

# How To Use Multiple Github Accounts In Windows

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## Given Problem

Currently, we have multiple accounts on the same host - <https://github.com/>. It's difficult to work on lots of projects at the same time. Because it can cause the issue of using the personal mail for our work projects. It will violate the security of our companies.

How do we solve this issue?

## Some steps to use multiple Github accounts on the same machine

1. Create a new SSH key for each account on terminal

On Git Bash terminal, typing the following command:

```
ssh-keygen -t rsa -C "your_mail_address"
```

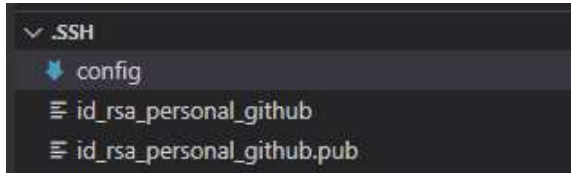
- -t stands for "type" and `rsa` is type of encryption.
- -C stands for "comment".

Then, it will show like the below comment:

```
Generating public/private rsa key pair.  
Enter file in which to save the key (/c/Users/your_username/.ssh/id_rsa):
```

We can type the name for this key as “id\_rsa\_name\_company\_github”.

Then, we’re defining the name\_company as personal name.



We can find these files in C:\Users\ducma\.ssh\id\_rsa\_personal\_github.

In this step, we don’t need to fill some words for passphrase.

2. Check these key files in .ssh folder.

```
ls -al ~/.ssh
```

Then, we have:

```
$ ls -al ~/.ssh  
total 48  
drwxr-xr-x 1 ducma 197609  0 Aug 2 07:09 .  
drwxr-xr-x 1 ducma 197609  0 Aug 2 07:25 ..  
-rw-r--r-- 1 ducma 197609 212 Aug 2 07:09 config  
-rw-r--r-- 1 ducma 197609 1831 Aug 1 19:10 id_rsa_personal_github  
-rw-r--r-- 1 ducma 197609 405 Aug 1 19:10 id_rsa_personal_github.pub
```

3. Create the config file in .ssh directory.

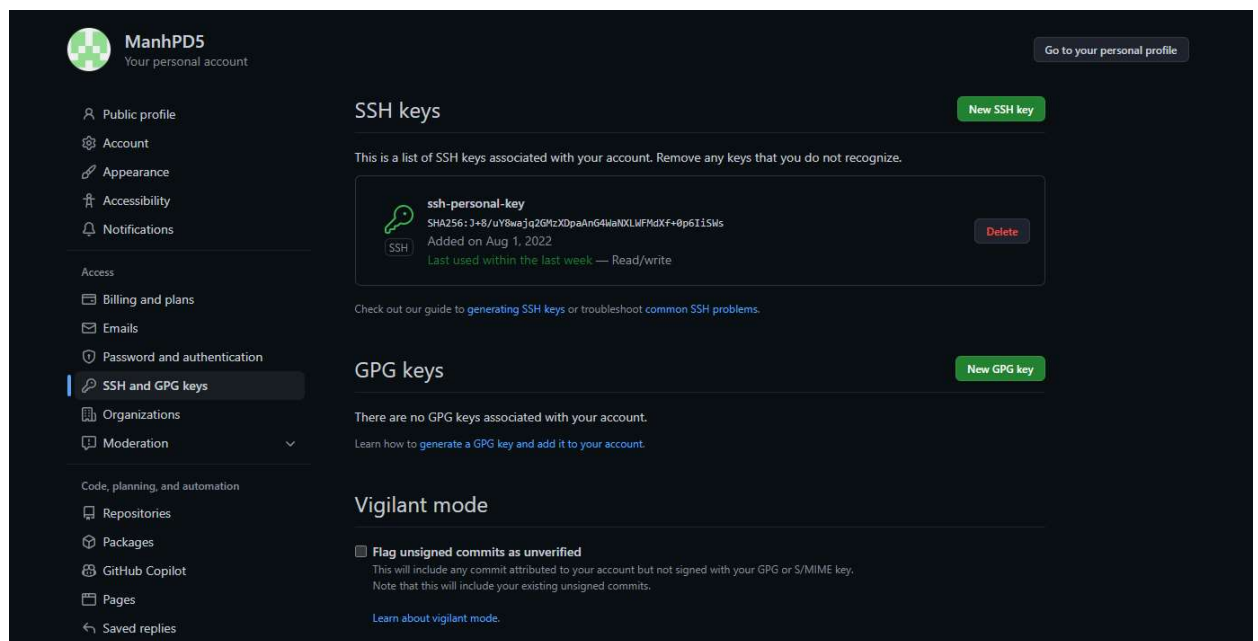
The content of this config file will follow the below rules:

```
# Personal github
Host personal
HostName github.com
User git
IdentityFile ~/.ssh/id_rsa_personal_github

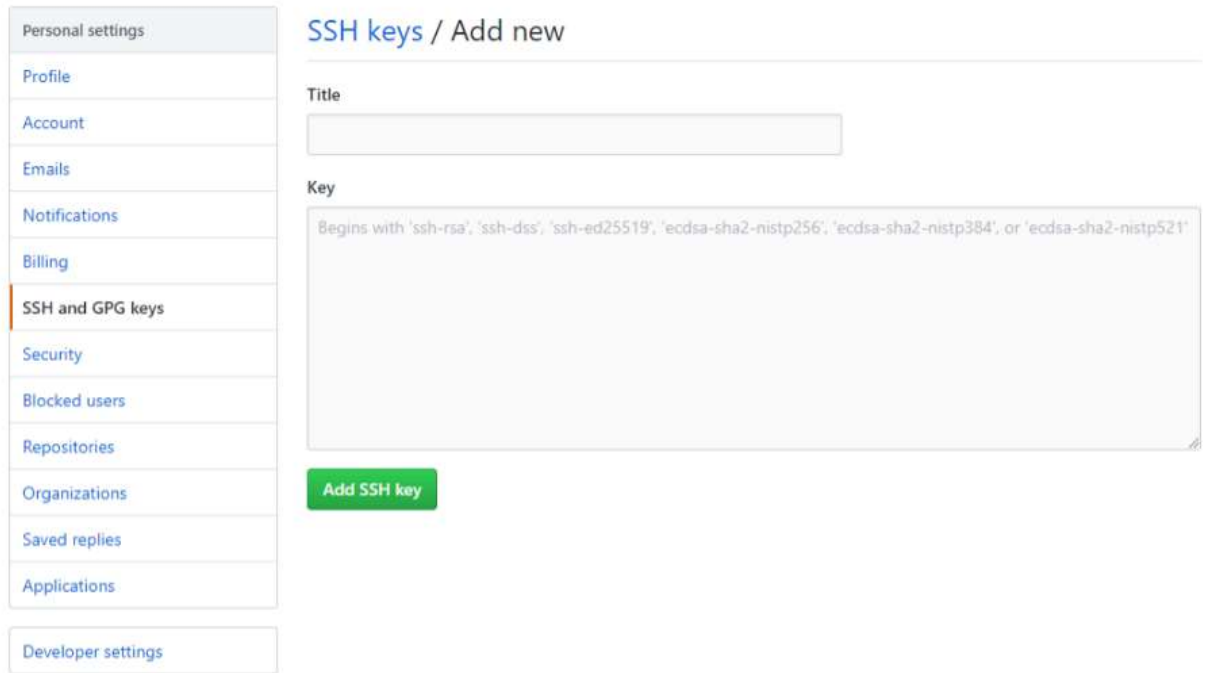
# Work github
Host name_company
HostName github.com
User git
IdentityFile ~/.ssh/id_rsa_name_company_github
```

