

免密设置

第一步 生成密钥对

查看你的用户目录下是否有 `.ssh` 目录，如果有再看下是否存在 `rsa` 密钥对文件。如果有跳过这一步，直接进入下一步。

```
ssh-keygen -t rsa -b 2048[/4096] -C "<comment>"
```

按回车

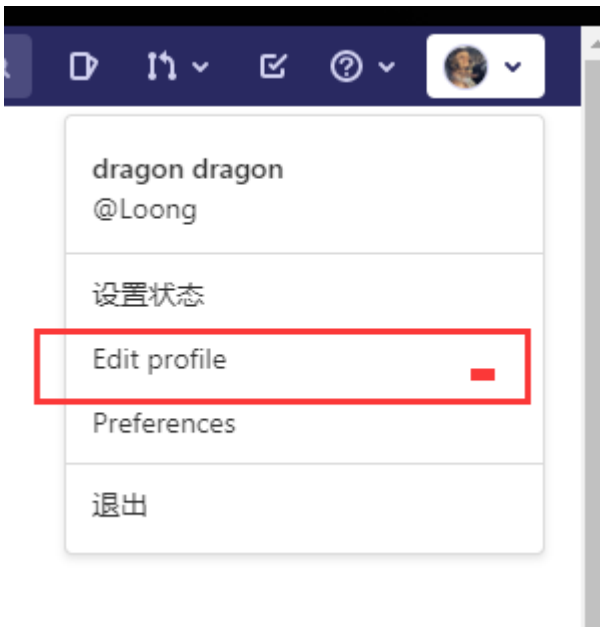
```
Generating public/private ed25519 key pair.  
Enter file in which to save the key (/home/user/.ssh/id_rsa):
```

设置口令：

```
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:
```

```
dragon@DRAGON-LAPTOP MINGW64 ~  
$ ssh-keygen -t rsa -b 4096 -C "literaryloong@gmail.com"  
Generating public/private rsa key pair.  
Enter file in which to save the key (/c/Users/dragon/.ssh/id_rsa):  
Created directory '/c/Users/dragon/.ssh'.  
Enter passphrase (empty for no passphrase):  
Enter same passphrase again:  
Your identification has been saved in /c/Users/dragon/.ssh/id_rsa  
Your public key has been saved in /c/Users/dragon/.ssh/id_rsa.pub  
The key's fingerprint is:  
SHA256:ZlZD2u3wTU5fJjJ4DKsKtIWibXWnaPsyf2tXEj3HwY literaryloong@gmail.com  
The key's randomart image is:  
+---[RSA 4096]-----+  
|  +0 . . o  
| o ..+ + *  
| . ..0.... B * + o|  
| o 000 o * B +.  
| . .000 S . E o .  
| . +..* o . .  
| . . . . . . o  
| . . . . . o .  
| . o .  
+-----[SHA256]-----+
```

第二步 添加 ssh 密钥



添加SSH密钥

连

要添加一个SSH密钥, 您需要[生成一个](#)或使用一个[现有的密钥](#)。

密钥

粘贴您的SSH 公钥, 通常包含在文件 '~/.ssh/id_ed25519.pub' 或 '~/.ssh/id_rsa.pub' 中, 并以"ssh-ed25519"或"ssh-rsa"开头。不要粘贴您的SSH私钥, 因为这会泄露您的身份信息。

通常以"ssh-ed25519 ..."或"ssh-rsa ..."开头

标题

例如: My MacBook Key

Give your individual key a title. This will be publicly visible.

到期于

年 / 月 / 日

Key can still be used after expiration.

添加密钥

把上面生成的密钥对的公钥填入输入框

id_rsa	2020/9/25 10:53	文件	4 KB
id_rsa.ppk	2020/9/27 9:27	PPK 文件	3 KB
id_rsa.pub	2020/9/25 10:53	Microsoft Publis...	1 KB
known_hosts	2020/12/11 17:24	文件	3 KB

