

Python 更改 PyPI 源

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本文链接： <https://www.cndba.cn/dave/article/2261>

使用PIP管理Python包非常方便，关于PIP的使用可以参考如下链接：
Linux安装pip及使用
<http://www.cndba.cn/Expect-le/article/110>

但PIP模式用的是<https://pypi.python.org/>作为源，其访问速度太慢。所以建议使用国内的PIP源代替。目前可用替代的PIP源有：

- 阿里云 <http://mirrors.aliyun.com/pypi/simple/>
- 中国科学技术大学 <https://pypi.mirrors.ustc.edu.cn/simple/>
- 中国科学技术大学 <http://pypi.mirrors.ustc.edu.cn/simple/>
- 清华大学 <https://pypi.tuna.tsinghua.edu.cn/simple/>

指定Pip源有两种方法：

1) 在使用pip时通过-i参数指定，如：

```
[dave@www.cndba.cn pip-9.0.1]# lsb_release -a
LSB Version:      :base-4.0-amd64;base-4.0-noarch;core-4.0-amd64;core-4.0-noarch;graphics-4.0-amd64;graphics-4.0-noarch;printing-4.0-amd64;printing-4.0-noarch
Distributor ID:   RedHatEnterpriseServer
Description:      Red Hat Enterprise Linux Server release 6.7 (Santiago)
Release:          6.7
Codename:         Santiago
[dave@www.cndba.cn pip-9.0.1]#
[dave@www.cndba.cn pip-9.0.1]# python -V
Python 2.6.6
[dave@www.cndba.cn pip-9.0.1]# pip install psutil -i https://pypi.mirrors.ustc.edu.cn/simple/
DEPRECATION: Python 2.6 is no longer supported by the Python core team, please upgrade your Python. A future version of pip will drop support for Python 2.6
Collecting psutil
/usr/lib/python2.6/site-packages/pip-9.0.1-py2.6.egg/pip/_vendor/requests/packages/urllib3/util/ssl_.py:318: SNIMissingWarning: An HTTPS request has been made, but the SNI (Subject Name Indication) extension to TLS is not available on this machine. This prevents automatic verification of the peer's identity.
  SNIMissingWarning
/usr/lib/python2.6/site-packages/pip-9.0.1-py2.6.egg/pip/_vendor/requests/packages/urllib3/util/ssl_.py:122: InsecurePlatformWarning: A true SSLContext object is not available. This prevents urllib3 from configuring SSL appropriately. It may be caused by your installation of OpenSSL itself. You can upgrade your system to a higher version of OpenSSL or use urllib3's unidirectional fallback (see http://urllib3.readthedocs.org/en/latest/faq.html#insecureplatformwarning).
  InsecurePlatformWarning
/usr/lib/python2.6/site-packages/pip-9.0.1-py2.6.egg/pip/_vendor/requests/packages/urllib3/util/ssl_.py:122: InsecurePlatformWarning: A true SSLContext object is not available. This prevents urllib3 from configuring SSL appropriately. It may be caused by your installation of OpenSSL itself. You can upgrade your system to a higher version of OpenSSL or use urllib3's unidirectional fallback (see http://urllib3.readthedocs.org/en/latest/faq.html#insecureplatformwarning).
  InsecurePlatformWarning
Downloading https://mirrors.ustc.edu.cn/pypi/web/packages/d3/0a/74dcbb162554909b208e5dbe9f4e7278d78cc27470993e05177005e627d0/psutil-5.3.1.tar.gz (397kB)
100% |████████████████████████████████████████| 399kB 1.6MB/s
Installing collected packages: psutil
Running setup.py install for psutil ... done
Successfully installed psutil-5.3.1
/usr/lib/python2.6/site-packages/pip-9.0.1-py2.6.egg/pip/_vendor/requests/packages/urllib3/util/ssl_.py:122: InsecurePlatformWarning: A true SSLContext object is not available. This prevents urllib3 from configuring SSL appropriately. It may be caused by your installation of OpenSSL itself. You can upgrade your system to a higher version of OpenSSL or use urllib3's unidirectional fallback (see http://urllib3.readthedocs.org/en/latest/faq.html#insecureplatformwarning).
  InsecurePlatformWarning
```

如果报错，可以再加上一—trusted-host选项：

```
pip install psutil -i https://pypi.mirrors.ustc.edu.cn/simple/ --trusted-host pypi.mirrors.ustc.edu.cn
```

这里提示我们，Python 2.6 将不在倍Python 核心团队支持，让我们升级Python版本。这里我们用的是Linux 6.7。默认Python版本是2.6.6。在Linux 7.x中，默认Python的版本就是2.7了。

2) 配置成默认的源

第一种方法，每次都要指定源，比较麻烦。所以可以通过指定配置文件，来修改默认的PIP源。

修改配置文件，如不存在，则创建：

- linux的文件在~/.pip/pip.conf,
- windows在%APPDATA%/pip/pip.ini) ,

```
[dave@www.cndba.cn ~]# mkdir ~/.pip/
[dave@www.cndba.cn ~]# touch ~/.pip/pip.conf
```

添加以下内容：

```
[dave@www.cndba.cn ~]# cat ~/.pip/pip.conf
[global]
index-url = https://pypi.mirrors.ustc.edu.cn/simple/
[install]
trusted-host= pypi.mirrors.ustc.edu.cn
```

这样在使用pip来安装时，会默认调用该镜像。

```
[dave@www.cndba.cn ~]# pip install ab
DEPRECATION: Python 2.6 is no longer supported by the Python core team, please upgrade your Python. A future version of pip will drop support for Python 2.6
Collecting ab
/usr/lib/python2.6/site-packages/pip-9.0.1-py2.6.egg/pip/_vendor/requests/packages/urllib3/util/ssl_.py:318: SNIMissingWarning: An HTTPS request has been made, but the SNI (Subject Name Indication) extension to TLS is not available on this machine. This prevents automatic verification of the peer's identity.
  SNIMissingWarning
/usr/lib/python2.6/site-packages/pip-9.0.1-py2.6.egg/pip/_vendor/requests/packages/urllib3/util/ssl_.py:122: InsecurePlatformWarning: A true SSLContext object is not available. This prevents urllib3 from configuring SSL appropriately. It may be caused by your installation of OpenSSL itself. You can upgrade your system to a higher version of OpenSSL or use urllib3's unidirectional fallback (see http://urllib3.readthedocs.org/en/latest/faq.html#insecureplatformwarning).
  InsecurePlatformWarning
/usr/lib/python2.6/site-packages/pip-9.0.1-py2.6.egg/pip/_vendor/requests/packages/urllib3/util/ssl_.py:122: InsecurePlatformWarning: A true SSLContext object is not available. This prevents urllib3 from configuring SSL appropriately. It may be caused by your installation of OpenSSL itself. You can upgrade your system to a higher version of OpenSSL or use urllib3's unidirectional fallback (see http://urllib3.readthedocs.org/en/latest/faq.html#insecureplatformwarning).
  InsecurePlatformWarning
Downloading https://mirrors.ustc.edu.cn/pypi/web/packages/a4/6a/7ebdd049b53b1e0084e9ec36fefddc2baaddc53b432caa7fd1d4674de26c/ab-0.3.tar.gz
Installing collected packages: ab
Running setup.py install for ab ... done
Successfully installed ab-0.3
[dave@www.cndba.cn ~]#
```

这里成功的使用了USTC的源，而不是默认的。