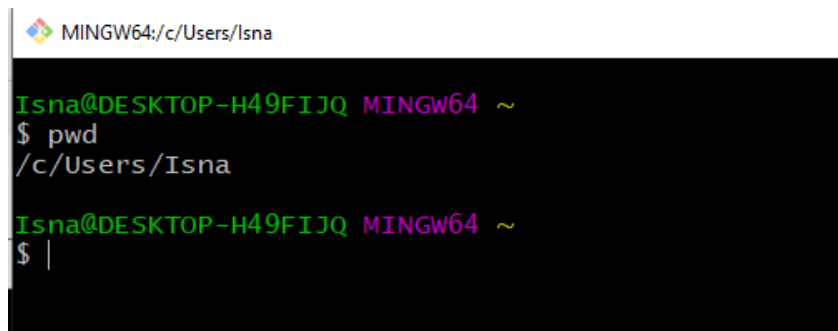
1. Instalasi Git

Untuk proses instalasi Git pada perkuliahan semester lalu sebenarnya sudah dilakukan sehingga disini untuk gambarnya mulai dari nomor 13 untuk membuka Git Bash nya.

- 1) Setelah download Git, double click pada file yang di download. Muncullah lisensi Git kemudian klik Next
- 2) Memilih lokasi instalasi secara default C:\Program Files\Git. Lokasi bisa diganti dan dilanjutkan dengan klik Next.
- 3) Memilih komponen
- 4) Mengisi shortcut untuk menu Start.
- 5) Memilih editor yang akan digunakan bersama Git. Disini saya memilih Visual Studio Code.
- 6) Memilih antarmuka untuk akses git.
- 7) Pilih OpenSSL untuk HTTPS.
- 8) Pilih pilihan pertama untuk konversi akses baris.
- 9) Pilih PuTTY untuk terminal yang digunakan untuk mengakses Git Bash
- 10) Untuk opsi ekstra, pilih serta aktifkan 1 dan 2.
- 11) Kemudian dilakukan proses instalasi.
- 12) Muncul dialog pemberitahuan jika proses instalasi telah selesai, klik Finish.
- 13) Untuk menjalankannya, klik Start menu dan ketikkan Git. Maka akan muncul seperti berikut.



14) Tampilan jika akan menggunakan Git Bash

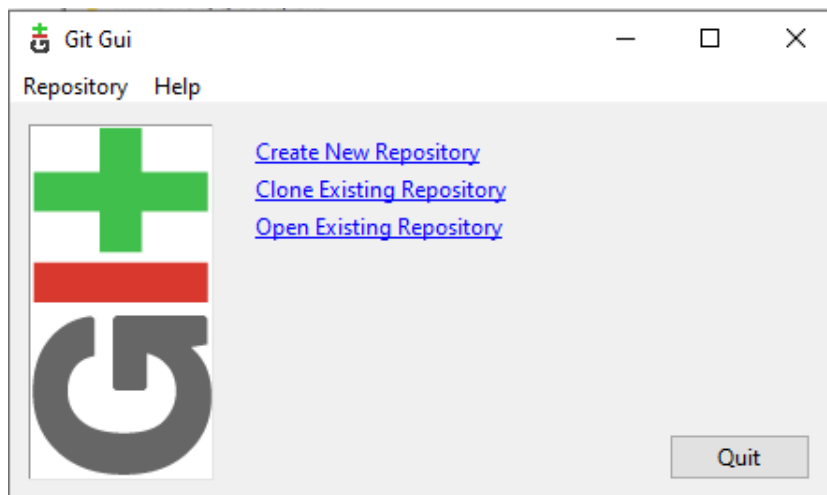


```
MINGW64:/c/Users/Isna

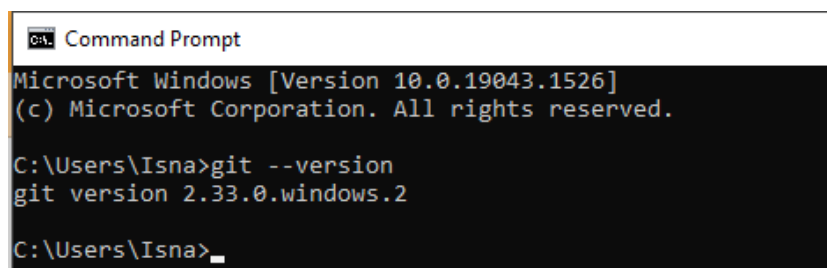
Isna@DESKTOP-H49FIJQ MINGW64 ~
$ pwd
/c/Users/Isna

Isna@DESKTOP-H49FIJQ MINGW64 ~
$ |
```

15) Tampilan jika menggunakan Git GUI



16) Mencoba dari command prompt.



```
Command Prompt

Microsoft Windows [Version 10.0.19043.1526]
(c) Microsoft Corporation. All rights reserved.

C:\Users\Isna>git --version
git version 2.33.0.windows.2

C:\Users\Isna>_
```

