**Some Installation Process of NS2**

http://www.linuxquestions.org/questions/linux-newbie-8/is-it-not-possible-run-lte-on-ns-2-35-a-4175535258/  : LTE solution/patch

http://installwithme.blogspot.com.au/2014/05/how-to-install-ns-2.35-in-ubuntu-13.10-or-14.04.html   : install ubuntu

https://www.youtube.com/watch?v=CkDd6jClqEE                                                                                         : Install Ubuntu 14.04 on Virtual Box from here.

https://www.youtube.com/watch?v=TcrfrVNNGMU                                                                                     : How to share files and folders between windows 7 and ubuntu

https://www.youtube.com/watch?v=t4WGQcLZQOU                                                                                   : Install ns 2.35 on Ubuntu 14.04

http://www.linuxquestions.org/questions/showthread.php?p=5385543#post5385543                                  : Install ns 2.35 on Ubuntu 14.04

http://www.techerina.com/2015/02/installing-ns-235-in-ubuntu-1404.html                                                     : Install ns2.35 in ubuntu 14.04 (extra)  
http://installwithme.blogspot.com.au/2014/05/how-to-install-ns-2.35-in-ubuntu-13.10-or-14.04.html            : Install ns2.35 in ubuntu 14.04 (extra)

http://anupamasikchiwsn.blogspot.in/   : Install ns2.34 on Ubuntu 10.04

http://askubuntu.com/questions/363003/no-internet-connection-on-virtualbox-windows-7-as-guest-ubuntu-13-04-as-host

https://www.youtube.com/watch?v=vwBoHZuauL8   : speed up ubuntu

https://www.youtube.com/watch?v=lrbLPo\_nNcc   : Virtual box

https://www.youtube.com/watch?v=rt8wrKBKrt0   : Virtual box

https://www.youtube.com/watch?v=\_WnFlCCqUtQ&list=PLG6ePePp5vvZw0YAy9yWHAAjvWM-vFrki&index=5   : VM ware player

http://www.linuxeasyway.com/2014/06/ubuntu-1404-lts-trusty-tahr-installing.html

https://www.youtube.com/watch?v=RQ7-rrU7vsQ

http://mohittahiliani.blogspot.dk/2010/05/dccp-patches-for-ns-2.html

https://eprints.usq.edu.au/18936/1/Alenazi\_2010.pdf   : chapter 3

http://www.linuxquestions.org/questions/linux-software-2/lte-patch-for-ns-2-a-4175499336/

http://www.linuxquestions.org/questions/linux-wireless-networking-41/lte-patch-for-ns2-33-a-4175502659/

**After install ns2.33:**  
  
Please put /home/munjure/ns-allinone-2.33/bin:/home/munjure/ns-allinone-2.33/tcl8.4.18/unix:/home/munjure/ns-allinone-2.33/tk8.4.18/unix  
into your PATH environment; so that you'll be able to run itm/tclsh/wish/xgraph.  
  
IMPORTANT NOTICES:  
  
(1) You MUST put /home/munjure/ns-allinone-2.33/otcl-1.13, /home/munjure/ns-allinone-2.33/lib,   
    into your LD\_LIBRARY\_PATH environment variable.  
    If it complains about X libraries, add path to your X libraries   
    into LD\_LIBRARY\_PATH.  
    If you are using csh, you can set it like:  
        setenv LD\_LIBRARY\_PATH <paths>  
    If you are using sh, you can set it like:  
        export LD\_LIBRARY\_PATH=<paths>  
  
(2) You MUST put /home/munjure/ns-allinone-2.33/tcl8.4.18/library into your TCL\_LIBRARY environmental  
    variable. Otherwise ns/nam will complain during startup.  
  
  
After these steps, you can now run the ns validation suite with  
cd ns-2.33; ./validate  
  
For trouble shooting, please first read ns problems page   
http://www.isi.edu/nsnam/ns/ns-problems.html. Also search the ns mailing list archive  
for related posts.

