

2021/0203 Git tutorial

# Step 1 Sign in · GitLab

- <https://gitlab.fabcloud.org>

https://gitlab.fabcloud.org/users/sign\_in

## Fab Cloud

The software infrastructure for projects in the global Fab Lab Network.

### How can I signup?

You can create an account on the [Fablabs.io signup](#) page. Then using the "fablabs" login button to get started here with Fabcloud and start contributing.

Username or email

Password

Remember me

[Forgot your password?](#)

Sign in

Sign in with

Fablabs

Remember me

Sign in · GitLab →

# Step 2 Sign in Succussed

← → ↻ 🏠 🔒 https://api.fablabs.io/signin?goto=%2Foauth%2Fauthori... 🔍 ⚙️ 🌐

## Welcome to fablabs.io

Fablabs.io is the online social network of the international Fab Lab community, and it is an exchange platform for people, labs, projects, machines, events and groups. Fab Lab Network, which collaboration order to align interests and to expand the community.

Email or Username

cmy@cmass.edu.hk

Password

.....

Sign in

Forgot the password?

← → ↻ 🏠 🔒 https://gitlab.fabcloud.org 🔍 ⚙️ 🌐



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## Projects

New project

Your projects 3 Starred projects 1 Explore projects

Filter by name...

Name ▾

All Personal

F

Academy / Fab Academy / 2021 / Fab Academy 2021 Class Developer  
Use this project's issue tracker for communication with the whole class

★ 1 🧑 0 📄 0 📁 2

Updated 2 days ago

M

Academy / Fab Academy / 2021 / Fab Academy 2021 Students / Madhurya\_Fab21 Developer

★ 0 🧑 0 📄 29 📁 29

Updated 3 days ago

M

Academy / Fab Academy / 2021 / Fab Academy 2021 Labs / Taipei / Taipei students / Man Yuen CHEUNG Maintainer

🟢 ★ 1 🧑 0 📄 0 📁 0

Updated 21 hours ago

website: <http://fabacademy.org/2021/labs/taipei/students/manyuen-cheung>



Find personal archive

# Personal archive Settings

The screenshot shows the GitLab user profile page for Man Yuen CHEUNG. The user menu is open, and the 'Settings' option is highlighted with an orange circle. The profile information includes the name 'Man Yuen CHEUNG', project ID '2990', and a list of recent commits.

Name	Last commit	Last update
docs	replace photo	21 hours ago
.gitignore	added week templates	2 years ago
.gitlab-ci.yml	Update template to latest Material theme version 6	1 week ago

The screenshot shows the 'User Settings > SSH Keys' page. It provides instructions on how to add an SSH key and includes a form for the key and title.

**SSH Keys**  
SSH keys allow you to establish a secure connection between your computer and GitLab.

**Add an SSH key**  
To add an SSH key you need to [generate one](#) or use an [existing key](#).

**Key**  
Paste your public SSH key, which is usually contained in the file '~/.ssh/id\_ed25519.pub' or '~/.ssh/id\_rsa.pub' and begins with 'ssh-ed25519' or 'ssh-rsa'. Do not paste your private SSH key, as that can compromise your identity.

Typically starts with "ssh-ed25519 ..." or "ssh-rsa ..."

**Title**  
e.g. My MacBook key

**Expires at**  
yyyy/月/dd

Give your individual key a title.