2. Konfigurasi Git

```
Isna@DESKTOP-H49FIJQ MINGW64 ~  
$ git config --global user.name "isnabudiarti"  
  
Isna@DESKTOP-H49FIJQ MINGW64 ~  
$ git config --global user.email isnabudiarty@gmail.com  
  
Isna@DESKTOP-H49FIJQ MINGW64 ~  
$ git config --list  
diff.astextplain.textconv=astextplain  
http.sslbackend=openssl  
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt  
core.autocrlf=true  
core.fscache=true  
core.symlinks=false  
credential.helper=manager-core  
pull.rebase=false  
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  
credential.https://dev.azure.com.usehttppath=true  
init.defaultbranch=master  
user.name=isnabudiarti  
user.email=isnabudiarty@gmail.com  
core.editor="C:\\Users\\Isna\\AppData\\Local\\Programs\\Microsoft VS Code\\Code.exe" --wait  
  
Isna@DESKTOP-H49FIJQ MINGW64 ~  
$
```

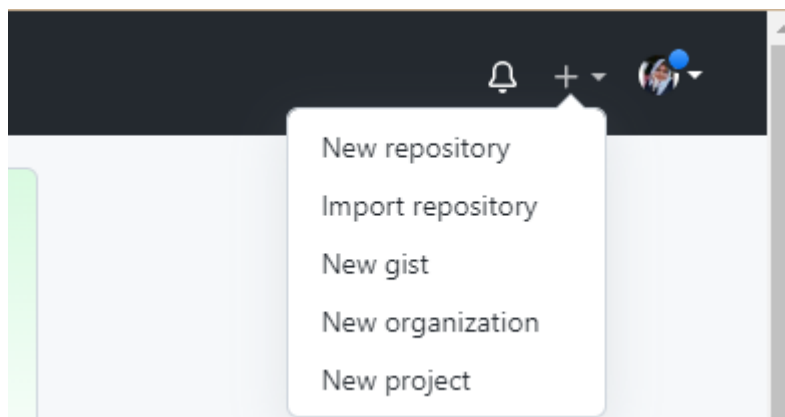
Penjelasan :

Pada semester sebelumnya saya sudah melakukan konfigurasi git sehingga tampilan saat sekarang melakukan konfigurasi git hasilnya seperti pada gambar di atas.

3. Mengelola Repo Sendiri

Membuat Repo



- 1) Klik tanda + pada bagian atas setelah login, kemudian pilih New repository.



2) Isikan nama, keterangan, serta lisensi. Jika dikehendaki, bisa membuat repo Private

Create a new repository



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

Owner *  isnabudiarti / Repository name * first-project 

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

Description (optional)

My first project

- ☒  **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.](#)

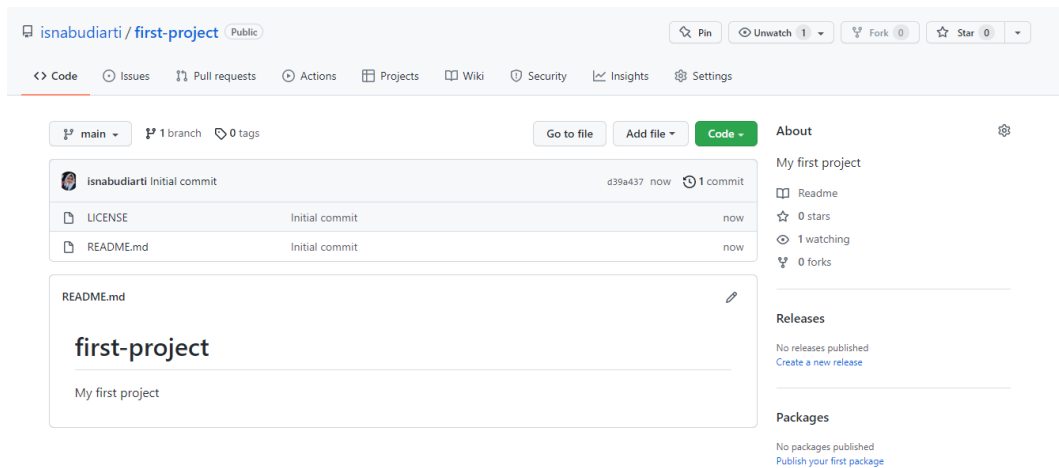
☒ **Choose a license**
A license tells others what they can and can't do with your code. [Learn more.](#)

License: MIT License ▾

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

Create repository

3) Klik Create repository



The screenshot shows the GitHub interface for a newly created repository named 'first-project' by user 'isnabudiarti'. The repository is public. The main content area shows the 'README.md' file with the title 'first-project' and the description 'My first project'. The commit history shows an 'Initial commit' with files 'LICENSE' and 'README.md'. The right sidebar contains sections for 'About' (My first project, 0 stars, 1 watching, 0 forks), 'Releases' (No releases published, Create a new release), and 'Packages' (No packages published, Publish your first package).

Clone Repo

MINGW64:/d/ISNA/Semester 6/Tekno Cloud Praktikum

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum
$ git clone https://github.com/isnabudiarti/first-project
Cloning into 'first-project'...
remote: Enumerating objects: 4, done.
remote: Counting objects: 100% (4/4), done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 4 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (4/4), done.

