

### 第 3 步：验证绑定是否成功

## 第 1 步：生成 SSH key

```
huyon@LAPTOP-BDAHAE0K MINGW64 ~/github/demo (master)
$ ssh-keygen
usage: ssh-keygen [-D [bind_address:]port] [-E log_file] [-e escape_char]
                  [-F configfile] [-I pkcs11] [-i identity_file]
                  [-J [user@]host[:port]] [-L address] [-l login_name] [-m mac_spec]
                  [-O ctl_cmd] [-o option] [-p port] [-Q query_option] [-R address]
                  [-S ctl_path] [-W host:port] [-w local_tun[:remote_tun]]
                  [user@]hostname [command]

huyon@LAPTOP-BDAHAE0K MINGW64 ~/github/demo (master)
$ ssh-keygen -t rsa
Generating public/private rsa key pair.
Enter file in which to save the key (/c:/Users/huyon/.ssh/id_rsa):
Created directory /c:/Users/huyon/.ssh/.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c:/Users/huyon/.ssh/id_rsa.
Your public key has been saved in /c:/Users/huyon/.ssh/id_rsa.pub.
The key fingerprint is:
SHA256:kkcLClnpx9JupZWp91+IpwGEeANH7GnXzxf7d+CoJ5E huyon@LAPTOP-BDAHAE0K
The key's randomart image is:
+---[RSA 2048]---+
|  .oo          |
| o.+.         |
| o.oo.=o.     |
| .o.=B+.     |
| .+o=S+..o.o  |
| +o.E..+o.    |
| .oooooo      |
| .++..+       |
| .Yh..+       |
+---[SHA256]-----+

huyon@LAPTOP-BDAHAE0K MINGW64 ~/github/demo (master)
$
```

```
Your identification has been saved in /c/Users/huyon/.ssh/id_rsa.  
Your public key has been saved in /c/Users/huyon/.ssh/id_rsa.pub.
```

- Linux 系统: `~/.ssh`
- Mac 系统: `~/.ssh`
- Windows 系统: `C:\Documents and Settings\username\.ssh`
- Windows 10 ThinkPad: `C:\Users\think\.ssh`

密钥和公钥生成之后，我们要做的事情就是把公钥 `id_rsa.pub` 的内容添加到 GitHub，这样我们本地的密钥 `id_rsa` 和 GitHub 上的公钥 `id_rsa.pub` 才可以进行匹配，授权成功后，就可以向 GitHub 提交代码啦！

## 第 2 步：添加 SSH key

Personal settings

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Account

Emails

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SSH and GPG keys

Security

Sessions

Blocked users

Repositories

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Saved replies

SSH keys

New

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

huyon@LAPTOP-BDAHAE0K

Fingerprint: c2:f4:ff:97:e2:c7:12:68:5b:c6:c4:e0:fc:30:db:6e

Added on 3 Oct 2018

Never used — Read/write

SSH

Delete

Check out our guide to [generating SSH keys](#) or [troubleshoot common SSH Problems](#).

GPG keys

New GPG key

There are no GPG keys associated with your account.

Learn how to [generate a GPG key](#) and [add it to your account](#).

Signed in as richard1230

Your profile

Your repositories

Your stars

Your gists

Help

Settings

Sign out

SSH keys

New SSH key

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

huyon@LAPTOP-BDAHAE0K

Fingerprint: c2:f4:ff:97:e2:c7:12:68:5b:c6:c4:e0:fc:30:db:6e

Added on 3 Oct 2018

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SSH

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Check out our guide to [generating SSH keys](#) or [troubleshoot common SSH Problems](#).

GPG keys

New GPG key

There are no GPG keys associated with your account.

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## SSH keys / Add new

Title

Key

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

Add SSH key

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## SSH keys / Add new

Title

Key

```
ssh-rsa
AAAAB3NzaC1yc2EAAAQBAQAQ7S4021...vplGxguYRmTM3wjjwEiX2Ap0oaspzxUw1NFz4Zv84W
63uaeEqnHZY5XPS...ljqpElEPawJgQsve9GL...3FWZkPbsZOjEa8mlokiPbE6kAp3be2bJkzBQa0DE7m+
SYaQ/Ktsd/BNrg7iv...kOOSdbMV3D/3PzFV...XzWLnamsZhayN4hMT6yJP1pMd0c6pJ1pzgsWSTd3zq
wDSZQ+CjV105UK...+ZOoN7mY4bLzdDT8...n2Ytx9dZxhbLFEce9KXioxdyvjGzHDkLryMGV3Ww6yr7
NpGsv huyon@LAP...HAE0K
```

Add SSH key

## SSH keys

New SSH key

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



huyon@LAPTOP-BDAHAE0K

Fingerprint: c2:f4:ff:97:e2:c7:12:68:5b:c6:c4:e0:fc:30:db:6e

SSH

Added on 3 Oct 2018

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如上图所示，我们只需要将公钥 `id_rsa.pub` 的内容粘贴到 `Key` 处的位置（`Titles` 的内容不填写也没事），然后点击 `Add SSH key` 即可

`cat ~/.ssh/id_rsa.pub | clip` 这个命令也可

## 第 3 步：验证绑定是否成功

在我们添加完 `SSH key` 之后，也没有明确的通知告诉我们绑定成功啊！不过我们可以通过在 Git Bash 中输入 `ssh -T git@github.com` 进行测试：

```
huyon@LAPTOP-BDAHAE0K MINGW64 ~/github/demo (master)
$ ssh -T git@github.com
The authenticity of host 'github.com (192.30.253.113)' can't be established.
RSA key fingerprint is SHA256:nThbg6kXUpJWG17E1IGOCspRomTxdCARLviKw6E5SY8.
Are you sure you want to continue connecting (yes/no)? y
Please type 'yes' or 'no': y
Please type 'yes' or 'no': y
Please type 'yes' or 'no': y
Please type 'yes' or 'no': y
Host key verification failed.

huyon@LAPTOP-BDAHAE0K MINGW64 ~/github/demo (master)
$ ssh-keyscan github.com >> ~/.ssh/known_hosts
# github.com:22 SSH-2.0-libssh_0.7.0
# github.com:22 SSH-2.0-libssh_0.7.0
# github.com:22 SSH-2.0-libssh_0.7.0
$ ssh-keyscan github.com >> ~/.ssh/known_hosts

huyon@LAPTOP-BDAHAE0K MINGW64 ~/github/demo (master)
$ ssh -T git@github.com
Warning: Permanently added the RSA host key for IP address '192.30.253.113' to the list of known hosts.
Hi richard1230! You've successfully authenticated, but GitHub does not provide shell access.

huyon@LAPTOP-BDAHAE0K MINGW64 ~/github/demo (master)
$
```

查看

电脑 > Windows (C:) > 用户 > huyon > .ssh

名称	修改日期	类型	大小
id_rsa	2018/10/3 16:21	文件	2 KB
id_rsa.pub	2018/10/3 16:21	Microsoft Publisher...	1 KB
known_hosts	2018/10/3 16:47	文件	1 KB

如上图所示，此结果即为Git 与 GitHub 绑定成功的标志(出错的原因是因为少了一个文件 **known\_hosts** )