**http://anupamasikchiwsn.blogspot.in/   : Install ns2.34 on Ubuntu 10.04**

1. Download ns-allinone-2.34                
2.Extract it to any folder, I generally do it on home  
3. Install the libraries  
(before install ns-2 you will need the packages that are shown below )  
**$ sudo apt-get update**  
**$ sudo apt-get install build-essential autoconf automake libxmu-dev**

**$ sudo apt-get install libx11-dev libxmu-dev libxmu-headers libxt-dev libtool  
$ sudo apt-get install dpkg-dev g++ libc6-dev make  
$ sudo apt-get install tcl8.4 tk8.4  
$ sudo apt-get install build-essential**

**$sudo apt-get install build-essential autoconf automake libxmu-dev gcc-4.3**

 3. Open terminal (cntrl+alt+t) and type cd ns-allinone-2.34  
4. type ./install Now you will get some errors probably.  
5. Go to ns-allinone-2.34/otcl-1.13/configure, line number 6304 remove thde line  
SHLIB\_LD="ld -shared"  
and make it  
**SHLIB\_LD="gcc -shared"**   
6. Now go to   
ns-allinone-2.34/ns-2.34/ tools/ranvar.cc: In member function ‘virtual double GammaRandomVariable::value()’:  
In ns-2.34/tools/ranvar.cc, line 219 replace the line  
return GammaRandomVariable::GammaRandomVariable(1.0 + alpha\_, beta\_).value() \* pow (u, 1.0 / alpha\_);  
to  
**return GammaRandomVariable(1.0 + alpha\_, beta\_).value() \* pow (u, 1.0 / alpha\_);**   
7. In ns-allinone-2.34/ns-2.34/mac/mac-802\_Ext.h, line 65 add  
**#include<cstddef>**   
8.  
In ns-allinone-2.34/ns-2.33/mobile/nakagami.cc  
Find the lines    
if (int\_m == m) {  
             resultPower = ErlangRandomVariable::ErlangRandomVariable(Pr/m, int\_m).value();  
         } else {  
             resultPower = GammaRandomVariable::GammaRandomVariable(m, Pr/m).value();  
         }  
         return resultPower;  
    } And replace with  
 **if (int\_m == m) {  
            resultPower = ErlangRandomVariable(Pr/m, int\_m).value();  
         } else {  
             resultPower = GammaRandomVariable(m, Pr/m).value();  
         }  
        return resultPower;  
    }**  
In Makefile.in   
find the line

CC= @CC@

and change it to

**CC= gcc-4.3**

Now  go to ns-allinone-2.34   
and type  
**$./configure**  
**$make clean**  
**$make**  
Path Setup:  
Open your terminal again and type  
  **gedit ~/.bashrc**  
Then in the end of the page update the env variables append the following lines. Change the path to your path \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*  
**# LD\_LIBRARY\_PATH  
OTCL\_LIB=/home/anupama/ns-allinone-2.34/otcl-1.13  
NS2\_LIB=/home/anupama/ns2/ns-allinone-2.34/lib  
X11\_LIB=/usr/X11R6/lib  
USR\_LOCAL\_LIB=/usr/local/lib  
export LD\_LIBRARY\_PATH=$LD\_LIBRARY\_PATH:$OTCL\_LIB:$NS2\_LIB:$X11\_LIB:$USR\_LOCAL\_LIB   
# TCL\_LIBRARY  
TCL\_LIB=/home/anupama/ns-allinone-2.34/tcl8.4.18/library  
USR\_LIB=/usr/lib  
export TCL\_LIBRARY=$TCL\_LIB:$USR\_LIB   
# PATH  
XGRAPH=/home/anupama/ns-allinone-2.34/bin:/home/anupama/ns-allinone-2.34/tcl8.4.18/unix:/home/anupama/ns-allinone-2.34/tk8.4.18/unix  
NS=/home/anupama/ns-allinone-2.34/ns-2.34/  
NAM=/home/anupama/ns-allinone-2.34/nam-1.14/  
PATH=$PATH:$XGRAPH:$NS:$NAM**  
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*   
Now , close your terminal  
Open a new terminal again and type ns  
U ll see a % coming up which means ns is installed.