

🗨 linux环境搭建（Ubuntu）

🗨 目录

1. [安装git](#)
2. [安装zsh](#)
3. [常用工具](#)
4. [conda安装](#)
5. [c++环境搭建](#)

[安装git](#)

📦 安装

```
1 | sudo apt-get install git
```

📦 配置

```
1 | # 配置git
2 | git config --global user.name "张三"
3 | git config --global user.email "email@sian.com"
```

📦 生成密钥

输完之后一直敲回车即可

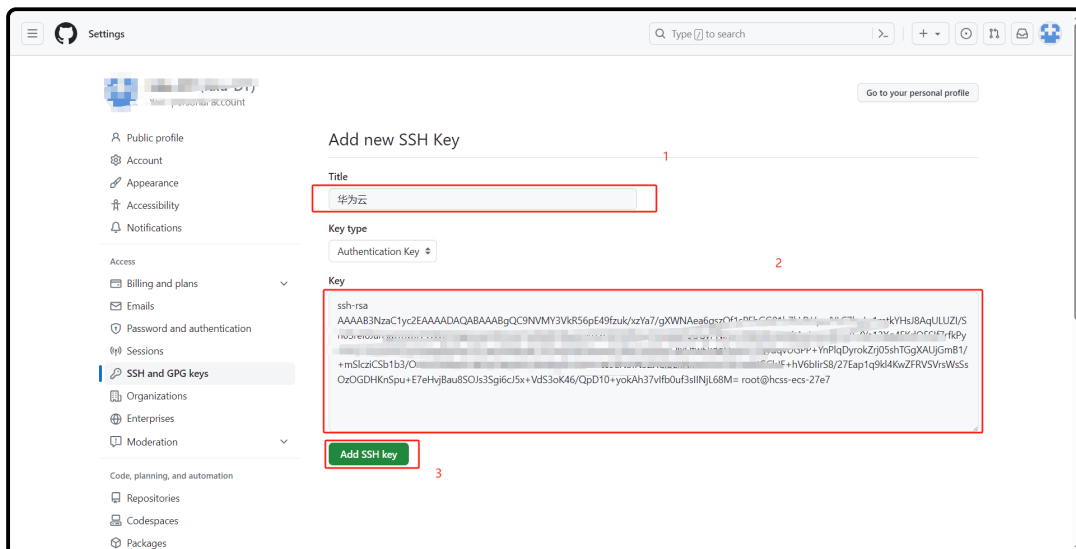
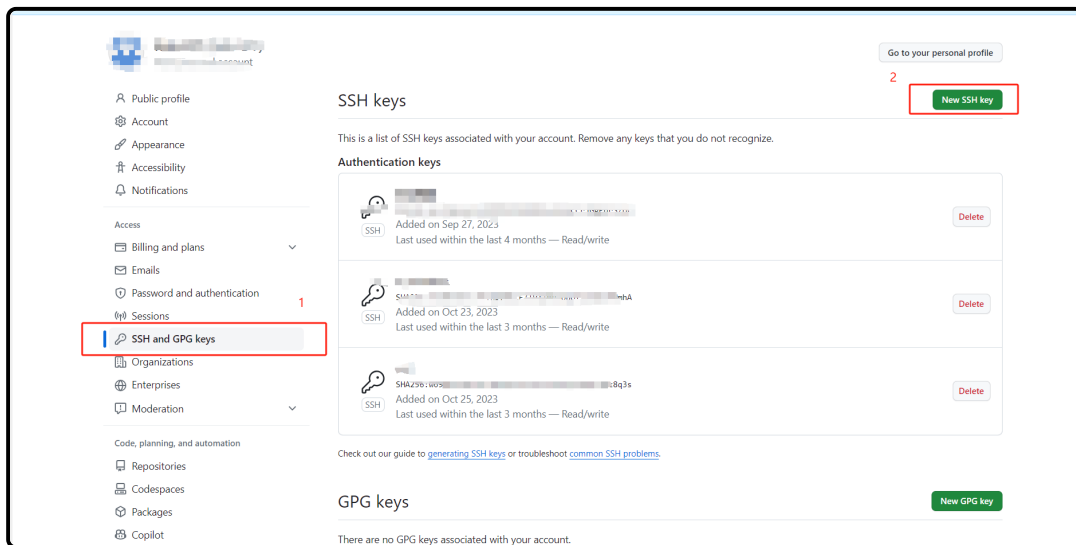
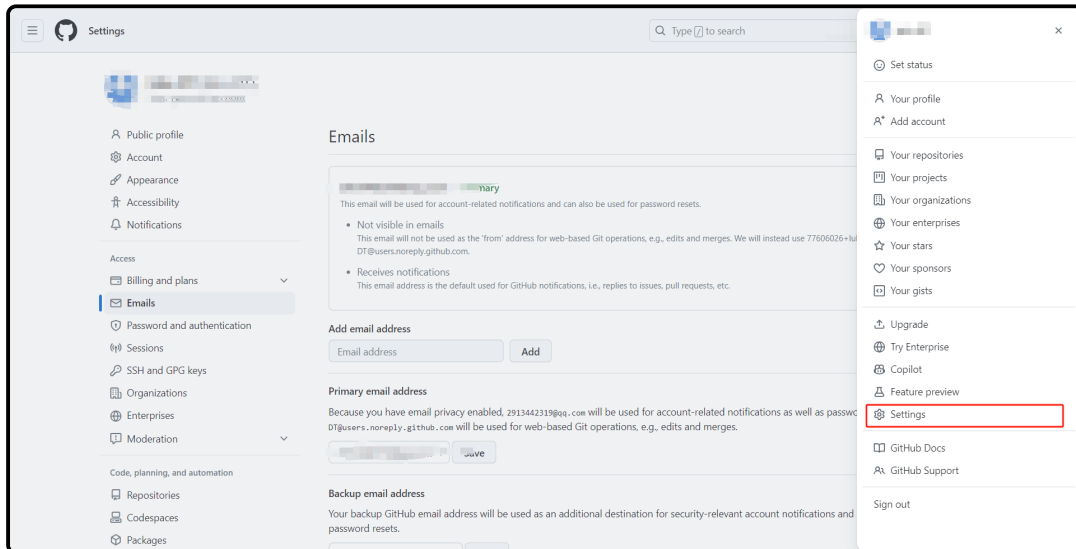
```
1 | ssh-keygen -t rsa
```

