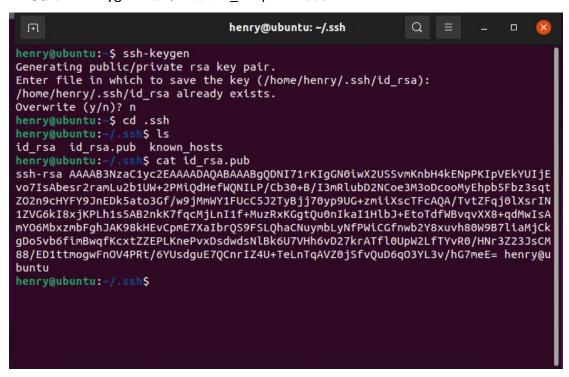
Linux 第七周小组作业

组长 201180189 周子航 组员 201180006 梁境熙

实验流程:

1. 使用 ssh-keygen 命令生成 id rsa.pub 公钥。



己生成公钥

2. 使用 ssh-copy-id 命令将公钥拷贝至远端另外一台计算机。

```
Current time: Sat Apr 2 11:10:25 PM CST 2022
henry@ubuntu:~$ ssh-copy-id gituser@192.168.1.105
/usr/bin/ssh-copy-id: INFO: attempting to log in with the new key(s), to filter out any that are already installed
/usr/bin/ssh-copy-id: INFO: 1 key(s) remain to be installed -- if you are prompt ed now it is to install the new keys gituser@192.168.1.105's password:

Number of key(s) added: 1

Now try logging into the machine, with: "ssh 'gituser@192.168.1.105'" and check to make sure that only the key(s) you wanted were added.

henry@ubuntu:~$
```

ssh-copy-id 命令执行结果

```
gituser@shineast-virtual-machine:~$ cd .ssh
gituser@shineast-virtual-machine:~\.ssh$ cat authorized_keys
ssh-rsa AAAAB3Nzac1yc2EAAAADAQABAAABgQDAOMWELGIdLj/NBL/kb2HeUp8yAIAGL8U4ehVjpimx7z4cI
dokDIzz@mXtwk,BVLkO8yBIW32SzXHsrP07E+99N0iW9JiEWMYRW751VE917BtQLd4H6MErjqWsyL/vQ/Kghm
HWifw179qM5rCE4p6hCtexKiY2ZX7qBKIxrRpt7nxB5M+n0FFC53LuDCXxKpieEP0rKqDYDbDWidIwl7KxGwO
lrmdkApp+/tg/HEQ545LQCqapuHqvdhkt85Y+t08w4kzmH0U3pR0FrTavf8LAup0j4WRX01BAb5IuoqG61LKY
qG6aPyzK0borilAd8CVH/O88m7ZNPD14Fx88/e2Vf2165d8iqKGttP5yszvQMtUjV907TE17XV5uiW9CaVKLlP
e2p46LhHYr/MMR7kfov2z/u/wA9ElXTt0NrDysfsQy4jcZRYJsHisZIoENmu2ERiQoT9xU7tmadl3g1ze74kY
LdrnT9oLfbufKitUtsy0bAK2vufmX7EhF0Aeeddws= shineast@shineast-virtual-machine
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQDNI71rKIgGN0iwX2USSvmKnbH4kENpPKIPVEKYUIjEvo7Is
Abesr2ramLu2b1UW+2PMiQdHefWQNILP/Cb30+B/I3mRlubD2NCoe3M3oDcooMyEhpb5Fbz3sqtZ02n9cHYFY
9JnEDk5ato3Gf/w9jMmWY1FUcC5J2TyBjj70yp9UG+zmiiXscTFcAQA/TvtZFqj0lXsrIN1ZVG6k18xjKPLh1
s5AB2nkK7fqcMjln1If+MuzRxKGgtQu0nIkaI1HtbJ+EtoTdfHBvqvXX8HqdMwIsAmY06MbxzmbFghJaK98kH
EVCpmE7XaIbrQS9FSLQhaCNuymbLyNfPWiCGfnwb2Y8xuvh80W9B7liaMjCkgDoSvb6fimBwqfKcxtZZEPLKn
ePvxDsdwdsNlBk6U7VHh6vD27krATfloUpW2LfTvVR0/HNr3Z23JscM88/ED1ttmogwFnOV4PRt/6YUsdguE7
QCnrIZ4U+TeLnTqAVZ0jSfvQuD6q03YL3v/hG7meE=
henry@ubuntu
gituser@shineast-virtual-machine:~/.ssh$
```

