Installing ns3

Install C++

sudo apt-get install build-essential

Install python

sudo apt-get install python python-dev

Install Mercurial:

sudo apt-get install mercurial

Install bzr

sudo apt-get install bzr

Install flex, bison

sudo apt-get install flex bison

Install tcpdump for pcap trace file reading support

sudo apt-get install tcpdump

XML support

sudo apt-get install libxml2 libxml2-dev

Download ns3 using mercurial

cd
mkdir repos
cd repos
hg clone http://code.nsnam.org/ns-allinone-3.14
cd ns-allinone-3.14
./download.py

[Alternately, downloading the whole zip (tar.bz2) file, use the following:

wget http://www.nsnam.org/releases/ns-allinone-3.14.tar.bz2
tar xjf ns-allinone-3.14.tar.bz2]

Build ns-3

./build.py

Enable Examples

cd ns-3.14
./waf configure --enable-examples
./waf

Run the first program

./waf --run hello-simulator

[if the output shows 'Hello Simulator' then installation is ok]

Installing Eclipse

Download eclipse (Indigo) from http://www.eclipse.org/downloads/
Extract eclipse from the compressed file eclipse-cpp-indigo-SR1-incubation-linux-gtk.tar.gz
Run eclipse from the extracted folder
Choose appropriate workspace folder
Choose File->New->C++ Project
Give an appropriate name to the project (say ns-3)
Select Linux GCC as the toolchain
Uncheck [] Use default location
Choose the ns-3 installation directory as the location of the project (~/repo/ns-3-allinone/ns-3-dev)
Press Finish
Right Click on the project, choose Properties
Select C/C++ Build
Uncheck Use default build command
Enter ${workspace_loc:/ns-3}/waf as the Build command
Uncheck Makefile generation
Choose ${workspace_loc:/ns-3/build} as the Build directory
Uncheck Build(incremental build) and Clean
Choose apply

Install PyViz

```
sudo apt-get install python-pygraphviz
sudo apt-get install python-kiwi
sudo apt-get install python-pygoocanvas
sudo apt-get install python-gnome2
sudo apt-get install python-gnomedesktop
sudo apt-get install python-rsvg
```

Test PyViz

```
cd ~/repo/ns-allinone-3.14/ns-3.14
cp examples/tutorial/second.cc scratch/second.cc
./waf --run scratch/second --vis
```

Enable GtkConfigStore

```
sudo apt-get install libgtk2.0-0 libgtk2.0-dev
./waf configure --enable-examples
./waf
```