📦 添加密钥到github/gitee

查看密钥，复制到剪贴板

```
1 | cat ~/.ssh/id_rsa.pub
2 | # ssh-rsa *****
```

点击右上角头像，进入setting界面





安装zsh

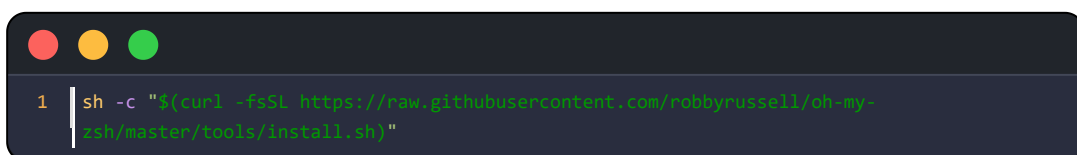
如果你还不知道什么是zsh以及为什么要用zsh，可以阅读以下文章

[Linux 效率神器--开始使用 Zsh - 知乎 \(zhihu.com\)](https://zh.wikipedia.org/wiki/Zsh)

安装



使用oh-my-zsh



zsh-syntax-highlighting

提供语法高亮，爱护眼睛首选

```
1 git clone https://gitee.com/lu-dingtao/zsh-syntax-highlighting.git ~/.oh-my-zsh/plugins/zsh-syntax-highlighting
```

zsh-autosuggestions

自动补全，爱护手指首选，敲tab键即可

```
1 git clone https://gitee.com/lu-dingtao/zsh-autosuggestions.git ~/.oh-my-zsh/plugins/zsh-autosuggestions
```

修改 ~/.zshrc 插件配置

```
1 sed -i "s/plugins=.* /plugins=(git sudo zsh-autosuggestions zsh-syntax-highlighting conda-zsh-completion z sublime vscode)/g" ~/.zshrc
```

