

GitLab for students

GitLab login and initial setup

1. At `hconnect.hanyang.ac.kr`, click "Sign in with Hanyang"



You need to sign in or sign up before continuing.

GitLab Community Edition

Open source software to collaborate on code

Manage Git repositories with fine-grained access controls that keep your code secure. Perform code reviews and enhance collaboration with merge requests. Each project can also have an issue tracker and a wiki.

Sign in

Username or email

Password

☐ Remember me [Forgot your password?](#)

Sign in with Hanyang

GitLab login and initial setup

2. Login with Hanyang account



한양대학교 | 로그인

고객님의 정보에 접근하기 위하여 인증이 필요합니다.
한양대학교 포털 한양인(HY-in)계정으로 로그인 하시기 바랍니다.

Portal Login

ID	<input type="text" value="2007002245"/>	<div>로그인</div>
Password	<input type="password" value="....."/>	

GitLab login and initial setup

3. Agree to terms of information provision

**한양대학교 | 개인정보의 제 3자 제공동의 요청**

한양대학교 OPEN API는 아래와 같은 개인정보를 온라인 소프트웨어 교육 지원 시스템 - Real 에 제공합니다.

제공 받는자

커넥트재단 (온라인 소프트웨어 교육 지원 시스템 - REAL)

제공 목적

웹상에서 학생 실습코드를 저장하고 빌드 하며 채점, 코드 리뷰를 수행하는 시스템 입니다.

실습 코드 저장은 GITLABCE를 활용할 예정이고
코드 리뷰는 REVIEW BOARD, 빌드 및 채점은 JENKINS를 사용할 예정입니다.

한양대 도메인을 통해 서비스 하고 한양대 학생 인증을 적용할 예정입니다.

**** 실제 서비스를 사용자가 사용하는 환경 입니다.**

제공 항목

모든 항목에 동의하셔야만 이용 가능합니다.

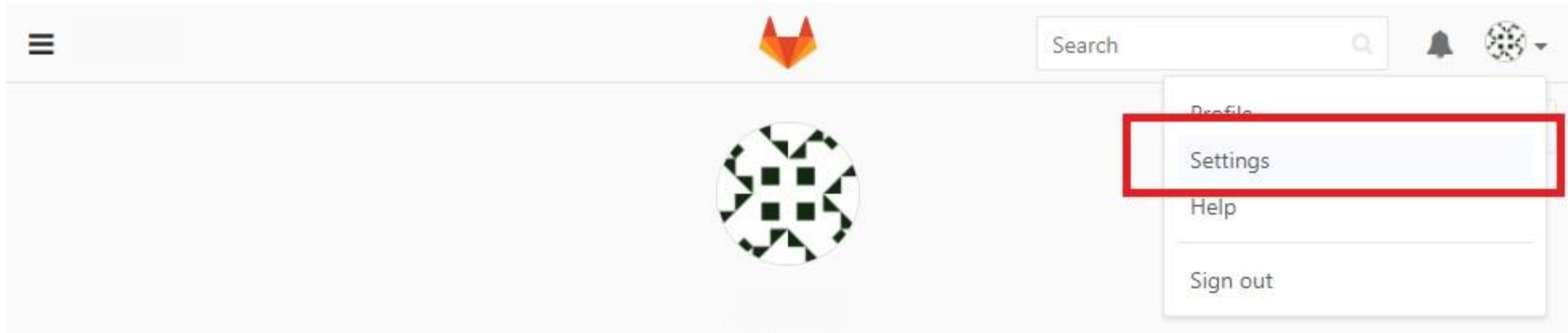
로그인사용자 정보조회

[포털에서 설정한 대표 신분 정보]
로그인한 사용자의 성명, 사용자ID, 학번(개인번호), 재학(재직) 여부, 소속대학, 소속명, 소속코드, 소속ID, 사용자구분영역의 정보를 제공합
니다.

☒ 전체 동의합니다. ☐ 동의합니다.