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum
$ |
```

This PC > New Volume (D:) > ISNA > Semester 6 > Tekno Cloud Praktikum

	Name	Date modified	Type	Size
ss	first-project	16/02/2022 19:31	File folder	
e	Laporan	16/02/2022 19:34	File folder	
tos				

This PC > New Volume (D:) > ISNA > Semester 6 > Tekno Cloud Praktikum > first-project >

	Name	Date modified	Type	Size
ss	.git	16/02/2022 19:31	File folder	
e	LICENSE	16/02/2022 19:31	File	2 KB
tos	README.md	16/02/2022 19:31	Markdown Source...	1 KB

Mengelola Repo di Account Sendiri

MINGW64/d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project

first-project

my first project

README.md [dos] (19:31 16/02/2022) 1,1 All

```
MINGW64:/d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project
# first-project
My first project

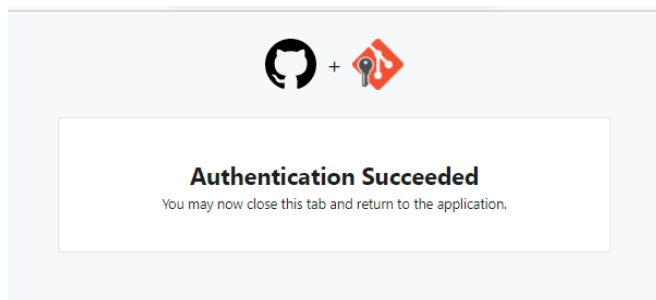
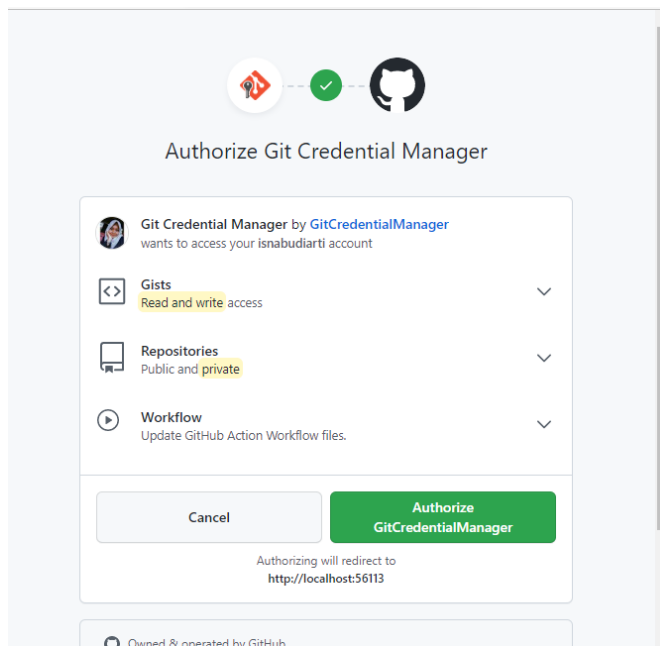
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .README.md.swo
        .README.md.swp

nothing added to commit but untracked files present (use "git add" to track)

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git add -A

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git commit -m "Add: README.md"
[main b040847] Add: README.md
2 files changed, 0 insertions(+), 0 deletions(-)
create mode 100644 .README.md.swo
create mode 100644 .README.md.swp
```



```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 636 bytes | 318.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/isnabudiarti/first-project
d39a437..b040847 main -> main

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$
```


isnabudiarti / first-project (Public)

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

main 1 branch 0 tags

Go to file Add file Code

About

My first project

Readme

MIT License

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

isnabudiarti Add: README.md b040847 9 minutes ago 2 commits

.README.md.swo	Add: README.md	9 minutes ago
.README.md.swp	Add: README.md	9 minutes ago
LICENSE	Initial commit	2 hours ago
README.md	Initial commit	2 hours ago

README.md

first-project

My first project

Mengubah Isi dengan Branching and Merging

```
MINGW64:/d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (edit-readme-1)
$ cat README.md
# first-project
My first project

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (edit-readme-1)
$ git status
On branch edit-readme-1
Untracked files:
  (use "git add <file>..." to include in what will be committed)
        .README.md.swn

nothing added to commit but untracked files present (use "git add" to track)

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (edit-readme-1)
$ git add -A

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (edit-readme-1)
$ git commit -m "Add: isi README.md"
[edit-readme-1 854b59d] Add: isi README.md
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 .README.md.swn

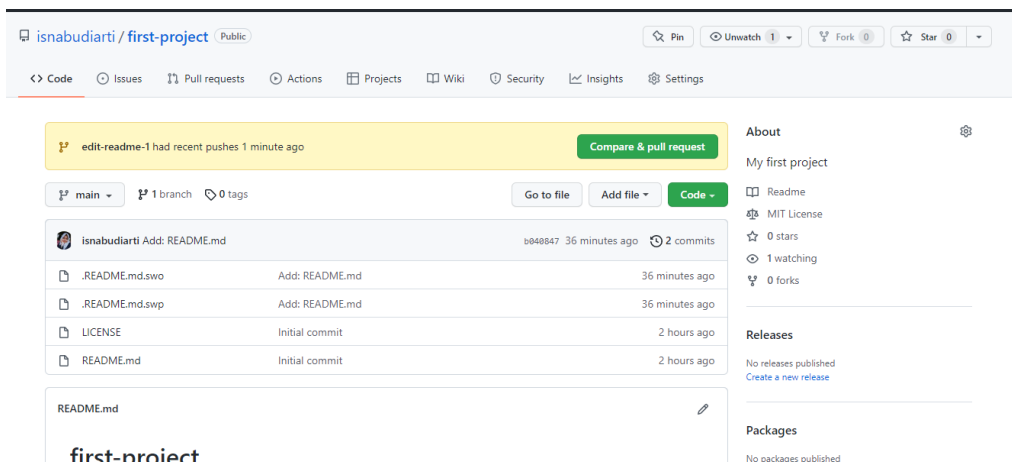
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (edit-readme-1)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.
```