已拷贝至另一台计算机上

3. 使用 git config 命令初始化用户姓名和邮箱。

```
henry@ubuntu:~/.ssh$ git config -l
user.name=201180189-Zhou Zihang
user.email=792872682@qq.com
core.editor=vim
color.ui=true
henry@ubuntu:~/.ssh$
```

git config 初始化完毕

4. 使用 git clone 将远端仓库克隆至本地。

```
henry@ubuntu:~/EElinux/w7$ git clone gituser@192.168.1.105:~/201180006.git
Cloning into '201180006'...
warning: You appear to have cloned an empty repository.
henry@ubuntu:~/EElinux/w7$
```

git clone 克隆远程仓库

5. 使用 git remote 命令添加一个同学的仓库作为远端仓库。

```
henry@ubuntu:~/EElinux/w7/201180006$ git remote add origin gituser@192.168.1.105
:~/201180006.git
henry@ubuntu:~/EElinux/w7/201180006$
```

6. 进入自己学号目录下编写基本的 C 程序,要求有源文件和头文件。

```
add.c
       - app
       - app1
       convert1
        convert.c
        makefile
        head.h
    libcalc.a
    libcalc.so
    main.c
   sub.c
       - head.h
       - libcalc.so
       main.c
        add.c
        head.h
        main.c
        makefile
        sub.c
       - add.c
       - head.h
       - main.c
      - sub.c
5 directories, 25 files
```

7. 使用 git status 命令查看状态。

```
henry@ubuntu:~/EElinux/w7/201180006$ git status
On branch master

No commits yet

Untracked files:
   (use "git add <file>..." to include in what will be committed)
        w6/

nothing added to commit but untracked files present (use "git add" to track)
henry@ubuntu:~/EElinux/w7/201180006$
```

8. 使用 git add 命令添加新文件至索引。

```
henry@ubuntu:~/EElinux/w7/201180006$ git add .
henry@ubuntu:~/EElinux/w7/201180006$ git status
On branch master

No commits yet

Changes to be committed:
   (use "git rm --cached <file>..." to unstage)
        new file: w6/add.c
        new file: w6/hw_6/app
        new file: w6/hw_6/app1
        new file: w6/hw_6/convert.c
        new file: w6/hw_6/convert1
        new file: w6/hw_6/makefile
        new file: w6/include/head.h
        new file: w6/libcalc.a
        new file: w6/libcalc.so
        new file: w6/sub.c
        new file: w6/sub.c
        new file: w6/sest1_lib/head.h
        new file: w6/test1_lib/head.h
        new file: w6/test1_lib/head.c
        new file: w6/test2_make/add.c
        new file: w6/test2_make/head.h
        new file: w6/test2_make/main.c
        new file: w6/test2_make/main.c
        new file: w6/test2_make/sub.c
        new file: w6/test3_gdb/add.c
        new file: w6/test3_gdb/pp
        new file: w6/test3_gdb/head.h
        new file: w6/test3_gdb/pp
        new file: w6/test3_gdb/pp
        new file: w6/test3_gdb/sub.c

henry@ubuntu:~/EELinux/w7/201180006$
```

9. 使用 git commit 命令对本地仓库进行提交。

```
henry@ubuntu:~/EElinux/w7/201180006$ git commit -m 'v1'
[master (root-commit) 542fed2] v1
 25 files changed, 148 insertions(+)
 create mode 100644 w6/add.c
 create mode 100755 w6/hw_6/app
 create mode 100755 w6/hw_6/app1
 create mode 100644 w6/hw_6/convert.c
 create mode 100755 w6/hw_6/convert1
 create mode 100644 w6/hw_6/makefile
 create mode 100644 w6/include/head.h
create mode 100644 w6/libcalc.a create mode 100755 w6/libcalc.so
 create mode 100644 w6/main.c
 create mode 100644 w6/sub.c
 create mode 100755 w6/test1_lib/app
 create mode 100644 w6/test1 lib/head.h
 create mode 100755 w6/test1 lib/libcalc.so
 create mode 100644 w6/test1 lib/main.c
 create mode 100644 w6/test2_make/add.c
 create mode 100644 w6/test2_make/head.h
 create mode 100644 w6/test2_make/main.c
 create mode 100644 w6/test2_make/makefile
create mode 100644 w6/test2_make/sub.c
create mode 100644 w6/test3_gdb/add.c
create mode 100755 w6/test3_gdb/app
create mode 100644 w6/test3_gdb/head.h
 create mode 100644 w6/test3_gdb/main.c
create mode 100644 w6/test3_gdb/sub.c
henry@ubuntu:
```