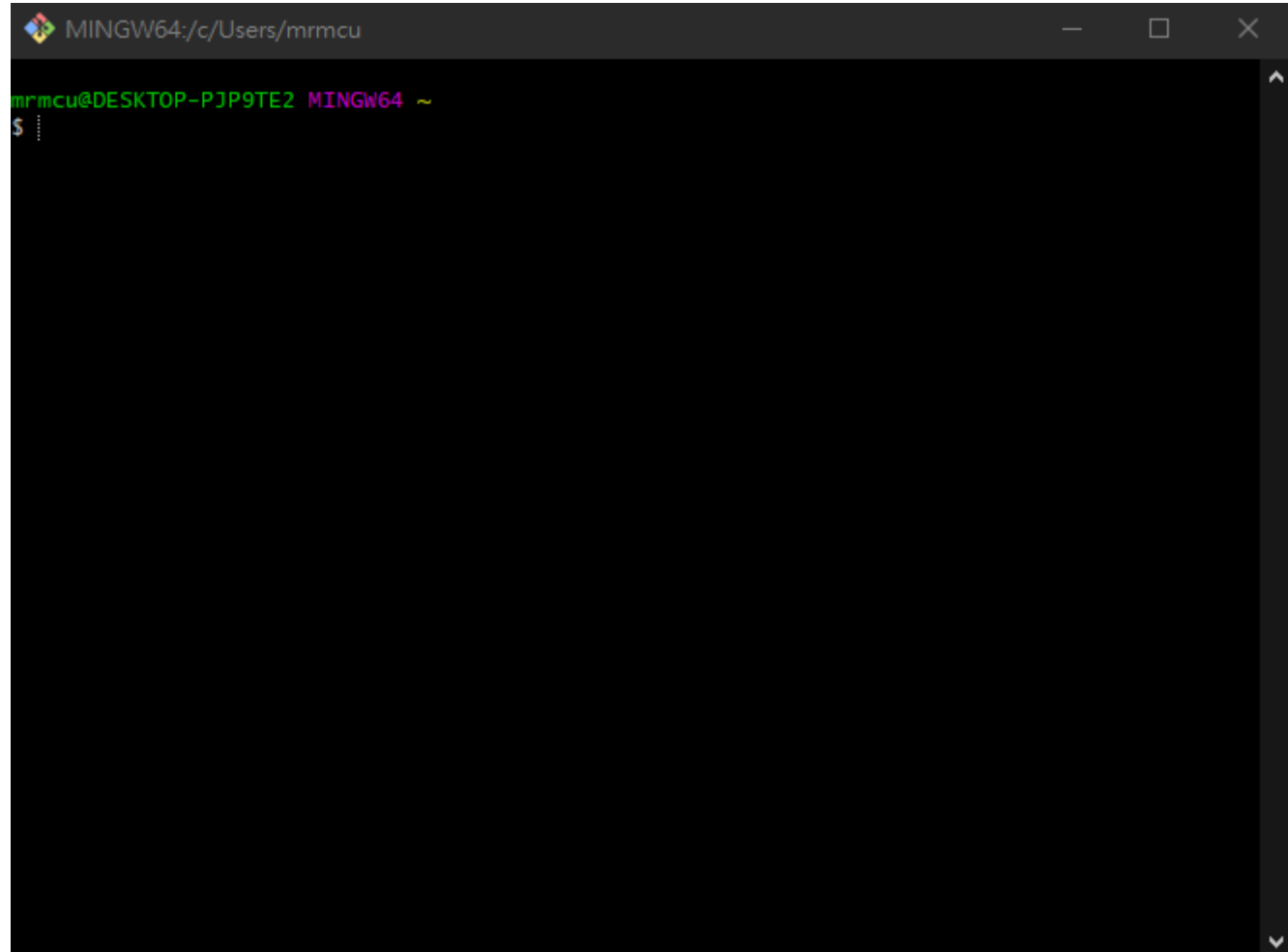
Add key

Prepare SSH Key From



SSH Keys

# Use Git Bash Generate SSH



# Set up the configuration for personal repository

```
MINGW64:/c/Users/mrmcu
mrmcu@DESKTOP-PJP9TE2 MINGW64 ~
$ git config --global user.name "CMALAB"

mrmcu@DESKTOP-PJP9TE2 MINGW64 ~
$ git config --global user.email "cmy@cmass.edu.hk"

mrmcu@DESKTOP-PJP9TE2 MINGW64 ~
$ : ssh-keygen -t rsa -C cmy@cmass.edu.hk

mrmcu@DESKTOP-PJP9TE2 MINGW64 ~
$ cat ~/.ssh/id_rsa.pub
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQGCfIRzuFIQTTg1U0XsCZG6kr1554Hmc+/Qz8rUhKA8A
5aHvavKKw/iShGCOHTq9YQRz0VyW90kIOwJIyWuSOvNPv4ekrouq0/1dzv6+Gc5a7QYM4jco8IiCaIV4
FIeaxNNAsRPFU3F7YoaVBfdnj43rrro4U3PcMvZ24pzE9zJnCPBtDjKNNozCijqX31gqWZriFiCCC74UU
w1vvNHtNqmZJhuYrZUqUiOTBWKW6XPFOZDZ5jFh/JuPJgSkjw+S+o/L4AvfwphyHE9kKDbVE4uJgA7i1
t5v00PKwQcCZYsyZW12eAjvTSUXCk90GyXesHmT7gjcC01tkT/csArbXk1/Y6ryBbzPs10NnaGqswpf7
8hWweknzxlA1hV+rTe6ya2dXvjLBG1Ih143s8PB6/86f7GA6v/ITE1Jqb7oW6HrS/258kC8/q+PitBo
9HmL1qdKCC6pwWHgA+TseCuYpb7DZNeJN0kQwa0e4TC0kIfZAipIwTmq30npGc70p4uI1sE= cmy@cma
ss.edu.hk

mrmcu@DESKTOP-PJP9TE2 MINGW64 ~
$
```

