

如何同时安装 python3 与 python2

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- 环境
Ubuntu16.04
- 安装包
[Anaconda2-4.3.1-Linux-x86_64.sh](#)
[Anaconda3-4.4.0-Linux-x86_64.sh](#)
- 安装, 配置环境

Python3

获取超级用户权限。命令: `su`

进入安装包文件夹, 执行命令: `bash Anaconda3-4.4.0-Linux-x86_64.sh`

```
root@lyz-VirtualBox:/home# cd lyz
root@lyz-VirtualBox:/home/lyz# cd Downloads/
root@lyz-VirtualBox:/home/lyz/Downloads# ls
Anaconda2-4.3.1-Linux-x86_64.sh  geckodriver-v0.19.0-linux64.tar.gz
Anaconda3-4.4.0-Linux-x86_64.sh
root@lyz-VirtualBox:/home/lyz/Downloads# bash Anaconda3-4.4.0-Linux-x86_64.sh
```

这里直接按下 Enter 键确认。

```
pycrypto
A collection of both secure hash functions (such as SHA256 and RIPEMD160),
and various encryption algorithms (AES, DES, RSA, ElGamal, etc.).

pyopenssl
A thin Python wrapper around (a subset of) the OpenSSL library.

kerberos (krb5, non-Windows platforms)
A network authentication protocol designed to provide strong authentication
for client/server applications by using secret-key cryptography.

cryptography
A Python library which exposes cryptographic recipes and primitives.

Do you approve the license terms? [yes|no]
>>>
Please answer 'yes' or 'no':
>>> yes
```

这里要选择批准许可条款, 即输入 yes。

```

Please answer 'yes' or 'no':
>>> yes

Anaconda3 will now be installed into this location:
/root/anaconda3

- Press ENTER to confirm the location
- Press CTRL-C to abort the installation
- Or specify a different location below

[/root/anaconda3] >>> /opt/Anaconda3/

```

手动输入安装路径，例如/opt/Anaconda3/，然后按下 Enter 键确认。

```

installing: wcwidth-0.1.7-py36_0 ...
installing: werkzeug-0.12.2-py36_0 ...
installing: wheel-0.29.0-py36_0 ...
installing: widgetsnbextension-2.0.0-py36_0 ...
installing: wrapt-1.10.10-py36_0 ...
installing: xlrd-1.0.0-py36_0 ...
installing: xlswriter-0.9.6-py36_0 ...
installing: xlwt-1.2.0-py36_0 ...
installing: xz-5.2.2-1 ...
installing: yaml-0.1.6-0 ...
installing: zeromq-4.1.5-0 ...
installing: zict-0.1.2-py36_0 ...
installing: zlib-1.2.8-3 ...
installing: anaconda-4.4.0-np112py36_0 ...
installing: conda-4.3.21-py36_0 ...
installing: conda-env-2.6.0-0 ...
Python 3.6.1 :: Continuum Analytics, Inc.
creating default environment...
installation finished.
Do you wish the installer to prepend the Anaconda3 install location
to PATH in your /root/.bashrc ? [yes|no]
[no] >>> no

```

After a while, 问你要不要把 Anaconda3 的安装路径加入到/root/.bashrc（配置文件）中，大胆地选择 No。

```

installation finished.
Do you wish the installer to prepend the Anaconda3 install location
to PATH in your /root/.bashrc ? [yes|no]
[no] >>> no

You may wish to edit your .bashrc or prepend the Anaconda3 install location:

$ export PATH=/opt/Anaconda3/bin:$PATH

Thank you for installing Anaconda3!

Share your notebooks and packages on Anaconda Cloud!
Sign up for free: https://anaconda.org

root@lyz-VirtualBox:/home/lyz/Downloads# sudo gedit /root/.bashrc