```

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ git push origin edit-readme-1
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 534 bytes | 534.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local objec
t.
remote:
remote: Create a pull request for 'edit-readme-1' on GitHub by vis
iting:
remote:      https://github.com/isnabudiarti/first-project/pull/ne
w/edit-readme-1
remote:
To https://github.com/isnabudiarti/first-project
 * [new branch]      edit-readme-1 -> edit-readme-1

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$

```



isnabudiarti / first-project (Public)

edit-readme-1 had recent pushes 1 minute ago [Compare & pull request](#)

main 1 branch 0 tags [Go to file](#) [Add file](#) [Code](#)

Commit	Message	Time	Commits
isnabudiarti	Add: README.md	b040847 36 minutes ago	2 commits
	.README.mmd.swo Add: README.md	36 minutes ago	
	.README.mmd.swp Add: README.md	36 minutes ago	
	LICENSE Initial commit	2 hours ago	
	README.mmd Initial commit	2 hours ago	

README.mmd

first-proiect

About

My first project

Readme

MIT License

0 stars

1 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages


No packages published

Setelah itu, kirim pull request

Open a pull request

Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base: main ← compare: edit-readme-1 ✓ **Able to merge.** These branches can be automatically merged.

 Add: isi README.md

Write Preview



Menambahkan isi README.md

Attach files by dragging & dropping, selecting or pasting them.


[Create pull request](#)

Kemudian, dapat di merge :



Add: isi README.md #1

 **Open** isnabudiarti wants to merge 1 commit into `main` from `edit-readme-1` 


Conversation **0** Commits **1** Checks **0** Files changed **1**


 isnabudiarti commented 35 minutes ago Owner 😊 ⋮


Menambahkan isi README.md


  Add: isi README.md 854b59d

Add more commits by pushing to the `edit-readme-1` branch on [isnabudiarti/first-project](#).




 **Continuous integration has not been set up**
[GitHub Actions](#) and [several other apps](#) can be used to automatically catch bugs and enforce style.

 **This branch has no conflicts with the base branch**
Merging can be performed automatically.

Merge pull request  You can also [open this in GitHub Desktop](#) or view [command line instructions](#).

Setelah itu Confirm merge :

Add more commits by pushing to the `edit-readme-1` branch on [isnabudiarti/first-project](#).





Merge pull request #1 from isnabudiarti/edit-readme-1


Add: isi README.md

Confirm merge **Cancel**



Add: isi README.md #1



 **Merged** isnabudiarti merged 1 commit into `main` from `edit-readme-1`  now


Conversation **0** Commits **1** Checks **0** Files changed **1**

 isnabudiarti commented 38 minutes ago Owner 😊 ⋮

Menambahkan isi README.md


  Add: isi README.md 854b59d










  isnabudiarti merged commit 3fd9bba into `main` now **Revert**



Pull request successfully merged and closed **Delete branch**

You're all set—the `edit-readme-1` branch can be safely deleted.



Write Preview H B I         

```

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ git merge edit-readme-1
Updating b040847..854b59d
Fast-forward
 .README.md.swn | Bin 0 -> 12288 bytes
 1 file changed, 0 insertions(+), 0 deletions(-)
 create mode 100644 .README.md.swn

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ git branch -D edit-readme-1
Deleted branch edit-readme-1 (was 854b59d).

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ git branch
* main

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ |

```

```

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ git pull
remote: Enumerating objects: 1, done.
remote: Counting objects: 100% (1/1), done.
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (1/1), 633 bytes | 16.00 KiB/s, done.
From https://github.com/isnabudiarti/first-project
   b040847..3fd9bba  main       -> origin/main
Updating 854b59d..3fd9bba
Fast-forward

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$

```

Git pull digunakan untuk melakukan sinkronisasi ke komputer lokal. Perintah git pull dikerjakan pada direktori tempat repo lokal berada.

Membatalkan Perubahan

Dengan membuat branch saat melakukan perubahan, jika ada perubahan yang sudah kacau maka kekacauan tersebut dapat dihilangkan dan kembali ke kondisi semula

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git checkout -b edit-readme-2
Switched to a new branch 'edit-readme-2'

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (edit-readme-2)
$ cat README.md
# first-project
My first project. Agak Susah bestie

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (edit-readme-2)
$ git checkout main
Switched to branch 'main'
M   README.md
Your branch is up to date with 'origin/main'.

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ cat README.md
# first-project
My first project. Agak Susah bestie

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git branch -D edit-readme-2
Deleted branch edit-readme-2 (was 3fd9bba).

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git branch
* main
```

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ cat README.md
# first-project
My first project. Agak Susah bestie

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git reset --hard
HEAD is now at 3fd9bba Merge pull request #1 from isnabudiarti/edit-readme-1

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ cat README.md
# first-project
My first project

