Linux下安装tensorflow教程

Linux下安装tensorflow主要过程如下：

1. 安装python
2. 安装pip
3. 使用pip安装tensorflow

但在安装过程中，往往会报各种各样的错误。本教程主要讲述的是在安装过程中踩过的坑，主要包括：安装python到指定路径、使用python安装setuptools、使用setuptools安装pip、使用pip安装指定版本的tensorflow。其中解决了两处报错：zlib的安装及SSL报错处理。

1) linux下安装python3.5到指定路径(https://www.cnblogs.com/RUReady/p/6074503.html)(http://blog.csdn.net/Dream\_angel\_Z/article/details/51338546)

wget <https://www.python.org/ftp/python/3.5.4/Python-3.5.4.tar.xz>

tar -xvf Python-3.5.4.tar.xz

cd Python-3.5.4[/home/ubuntu/python3/Python-3.5.4]

./configure --prefix=/home/ubuntu/python3 --with-ssl # (<http://blog.csdn.net/jeryjeryjery/article/details/77880227>)

make

make install #/home/ubuntu/python3/bin/python3.5(python执行文件在bin文件夹下)

2)安装zlib:

wget <http://www.zlib.net/zlib-1.2.11.tar.gz>

tar -xvzf zlib-1.2.11.tar.gz

cd zlib-1.2.11

./configure

make

sudo make install

3)安装setuptools:

wget <https://pypi.python.org/packages/41/80/268fda78a53c2629128f8174d2952c7f902c93ebaa2062b64f>27aa101b07/setuptools-38.2.3.zip

unzip setuptools-38.2.3.zip

cd setuptools-38.2.3

/home/ubuntu/python3/bin/python3.5 setup.py install

4)安装pip:

wget <https://pypi.python.org/packages/11/b6/abcb525026a4be042b486df43905d6893fb04f05aac21c32c6>38e939e447/pip-9.0.1.tar.gz

tar -zxvf pip-9.0.1.tar.gz

cd pip-9.0.1

/home/ubuntu/python3/bin/python3.5 setup.py install

[安装后的pip可执行文件路径：]

/home/ubuntu/python3/bin/pip -V

/home/ubuntu/python3/bin/pip3 -V

5)get-pip方法安装pip(未尝试)

wget <https://bootstrap.pypa.io/get-pip.py>

/home/ubuntu/python3/bin/python3.5 get-pip.py

6)安装numpy:

/home/ubuntu/python3/bin/pip3 numpy

7)安装tensorflow:

/home/ubuntu/python3/bin/pip3 install <https://storage.googleapis.com/tensorflow/linux/cpu/tensorflow-1.4.0rc1-cp35-cp35m-linux_x86_64.whl> #(对应版本在此寻找: <https://storage.googleapis.com/tensorflow/>)