添加SSH密钥

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密钥

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```
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQDoPdflH57yI0K/2G9FwQ3cb4xjESSMbTIdS+nFCQ5a/z
1oE/JCVuWpqOgvPNB5yvEU...
v...
qYAqqkmCO4AGDVfokYm...
o79pZPX2nekM...
MIHyd7XQPgi1TtfjYP7h/a8zg7tqGgVjNHIBBI9aAibCzL...
9nPMhklXA2uYOSfjeiWppUAOF7x7DIR4c37muam8UuZXmDL9DInqoziaix8QReASd6T...
G...

```

标题

literaryloong@gmail.com

Give your individual key a title. This will be publicly visible.

到期于

年 / 月 / 日

Key can still be used after expiration.

添加密钥

添加标题后, 点击添加密钥

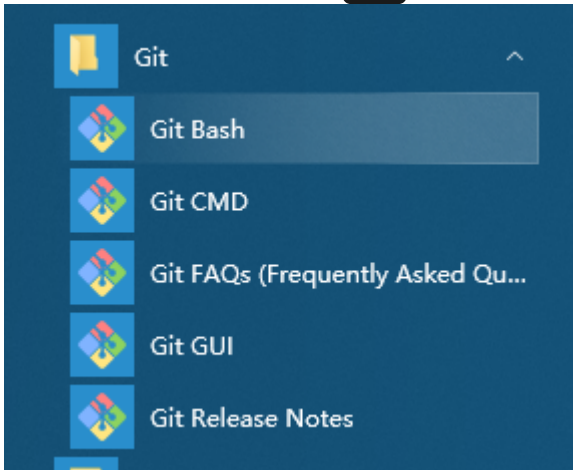


添加成功

使用

控制台操作

首先：自己电脑上需要安装 `git`
[Git - Downloading Package \(git-scm.com\)](#)
安装完成后,电脑会多出 `git` 控制台工具。



另外，也可以在控制台输入 `git`，会输出下面信息

```
C:\Users\liter>git
usage: git [--version] [--help] [-C <path>] [-c <name>=<value>]
          [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
          [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
          [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
          <command> [<args>]

These are common Git commands used in various situations:

start a working area (see also: git help tutorial)
  clone          Clone a repository into a new directory
  init           Create an empty Git repository or reinitialize an existing one

work on the current change (see also: git help everyday)
  add            Add file contents to the index
  mv             Move or rename a file, a directory, or a symlink
  restore        Restore working tree files
  rm             Remove files from the working tree and from the index
  sparse-checkout Initialize and modify the sparse-checkout

examine the history and state (see also: git help revisions)
  bisect         Use binary search to find the commit that introduced a bug
  diff           Show changes between commits, commit and working tree, etc
  grep           Print lines matching a pattern
  log            Show commit logs
  show           Show various types of objects
  status         Show the working tree status

grow, mark and tweak your common history
  branch         List, create, or delete branches
  commit         Record changes to the repository
  merge          Join two or more development histories together
  rebase         Reapply commits on top of another base tip
  reset          Reset current HEAD to the specified state
  switch         Switch branches
  tag            Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
  fetch          Download objects and refs from another repository
  pull           Fetch from and integrate with another repository or a local branch
  push           Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
to read about a specific subcommand or concept.
See 'git help git' for an overview of the system.
```

下面进入主题：如何管理自己的代码文档等
选择你参与的项目

The screenshot shows the top of a GitLab repository page for a project named 'it-pre'. At the top right, there are icons for notifications, stars (0), and forks (0). Below this, it shows '2 次提交', '1 个分支', '0 个标签', '205 KB 文件', and '215 KB 存储'. A link for 'Example GitBook site using GitLab Pages' is provided. The repository is currently on the 'master' branch. A red box highlights the '克隆' (Clone) button. Below the clone button, there is a commit history entry for 'Update README.md' by 'dragon dragon' 14 hours ago. A row of buttons for adding files and configurations is visible. A table lists repository files with their names, last commit, and update time. At the bottom, there is a section for 'README.md' with a '信息办' (Info) link.

名称	最后提交	最后更新
.gitignore	Initial template creation	2 years ago
.gitlab-ci.yml	Initial template creation	2 years ago
README.md	Update README.md	14 hours ago
SUMMARY.md	Initial template creation	2 years ago

克隆项目

点击 **克隆**

This image is a close-up of the '克隆' (Clone) dropdown menu. It shows three options: '使用 SSH 克隆' (Use SSH to clone), '使用 HTTP 克隆' (Use HTTP to clone), and 'Open in your IDE' (Open in your IDE). The '使用 SSH 克隆' option is highlighted with a red box, and its corresponding SSH URL 'ssh://git@gitlab.free-sun.vip:1' is also highlighted. A tooltip '复制链接' (Copy link) is visible over the copy icon next to the SSH URL. The '使用 HTTP 克隆' option shows the URL 'http://gitlab.free-sun.vip/it/i'. Below the dropdown, the text 'Open in your IDE' and 'Visual Studio Code' is visible. At the bottom right of the dropdown area, it says '2 years ago'.

使用 SSH 克隆，点后面的复制链接：

然后到你的工作目录，打开控制台：

