1. create a separate folder named “Docker” in the octomore/home/cnn, put your Dockerfile (Dockerfile\_cuda100\_tensorflow\_all\_collection\_new.txt) into that folder by FileZilla

2. Put start\_docker.sh (start\_docker\_cuda100\_tensorflow\_all\_collection\_new.sh I give you) in the octomore/home/cnn. Make sure the port/Image/Gpus and other settings in the start\_docker.sh file are set correctly for your project.

3. open mac terminal. Login to your octomore account. (e.g. To login to my account, Type: ssh -L 8891:localhost:8891 [cnn@mcveighlab-octomore.ucsd.edu](mailto:cnn@mcveighlab-octomore.ucsd.edu), password:XXXX)

4. Build Docker image:

- cd to the Docker folder “Docker”

- sudo docker login, type your DockerHub username and password

- in the terminal, type: docker build -t zhennongchen/cuda100\_all\_collection\_new . (don’t forget . here)

-If have this problem: Posthttp://%2Fvar%2Frun%2Fdocker.sock/v1.38/containers/create: dial unix /var/run/docker.sock: connect: permission denied. Use command: sudo chmod 666 /var/run/docker.sock

5. Create your docker container: cd to main folder: /home/cnn, type

bash start\_docker\_cuda100\_tesnsorflow\_all\_collection\_new.sh -g 2 -n

6. open Safari web browser, go to localhost:8891, use token shown in the octomore terminal as password, Now you are in the Docker and you should see a jupyter notebook User Interface.

7. In jupyter, open a new terminal, type “bash” first, then you are ready to use the docker and can cd to your own directories.

PS: you may need to type the following commands to install additional packages if anything went wrong

**type sudo apt-get install libglu1**

**no need- type pip uninstall scipy, then pip install scipy==1.1.0 (we need to\_image())**

8. open another terminal if doing parallel experiments, always type “bash” first before use the docker

9. Everytime you leave your laptop and then go back, you may already disconnect with docker. Just simply do Step 3 and then Step 6 and retrieve it.

11. if want to terminate one container or image, use following commands:

Stop container: sudo docker container stop id

Remove container: sudo docker container rm id

Container list: sudo docker container ls -a

Remove image: sudo docker rmi id