GraphLab-Create Installation

Step 1 - Register to get GraphLab Create product key

- https://dato.com/products/create/quick-start-guide.html
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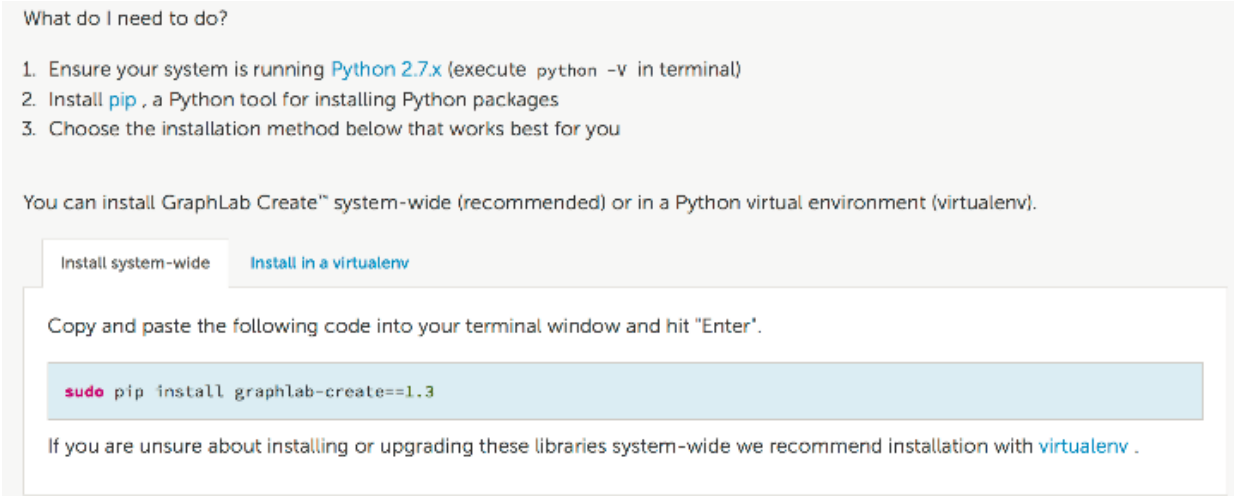
Step 2 - Insert Product Key into your GraphLab Configuration

- In your terminal, execute the code you get after signing up (NOTE: use your own product key)

```
(mkdir -p ~/.graphlab && echo -e "[Product]\nproduct_key=A687-2DEA-DE1D-9C87-FB01-1EC2-29E0-E07F" > ~/.graphlab
/config && echo "Configuration file written") || echo "Configuration file not written"
```

Step 3 - Install Python, IPython Notebook, Pip and GraphLab

- 

- Instructions for Linux (RedHat derivatives) —> HDP Sandbox http://forum.dato.com/discussion/55/graphlab-create-0-1-0-beta-linux-installation-notes#latest

- If you already have python 2.6 installed, here's what you need to do on **Cloudera VM 5.3**
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  - You need to install python 2.7.6
  - NOTE: If you use Cloudera 5.3 Virtual Machine, then you'll need to upgrade your firefox first!

Python 2.7.6 Installation on CentOS 6.4 (Cloudera 5.3 VM)

Install Python2.7 Anaconda

- Test your python environment

$ python -V

- Download Anaconda

curl -O https://3230d63b5fc54e62148e-c95ac804525aac4b6dba79b00b39d1d3.ssl.cf1.rackcdn.com/Anaconda-2.2.0-Linux-x86_64.sh

- Install Anaconda

$ sh Anaconda-2.2.0-Linux-x86.sh

- Add Anaconda path to local environment

$ echo "export PYTHON27_HOME=/home/cloudera/anaconda" >> ~/.bash_profile

$ echo "export PATH=$PATH:$PYTHON27_HOME/bin" >> ~/.bash_profile

$. ~/.bash_profile

 # Verify

$ python2.7 -V

 # Add a syslink to point to python

$ sudo rm -r /usr/bin/python

$ sudo ln -s /home/cloudera/anaconda/bin/python2.7 /usr/bin/python

Installing GraphLab

 # Create a new virtual environment. This will create a directory called "graphlab"

$ virtualenv --no-site-packages ~/graphlab

To activate the virtualenv. After the virtualenv is activated, it will use the version of python stored inside the ~/graphlab directory and use only the packages installed in that directory.

$ source ~/graphlab/bin/activate

 # Install graphlab-create

(graphlab) $ pip install graphlab-create

Step 4 - Run toy example in IPython Notebook

```
# Launch python notebook from virtualenv
(graphlab)$ source ~/graphlab/bin/activate
(graphlab)$ ipython notebook
# In ipython notebook
import graphlab as gl
url ='http://s3.amazonaws.com/dato-datasets/movie_ratings/training_data.csv'
data = gl.SFrame.read_csv(url, column_type_hints={"rating":int})
data.show()
model = gl.recommender.create(data, user_id="user", item_id="movie", target="rating")
results = model.recommend(users=None, k=5)
results.head()
```