前提准备:

- 1. 更改主机名为你的个人姓名;
- 2. git 工具的下载和安装(https://gitforwindows.org/);
- 3. github 上进行注册;
- 4. Git 开始连接 github 远程仓库。

一、Git 的配置

1.设置用户名和邮箱(--global 为全局参数,表明本地所有 Git 仓库都会使用这个配置)

```
git config --global user.name "yourname"
git config --global user.email "your_email@youremail.com"
```

2.生成密钥(SSH key)

```
ssh-keygen -t rsa -C "your email@youremail.com"
```

```
_ 🗆
                                 MINGW64:/c/Users/lhb_dell
lhb_dell@lhb MIN
$ git config --global user.name lhbcloud
lhb_dell@lhb MINGW64 ~
$ git config --global user.email 738949727@qq.com
lhb_dell@lhb MINGW64 ~
$ ssh-keygen -t rsa -C 738949727@qq.com
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/lhb_dell/.ssh/id_rsa):
Created directory '/c/Users/lhb_dell/.ssh'.
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/lhb_dell/.ssh/id_rsa.
Your public key has been saved in /c/Users/lhb_dell/.ssh/id_rsa.pub.
The key finaernrint is:
SHA256:
The key's randomart image is:
+---[RSA 3072]----+
     E+o. .
          .=0..
     -[SHA256]----+
 hb_dell@lhb MINGW64 ~
```

3.添加密钥(SSH key),并验证是否成功

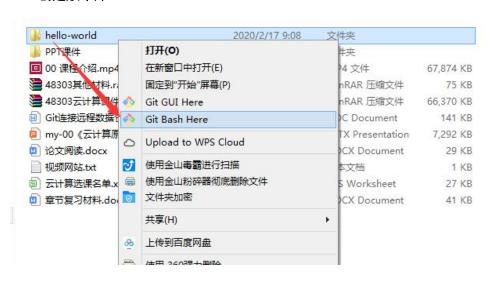
添加密钥:将上一步骤生成的密钥即.ssh/id_rsa.pub 中内容全部复制。在 github 的 Settings-->SSH and GPG keys-->New SSH key, key 中粘贴复制的内容(Title 自定义)。

验证: github 输入第一条的命令,码云输入第二条

二、创建项目工程

- 1.远程仓库: 在 github 中 New repository 输入 Repository name。[例如: hello-world]
- 2.项目工程: 在自己本地电脑上新建一个与 github 新项目工程同名的文件夹: hello-world

三、创建版本库



进入步骤二中的文件夹下,输入以下命令初始化仓库:

git init

```
lhb_dell@lhb MINGw64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world $ git init
Initialized empty Git repository in F:/教学文档/教学课件/云计算/云计算原理与实践/hello-world/.git/
lhb_dell@lhb MINGw64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (master)
$ |
```

出现: Initialized empty Git repository in E:/** /**/.git/ 则表示创建成功[注意: 此时会生成一个.git 目录(隐藏目录)]



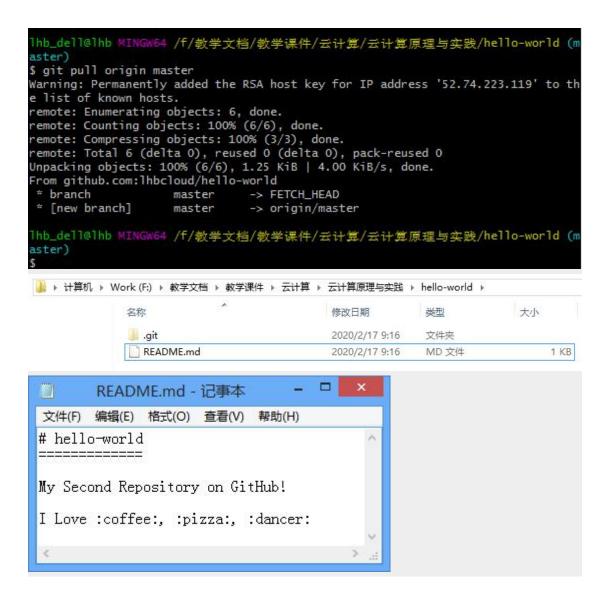
四、连接远程仓库(下面两种方式都可以)

git remote add origin git@github.com:yourName/repositoryname.git git remote add origin https://github.com/yourName/repositoryname.git

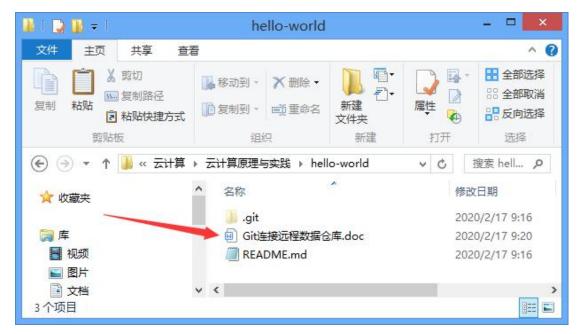


五、从远程仓库 pull 文件(若远程仓库没有文件,直接执行步骤六)

git pull origin master

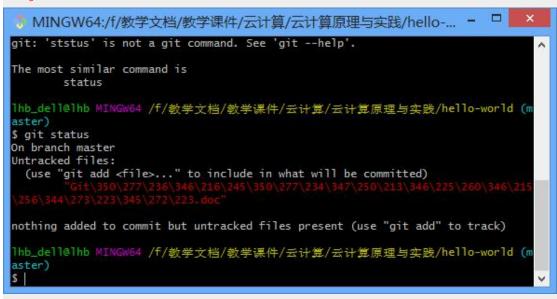


六、**将本地文件 push 到远程仓库**(若没有文件则手动创建)



