

NS2, NAM and XGraph Installation in Ubuntu Distro

Recommendation: Select LTS (Long Term Support) Version

Mandatory steps before proceeding NS2 installation in Terminal (Any Distro)

```
$] sudo apt update
```

```
$] sudo apt install build-essential autoconf automake libxmu-dev
```

```
$] sudo apt install gcc-4.8 g++-4.8 → (only if you're installing NS-allinone -2.35  
manually, otherwise skip this step)
```

→ NS2 uses gcc-4.8 as c compiler and g++-4.8 as C++ Compiler.

→ NS2, NAM and XGRAPH all these software's were comfortable with 4.8 version.

Installation steps in Ubuntu 16.04 & 18.04 LTS

😊 **Installing NS2:**

```
$]sudo apt install ns2
```

😞 **Installing NAM:**

```
$]sudo apt install nam
```

(If gives core dump or encountering "Segmentation Fault" error while running NAM) then;

→ Download NAM from:

https://ubuntu.pkgs.org/14.04/ubuntu-universe-amd64/nam_1.15-3_amd64.deb.html

```
$]sudo dpkg --install nam_1.15-10-  
ubuntu14_amd64.deb
```

☹️ Installing XGRAPH:

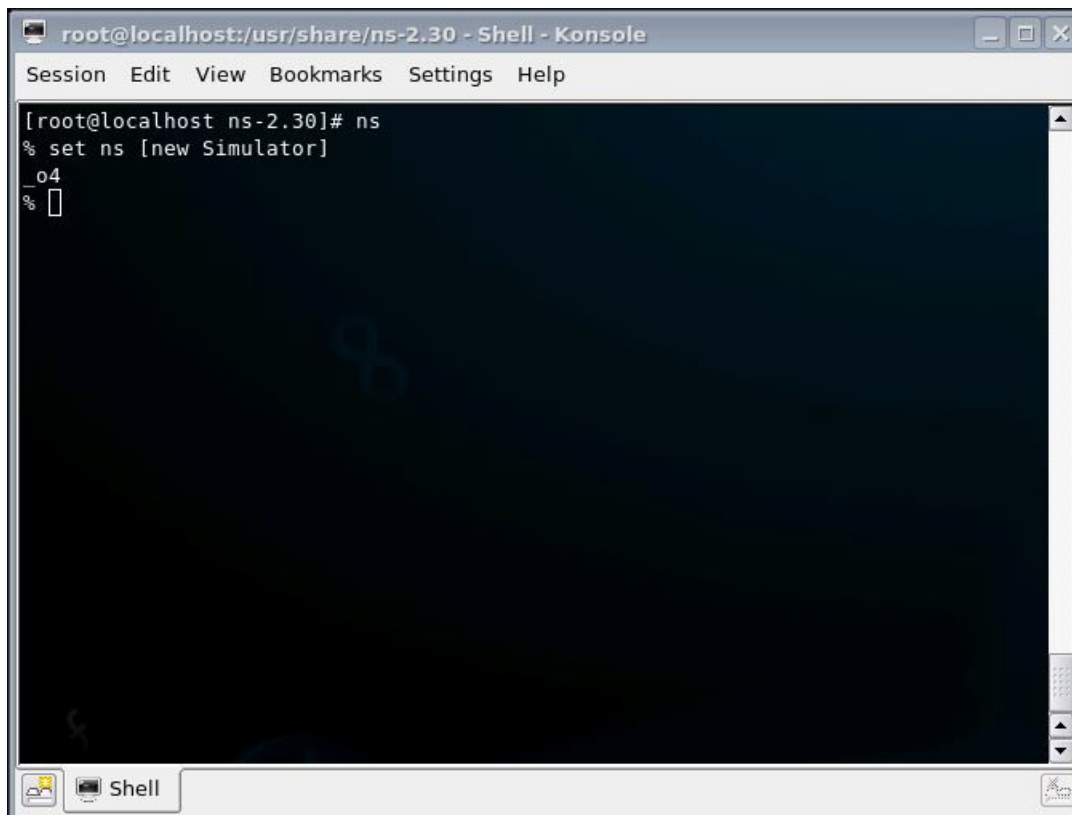
```
$]sudo apt install xgraph
```

(If you're getting exception as – “Package xgraph is not available, but is referred to by another package” etc.) then;

