Tim Hoolihan

Technical Blog

Installing TensorFlow on CentOS

Google released TensorFlow as open source for community use and improvement. From the site: "TensorFlow™ is an open source software library for numerical computation using data flow graphs."

The instructions on tensorflow.org are aimed at Ubuntu and OS X. I had a need to install it on CentOS so I documented the steps in a github gist. Feel free to comment if you find something I missed:

```
1 sudo yum -y install epel-release
2 sudo yum -y install gcc gcc-c++ python-pip python-devel atlas atlas-devel gcc-gfortran openssl-devel libffi-devel
3 # use pip or pip3 as you prefer for python or python3
4 pip install --upgrade virtualenv
5 virtualenv --system-site-packages ~/venvs/tensorflow
6 source ~/venvs/tensorflow/bin/activate
7 pip install --upgrade numpy scipy wheel cryptography #optional
8 pip install --upgrade https://storage.googleapis.com/tensorflow/linux/cpu/tensorflow-0.10.0rc0-cp35-cp35m-linux_x86_64.whl
9 # or below if you want gpu, support, but cuda and cudnn are required, see docs for more install instructions
10 pip install --upgrade https://storage.googleapis.com/tensorflow/linux/gpu/tensorflow-0.10.0rc0-cp35-cp35m-linux_x86_64.whl
```

install_tensorflow_centos7.sh hosted with ♥ by GitHub   view raw

* Updated 8/18/2016 for TensorFlow 0.10

* Updated gist 10/18/2016 to correct typo in epel-release

🗓 2016.03.02   👤 Tim   📁 Data, Machine Learning, Programming, Python   🏷 centos, pip, python, tensorflow

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1. ronnie

   View 7 months ago
   Hi there,

   I tried follow your instruction I got this error:

   You are using pip version 7.1.0, however version 8.1.1 is available.
   You should consider upgrading via the 'pip install –upgrade pip' command.
   tensorflow-0.7.1-cp27-none-linux_x86_64.whl is not a supported wheel on this platform.

   I have python2.7 installed

2. ronnie

   View 7 months ago

Please ignore my previous post, when I run pip install –upgrade numpy scipy wheel cryptography, I got this error halfway "Failed building wheel for scipy"

I am using Centos 6.7, I have both python 2.6 and 2.7 installed on the server.

- *Tim*replied:

  View 7 months ago
  @ronnie I would try installing just wheel with `pip install –upgrade wheel` and work through the error messages from there.

  Also, I'll update the post… there is a new version of tensorflow out, and you should be using that.

3. *Tim*

   View 7 months ago
   Post updated for tensorflow 8

4. *Tim*

   View 3 months ago
   I posted another update for tensorflow 0.10

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