1. git status

查看工作目录的状态



2. git add <file>

将文件添加到暂存区

```
🦣 MINGW64:/f/教学文档/教学课件/云计算/云计算原理与实践/hello-... -
 lhb_dell@lhb MINGw64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m
 aster)
 $ git status
 On branch master
Untracked files:
  (use "git add <file>..." to include in what will be committed)
nothing added to commit but untracked files present (use "git add" to track)
 lhb_dell@lhb MINGW64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m
 aster)
 $ git add Git连接远程数据仓库.doc
 lhb_dell@lhb MINGW64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m
 aster)
 🦣 MINGW64:/f/教学文档/教学课件/云计算/云计算原理与实践/hello-... -
nothing added to commit but untracked files present (use "git add" to track)
 lhb_dell@lhb MINGw64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m
aster)
$ git add Git连接远程数据仓库.doc
 lhb_dell@lhb MINGW64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m
 aster)
$ git status
 On branch master
 Changes to be committed:
  (use "git restore --staged <file>..." to unstage)
                  "Git\350\277\236\346\216\245\350\277\234\347\250\213\346\225
        new file:
 260\346\215\256\344\273\223\345\272\223.doc
 lhb_dell@lhb MINGW64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m
                                  提交更改,添加备注信息(此时将暂存区的信息提
3. git commit -m "commnet"
交到本地仓库)
 🦣 MINGW64:/f/教学文档/教学课件/云计算/云计算原理与实践/hello-... 💻
$ git status
                                                                          ^
On branch master
Changes to be committed:
       "git restore --staged <file>..." to unstage)
new file: "Git\350\277\236\346\216\245\350\277\234\347\250\213\346\225
 260\346\215\256\344\273\223\345\272\223.doc'
 lhb_dell@lhb MINGw64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m
 aster)
 $ git commit -m 测试提交新文件
 [master c3f2f52] 测试提交新文件
 1 file changed, 0 insertions(+), 0 deletions(-) create mode 100644 "Git\350\277\236\346\216\245\350\277\234\347\250\213\346\225
 \260\346\215\256\344\273\223\345\272\223.doc
 lhb_dell@lhb MINGW64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m
```

aster)

4. git push origin master 将本地仓库的文件 push 到远程仓库 (若 push 不 成功, 可加 -f 进行强推操作) lhb_dell@lhb MINGW64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m aster) \$ git push origin master Enumerating objects: 4, done. Counting objects: 100% (4/4), done. Delta compression using up to 2 threads Compressing objects: 100% (3/3), done. Writing objects: 100% (3/3), 208.35 KiB | 826.00 KiB/s, done. Total 3 (delta 0), reused 0 (delta 0) To github.com:lhbcloud/hello-world.git 3ca4032..c3f2f52 master -> master lhb_dell@lhb MINGW64 /f/教学文档/教学课件/云计算/云计算原理与实践/hello-world (m aster) **♠** +- **№**(-Pull requests Issues Marketplace Explore Signed in as Ihbcloud ProTip! Updating your profile with your name, location, and a profile picture helps other GitHub users get to know you. Set status Overview Repositories 2 Projects 0 Packages 0 Stars 0 Followers 0 Following 0 Your repositories Edit profile Your projects Type: All → Lang Your stars (Joined 2 hours ago hello-world Help Updated 1 minute ag Settings Cloud Private ★ Star □ Ihbcloud / hello-world **⊙** Unwatch **▼** 1 ★ Star 0 ¥ Fork 0 ♦ Code ① Issues 0 ↑ Pull requests 0 ♠ Actions | Projects 0 ₩ Wiki ↑ Security | Insights ♦ Settings No description, website, or topics provided. Edit Manage topics 3 commits & 1 branch O releases 10 packages 1 contributor Branch: master **▼** New pull request Create new file Upload files Find file Clone or download Ihbcloud 测试提交新文件 Latest commit c3f2f52 4 minutes ago ■ Git连接远程数据仓库.doc 测试提交新文件 4 minutes ago README.md Update README.md 1 hour ago README.md

注: 至此已经完成了 远程与本地仓库的配置,若需要单独配置可见以下操作

七、所遇问题及解决办法

Q1. git pull origin master 无法进行 pull,出现如下提示:

git pull origin master

fatal: unable to access 'https://github.com/yourName/Demo.git': error
setting certificate verify locations:

CAfile: G:/Program Files/Git/mingw64/ssl/certs/ca-bundle.crt

CApath: none

分析: ca-bundle.crt 文件是证书文件。根据提示 CApath: none 没有该文件,所以无法访问远程仓库

解决: 修改为正确路径 或者 将证书验证设置 false

git config --system http.sslcainfo E:/Program
Files/Git/mingw64/ssl/certs/ca-bundle.crt
git config --system http.sslverify false

Q2.git pull origin master 出现如下提示:

fatal: refusing to merge unrelated histories

解决: 如下操作即可解决

git pull origin master --allow-unrelated-histories

Q3.每次 git push origin master 时都需要输入用户名和密码:

因为配置的时候使用的是 https 协议, 所以每次都需要输入

git remote -v 查看远程连接
git remote rm origin 删除远程连接
git remote add origin git@github.com:yourName/repositoryname.git

Q4: git 报错\$ git push -u origin master ERROR: Repository not found. fatal: Could not read from remote repository

git remote set-url origin https://github.com/lhb738441242/Test.git