10.使用 git push 命令将本地仓库分支推送至远端 sesa 服务器。

```
henryQubuntu:~/EElinux/w7/201180006$ git push --set-upstream origin master Enumerating objects: 22, done.
Counting objects: 100% (22/22), done.
Delta compression using up to 2 threads
Compressing objects: 100% (18/18), done.
Writing objects: 100% (22/22), 11.57 KiB | 658.00 KiB/s, done.
Total 22 (delta 6), reused 0 (delta 0), pack-reused 0
To 192.168.1.105:~/201180006.git
* [new branch] master -> master
Branch 'master' set up to track remote branch 'master' from 'origin'.
henryQubuntu:~/EElinux/w7/201180006$
```

11. 自行设计练习 git branch 命令用法。

```
henry@ubuntu:-/EElinux/w7/201180006$ git branch

* master
henry@ubuntu:-/EElinux/w7/201180006$ git branch dev
henry@ubuntu:-/EElinux/w7/201180006$ git branch
dev

* master
henry@ubuntu:-/EElinux/w7/201180006$ git checkout dev
Switched to branch 'dev'
henry@ubuntu:-/EElinux/w7/201180006$ git branch

* dev
   master
henry@ubuntu:-/EElinux/w7/201180006$ touch hello.c
henry@ubuntu:-/EElinux/w7/201180006$ ls
hello.c w6
```

创建一个新的 dev 分支用于开发

```
henry@ubuntu:~/EElinux/w7/201180006$ git status
On branch dev
Untracked files:
    (use "git add <file>..." to include in what will be committed)
        hello.c

nothing added to commit but untracked files present (use "git add" to track)
henry@ubuntu:~/EElinux/w7/201180006$ git add .
henry@ubuntu:~/EElinux/w7/201180006$ git commit -m 'a new version'
[dev 7adb552] a new version
    1 file changed, 0 insertions(+), 0 deletions(-)
    create mode 100644 hello.c
henry@ubuntu:~/EElinux/w7/201180006$ git status
On branch dev
nothing to commit. working tree clean
```

```
henry@ubuntu:~/EElinux/w7/201180000$ git checkout master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
henry@ubuntu:~/EElinux/w7/201180000$ git status
On branch master
Your branch is up to date with 'origin/master'.

nothing to commit, working tree clean
henry@ubuntu:~/EElinux/w7/201180000$ ls
w6
```

Dev 分支不影响主分支的结构

12.自行设计练习 git fetch 命令用法。

```
henry@ubuntu:-/EElinux/w7/t$ git fetch
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Compressing objects: 100% (2/2), done.
remote: Total 2 (delta 0), reused 0 (delta 0), pack-reused 0
Unpacking objects: 100% (2/2), 213 bytes | 213.00 KiB/s, done.
From 192.168.1.109:~/test
    03acede..81cdea1 master -> origin/master
```

13. 自行设计练习 git merge 命令用法。

```
henry@ubuntu:~/EElinux/w7/201180006$ git status
On branch master
Your branch is up to date with 'origin/master'.
nothing to commit, working tree clean
henry@ubuntu:~/EElinux/w7/201180006$ ls
henry@ubuntu:~/EElinux/w7/201180006$ git merge
Already up to date.
henry@ubuntu:~/EElinux/w7/201180006$ git merge dev
Updating 542fed2..7adb552
Fast-forward
hello.c | 0
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 hello.c
henry@ubuntu:~/EElinux/w7/201180006$ ls
hello.c
henry@ubuntu:~/EElinux/w7/201180006$
```

git merge 命令将 dev 分支合并至 master 主分支