➔ Download XGRAPH from https://ubuntu.pkgs.org/16.04/ubuntu-universe-amd64/xgraph_12.1-17_amd64.deb.html

```
$]sudo dpkg --install xgraph_12.1-17_amd64.deb
```

☺️ If the NS2 installation is successful, then you will be able to see % at the command prompt while typing the following command

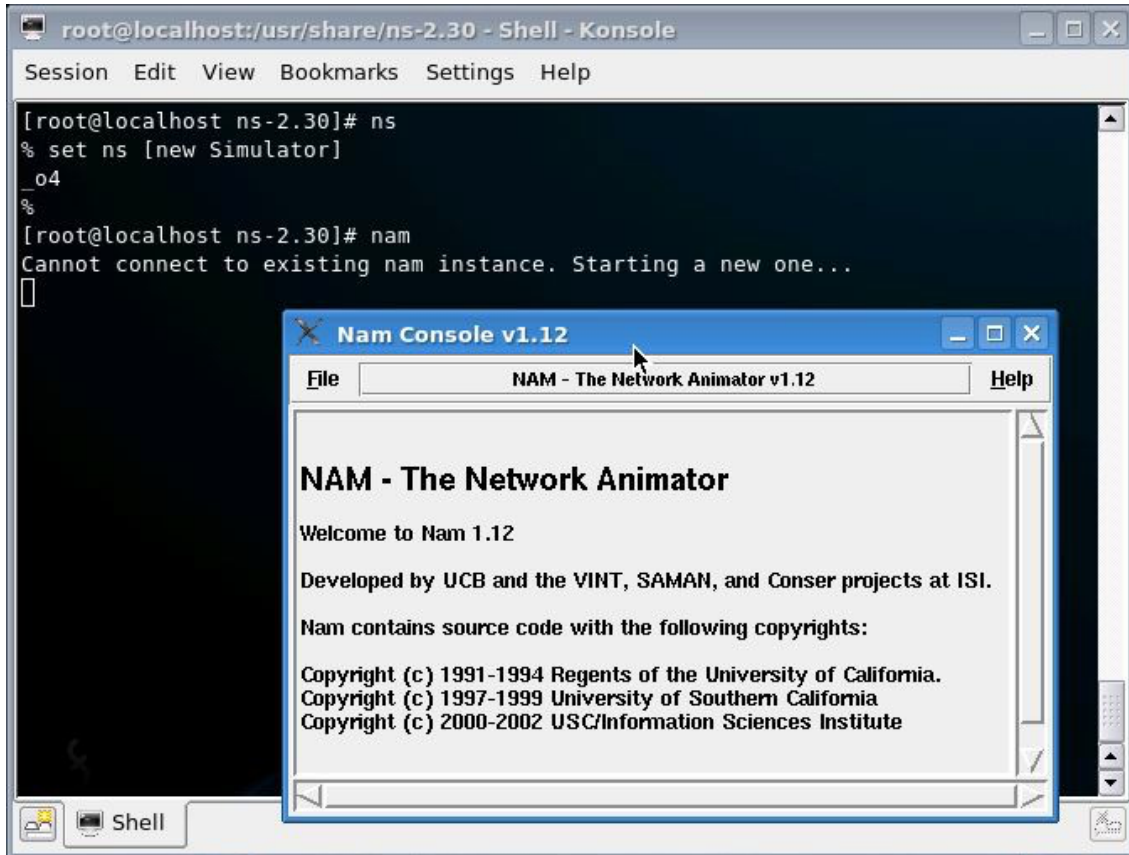


```
root@localhost:/usr/share/ns-2.30 - Shell - Konsole
Session Edit View Bookmarks Settings Help
[root@localhost ns-2.30]# ns
% set ns [new Simulator]
_o4
% █
```

