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.

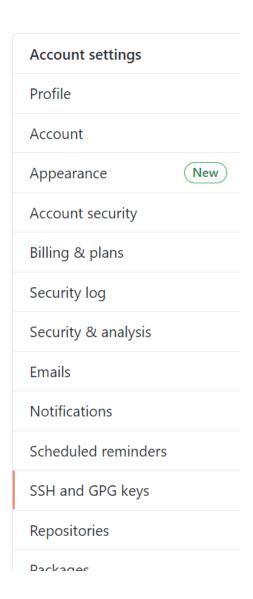
Solution

1.Generate a new ssh key

```
1 ## enter you home dictionary
 2 $cd
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 commmand:
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
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

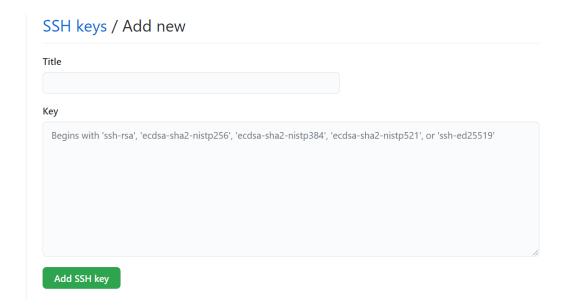
Open the setting of your GitHub, like this:





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



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

3. Changing url

```
#Finally you need to change your project's git aggreement
#enter a git project

$cd /{your_path}/{your_git_name}/

#change url

$vim .git/config

#you will see something, like this:

url = https://github.com/{your_GitHub_name}/{your_git_name}.git

fetch = +refs/heads/*:refs/remotes/origin/*

#just change ,like this:

[remote "origin"]

url = git@github.com:{your_GitHub_name}/{your_git_name}.git

fetch = +refs/heads/*:refs/remotes/origin/*
```

Having a test

Now, you can use it, like this:

```
##test
sgit pull
Enter passphrase for key '/{your_path}/.ssh/id_ed25519':
#input your passphrase
```