#### 4. Add public key file's content to Github.

- Navigate to your Github account --> Settings --> SSH and GPG Keys .



- In this step, click New SSH key button to create a new ssh public key on Github.



- Then, we copy the public key file's content to Github.
- After that, it will look like the above image.

## 5. Test your connection with Github.

```
ssh -T git@personal  
  
ssh -T git@name_company
```

Then, we can have:

```
ducma@DESKTOP-PN2BUFA MINGW64 ~/.ssh  
$ ssh -T git@personal  
Hi DucManhPhan! You've successfully authenticated, but GitHub does not provide shell access.
```

## 6. Setup configuration for our projects.

- If our project's Git is existing with HTTPS mode, we should change it to using SSH mode.

```
# configure our name and email
git config user.name "our-name"
git config user.email "our-email"

# configure Git's url
git remote set-url origin git@`Host`:someone/name-project.git
```

For example, below is the configuration file in `doc-projects`.

```
[core]
  repositoryformatversion = 0
  filemode = false
  bare = false
  logallrefupdates = true
  symlinks = false
  ignorecase = true
  sshCommand = ssh -i ~/.ssh/id_rsa_personal_github
[remote "origin"]
  url = git@personal:DucManhPhan/doc-projects.git
  fetch = +refs/heads/*:refs/remotes/origin/*
[branch "main"]
  remote = origin
  merge = refs/heads/main
[user]
  email = ducmanhphan93@gmail.com
  name = manhpd
```

Actually, we don't need to configure `sshCommand` field to the command of `ssh`.

- If we didn't clone a project some time, we will follow the below commands:

```
# Personal Project
$ git clone git@personal:someone/project.git
$ cd /path/to/project

$ git config user.email "personal@email.com"
$ git config user.name "name"

# Work Project
$ git clone git@name_company:someone/project.git
$ cd /path/to/project

$ git config user.email "work@email.com"
$ git config user.name "work name"
```

- If we want to push a new projects to Github.

```
git init

git add .
git commit -m "First commit"

git remote add origin git@personal:someone/project.git
git push origin master
```

7. To check our steps above is successful or not.

Run the below command.

```
git pull
```

Then, we have:

```
ducma@DESKTOP-PN2BUFA MINGW64 /e/OneDrive/Visual Studio/Github/Git_ManhPD5/doc-projects (main)
$ git pull
Already up to date.
```

## Wrapping up

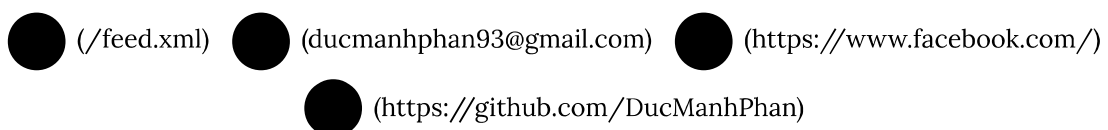
That's it for the guide that configures multiple Github accounts on one machine.

Thanks for reading. Have a great day.



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