```
.\workspace\source code>  
.\workspace\source code>  
.\workspace\source code>  
.\workspace\source code>git clone ssh://git@gitlab.free-sun.vip:1022/it/it-pre.git ./test
```

结果:

```
D:\workspace\source code>git clone ssh://git@gitlab.free-sun.vip:1022/it/it-pre.git ./test
Cloning into './test'...
The authenticity of host '[gitlab.free-sun.vip]:1022 ([222.186.227.197]:1022)' can't be established.
ECDSA key fingerprint is SHA256:g/LNgIwVA2/w1PNzGJpOTzifv3Z1k09ij/k2n6KyVKQ.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '[gitlab.free-sun.vip]:1022,[222.186.227.197]:1022' (ECDSA) to the list of known hosts.
remote: Enumerating objects: 6, done.
remote: Counting objects: 100% (6/6), done.
remote: Compressing objects: 100% (4/4), done.
remote: Total 12 (delta 1), reused 0 (delta 0), pack-reused 6
Receiving objects: 100% (12/12), done.
Resolving deltas: 100% (1/1), done.
```

到你的工作目录查看:

> 新加卷 (D:) > workspace > source code > test >

名称	修改日期	类型	大小
.git	2021/5/31 9:48	文件夹	
.gitignore	2021/5/31 9:48	Git Ignore 源文件	1 KB
.gitlab-ci.yml	2021/5/31 9:48	Yaml 源文件	1 KB
obyYww.txt	2021/5/31 9:48	文本文档	1 KB
README.md	2021/5/31 9:48	Markdown File	1 KB
SUMMARY.md	2021/5/31 9:48	Markdown File	1 KB

添加文件和提交

下面我们添加一个文件

.git	2021/5/31 9:48	文件夹	
.gitignore	2021/5/31 9:48	Git Ignore 源文件	1 KB
.gitlab-ci.yml	2021/5/31 9:48	Yaml 源文件	1 KB
gitlab.md	2021/5/28 17:59	Markdown File	4 KB
obyYww.txt	2021/5/31 9:48	文本文档	1 KB
README.md	2021/5/31 9:48	Markdown File	1 KB
SUMMARY.md	2021/5/31 9:48	Markdown File	1 KB

```
D:\workspace\source code\test>git add gitlab.md
warning: LF will be replaced by CRLF in gitlab.md.
The file will have its original line endings in your working directory
D:\workspace\source code\test>
```

下面提交:

```
D:\workspace\source code\test>git commit -m "add gitlab.md"
[master 4f6042e] add gitlab.md
 1 file changed, 185 insertions(+)
 create mode 100644 gtilab.md