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$
```

Pada edit-readme-2 ini dilakukan perubahan pengeditan kemudian dilakukan perubahan lagi untuk kembali seperti semula.

Undo Commit Terakhir

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ cat README.md
# first-project
My first project

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git log --oneline
3fd9bba (HEAD -> main, origin/main, origin/HEAD) Merge pull request #1 from isnabudiarti/edit-readme-1
854b59d (origin/edit-readme-1) Add: isi README.md
b040847 Add: README.md
d39a437 Initial commit

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ |
```

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git add -A

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git commit -m "Add: contents"
[main 64a6064] Add: contents
1 file changed, 2 insertions(+)

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 285 bytes | 95.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/isnabudiarti/first-project
3fd9bba..64a6064 main -> main

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ |
```

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git add -A

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git commit -m "Add: contents - 2"
[main 0ce9afd] Add: contents - 2
1 file changed, 3 insertions(+), 1 deletion(-)

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 289 bytes | 289.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/isnabudiarti/first-project
64a6064..0ce9afd main -> main
```

```

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ cat README.md
# first-project
My first project

Isi 1

Isi 2
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ |

```

Setelah itu, kita akan mengembalikan ke posisi terakhir sebelum commit terakhir dengan perintah git revert HEAD. Perintah tersebut akan membuka editor dan disana kita bisa mengetikkan revert lalu simpan.

```

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ git revert HEAD
hint: Waiting for your editor to close the file...
[main 52d81c7] revert Revert "Add: contents - 2"
 1 file changed, 1 insertion(+), 3 deletions(-)

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ |

```

Selanjutnya, push ke repo GitHub.

```

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ git push origin main
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (2/2), done.
Writing objects: 100% (3/3), 318 bytes | 318.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local objec
t.
To https://github.com/isnabudiarti/first-project
 0ce9afd..52d81c7  main -> main

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$ cat README.md
# first-project
My first project

Isi 1
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/first-project (main)
$

```

Jika commit sudah dilakukan, tetapi belum di push ke repo GitHub (masih berada di lokal), cara membatalkannya :

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git status
On branch main
Your branch is ahead of 'origin/main' by 1 commit.
  (use "git push" to publish your local commits)

nothing to commit, working tree clean

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git log --oneline
737f8dd (HEAD -> main) Add: isi tambahan 1
52d81c7 (origin/main, origin/HEAD) revert Revert "Add: contents - 2"
0ce9afd Add: contents - 2
64a6064 Add: contents
3fd9bba Merge pull request #1 from isnabudiarti/edit-readme-1
854b59d (origin/edit-readme-1) Add: isi README.md
b040847 Add: README.md
d39a437 Initial commit
```

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git reset --hard HEAD^
HEAD is now at 52d81c7 revert Revert "Add: contents - 2"

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ git status
On branch main
Your branch is up to date with 'origin/main'.

nothing to commit, working tree clean

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ cat README.md
# first-project
My first project

Isi 1
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/first-project (main)
$ |
```

Untuk melakukan perubahan pada saat yang sudah lama, yang perlu dilakukan adalah dengan perintah `git revert <posisi>` kemudian mengedit secara manual kemudian di push ke repo.

Membuat rangkuman

Komputasi awan merupakan ketersediaan sumber daya sistem komputer berdasarkan permintaan, terutama penyimpanan data (penyimpanan awan) dan daya komputasi, tanpa pengelolaan aktif langsung oleh pengguna.

A. Sejarah

- Tahun 1960-an, konsep time-sharing dipopulerkan melalui RJE (Remote Job Entry), yang berkaitan dengan vendor besar seperti IBM dan DEC.
- Tahun 1970-an tersedia solusi untuk full-time-sharing pada platform Multics, Cambridge CTSS, dan Port UNIX paling awal.
- Tahun 1990-an, perusahaan telekomunikasi mulai menawarkan VPN layanan jaringan pribadi dengan kualitas sebanding pelayanannya, tetapi dengan biaya yang lebih rendah.
- Tahun 2000-an, Amazon menciptakan anak perusahaan Amazon Web Services yang bertujuan untuk memungkinkan pengembang membangun aplikasi inovatif dan kewirausahaan mereka sendiri.
- Tahun 2006, diperkenalkan Simple Storage Service, kemudian diikuti Elastic Compute Cloud (EC2) pada bulan agustus.
- Bulan April tahun 2008, Google merilis versi beta dari Google App Engine (PaaS). Awal tahun 2008, Nebula NASA ditingkatkan dalam proyek yang didanai Komisi Eropa RESERVOIR. Tahun 2008, Yayasan Sains Nasional AS memulai program Eksplorasi Klaster untuk mendanai penelitian akademis.
- Tahun 2009, pemerintah Prancis mengumumkan Project Andromede untuk membuat “cloud berdaulat” atau komputasi awan nasional, namun gagal total dan Cloudwatt ditutup.
- Februari 2010, Microsoft merilis Microsoft Azure yang diumumkan pada Oktober 2008. Juli 2010, Rackspace Hosting dan NASA meluncurkan OpenStack.
- 1 Maret 2011, IBM mengumumkan kerangka kerja IBM AmartCloud untuk mendukung Smarter Planet. 7 Juni 2012, Oracle mengumumkan Oracle Cloud.
- Mei 2012, Google Compute Engine dirilis dalam pratinjau dan diluncurkan pada Desember 2013.