```

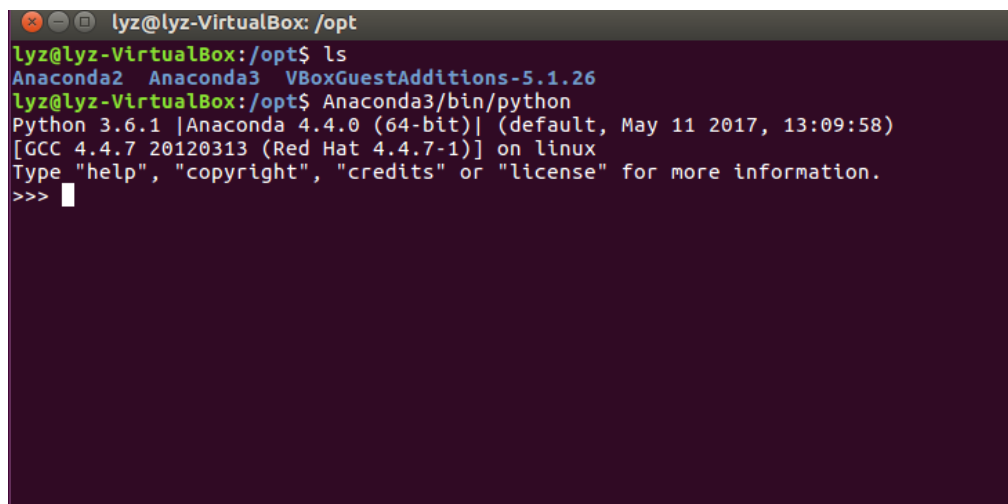
通过 Gedit(当然也可是其他文本编辑器，如果你喜欢)修改配置文件。

```
# Alias definitions.
# You may want to put all your additions into a separate file like
# ~/.bash_aliases, instead of adding them here directly.
# See /usr/share/doc/bash-doc/examples in the bash-doc package.

if [ -f ~/.bash_aliases ]; then
    . ~/.bash_aliases
fi

# enable programmable completion features (you don't need to enable
# this, if it's already enabled in /etc/bash.bashrc and /etc/profile
# sources /etc/bash.bashrc).
#if [ -f /etc/bash_completion ] && ! shopt -oq posix; then
#    . /etc/bash_completion
#fi
export PATH = '/opt/Anaconda2/bin:$PATH'
export PATH = '/opt/Anaconda3/bin:$PATH'
```

如上图所示 `export PATH = "/opt/Anaconda3/bin:$PATH"`。图中的 Anaconda2 路径不要管。



```
lyz@lyz-VirtualBox: /opt
lyz@lyz-VirtualBox:/opt$ ls
Anaconda2  Anaconda3  VBoxGuestAdditions-5.1.26
lyz@lyz-VirtualBox:/opt$ Anaconda3/bin/python
Python 3.6.1 |Anaconda 4.4.0 (64-bit)| (default, May 11 2017, 13:09:58)
[GCC 4.4.7 20120313 (Red Hat 4.4.7-1)] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> █
```

验证 python3 是否安装成功，需要指定路径 `/Anaconda3/bin/`。

Python2

安装 Anaconda3 后，接着安装 Anaconda2。安装方式与 Anaconda3 相同，唯一不同的就是更改安装路径，验证 python2 的时候也要指定 Anaconda2 的安装路径。最后效果如下：

```
lyz@lyz-VirtualBox:/opt$ ls
Anaconda2  Anaconda3  VBoxGuestAdditions-5.1.26
lyz@lyz-VirtualBox:/opt$ Anaconda3/bin/python
Python 3.6.1 |Anaconda 4.4.0 (64-bit)| (default, May 11 2017, 13:09:58)
[GCC 4.4.7 20120313 (Red Hat 4.4.7-1)] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> exit()
lyz@lyz-VirtualBox:/opt$ Anaconda2/bin/python
Python 2.7.13 |Anaconda 4.3.1 (64-bit)| (default, Dec 20 2016, 23:09:15)
[GCC 4.4.7 20120313 (Red Hat 4.4.7-1)] on linux2
Type "help", "copyright", "credits" or "license" for more information.
Anaconda is brought to you by Continuum Analytics.
Please check out: http://continuum.io/thanks and https://anaconda.org
>>> █
```

(有问题或者建议，欢迎小伙伴们发邮件共同讨论)