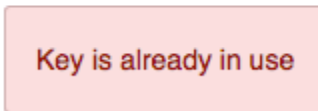
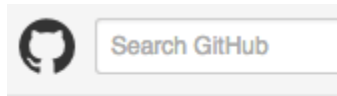


How To Use SSH With Multiple GitHub Accounts

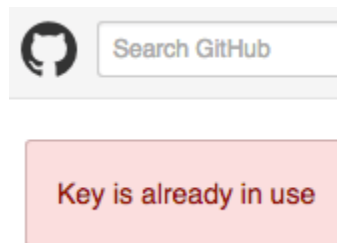
By [Itamar Ostricher](#) Wednesday, June 3, 2015 [3 Software Engineering](#) [git](#), [howto](#) [Permalink0](#)



All I wanted is to have two [GitHub](#) accounts, and use them both from the same computer, using SSH. Is this too much to ask?

I've been using my personal GitHub account for some time, and associated my default SSH keys with that account. When I created a work account on GitHub, I expected I'd be able to associate the same SSH keys with the work account, so I can `git pull/push` as easily.

This proved to be a problem. GitHub does not allow reusing SSH keys across accounts. Here is the message I got when trying to do that:



GitHub error message when trying to reuse SSH keys across accounts

I managed to overcome this problem by creating new SSH keys for the work account. Read on for the details.

Create new SSH keys

Start with creating new SSH key-pair. Assuming you already have default SSH keys under `~/.ssh/id_rsa`, make sure you specify a different path for the new keys.

```
1  itamar@legolas ~ $ ssh-keygen -C "email@work.com"
2
3  Generating public/private rsa key pair.
4
5  Enter file in which to save the key (/Users/itamar/.ssh/id_rsa): /Users/itamar/.ssh/id_work_rsa
6
7  Enter passphrase (empty for no passphrase):
8
9  Enter same passphrase again:
10
11 Your identification has been saved in /Users/itamar/.ssh/id_work_rsa.
12
13 Your public key has been saved in /Users/itamar/.ssh/id_work_rsa.pub.
14
15 The key fingerprint is:
16
17 f6:5c:d2:d8:08:17:23:98:d1:aa:4d:1f:80:24:24:d3 email@work.com
18
19 The key's randomart image is:
20
21 +---[ RSA 2048]-----+
22 |ooo.....=. o        |
23 | oE.. + .. o        |
24 |          o. .       |
25 |          o .o =     |
26 |          + .S.+ +   |
27 |          . ...o o    |
28 |          o           |
```

19		
20		
21	+-----+	

Associate the new SSH keys with a GitHub alias

This is needed to “help” Git use the correct keys. Add a *Host* entry to your SSH config file, usually under `~/.ssh/config` (create it if one doesn’t already exist):

1	Host github.work
2	HostName github.com
3	User git
4	IdentityFile ~/.ssh/id_work_rsa
5	IdentitiesOnly yes

Upload the new SSH keys

Copy the contents of the new SSH public key, and paste it as a [new SSH key on the GitHub account](#).

1	itamar@legolas ~ \$ cat /Users/itamar/.ssh/id_work_rsa.pub pbcopy
---	---

Add an SSH key

Title
macbook work

Key
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQACQZ878YPyQ280sqY1b0dWURBmRZ9FXZSCmYy0DhSLwM30xN
weCRXOQUUElJLUS9RKGmTMOGTZagXZ52NFThePmp97AD6UdxZM2ZFY5c37akicR2NgAAa3F250xWazLULArE
54+KpZ2mgKvTwefkzppFLRBPmby9P0Nn0W023Ca3aEPLwThv4bBMmKNCANQSc4vMgScmLOfawA7T8v1fmgC
LDsdICBIFeNgasF8ULYORgEBLpCAG6Zl9puWNm7Aa4XSSNwsSBM5c3mpQX8K0dNCNgk13AACgpmLUP2k
clRdyeMwRpeZWRB5_email@work.com

Add key

Use the GitHub.work alias as the remote URL

The final step is to tell the Git client to use the new SSH keys by using the alias:

```
1 itamar@legolas work $ git clone git@github.work:work/the-work-repo.git
2 Cloning into 'the-work-repo'...
3 remote: Counting objects: 130, done.
4 remote: Compressing objects: 100% (124/124), done.
5 remote: Total 130 (delta 60), reused 0 (delta 0)
6 Receiving objects: 100% (130/130), 403.23 KiB | 276.00 KiB/s, done.
7 Resolving deltas: 100% (60/60), done.
8 Checking connectivity... done.
```

That's it. You can see that the repository origin is using the work alias:

```
1 itamar@legolas the-work-repo (master) $ git remote -v
2 origin    git@github.work:work/the-work-repo.git (fetch)
3 origin    git@github.work:work/the-work-repo.git (push)
4 itamar@legolas the-work-repo (master) $ cat .git/config
5 [core]
6     repositoryformatversion = 0
7     filemode = true
8     bare = false
```

```
9      logallrefupdates = true
10     ignorecase = true
11     precomposeunicode = true
12 [remote "origin"]
13     url = git@github.work:work/the-work-repo.git
14     fetch = +refs/heads/*:refs/remotes/origin/*
15 [branch "master"]
16     remote = origin
17     merge = refs/heads/master
```

Notes

- While I used GitHub for the post, this works just as well with [Bitbucket](#), or any other Git hosting that supports SSH for that matter.
- Tested on a MacBook, should work pretty much the same on any Linux box. YMMV.
- I saw others write about this subject using ssh-agent. Not sure why it's needed. If you know – please share!