Latihan 1

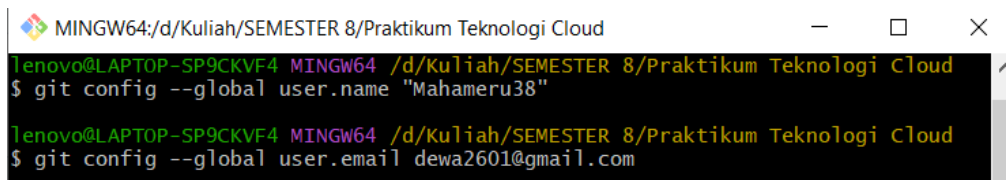### Periksa keberhasilan instalasi

C:>git --version git version 2.39.2.windows.1

Konfigurasi GIT

C:\TCC>git config --global user.name "Mahameru38"

C:\TCC>git config --global user.email "dewa2601@gmail.com"

Untuk menjalankan nya, dari Start menu, ketik "git", kemudian akan muncul beberapa pilihan pilih "Git Bash"

Membuat Repo

Clone repo

```
C:\>git clone https://github.com/Mahameru38/latihan1

Cloning into 'latihan1'...

remote: Enumerating objects: 57, done.

remote: Counting objects: 100% (57/57), done.

remote: Compressing objects: 100% (54/54), done.

remote: Total 57 (delta 18), reused 5 (delta 0), pack-reused 0

Unpacking objects: 100% (57/57), done.
```

Mengelola repo di organiasi

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** *

Mahameru38 ▾ / playground ✓

Great repository names are short and memorable. Need inspiration? How about **potential-palm-tree**?

Description (optional)

just a playground 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: None ▾

Choose a license
A license tells others what they can and can't do with your code. Learn more.

License: None ▾

Git untuk Kolaborasi

clone di komputer lokal

```
C:\tekn-cloud-computing\minggu-01>git clone
https://github.com/Mahameru38/playground-1

Cloning into 'playground-1'...

remote: Enumerating objects: 7, done.

remote: Total 7 (delta 0), reused 0 (delta 0), pack-reused 7
```

```
Unpacking objects: 100% (7/7), done.
```

konfigurasikan repo lokal kontributor. Pada kondisi saat ini, di komputer lokal sudah terdapat repo playground-1 yang berada pada direktori dengan nama yang sama.

Repo origin sudah dituliskan konfigurasinya pada saat melakukan proses clone dari repo kontributor. Konfigurasi repo upstream harus dibuat.

```
C:\tekn-cloud-computing\minggu-01\playground-1>git remote -v
origin  https://github.com/Mahameru38/playground-1 (fetch)
origin  https://github.com/Mahameru38/playground-1 (push)
```

Tambahkan remote upstream:

```
C:\tekn-cloud-computing\minggu-01\playground-1>git remote add upstream
https://github.com/bpdp/playground-1.git
```

Hasil

```
C:\tekn-cloud-computing\minggu-01\playground-1>git remote -v
origin  https://github.com/Mahameru38/playground-1 (fetch)
origin  https://github.com/Mahameru38/playground-1 (push)
upstream        https://github.com/bpdp/playground-1 (fetch)
upstream        https://github.com/bpdp/playground-1 (push)
```

Mengirimkan Pull Request

Buatlah branch fitur baru

```
C:\tekn-cloud-computing\minggu-01\playground-1>git checkout -b new-branch
```

```
Switched to a new branch 'new-branch'
```

Commit perubahannya

```
C:\tekn-cloud-computing\minggu-01\playground-1>git commit -am "new-branch"
On branch new-branch
nothing to commit, working tree clean
```

Upstream author me-review dan kemudian menyetujui (merge) ke master atau menolak PR.(Jika disetujui dan di-merge ke repo master dari upstream author, sinkronkan repo di komputer lokal dan repo GitHub kontributor.)

```
C:\tekn-cloud-computing\minggu-01\playground-1>git push origin new-branch
remote: Permission to bpdp/playground-1.git denied to Mahameru38.
fatal: unable to access 'https://github.com/bpdp/playground-1/': The
requested URL returned error: 403
```