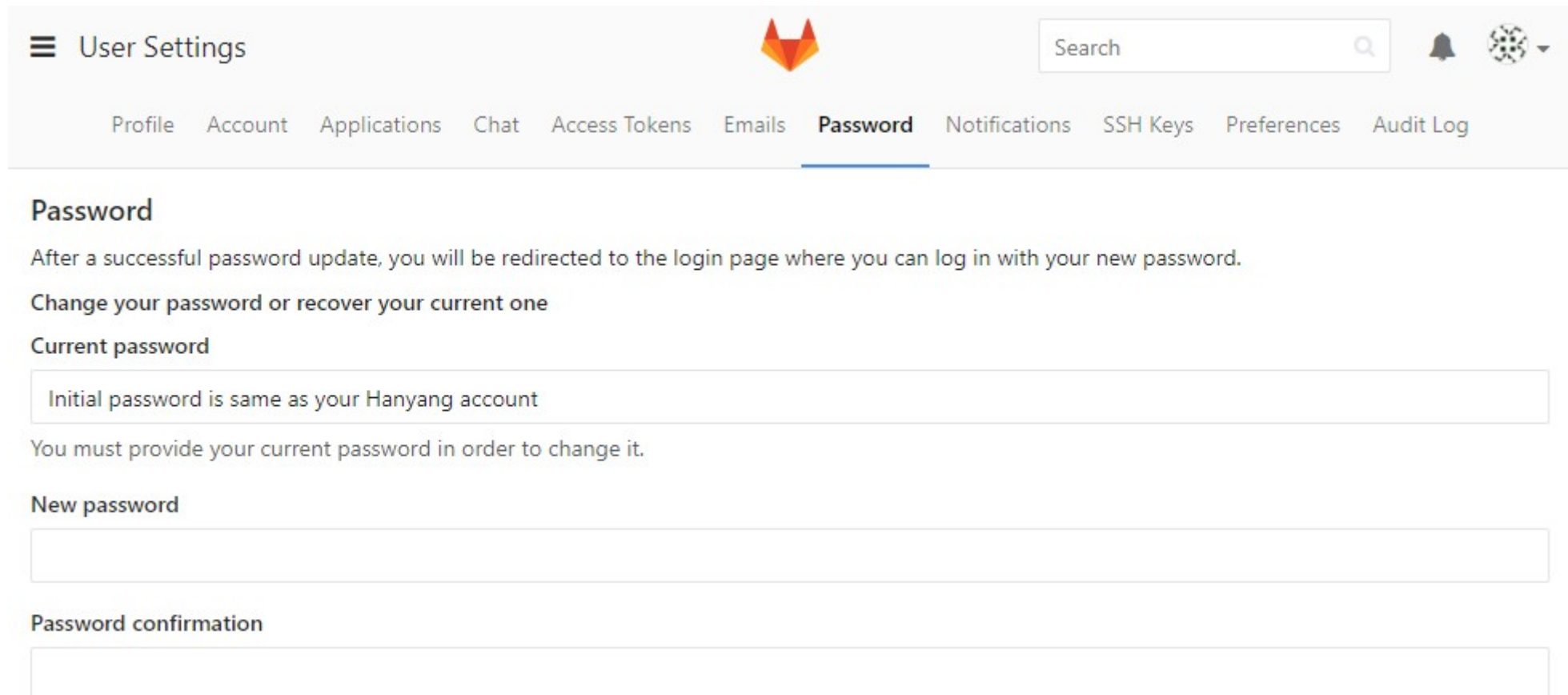
GitLab login and initial setup

4. Set password



GitLab login and initial setup

4. Set password (**DO NOT FORGET !!**– different password is allowed)



The screenshot shows the GitLab User Settings interface. At the top, there's a navigation bar with a hamburger menu, the text 'User Settings', the GitLab logo, a search bar, and notification icons. Below this is a horizontal menu with tabs: Profile, Account, Applications, Chat, Access Tokens, Emails, Password (which is selected and underlined), Notifications, SSH Keys, Preferences, and Audit Log. The main content area is titled 'Password' and contains the following text: 'After a successful password update, you will be redirected to the login page where you can log in with your new password.' followed by 'Change your password or recover your current one'. There are three input fields: 'Current password' with a placeholder 'Initial password is same as your Hanyang account', 'New password', and 'Password confirmation'. A note below the first field states 'You must provide your current password in order to change it.'

