

Documentation:

## INSTALL

- add "deb<http://us.archive.ubuntu.com/ubuntu> trusty main universe" to your vim /etc/apt/sources.list
- sudo apt-get update
- #sudo apt-get install libuv-dev (libuv)
- #sudo apt-get install libglib2.0-dev (glib)
- sudo apt-get install bluez (linux bluetooth)
- sudo apt-get install git
- #sudo apt-get install libdbus-glib-1-dev
- sudo apt-get install libbluetooth-dev (linux bluetooth)
- check hcitool dev (to see bluetooth device installed correctly)
- sudo adduser <username> sudo (add user to sudo/root to install pkgs)
- user add <username> then psswd <username> (create a username and psswd)
- adding your favorite editor to linux
  - sudo apt-get install vim
  - sudo apt-get install emacs
- adding git to get the SDK repository
  - sudo apt-get install git
- SDK repository
  - git clone <git repository name>
  - git pull (update repository, while inside directory)
- libuv (check website)

## CUSTOMIZATION

- vim
  - setting tabs to be spaces
    - .vimrc -> :set tabstop=2 shiftwidth=2 expandtab
- ls colorization
  - .bashrc -> alias ls='ls -al --color=auto'

ADD type uname so ppl know what their running

## DEVELOPING THE FIRST PROGRAM

### BRIEF NOTES

- vehicle\_scan is just hcitool scan
- vehicle\_tool is just gatttool -R

### Vagrant

- download vagrant
- download virtual box (but do not create new machine)
- vagrant init hashicorp/preise32 (Ubuntu 12.04 LTS 32-bit)
- vagrant up
- vagrant ssh
- type uname -mrs (ensure Linux 3.2.0)
- sudo adduser <username> & enter paswd on prompt
- sudo adduser <username> sudo (add user to sudo/root to install pkgs)
- MAKE SURE YOU'RE CONNECTED TO THE INTERNET

### Customization and Installation

- sudo apt-get update
- adding your favorite editor to linux
  - sudo apt-get install vim
  - sudo apt-get install emacs
- adding git to get the SDK repository
  - sudo apt-get install git

- go to github.com
- git clone <git repository name>
- git pull (update repository, while inside directory)
- TOOOOOO COMPLICATED
- install github client
- sudo shutdown -r now
- go to virtualbox -> push close and power off -> settings -> shared folders-> edit shared folder through right click -> auto mount -> change folder to path of downloaded
- launch virtualbox
- sudo su
- cd /media/sf\_<folder name>
- hcitool dev
- hciconfig up

#### Compiling and Creating your first program

- sudo apt-get install make (for C only)
- sudo apt-get install bluez
- PYTHON
  - #!/usr/bin/python
  - import SDK
  - import sys (basic python call)
  - import time
  - def main():
    - SDK.ANKI\_start()
    - SDK.connect\_car(YELLOW, "")
    - SDK.set\_lights(YELLOW, 'TAIL', 'FLASH', 1, 6, 10)
    - time.sleep(10)
    - SDK.ANKI\_end()
  - main()
- python test.py

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#### SSH into vm

- settings->network->bridged adapter
- launch virtual box
- ifconfig' (get ip address)
- terminal-> ssh <username>@<ip address>

#### How to setup to use other machines/linux devices (internal wikipedia)

- warning: untested

#### SHOW REQUEST SETUP

#### ADD FAQ