

Having a faster git by using ssh

Problem

When you use git to manage and develop packages for some projects, you may encounter some problems, like error 110, error 443 and so on. It is best for you to change your agreement from http(s) to ssh.

Solution

1.Generate a new ssh key

```
1 ## enter you home dictionary
2 $cd
3
4 ## add your GitHub email and passphrase to ssh-keygen
5 #tip:If you are too old system that does not support the Ed25519 algorithm,
6 #you need to use this command:
7 #ssh-keygen -t rsa -b 4096 -C "email_address@example.com"
8 $ssh-keygen -t ed25519 -C "email_address@example.com"
9 Generating public/private ed25519 key pair
10 Enter a file in which to save the key(/your_path/.ssh/id_ed25519):
11 #just press enter to use the default path
12 Enter passphrase:
13 #input a passphrase like a passwd,
14 #which will be used for verify your identity when used ssh for git
15 Enter same passphrase again:#just input again
16
17 #Copy the ssh public key
18 $cat /your_path/.ssh/id_ed25519.pub #Copy all words
19
```

2.Add a ssh for your GitHub

Open the setting of your GitHub, like this:

Account settings
Profile
Account
Appearance New
Account security
Billing & plans
Security log
Security & analysis
Emails
Notifications
Scheduled reminders
SSH and GPG keys
Repositories
Packages

SSH keys

[New SSH key](#)

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

Then click New SSH key, like this

SSH keys / Add new

Title

Key

Begins with 'ssh-rsa', 'ecdsa-sha2-nistp256', 'ecdsa-sha2-nistp384', 'ecdsa-sha2-nistp521', or 'ssh-ed25519'

Add SSH key

Paste what you just copied to Key, then have a name for your key, like my thinkpad

3. Changing url

```
1 #Finally you need to change your project's git agreement
2 #enter a git project
3 $cd /{your_path}/{your_git_name}/
4
5 #change url
6 $vim .git/config
7 #you will see something, like this:
8 url = https://github.com/{your_GitHub_name}/{your_git_name}.git
9     fetch = +refs/heads/*:refs/remotes/origin/*
10 #just change ,like this:
11 [remote "origin"]
12     url = git@github.com:{your_GitHub_name}/{your_git_name}.git
13     fetch = +refs/heads/*:refs/remotes/origin/*
```

Having a test

Now, you can use it, like this:

```
1 ##test
2 $git pull
3 Enter passphrase for key '/{your_path}/.ssh/id_ed25519':
4 #input your passphrase
5
```