≡ User Settings

Search

Profile Account Applications Chat Access Tokens Emails **Password** Notifications SSH Keys Preferences Audit Log

Password

After a successful password update, you will be redirected to the login page where you can log in with your new password.

Change your password or recover your current one

Current password

Initial password is same as your Hanyang account

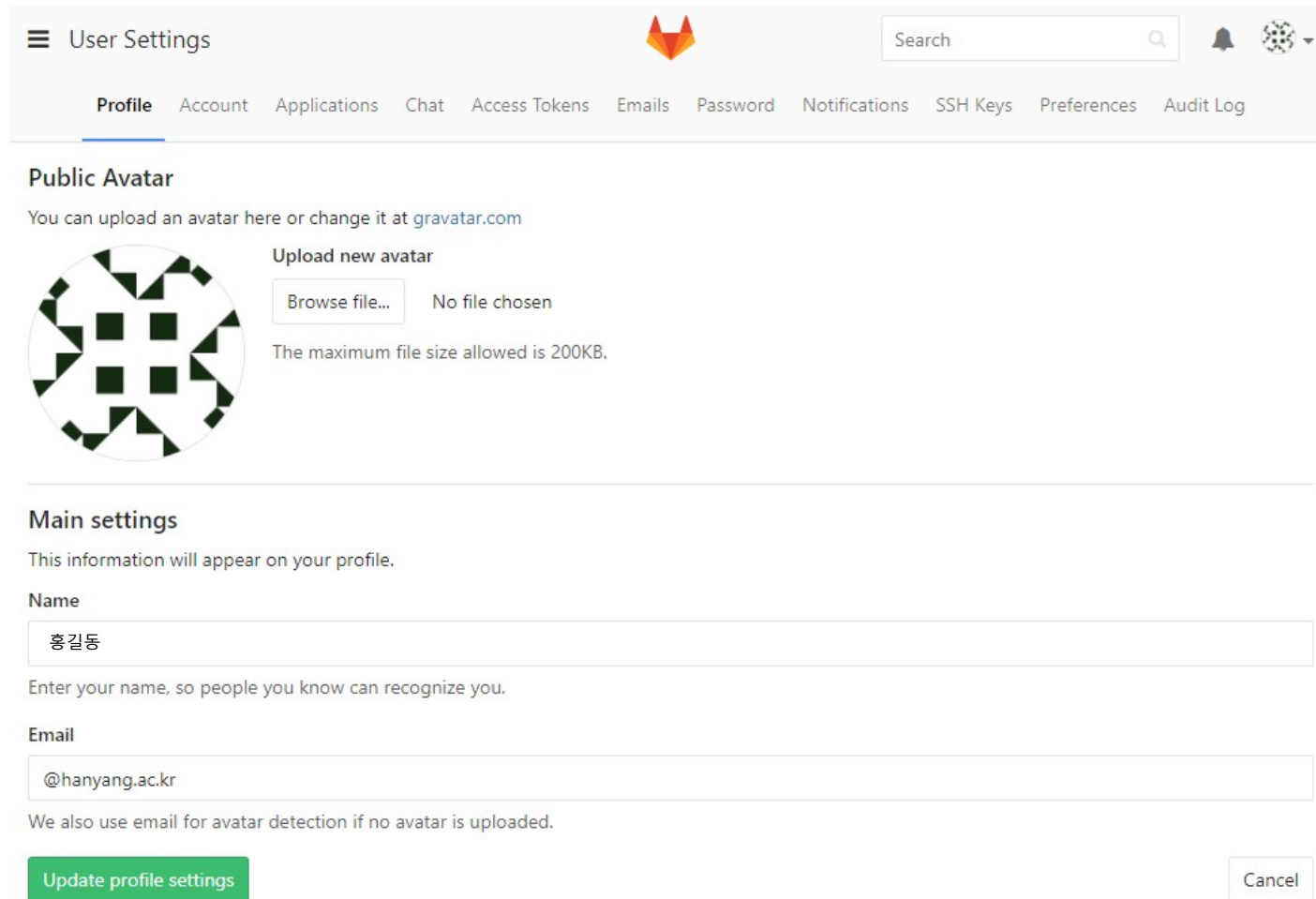
You must provide your current password in order to change it.

