Steps for installation NS-3 2.9 version

1. Visit the site given below for the installation of ns-3.35.

https://www.nsnam.org/releases/ns-3-35/

Download

The ns-3.35 release download is available from this link

commands to be run in the terminal

- 1. sudo apt-get update
- 2. sudo apt upgrade
- 3. sudo apt install g++ python3 python3-dev python-dev pkg-config sqlite3 python3-setuptools git qt5-default gir1.2-goocanvas-2.0 python3-gi python3-gi-cairo python3-pygraphviz gir1.2-gtk-3.0 ipython3 openmpi-bin openmpi-common openmpi-doc libopenmpi-dev autoconf cvs bzr unrar openmpi-bin openmpi-common openmpi-doc libopenmpi-dev tcpdump wireshark libxml2 libxml2-dev

1003 sudo apt Install g++ python3 python3-dev python-dev pkg-config sqlite3 python3-setvatptools git qt5-default gir1.2-goocanvas-2.0 python3-gi-catro python3-gy-catro python3-pyraphviz gir1.2-gtk-3.0 tpython3-gopenpi-bl

Go to the directory where the ns3 is downloaded. If possible move it to the home /desktop or document directory

Extract the folder using the command:

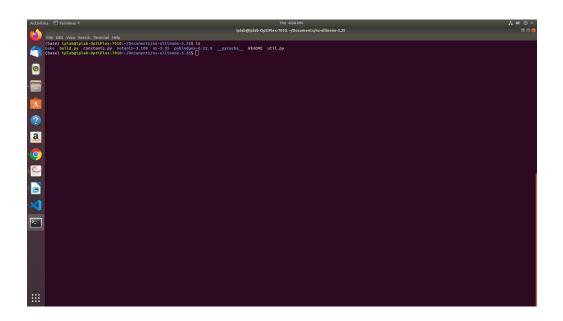
tar xjf ns-allinone-3.29.tar.bz2



5. cd ns-allinone-3.35/

type ls command to check the list of files:

bake constants.py **build.py** netanim-3.108 ns-3.29 pybindgen-0.17.0.post58+ngcf00cc0 README util.py

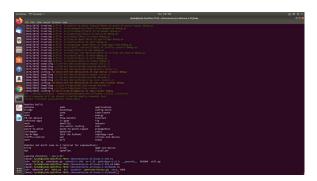


6. Be in the directory **cd ns-allinone-3.35**/
you can see **build.py**, now execute the command below

./build.py --enable-examples –enable-tests

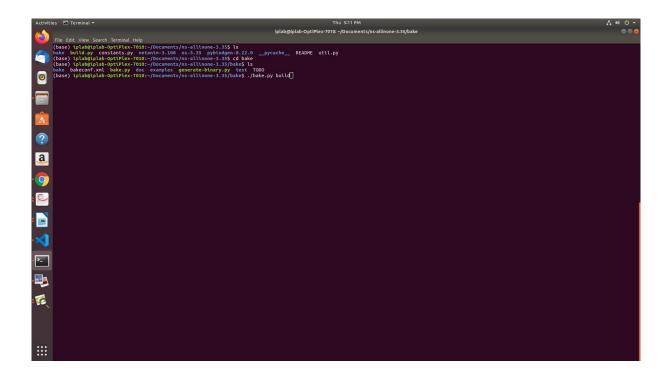
7. once build succeds you will see list of source files in ns3 like wave, wifi, wimax, lte, antenna, bridge, core, dsdv, flow monitor etc..

last line will be leaving directory ./ns-3.35

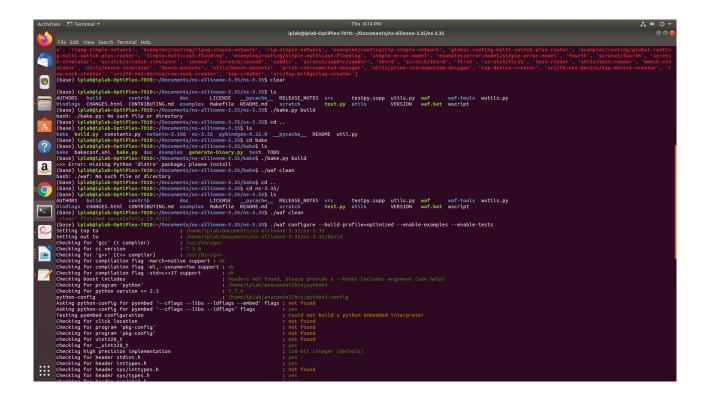


After 7^{th} step stop your execution and run the following command to see the output Be in the directory ns-3.35