或者手动打开 ~/.zshrc，找到 plugins 这一行替换插件

```
1 vi ~/.zshrc
```

```
30
31 # Uncomment the following line to change how often to auto-update (in days).
32 # zstyle ':omz:update' frequency 13
33
34 # Uncomment the following line if pasting URLs and other text is messed up.
35 # DISABLE_MAGIC_FUNCTIONS=true
36
37 # Uncomment the following line to disable colors in ls.
38 # DISABLE_LS_COLORS=true
39
40 # Uncomment the following line to disable auto-setting terminal title.
41 # DISABLE_AUTO_TITLE=true
42
43 # Uncomment the following line to enable command auto-correction.
44 # ENABLE_CORRECTION=true
45
46 # Uncomment the following line to display red dots whilst waiting for completion.
47 # You can also set it to another string to have that shown instead of the default red dots.
48 # e.g. COMPLETION_WAITING_DOTS="%fyellowwaiting...%f"
49 # Caution: this setting can cause issues with multiline prompts in zsh < 5.7.1 (see #5765)
50 # COMPLETION_WAITING_DOTS=true
51
52 # Uncomment the following line if you want to disable marking untracked files
53 # under VCS as dirty. This makes repository status check for large repositories
54 # much, much faster.
55 # DISABLE_UNTRACKED_FILES_DIRTY=true
56
57 # Uncomment the following line if you want to change the command execution time
58 # stamp shown in the history command output.
59 # You can set one of the optional three formats:
60 # "mm/dd/yyyy" (e.g. mm/dd/yyyy)
61 # or set a custom format using the strftime function format specifications,
62 # see 'man strftime' for details.
63 # HIST_STAMPS="mm/dd/yyyy"
64
65 # Would you like to use another custom folder than $ZSH/custom?
66 # ZSH_CUSTOM=path/to/new-custom-folder
67
68 # Which plugins would you like to load?
69 # Standard plugins can be found in $ZSH/plugins/
70 # Custom plugins may be added to $ZSH_CUSTOM/plugins/
71 # Example format: plugins=(rails git textmate ruby lighthouse)
72 # plugins=(git)
73
74
75 source $ZSH/oh-my-zsh.sh
76
77 # User configuration
78
79 # export MANPATH="/usr/local/man:$MANPATH"
80
81 # You may need to manually set your language environment
82 # export LANG=en_US.UTF-8
83
84 # Preferred editor for local and remote sessions
85 # if [[ -n $SSH_CONNECTION ]]; then
86 #   export EDITOR='vim'
87 # else
88 #   export EDITOR='nvim'
89
90 set nu
```

其它配置（看自己的使用习惯）

也可以手动打开 ~/.zshrc 进行修改

1. 修改主题为ys

```
1 sed -i "s/ZSH_THEME=\".*\"/ZSH_THEME=\"ys\"/g" ~/.zshrc
```

2. 添加~/bin到path

PATH用于查找可执行文件路径

```
1 | sed -i '$a export PATH=~/.bin:${PATH}' ~/.zshrc
```

3. 设置时间显示格式

```
1 | sed -i '$a HIST_STAMPS="yyyy-mm-dd"' ~/.zshrc
```

4. git快捷键

○ git status

```
1 | sed -i '$a alias gst="git status"' ~/.zshrc
```

📖 使用心得

1. tab键补全

敲命令的时候按tab键可以补全命令，继续按可以切换

5. cd - 切换路径

○ cd - + tab 查看历史路径

○ cd - + number 快速跳转路径，eg: cd -2

6. -> 历史命令补全

如果你在敲命令的时候发现后面已经显示出来你想要敲的命令，按 -> 方向键直接补全

4. gst

等价于 git status，快速查看仓库 status

工具下载

📖 1. htop

top的进阶版，查看进程及资源使用，类似于windows的任务管理器

```
1 | sudo apt-get install htop
```

2. ncdu

```
1 | sudo apt-get install ncdu
```

conda安装

 下载

```
1 cd /your/workspace
2 wget https://mirrors.tuna.tsinghua.edu.cn/anaconda/miniconda/Miniconda3-latest-Linux-
  x86_64.sh
```

📦 安装

一路yes加回车即可

```
1 | bash Miniconda3-latest-Linux-x86_64.sh
```

📦 配置（清华镜像）

```
1 | conda config --add channels https://mirrors.tuna.tsinghua.edu.cn/anaconda/pkg/main/
2 | conda config --add channels https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/bioconda/
3 | conda config --add channels https://mirrors.tuna.tsinghua.edu.cn/anaconda/cloud/conda-
  | forge/
4 | conda config --set show_channel_urls yes
```

C++环境搭建

TODO:

```
1 | sudo apt-get install gdb gcc g++ make cmake cgdb
```

vscode 环境搭建

TODO:

📦 clangd安装

clangd用于提供代码补全，跳转，格式化等功能

```
1 | sudo apt-get install clangd
```