New password

Password confirmation

GitLab login and initial setup

5. Set email



The screenshot shows the GitLab 'User Settings' page. At the top, there's a navigation bar with a hamburger menu, the text 'User Settings', the GitLab logo, a search bar, and notification icons. Below this is a sub-navigation bar with tabs: 'Profile' (selected), 'Account', 'Applications', 'Chat', 'Access Tokens', 'Emails', 'Password', 'Notifications', 'SSH Keys', 'Preferences', and 'Audit Log'. The main content area is titled 'Public Avatar' and includes instructions on how to upload an avatar. Below this is a section titled 'Main settings' with a note that the information will appear on the user's profile. It contains two input fields: 'Name' with the value '홍길동' and 'Email' with the value '@hanyang.ac.kr'. At the bottom, there are two buttons: 'Update profile settings' (green) and 'Cancel' (white).

≡ User Settings

Profile Account Applications Chat Access Tokens Emails Password Notifications SSH Keys Preferences Audit Log

Public Avatar

You can upload an avatar here or change it at gravatar.com

Upload new avatar

Browse file... No file chosen

The maximum file size allowed is 200KB.

Main settings

This information will appear on your profile.

Name

홍길동

Enter your name, so people you know can recognize you.

Email

@hanyang.ac.kr

We also use email for avatar detection if no avatar is uploaded.

Update profile settings Cancel

GitLab login and initial setup

5. Set email – confirm email address in your inbox

GitLab login and initial setup

6. After setting password, you can login without clicking "Sign in with Hanyang"



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Sign in

Username or email

2007002245

Password

.....|

☐ Remember me

[Forgot your password?](#)

