NS-3 installation & running scripts

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NS-3 is most preferable for Linux(Ubuntu/Mint).so, here's the installation process for ubuntu/Mint is given.

Step 1: installing libraries:

open Terminal (ctrl+Alt+T) & run the following commands one after one. if it requires (Y/N) anytime, then simply write Y & press 'Enter' button.

```
sudo apt-get install gcc g++ python python3
```

```
sudo apt-get install gcc g++ python python3 python3-dev
```

```
sudo apt-get install python3-setuptools git mercurial
```

```
sudo apt-get install qt5-default mercurial
```

```
sudo apt-get install python-pygraphviz python-kiwi python-pygoocanvas libgoocanvas-dev ipython
```

```
sudo apt-get install gir1.2-goocanvas-2.0 python-gi python-gi-cairo python-pygraphviz python3-gi python3-gi-cairo python3-pygraphviz gir1.2-gtk-3.0 ipython ipython3
```

```
sudo apt-get install openmpi-bin openmpi-common openmpi-doc libopenmpi-dev
```

```
sudo apt-get install autoconf cvs bzr unrar
```

```
sudo apt-get install gdb valgrind
```

```
sudo apt-get install uncrustify
```

```
sudo apt-get install doxygen graphviz imagemagick
```

sudo apt-get install texlive texlive-extra-utils texlive-latex-extra texlive-font-utils texlive-lang-portuguese dvipng latexmk

```
sudo apt-get install python3-sphinx dia

sudo apt-get install gsl-bin libgsl-dev libgsl23 libgslcblas0

sudo apt-get install tcpdump

sudo apt-get install sqlite sqlite3 libsqlite3-dev

sudo apt-get install libxml2 libxml2-dev

sudo apt-get install cmake libc6-dev libc6-dev-i386 libclang-6.0-dev llvm-6.0-dev automake pip
python3 -m pip install --user cxxfilt

sudo apt-get install libgtk2.0-0 libgtk2.0-dev

sudo apt-get install vtun lxc uml-utilities

sudo apt-get install libboost-signals-dev libboost-filesystem-dev
```

Step 2: Download NS-3 & extract:

download the ns3 from here: https://drive.google.com/file/d/1vRMryHof4cBH0Zs4Z3WbxpayM3nLMaTP/view?usp=sharing

now place the file in home folder..

Home folder.. here the downloaded file must be put.

now, open Terminal (ctrl+Alt+T) & run the following commands:

```
echo $HOME
```

```
tar jxvf ns-allinone-3.30.tar.bz2
```

it will extract the ns3 folder ... now we have to run the commands..

```
cd ns-allinone-3.30/ns-3.30
```

```
./build.py --enable-examples --enable-test
```

it will take about 30 minutes... 🙂 .. keep patience..

go to the folder.. home/ns-allinone-3.30/ns-3.30/examples/tutorial ..& copy the files.. first.cc , first.py
& paste them into.. /home/ns-allinone-3.30/ns-3.30/scratch .. folder.
now, you are ready to run your fisrt lab code first.cc

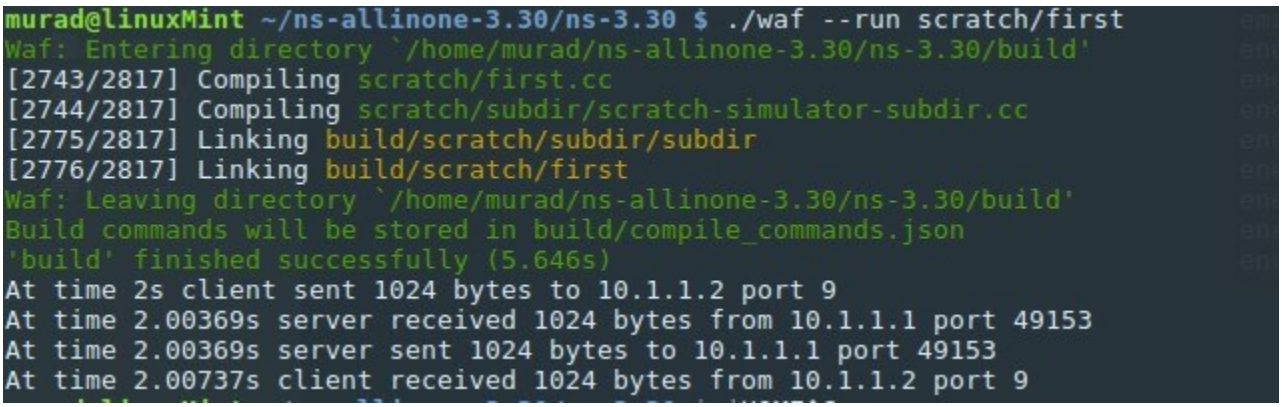
Step 3: Running first script(first Lab code):

```
cd
```

```
cd ns-allinone-3.30/ns-3.30
```

run the .cc file:

```
./waf --run scratch/first
```



successfully running first.cc file

run the .py file:

```
./waf --pyrun scratch/first.py
```

done.....

if u face any problem..feel free to share screen live at.. google hangouts(wazidullahmurad@gmail.com) or use AnyDesk software (remote desktop software)