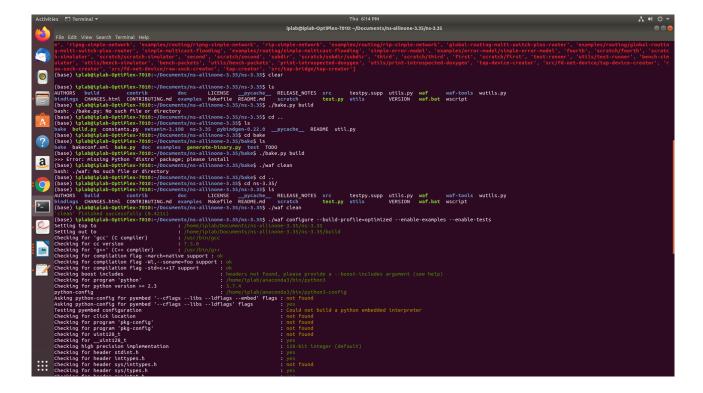
8. Now go to the directory **cd ns-allinone-3.35/bake** type the command below **./bake.py build**



9. ./waf clean



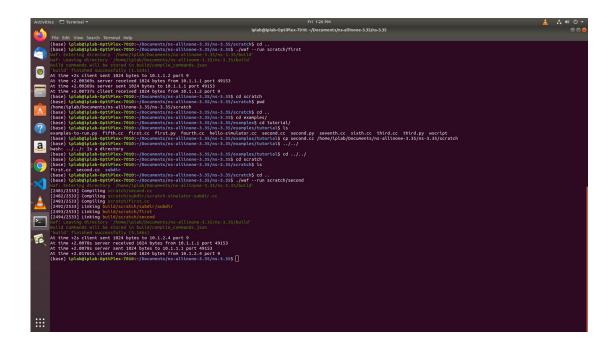
- 10. ./waf configure --build-profile=optimized --enable-examples --enable-tests
- 11. ./waf clean
- 12. ./waf configure --build-profile=debug --enable-examples -enable-tests
- 13. ./waf



Documents/ns-allinone-3.35/ns-3.35\$

./waf --run scratch/first

After build is successfull, the ouput will be



Only if we dont get output we need to execute the commands below

If required the following commands can be executed

- 14. ./waf -check-profile
- 15. ./waf configure --build-profile=debug --enable-examples -enable-tests
- 16. ./waf
- 17. ./waf -check-profile
- 18. ./build.py -- --disable-python
- 19. ./waf configure --disable-werror --enable-examples --enable-tests
- 20. ./waf configure --build-profile=debug --out=build/debug
- 21. ./waf build
- 22. ./waf configure --build-profile=optimized -out=build/optimized
- 23. ./waf build

Netanim build

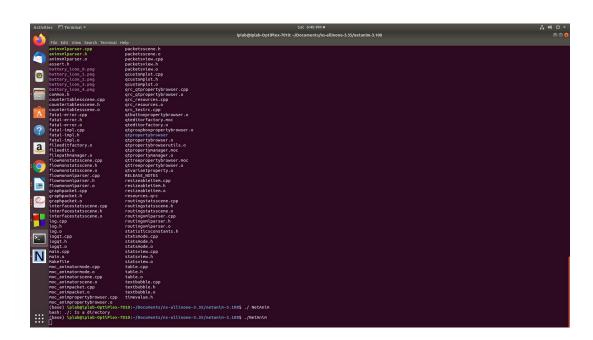
command to build NetAnim

Go to the directory cd ns-allinone-3.29/netanim-3.108

then build ./ NetAnim with the command

/ns-allinone-3.35/netanim-3.108\$./NetAnim

Screenshot attached below



Download JDK with the command below:

sudo apt install default-jdk

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Download tracemetrics from the source link given below:

https://sourceforge.net/projects/tracemetrics/



Go to tracemetrics directory

Trace Metrics: cd tracemetrics-1.4.0/

Run the jar file with the following command

tracemetrics-1.4.0\$ java -jar tracemetrics.jar

```
(base) iplab@iplab-OptiPlex-7010:-$ cd tracemetrics-1.4.0/
(base) iplab@iplab-OptiPlex-7010:-/tracemetrics-1.4.0$ java -jar tracemetrics.jar
```