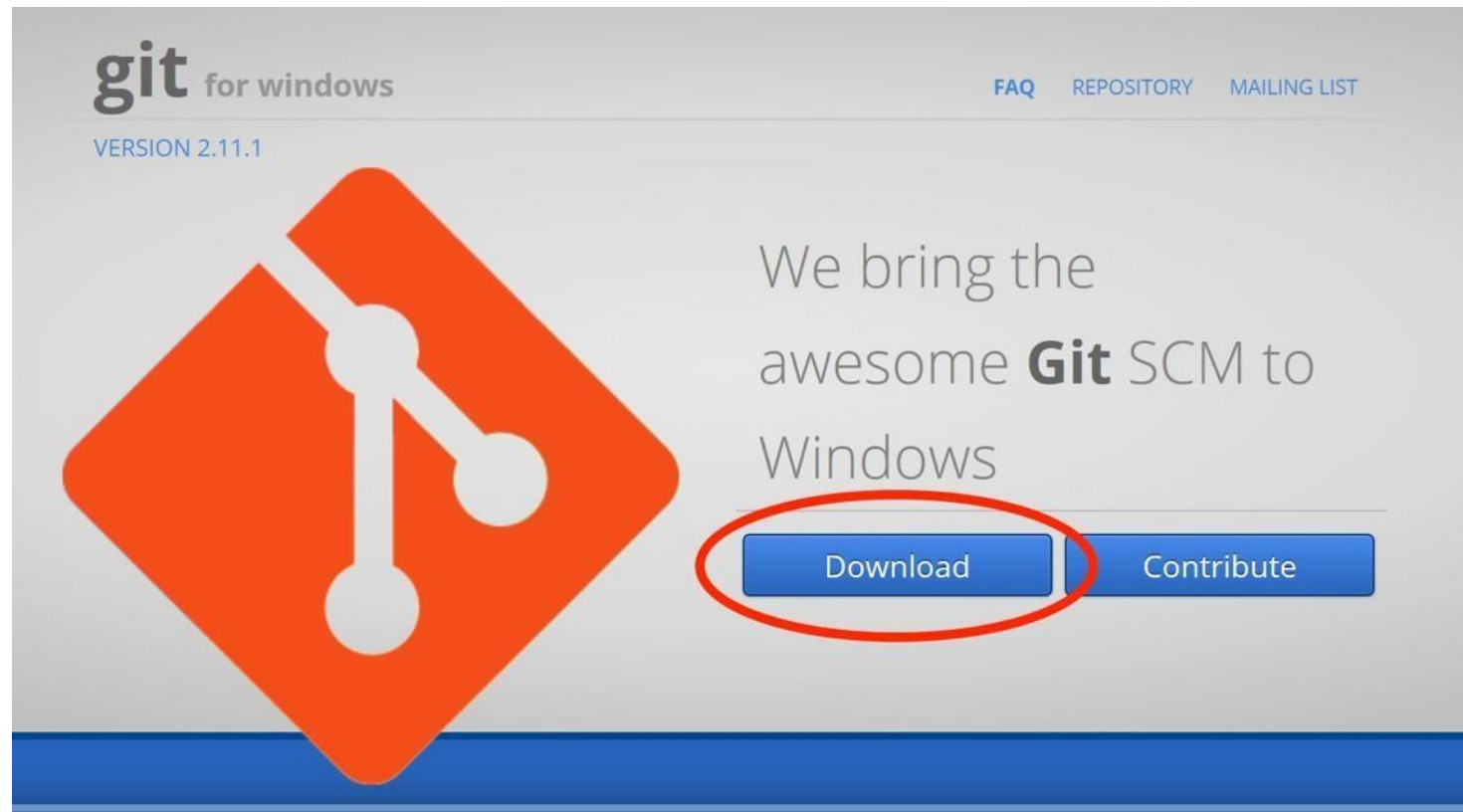
Sign in

Sign in with

Hanyang

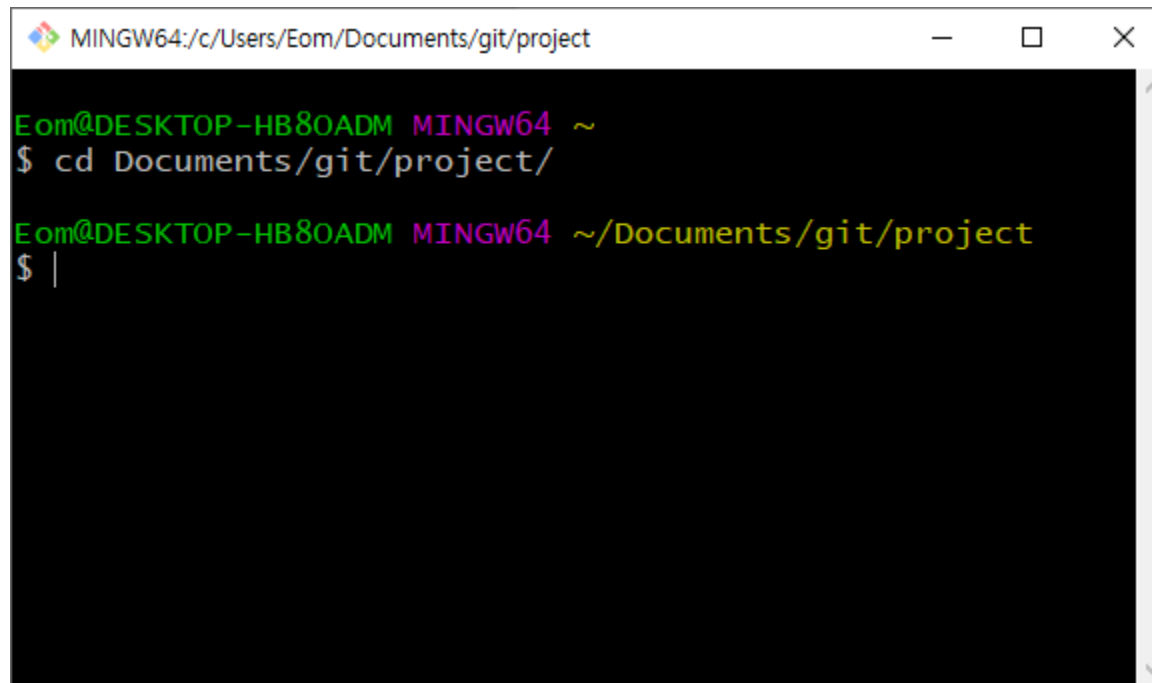
Git Installation (Windows)

