**NS2 Installation Steps:**

1. **sudo apt-get update (in terminal) i.g. Ubuntu OS is updated**
2. **Install following packages :**
3. **g++**
4. **automake**
5. **autoconf**
6. **libx11-dev**
7. **libxt-dev**
8. **libxmu-dev**
9. **nam**
10. **xgraph**

**In terminal install : sudo apt-get install <package name>**

**Example: sudo apt-get install g++**

1. **ns2 software is download from :**

[**http://sourceforge.net/projects/nsnam**](http://sourceforge.net/projects/nsnam)

**(latest – 2.35),the file will be in .tar.gz format(Tar and gzip)**

1. **Need to unzip and untar first**

**->$tar –zxvf ns-allinone-2.35.tar.gz (In terminal write this command)**

**->Or right click and extract to here in GUI mode**

**->This will create a folder named “ns-allinone-2.35”**

1. **Open the terminal execute below commands:**

**cd ns-allinone-2.35 (Enter to the ns-allinone-2.35 folder)**

**./install (Execute the script)**

1. **After successful installation some path has to be configured : (paths are below)**

**export PATH=$PATH:/home/iiit/ns-allinone-2.35/bin:/home/iiit/ns-allinone-2.35/tcl8.5.10/unix:/home/iiit/ns-allinone-2.35/tk8.5.10/unix**

**export LD\_LIBRARY\_PATH=$LD\_LIBRARY\_PATH:/home/iiit/ns-allinone-2.35/otcl-1.14:/home/iiit/ns-allinone-2.35/lib**

**export TCL\_LIBRARY=/home/iiit/ns-allinone-2.35/tcl8.5.10/library:/home/iiit/ns-allinone-2.35/tk8.5.10/library/**

1. **After the installation above paths are copied and paste in a new file (through gedit)**
2. **In terminal go to the root or go under the home folder .**

**Example:**

**$/home/iiit/ns-allinone-2.35**

**$/home/iiit/ns-allinone-2.35 cd**

**$/home/iiit gedit .bashrc (open the .bashrc file)**

1. **Append the above path (6no. step) in .bashrc file, then save the file and restart the ubuntu os.**
2. **Check in terminal type ns ,if “ %” comes then ns2 installation successfully complited.**

**NS2 Installation for Ubuntu 20.04**

**Error:**

**When configured, ns found the right version of tclsh in /usr/bin/tclsh8.6**

**but it doesn't seem to be there anymore, so ns will fall back on running the first tclsh in your path. The wrong version of tclsh may break the test suites. Reconfigure and rebuild ns if this is a problem.**

**% exit**

**1. sudo apt-get update -y**

**sudo apt install gcc-4.8 g++-4.8**

**sudo apt install tclsh**

**sudo apt-get install automake**

**sudo apt-get install autoconf**

**sudo apt-get install libx11-dev**

**sudo apt-get install libxt-dev**

**sudo apt-get install libxmu-dev**

**sudo apt-get install nam**

**xgraph 4.38 download and download the zip file and extract that file and install it and setup path in .bashrc file. The path is:**

**alias xgraph=/home/iiit/Desktop/XGraph4.38\_linux64/bin/xgraph**

**sudo apt-get install -y ns2 or install through zip file**

**2. ns2 software is download from :**

[**http://sourceforge.net/projects/nsnam**](http://sourceforge.net/projects/nsnam)

**(latest – 2.35),the file will be in .tar.gz format(Tar and gzip)**

**3. Need to unzip and untar first**

**->$tar –zxvf ns-allinone-2.35.tar.gz (In terminal write this command)**

**->Or right click and extract to here in GUI mode**

**->This will create a folder named “ns-allinone-2.35”**

**4. Open the terminal execute below commands:**

**cd ns-allinone-2.35 (Enter to the ns-allinone-2.35 folder)**

**./install (Execute the script)**

**5. After successful installation some path has to be configured : (paths are below)**

**alias xgraph=/home/iiit/Desktop/XGraph4.38\_linux64/bin/xgraph**

**export PATH=$PATH:/home/iiit/ns-allinone-2.35/bin:/home/iiit/ns-allinone-2.35/tcl8.6/unix:/home/iiit/ns-allinone-2.35/tk8.6/unix**

**export LD\_LIBRARY\_PATH=$LD\_LIBRARY\_PATH:/home/iiit/ns-allinone-2.35/otcl-1.14:/home/iiit/ns-allinone-2.35/lib**

**export TCL\_LIBRARY=/home/iiit/ns-allinone-2.35/tcl8.6/library:/home/iiit/ns-allinone-2.35/tk8.6/library/**

**6. After the installation above paths are copied and paste in a new file (through gedit)**

**7. In terminal go to the root or go under the home folder .**

**Example:**

**$/home/iiit/ns-allinone-2.35**

**$/home/iiit/ns-allinone-2.35 cd**

**$/home/iiit gedit .bashrc (open the .bashrc file)**

**8. Append the above path (6no. step) in .bashrc file, then save the file and restart the ubuntu os.**

**9.Check in terminal type ns ,if “ %” comes then ns2 installation successfully complited.**