D:\workspace\source code\test>
```

这时 文件提交到你的本地仓库,要想提交到远端仓库, 还需要push

```
D:\workspace\source code\test>git push
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 1.66 KiB | 567.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
To ssh://gitlab.free-sun.vip:1022/it/it-pre.git
 cc648bb..4f6042e  master -> master
```

现在看下效果:

The screenshot shows the GitLab interface for a repository named 'it-pre'. At the top, it displays the repository name, project ID (2), and statistics: 4 commits, 1 branch, 0 tags, 256 KB files, and 266 KB storage. Below this, there are navigation buttons for '历史', '查找文件', 'Web IDE', and '克隆'. The main content area shows a commit history table with the following data:

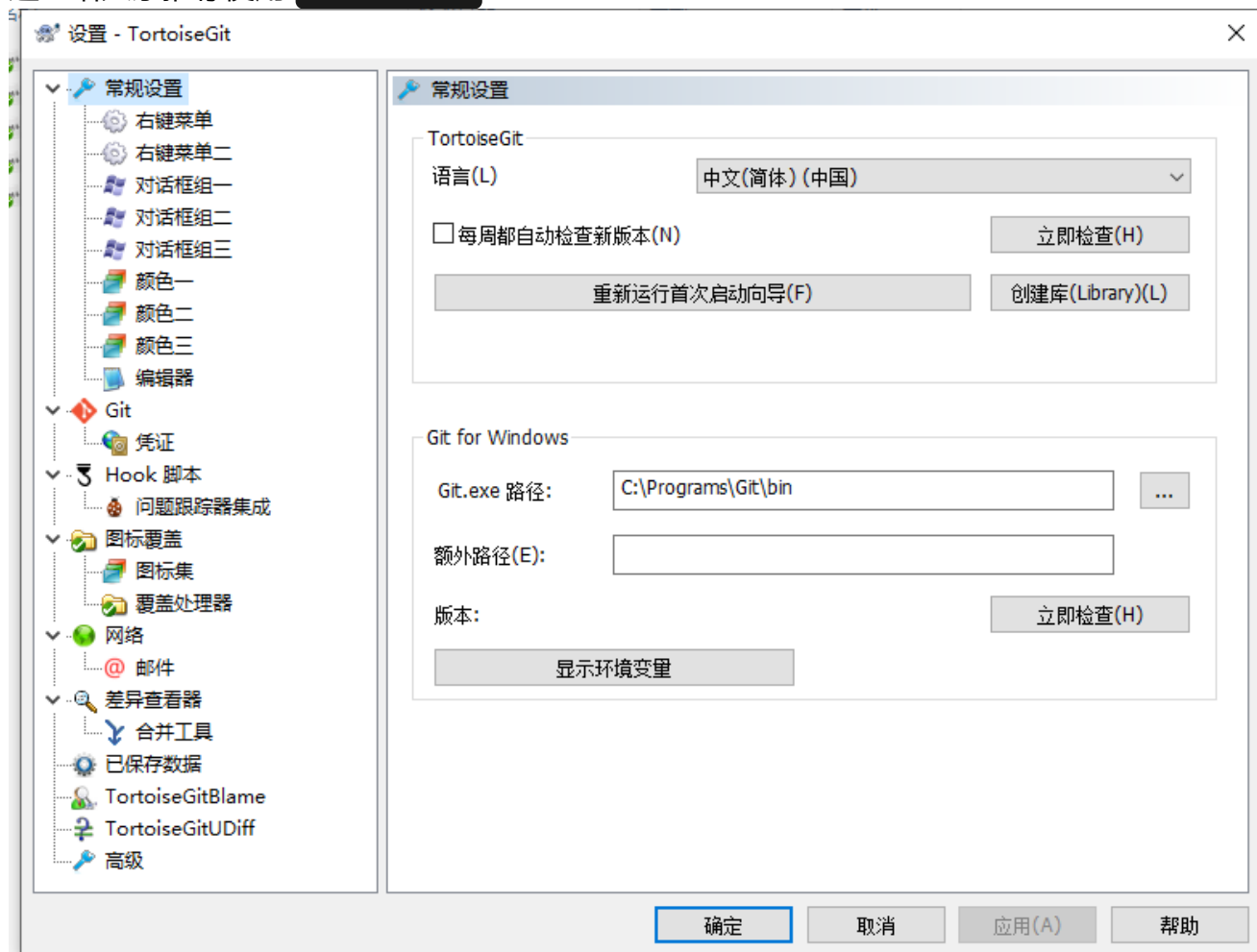
名称	最后提交	最后更新
.gitignore	Initial template creation	2 years ago
.gitlab-ci.yml	Initial template creation	2 years ago
README.md	Update README.md	15 hours ago
SUMMARY.md	Initial template creation	2 years ago
gtilab.md	add gitlab.md	2 minutes ago
obyYww.txt	commit test	46 minutes ago

Below the table, there is a section for 'README.md' with a file icon.

以上就是常用的git 操作。

使用 GUI 工具

这里给大家推荐使用 **TortoiseGit**



这个跟我们使用的 **svn** 工具很像，这里就不做介绍了。