1. <https://git-for-windows.github.io/>



Git Installation (Windows)

2. Launch Git Bash
3. Move to working directory (ex: \$ cd project)



```
MINGW64:/c/Users/Eom/Documents/git/project
Eom@DESKTOP-HB8OADM MINGW64 ~
$ cd Documents/git/project/
Eom@DESKTOP-HB8OADM MINGW64 ~/Documents/git/project
$ |
```

Git Installation (Linux)

Ubuntu

```
$ sudo apt-get install git
```

Fedora

```
$ sudo yum install git
```



A terminal window titled "mrbin2002 — mrbin2002@ubuntu: ~ — ssh mrbin2002@10.211.55.7 — 74x21". The terminal shows the command `sudo apt-get install git` being executed. The output indicates that git is already the newest version and no packages need to be upgraded. The prompt returns to `mrbin2002@ubuntu:~$`.

```
mrbin2002@ubuntu:~$ sudo apt-get install git
[sudo] password for mrbin2002:
Reading package lists... Done
Building dependency tree
Reading state information... Done
git is already the newest version.
0 upgraded, 0 newly installed, 0 to remove and 51 not upgraded.
mrbin2002@ubuntu:~$
```

Git Installation (MacOS)

1. <https://git-scm.com/download/mac>
2. Mount dmg and launch git-x.x.x-xxx.pkg



Git Basic Concept



Git

- : Version Control System
- : We can manage code by *git add .*, *git commit -m* etc.



GitLab

- : Git hosting services (also GitHub is hosting service)
- : We can upload / download code by *git push*, *git pull*, *git clone* etc.

Git Basic Usage

1. After installation, set user

```
$ git config --global user.name "student id"  
$ git config --global user.email "student id @hanyang.ac.kr"
```

(user.name is student id,
user.email is email registered Gitlab(<https://hconnect.hanyang.ac.kr>)

Git Basic Usage

2. Clone your Git repository

```
$ git clone https://hconnect.hanyang.ac.kr/2022 ITE2031 12385/2022_ite2031_20xxxxxxx.git
```

The screenshot shows a GitHub repository page for a project named '2022_ITE2031_20'. The repository is empty. Below the repository name, there are buttons for 'Clone', 'New file', 'Add README', 'Add LICENSE', 'Add CHANGELOG', and 'Add CONTRIBUTING'. The 'Clone' button is selected, and a dropdown menu is open showing two options: 'Clone with SSH' and 'Clone with HTTPS'. The 'Clone with HTTPS' option is selected, and the URL 'https://hconnect.hanyang.ac.kr/2022 ITE2031 12385/2022_ite2031_20xxxxxxx.git' is displayed. A red arrow points from this URL to the command line in the image above, with the text 'Copy & Paste' next to it.

2 **2022_ITE2031_20** Project

Department of Computer Science, Computer Architecture, Yongjun Park, 2022

The repository for this project is empty

You can get started by cloning the repository or start adding files to it with one of the following options.

