1. VirtualBox+Ubuntu

VirtualBox Link:

Udacity VM(Ubuntu):

1. Simulator and set up sharing port

Simulator Link:

Port forwarding is required when running code on VM and simulator on host.

For security reasons, the VM does not automatically open port forwarding, so you need to manually enable port 4567. This is needed for the C++ program to successfully connect to the host simulator.

Port Forwarding Instructions

1. First open up Oracle VM VirtualBox
2. Click on the default session and select settings.
3. Click on Network, and then Advanced.
4. Click on Port Forwarding
5. Click on the green plus, adds new port forwarding rule.
6. Add a rule that assigns 4567 as both the host port and guest Port, as in the screenshot.
7. Clone the repertory

*git clone <https://github.com/udacity/CarND-Capstone.git>*

1. Python requirements set up

*cd CarND-Capstone*

*pip install -r requirements.txt*

1. Compile and run the code

*cd ros*

*catkin\_make*

*source devel/setup.sh*

*roslaunch launch/styx.launch*

1. Trouble Shooting

As I am located in China ,some website and source is unavailable for me,so need the source from tsinghua.

*cd CarND-Capstone*

*pip install -r requirements.txt -i https://pypi.tuna.tsinghua.edu.cn/simple*