Membuat Perubahan di Repo Lokal

melakukan sinkronisasi

```
C:\tekn-cloud-computing\minggu-01\playground-1>git fetch upstream
From https://github.com/bpdp/playground-1
 * [new branch]      add-contributor -> upstream/add-contributor
 * [new branch]      master          -> upstream/master
```

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

```
C:\tekn-cloud-computing\minggu-01\playground-1>git checkout -b add-
contributor
```

Switched to a new branch 'add-contributor'

M   README.md

C:\tekn-cloud-computing\minggu-01\playground-1>git branch

* add-contributor

  master

  new-branch

Playground

It's just an example repo so that people can use it to learn Git.

Contributor

1. [bpdp](https://github.com/bpdp)

C:\tekn-cloud-computing\minggu-01\playground-1>git status

On branch master

Your branch is up to date with 'origin/master'.

Changes not staged for commit:

   (use "git add <file>..." to update what will be committed)

   (use "git checkout -- <file>..." to discard changes in working directory)

         modified: README.md

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

C:\tekn-cloud-computing\minggu-01\playground-1>git add -A

C:\tekn-cloud-computing\minggu-01\playground-1>git commit -m "Add:
contributor"

[add-contributor 2825a65] Add: contributor

 1 file changed, 1 insertion(+), 1 deletion(-)

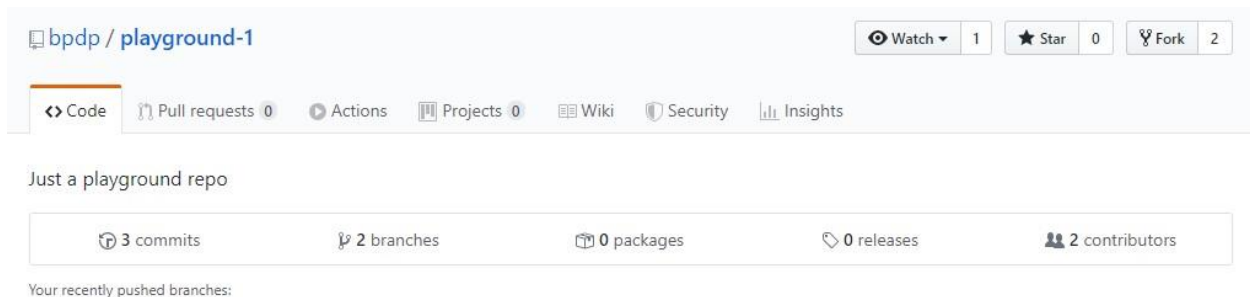C:\tekn-cloud-computing\minggu-01\playground-1>git checkout master

Switched to branch 'master'

Your branch is up to date with 'origin/master'.

```
C:\tekn-cloud-computing\minggu-01\playground-1>git push origin add-
contributor

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), 335 bytes | 167.00 KiB/s, done.

Total 3 (delta 1), reused 0 (delta 0)

remote: Resolving deltas: 100% (1/1), completed with 1 local object.

To https://github.com/Mahameru38/playground-1

   b7183be..2825a65  add-contributor -> add-contributor
```

Setelah itu, buka halaman Web dari repo kontributor Pada halaman tersebut akan ditampilkan isi yang kita push.

Pilih Compare and pull request, kemudian isikan deskripsi PR dan klik pada Create pull request, Pada repo upstream author, muncul angka 1 (artinya jumlahnya 1) pada Pull requests di bagian atas.

Upstream author bisa menyetujui setelah melakukan review: klik pada Pull requests, akan muncul PR dengan message seperti yang ditulis oleh kontributor (Add: contributor). Klik pada PR tersebut, review kemudian klik Merge pull request diikuti dengan Confirm merge. Setelah itu, status akan berubah menjadi Merged.