Steps:

1 Configuration of user name (same as the one provided by GITLAB Academany)

Run command: `git config --global user.name "name"`

2 Configuration of your email (same as the one registered in GITLAB)

Run command: `git config --global user.email "your.email"`

3 Generate SSH KEY, you could have several, one for each repo for instance.

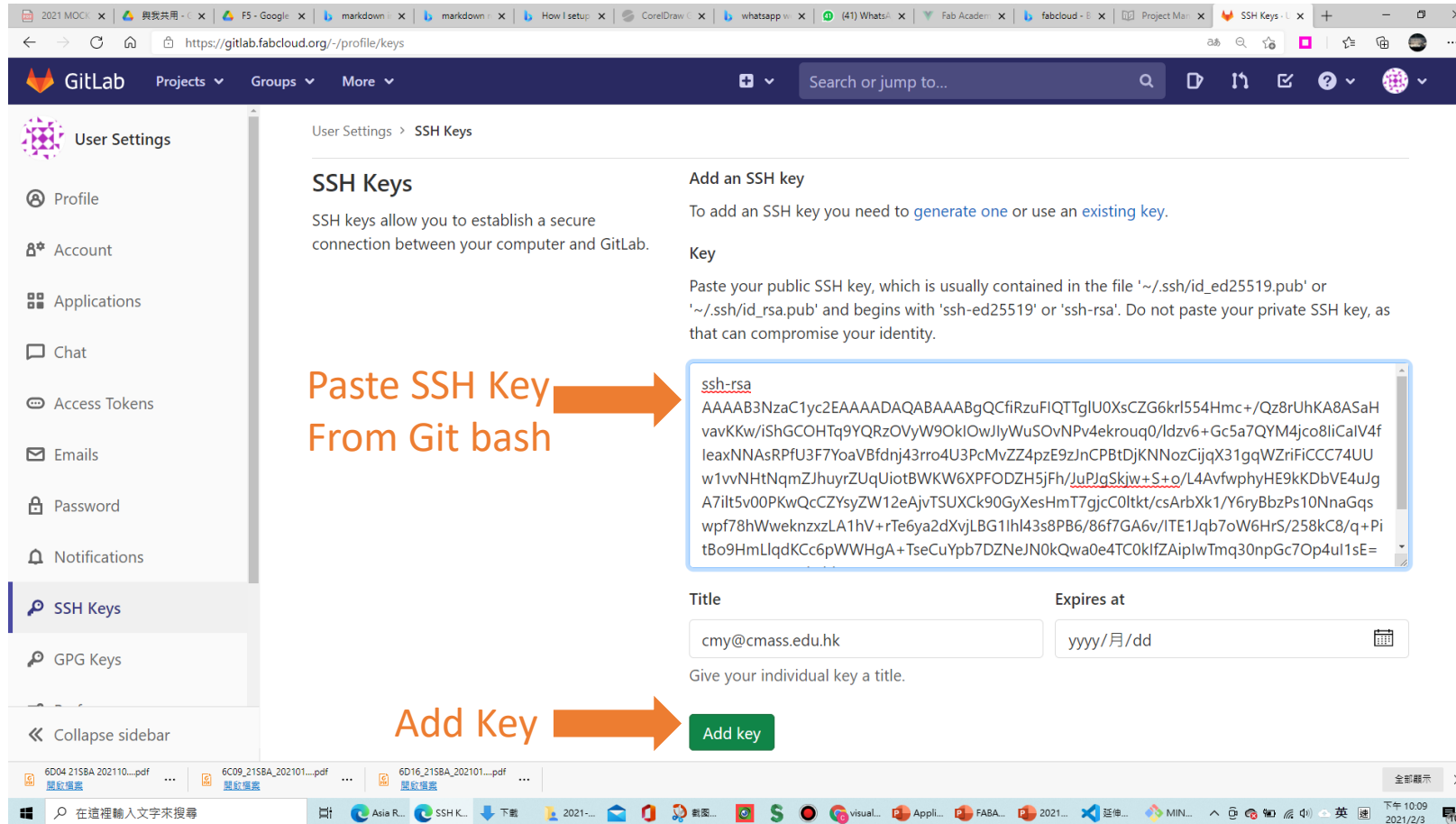
Run command: `ssh-keygen -t rsa -C your.email`