- Tahun 2019, Microsoft Azzure menggunakan Linux. Desember 2019, Amazon mengumumkan AWS Outposts.

B. Karakteristik utama

1. Kelincahan untuk organisasi dapat ditingkatkan.
2. Pengurangan biaya diklaim oleh penyedia cloud.
3. Perangkat dan kebebasan lokasi memungkinkan pengguna untuk mengakses sistem menggunakan browser web.
4. Pemeliharaan lebih mudah.
5. Multitenancy
6. Kinerja dipantau oleh pakar IT
7. Produktivitas dapat ditingkatkan
8. Keamanan dapat ditingkatkan

C. Model Layanan

1. Infrastructure as a Service (IaaS)
2. Platform as a Service (PaaS)
3. Software as a Service (SaaS)

D. Model Penerapan Cloud Computing

1. Public
2. Private (On-Premise)
3. Hybrid
4. Community

E. Kekurangan Cloud Computing

1. Ketergantungan pada koneksi internet
2. Privacy issues
3. Downtime

BAB II

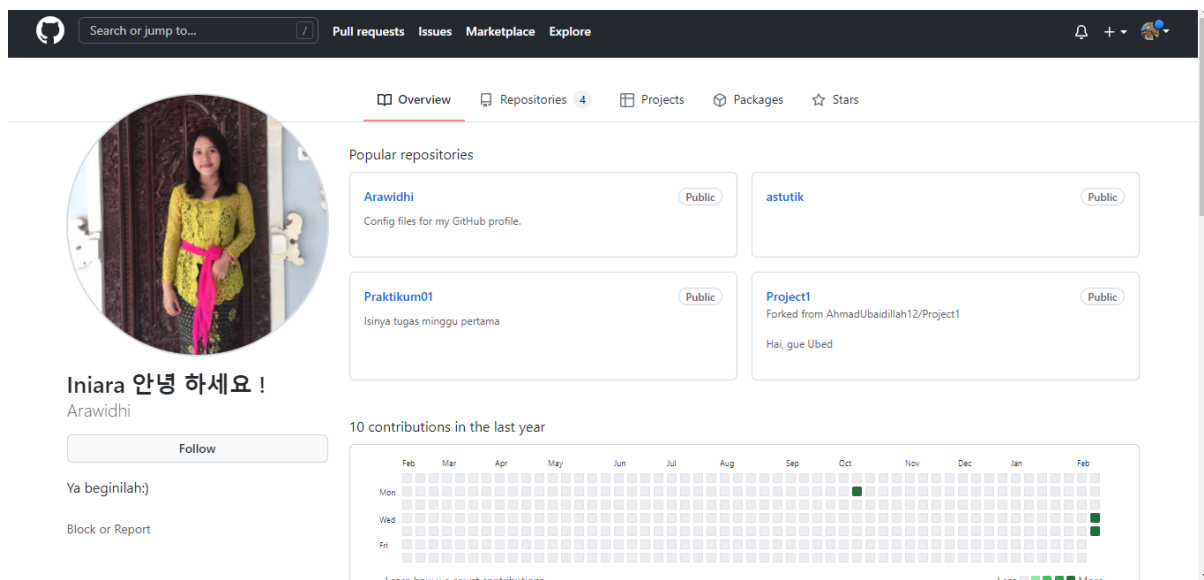
PEMBAHASAN TUGAS

Git untuk Kolaborasi

Disini saya berkolaborasi dengan teman saya yaitu Arawidhi.

Dalam pembahasan ini :

1. Upstream author adalah Arawidhi.
2. Contributor adalah isnabudiarti.
3. Repo dari upstream author adalah Praktikum01



The screenshot shows a GitHub profile for user Arawidhi. The profile includes a circular profile picture of a woman in a yellow top and pink sash, a bio in Korean and Indonesian, and a 'Follow' button. The 'Popular repositories' section lists four repositories: 'Arawidhi' (Public), 'astutik' (Public), 'Praktikum01' (Public), and 'Project1' (Public). The '10 contributions in the last year' section shows a calendar grid with contributions marked by green squares. The grid shows contributions on October 1st, 2nd, 3rd, 4th, 5th, 6th, 7th, 8th, 9th, and 10th. The user's name 'Arawidhi' is visible at the bottom right of the grid.

Search or jump to... Pull requests Issues Marketplace Explore

Overview Repositories 4 Projects Packages Stars

Popular repositories

- Arawidhi** (Public)
Config files for my GitHub profile.
- astutik** (Public)
- Praktikum01** (Public)
Isinya tugas minggu pertama
- Project1** (Public)
Forked from AhmadUbaidillah12/Project1
Hai, gue Ubed

