# Setup & Install Guide for mininet & Ryu

If git & the necessary python libraries are not installed then install them:

$ sudo apt-get install git python python-dev python-pip python-setuptools

$ sudo pip install .

Then clone the git repository for mininet:

$ git clone git://github.com/mininet/mininet

Next is to install & test mininet ( -a installs everything that would be included in the Mininet VM ):

$ mininet/util/install.sh –a

$ sudo mn --test pingall

With mininet installed, Ryu is next:

$ git clone git://github.com/osrg/ryu.git

$ cd ryu; python ./setup.py install

$ sudo apt-get install ryu-manager

To start a custom ryu app, open a terminal (separate to one with mininet running) and use the following command:

$ ryu-manager path/to/controller

# Links

Mininet tutorial - <http://mininet.org/walkthrough/#interact-with-hosts-and-switches>

Writing ryu app introduction - <http://ryu.readthedocs.io/en/latest/writing_ryu_app.html>