4 If you need to retrieve the SSH Key generated

Run command: `cat ~/.ssh/id_rsa.pub`

5 You need to copy the key you generated and then open your gitlab account and copy it inside User settings -> SSH KEYS.

# Paste SSH key to Gitlab and Add Key



The screenshot shows the GitLab user settings page for SSH Keys. The page title is "SSH Keys" and it includes a sidebar with navigation options like Profile, Account, Applications, Chat, Access Tokens, Emails, Password, Notifications, SSH Keys, and GPG Keys. The main content area is titled "SSH Keys" and explains that SSH keys allow for a secure connection between a computer and GitLab. It provides instructions on how to add a new SSH key, including a warning not to paste a private key. A text area for pasting the key is highlighted with a blue border, and an orange arrow points to it from the text "Paste SSH Key From Git bash". Below the text area, there are input fields for "Title" (containing "cmy@cmass.edu.hk") and "Expires at" (containing "yyyy/月/dd"). An orange arrow points to the "Add key" button from the text "Add Key".

SSH Keys

SSH keys allow you to establish a secure connection between your computer and GitLab.

Add an SSH key

To add an SSH key you need to [generate one](#) or use an [existing key](#).

Key

Paste your public SSH key, which is usually contained in the file '~/.ssh/id\_ed25519.pub' or '~/.ssh/id\_rsa.pub' and begins with 'ssh-ed25519' or 'ssh-rsa'. Do not paste your private SSH key, as that can compromise your identity.

Paste SSH Key From Git bash

```
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQGCfRzuFIQTtGlu0XsCZG6krI554Hmc+/Qz8rUHK8ASaH
vavKKw/iShGCOHTq9YQRzOVyW9OkIOWJlyWuSOvNPv4ekrouq0/ldzv6+Gc5a7QYM4jco8liCaIV4f
leaxNNAsRPfU3F7YoaVBfdnj43rro4U3PcMvZZ4pzE9zJnCPBtDjKNNNozCijqX31gqWZriFiCC74UU
w1vNHNqmZJhuYrZUqUiotBWKW6XPFOZDZ5jFh/JuPjgSkjw+S+o/L4AvfwphyHE9kKDbVE4uJg
A7ilt5v00PKwCcZyZw12eAjvTSUXck90GyXesHmT7gjcC0lkt/csArbXk1/Y6ryBbzPs10NnaGqs
wpf78hWweknzxA1hV+rTe6ya2dXvjLBG1lh43s8PB6/86f7GA6v/ITE1Jqb7oW6HrS/258kC8/q+Pi
tBo9HmLlqdKCC6pWWHgA+TseCuYpb7DZNeJN0kQwa0e4TC0kFZAiplwTmq30npGc7Op4ul1sE=
```

Title: cmy@cmass.edu.hk

Expires at: yyyy/月/dd

Add Key

Add key

# Copy URL for git clone (Clone your repository on Local computer)

The screenshot shows the GitLab interface for a repository. The 'Clone' button is clicked, revealing a dropdown menu with two options: 'Clone with SSH' and 'Clone with HTTPS'. The SSH URL is circled in orange. A large orange arrow points from this URL to the terminal command at the bottom of the image.

Name	Last commit	Last update
docs	replace photo	1 day ago
.gitignore	added week templates	2 years ago
.gitlab-ci.yml	Update template to latest Material theme version	2 weeks ago

```
git clone git@gitlab.fabcloud.org:academany/fabacademy/2021/labs/taipei/students/manyuen-cheung.git
```



# Edit Markdown with Visual Studio Code