10 contributions in the last year

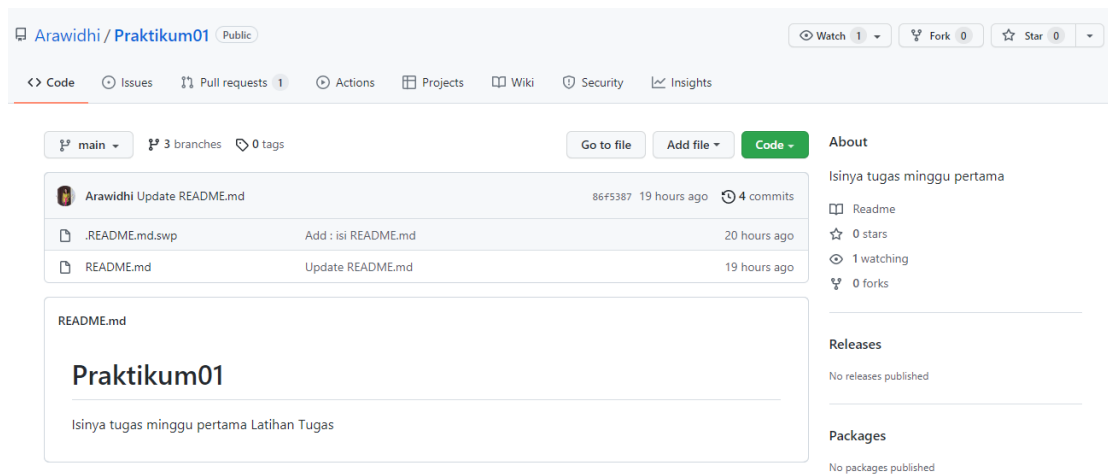
	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb
Mon													
Tue													
Wed													
Thu													
Fri													
Sat													
Sun													

Learn how we count contributions

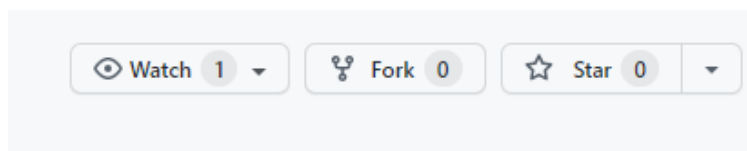
Learn how we count contributions

Fork

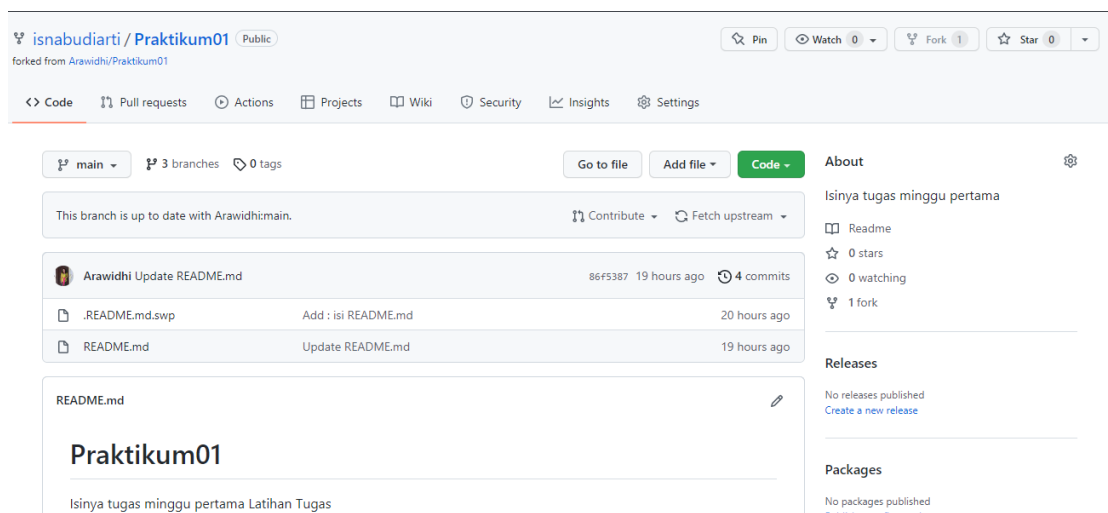
1. Login ke GitHub.
2. Akses repo yang akan di fork



3. Pada sisi kanan atas, klik Fork :



4. Pilih akan ditempatkan di account mana. Karena disini saya hanya memiliki satu account maka langsung ke account isnabudiarti.
5. Setelah itu, repo dari upstream author sudah berada di account GitHub kita (kontributor).



6. Kemudian clone di komputer lokal :

```
MINGW64:/d/ISNA/Semester 6/Tekno Cloud Praktikum
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum
$ git clone https://github.com/isnabudiarti/Praktikum01
Cloning into 'Praktikum01'...
remote: Enumerating objects: 25, done.
remote: Counting objects: 100% (25/25), done.
remote: Compressing objects: 100% (21/21), done.
remote: Total 25 (delta 1), reused 19 (delta 1), pack-reused 0
Receiving objects: 100% (25/25), done.
Resolving deltas: 100% (1/1), done.

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum
$
```

This PC > New Volume (D:) > ISNA > Semester 6 > Tekno Cloud Praktikum

	Name	Date modified	Type	Size
ss	first-project	17/02/2022 12:15	File folder	
e	Laporan	17/02/2022 18:06	File folder	
tos	Praktikum01	17/02/2022 18:07	File folder	

7. Konfigurasi repo upstream

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/Praktikum01 (main)
$ git remote -v
origin https://github.com/isnabudiarti/Praktikum01 (fetch)
origin https://github.com/isnabudiarti/Praktikum01 (push)
```

8. Tambahkan remote upstream

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/Praktikum01 (main)
$ git remote add upstream https://github.com/Arawidhi/Praktikum01
```

