Tutorial of Dockerized App Registration on OpenNEX

0: Download prepared python-equipped docker container
#Pull docker to local machine
docker pull cmusvsc/opennex-python

1. Install docker

2.Run docker
docker run -it cmusvsc/opennex-python /bin/bash
You will see something as follows, which means you have entered the docker container:
root@05c1e43d5a42:/home….

3. Install environment and code in the docker container as if you are in a local Ubuntu environment.

4. Prepare a script that can auto start your docker container:
4.1 Install a text editor (such as vim):
apt-get install vim

4.2 Edit the auto starter script:
vim /root/.bashrc

4.3 Enter your bash command lines for automatically kick-start upon docker launch in the future.
E.g. If you need to automatically start Mysql once the docker is running, append the following code into the .bashrc file:
'service mysql start'

4.4 Save the .bashrc file.

5. Enter 'exit' to stop your current docker container.

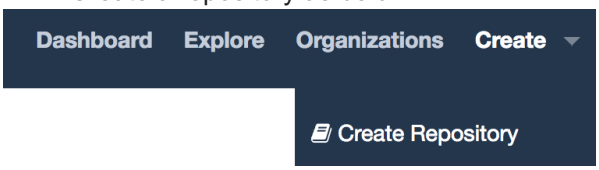
6. Find id of your docker container:

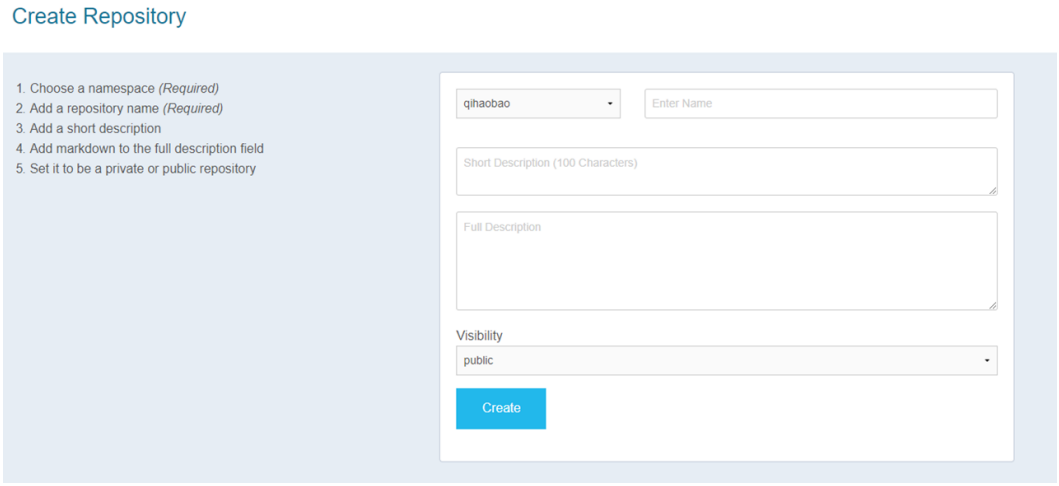
6.1 List all closed docker processes:
sudo docker ps -a
You will get a list of closed docker processes as shown below:
2454a17aee0c qihaobao/envjava:fall2017 "/bin/bash" 23 hours ago Exited (0) 3 seconds ago zen_tesla
0b987f725cdf qihaobao/envjava:fall2017 "/bin/bash" 23 hours ago Exited (0) 23 hours ago suspicious_euler
3e1b3fb846e8 qihaobao/envjava:fall2017 "/bin/bash" 23 hours ago Exited (0) 23 hours ago sleepy_hugle

6.2 Pick up the id of the docker processes with the latest timestamp.
E.g., "2454a17aee0c" refers to your prepared docker id since it is timestamped 3 seconds ago.

7. Upload your filled docker container to docker hub:

7.1 Create your own docker hub repository:
7.1.1 Go to docker hub (https://hub.docker.com), create an account if you did not have one.
7.1.2 Create a repository as below:





7.2 commit your modified docker image to your recently created docker repo (you could write a comment here):
docker commit <docker id> cmusvsc/opennex-python:<tag>
E.g. docker commit 2454a17aee0c <Your_Docker_ID>/<Your_repo>:v1

7.3 push your committed docker image to docker hub physically:
E.g docker push <Your_Docker_ID>/<Your_repo>:v1