Clone ▾ New file Add README Add LICENSE Add CHANGELOG Add CONTRIBUTING

Clone with SSH

git@hconnect.hanyang.ac.kr:2022

Clone with HTTPS

https://hconnect.hanyang.ac.kr/2022 ITE2031 12385/2022_ite2031_20xxxxxxx.git

Copy & Paste

Git Basic Usage

3. Enter username(student id) and password(set in GitLab)

```
j@hp-14-eb0503tx:~/workspace$ git clone https://hconnect.hanyang.ac.kr/2022_ITE2031_12385/2022_ite2031_2016025614.git
Cloning into '2022_ite2031_2016025614'...
Username for 'https://hconnect.hanyang.ac.kr': junarwohn
Password for 'https://junarwohn@hconnect.hanyang.ac.kr':
warning: You appear to have cloned an empty repository.
j@hp-14-eb0503tx:~/workspace$ ls
2022_ite2031_2016025614
j@hp-14-eb0503tx:~/workspace$ |
```

Git Basic Usage

4. Move to cloned directory

```
$ cd 2022_ite2031_20xxxxxxx
```

5. Create file

```
$ vi test.txt          or  
$ echo [str] > test.txt
```

```
j@hp-14-eb0503tx:~/workspace/2022_ite2031_2016025614$ echo "Hello Computer Architecture!" > test.txt  
j@hp-14-eb0503tx:~/workspace/2022_ite2031_2016025614$ cat test.txt  
Hello Computer Architecture!  
j@hp-14-eb0503tx:~/workspace/2022_ite2031_2016025614$ ls  
test.txt  
j@hp-14-eb0503tx:~/workspace/2022_ite2031_2016025614$ |
```

Git Basic Usage

6. If you check current status, created file is categorized as untracked.

```
$ git status
```

```
j@hp-14-eb0503tx:~/workspace/2022_ite2031_2016025614$ git status
On branch master

No commits yet

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

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

Git Basic Usage

7. Move all created or modified files in directory to staged area

```
$ git add .
```

8. Check status again

```
$ git status
```

```
j@hp-14-eb0503tx:~/workspace/2022_ite2031_2016025614$ git add .
j@hp-14-eb0503tx:~/workspace/2022_ite2031_2016025614$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   test.txt
```

Git Basic Usage

9. Commit added or modified files (affect only local repository)

```
$ git commit -m "first commit"
```

10. Push commits to remote repository

```
$ git push origin master
```


```
j@hp-14-eb0503tx:~/workspace/2022_ite2031_2016025614$ git commit -m "first commit"
[master (root-commit) d614f38] first commit
1 file changed, 1 insertion(+)
create mode 100644 test.txt
j@hp-14-eb0503tx:~/workspace/2022_ite2031_2016025614$ git push origin master
Username for 'https://hconnect.hanyang.ac.kr': junarwohn
Password for 'https://junarwohn@hconnect.hanyang.ac.kr':
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 243 bytes | 243.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://hconnect.hanyang.ac.kr/2022_ITE2031_12385/2022_ite2031_2016025614.git
 * [new branch]      master -> master
```




Git Basic Usage





11. Commits sent to the remote repository via git push are visible in the GitLab webpage

2022 ITE2031_12385 > 2022 ITE2031_2016025614 > Details

2

2022_ITE2031_2016025614 
Project ID: 4852


  Star 0  Fork 0

 1 Commit  1 Branch  0 Tags  143 KB Files


master ▾

2022_ite2031_2016025614 / + ▾


History


 Find file


Web IDE


 ▾


Clone ▾


 **first commit**
Joonho Wohn authored 2 minutes ago


d614f380 


 Auto DevOps enabled


 Add README

 Add LICENSE

 Add CHANGELOG

 Add CONTRIBUTING

 Add Kubernetes cluster


Name	Last commit	Last update
 test.txt	first commit	2 minutes ago




Git Basic Usage





11. Commits sent to the remote repository via git push are visible in the GitLab webpage

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