Basic Knowledge and Environment of Tensorflow

Yousong zhang 2017/11/11

Introduction of tensorflow:
https://www.tensorflow.org/get_started/get_started

Why tensorboard:

https://www.youtube.com/watch?v=eBbEDRsCmv4&t=227s

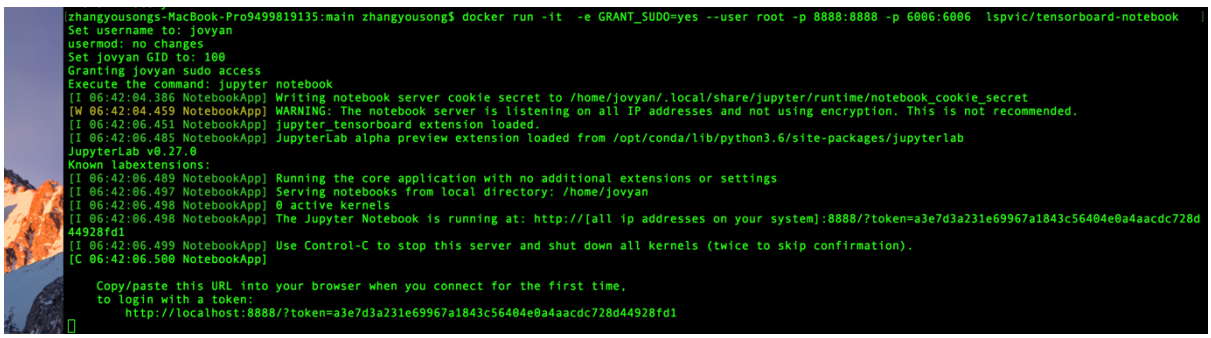
Docker install

docker pull lspvic/tensorboard-notebook

source: https://hub.docker.com/r/lspvic/tensorboard-notebook/

Run docker image of tensorflow

docker run -it -e GRANT_SUDO=yes --user root -p 8888:8888 -p 6006:6006 lspvic/tensorboard-notebook (6006 for tensorboard 8888 for Jupyter)



open jupyter by link:
http://localhost:8888/?token=a3e7d3a231e69967a1843c56404e0a4aacdc728d44928fd1

Other userful docker command

docker ps list current running images

docker images list docker images

docker exec -it [NAMES] bash

by docker exec –it xxx bash uer can terminal access tensorflow or tensorboard:

How to user sensorboard:

1. run tensorflow with tf.summary before

```
summary_writer = tf.summary.FileWriter("/home/jovyan/tensorflow_logs/example/", graph=tf.get_default_graph())
```

2. docker exec -it [NAMES] bash

   tensorboard --logdir /home/jovyan/tensorflow_logs

3. http://127.0.0.1:6006

Source Code for

1. Tensorflow

https://github.com/aymericdamien/TensorFlow-Examples

2. tensorboard

https://github.com/mamcgrath/TensorBoard-TF-Dev-Summit-Tutorial

Funny video:

How RNN created codes (Lecture 10 | Recurrent Neural Networks from Standford)

https://www.youtube.com/watch?v=6niqTuYFZLQ&t=17s begin at 35:00