

**LAPORAN PRAKTIKUM**  
**Teknologi Cloud Computing - Minggu 1**  
**SCM: Git dan GitHub**



Oleh :

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**SEKOLAH TINGGI MANAJEMEN INFORMATIKA DAN KOMPUTER**  
**AKAKOM**  
**YOGYAKARTA**  
**2020**

## **PENDAHULUAN**

### **A. TUJUAN**

1. Mahasiswa memahami berbagai aktivitas pada metodologi agile serta kaitannya dengan source code management
2. Mahasiswa memahami dan mampu menggunakan Git untuk mengelola repository.
3. Mahasiswa memahami dan mampu menggunakan Git untuk mengelola remote repository di GitHub.
4. Mahasiswa memahami dan mampu menggunakan Git dan GitHub, baik untuk single person maupun kolaborasi dengan team.

### **B. DASAR TEORI**

1. [https://en.wikipedia.org/wiki/Software\\_engineering](https://en.wikipedia.org/wiki/Software_engineering)
2. [https://en.wikipedia.org/wiki/Software\\_configuration\\_management](https://en.wikipedia.org/wiki/Software_configuration_management)
3. [https://en.wikipedia.org/wiki/Version\\_control](https://en.wikipedia.org/wiki/Version_control)
4. <https://en.wikipedia.org/wiki/Git>
5. <https://github.com/adam-p/markdown-here/wiki/Markdown-Cheatsheet#tables>

## PEMBAHASAN

### 1. Instalasi Git

```
C:\Users\ap>git --version
git version 2.26.2.windows.1
```

### 2. Konfigurasi Git

```
C:\Users\ap>git config --global user.name "Jauhari Ahmad"

C:\Users\ap>git config --global user.email jauhmad@yahoo.com

C:\Users\ap> 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=openssl
http.sslcainfo=C:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt
core.autocrlf=true
core.fscache=true
core.symlinks=false
core.editor="C:\\Program Files\\Sublime Text 3\\subl.exe" -w
credential.helper=manager
user.name=Jauhari Ahmad
user.email=jauhmad@yahoo.com
core.autocrlf=false
```

### 3. Mengelola Repo

#### a. Mengelola Repo sendiri di akun sendiri



- Membuat repository

Create a new repository

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

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Owner \*      Repository name \*


 jauhmad /  praktikum\_tcc

Great repository names are short and memorable. Need inspiration? How about [super-duper-journey?](#)

Description (optional)

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☐  **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.

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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.](#)

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**Create repository**

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

 Set up in Desktop

 or 

HTTPS

SSH

https://github.com/jauhmad/praktikum\_tcc.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 "# praktikum_tcc" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M master
git remote add origin https://github.com/jauhmad/praktikum_tcc.git
git push -u origin master
```

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

```
git remote add origin https://github.com/jauhmad/praktikum_tcc.git
git branch -M master
git push -u origin master
```

...or import code from another repository

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

Import code

- Clone Repo

```
ap@APTIKA-ASUS MINGW64 /d/Jauh/alih_jalur/materi/cloud/prak/gitclone
$ git init
Initialized empty Git repository in D:/Jauh/alih_jalur/materi/cloud/prak/gitclone/.git/

ap@APTIKA-ASUS MINGW64 /d/Jauh/alih_jalur/materi/cloud/prak/gitclone (master)
$ git clone https://github.com/jauhmad/praktikum_tcc
Cloning into 'praktikum_tcc'...
warning: You appear to have cloned an empty repository.

ap@APTIKA-ASUS MINGW64 /d/Jauh/alih_jalur/materi/cloud/prak/gitclone (master)
$
```

- Mengubah Isi

```
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    praktikum_tcc/

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

ap@APTIKA-ASUS MINGW64 /d/Jauh/alih_jalur/materi/cloud/prak/gitclone (master)
$
```

```
$ git commit -m "Add: contoh text.txt"
On branch master

Initial commit

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    praktikum_tcc/

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

- Hasil

🏠

jauhmad / skp

Private

<> Code

🕒 Issues

🔄 Pull requests

⚙️ Actions

📁 Projects

🔒 Security

📊 Insights

⚙️ Settings

🔗 master

🌿 1 branch

🏷️ 0 tags

Go to file

Add file

📄 Code

🌿 jauhmad 23 sep 2020

84a46a8 22 hours ago

🔄 5 commits

📁 build	first commit	10 days ago
📁 custom	first commit	10 days ago
📁 production	23 sep 2020	22 hours ago
📁 src	first commit	10 days ago
📁 vendors	first commit	10 days ago
📄 index.php	first commit	10 days ago
📄 sim_skpdb.sql	23 sep 2020	22 hours ago

## KESIMPULAN

Suatu repo dimaksudkan untuk menyimpan aset digital (dokumen, *source code*, gambar, dan lain-lain). Setiap satu repo biasanya digunakan untuk satu kepentingan tertentu. Repo yang ada di GitHub ini juga ada di komputer lokal pengguna. Dengan demikian, untuk setiap repo, kita mempunyai tempat penyimpanan di GitHub maupun di komputer lokal dan keduanya tersinkronisasi. Pemakai biasanya melakukan berbagai manipulasi di komputer lokal, setelah itu mengirimkan hasilnya ke repo GitHub. Proses ini disebut dengan proses **push**.

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