9. Hasilnya :

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/Praktikum01 (main)
$ git remote -v
origin https://github.com/isnabudiarti/Praktikum01 (fetch)
origin https://github.com/isnabudiarti/Praktikum01 (push)
upstream https://github.com/Arawidhi/Praktikum01 (fetch)
upstream https://github.com/Arawidhi/Praktikum01 (push)
```

Origin : menunjuk ke repo milik contributor di GitHub, hasil dari fork.

Upstream : menunjuk ke repo milik upstream author (repo asli) di account Arawidhi.

Membuat Perubahan di Repo Lokal

Pastikan :

1. Sudah ada koordinasi secara manual tentang perubahan-perubahan yang akan dilakukan.
2. Setelah melakukan perubahan-perubahan, pastikan bahwa isi repo lokal tersinkronisasi dengan repo dari upstream author.
3. Cara melakukan sinkronisasi :

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
$ cd Praktikum01

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/Praktikum01 (main)
$ git fetch upstream
From https://github.com/Arawidhi/Praktikum01
* [new branch]      add-contributor -> upstream/add-contributor
* [new branch]      edit-readme-1   -> upstream/edit-readme-1
* [new branch]      main            -> upstream/main
```

4. Lakukan perubahan-perubahan, setelah itu push ke origin (milik kontributor)

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/Praktikum01 (main)
$ ls -la
total 21
drwxr-xr-x 1 Isna 197121      0 Feb 17 18:07 ./
drwxr-xr-x 1 Isna 197121      0 Feb 17 18:07 ../
-rw-r--r-- 1 Isna 197121 12288 Feb 17 18:07 README.md.swp
drwxr-xr-x 1 Isna 197121      0 Feb 17 19:57 .git/
-rw-r--r-- 1 Isna 197121      60 Feb 17 18:07 README.md

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/Praktikum01 (main)
$ cat README.md
# Praktikum01
Isinya tugas minggu pertama
Latihan
Tugas
```

```
Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/Praktikum01 (main)
$ git checkout -b add-contributor
Switched to a new branch 'add-contributor'

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Prakti
kum/Praktikum01 (add-contributor)
$ git branch
* add-contributor
  main
```

```

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/Praktikum01 (add-contributor)
$ git status
On branch add-contributor
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:   README.md

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

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/Praktikum01 (add-contributor)
$ git add -A

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/Praktikum01 (add-contributor)
$ git commit -m "Add: contributor"
[add-contributor cc74730] Add: contributor
1 file changed, 4 insertions(+)

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/Praktikum01 (add-contributor)
$ git checkout main
Switched to branch 'main'
Your branch is up to date with 'origin/main'.

```

```

Isna@DESKTOP-H49FIJQ MINGW64 /d/ISNA/Semester 6/Tekno Cloud Praktikum/Praktikum01 (main)
$ git push origin add-contributor -f
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 384 bytes | 384.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/isnabudiarti/Praktikum01
+ 7167dle...cc74730 add-contributor -> add-contributor (forced update)

```

Penggunaan -f pada akhir git push digunakan untuk melakukan push secara paksa karena saat tidak menggunakannya terjadi error atau muncul kesalahan.

5. Setelah itu, buka halaman web dari repo contributor. Pada halaman tersebut akan ditampilkan isi yang kita push

6. Pilih compare and pull request, kemudian isikan deskripsi PR dan klik pada Create pull request :

Open a pull request
Create a new pull request by comparing changes across two branches. If you need to, you can also [compare across forks](#).

base repository: Arawidhi/Praktikum01 ▼ base: main ▼ ← head repository: isnabudiarti/Praktikum01 ▼ compare: add-contributor ▼

✓ **Able to merge.** These branches can be automatically merged.

Add: contributor

Write Preview H B I

Menambahkan kontributor

Attach files by dragging & dropping, selecting or pasting them.

☒ Allow edits by maintainers ? **Create pull request** ▼

Add: contributor #3

Open isnabudiarti wants to merge 1 commit into [Arawidhi:main](#) from [isnabudiarti:add-contributor](#)

Conversation 0 Commits 1 Checks 0 Files changed 1

isnabudiarti commented now

Menambahkan kontributor

Add: contributor cc74730

Add more commits by pushing to the **add-contributor** branch on isnabudiarti/Praktikum01.

This branch has no conflicts with the base branch
Only those with [write access](#) to this repository can merge pull requests.

7. Pada repo upstream author, muncul angka 1 (artinya jumlahnya 1) pada Pull requests di bagian atas.
8. Upstream author bisa menyetujui setelah melakukan review: klik pada Pull request, akan muncul PR dengan message seperti yang ditulis oleh contributor . klik pada PR tersebut, review kemudian klik Merge pull request diikuti dengan Confirm merge. Setelah itu, status akan berubah menjadi Merged.
9. Sinkronkan semua repo (lokal maupun GitHub kontributor).

BAB III

KESIMPULAN

Pada pertemuan ini saya belajar memahami berbagai aktivitas pada metodologi agile serta kaitannya dengan source code management, menggunakan Git untuk mengelola repository, remote repository di GitHub serta menggunakan Git dan GitHub untuk single person maupun kolaborasi dengan team. Komputasi awan atau cloud computing sendiri merupakan ketersediaan sumber daya sistem komputer berdasarkan permintaan, terutama penyimpanan data (penyimpanan awan) dan daya komputasi, tanpa pengelolaan aktif langsung oleh pengguna.