☺ To check if NAM is well installed, type at prompt:

```
$] nam
```

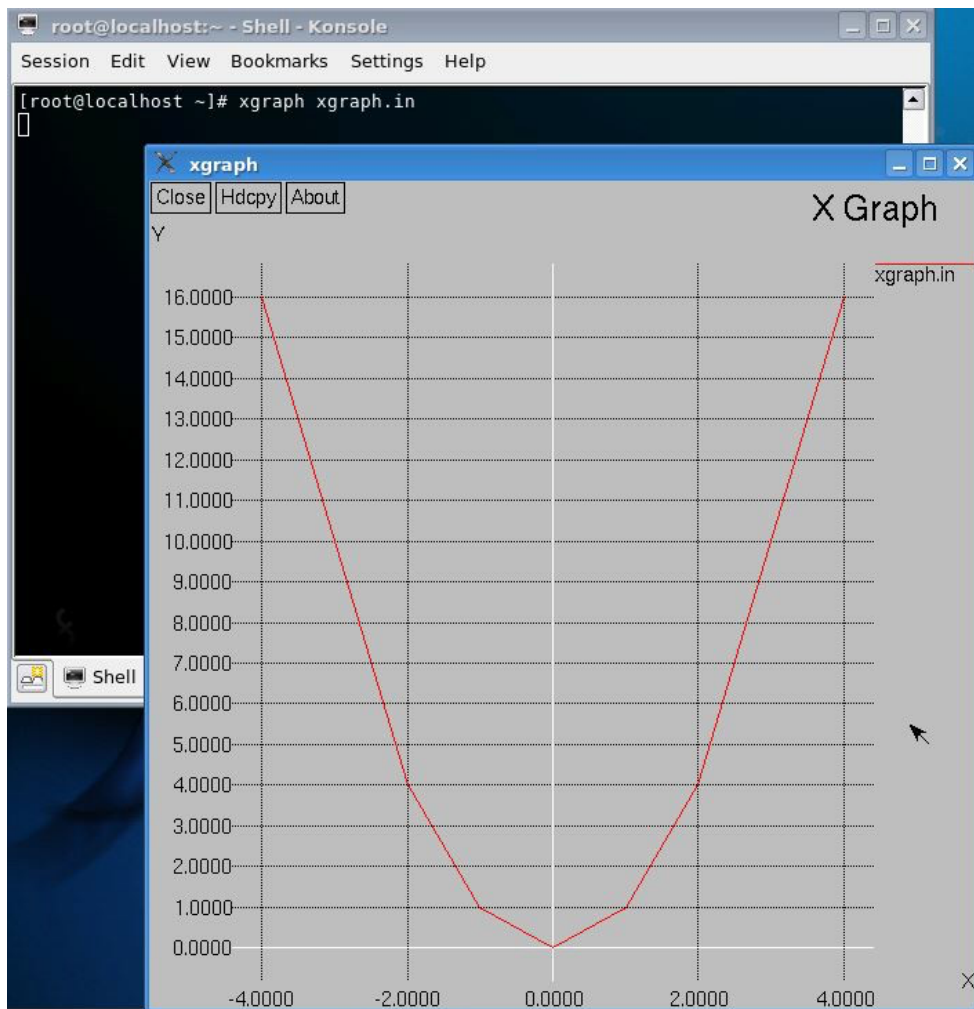
You should see the NAM window



☺ To check if xgraph is well installed, type at prompt:

```
$]xgraph xgraph.in
```

You should see the xgraph window



Otherwise, if you read this message: “xgraph: cannot open display”

(It means that you're trying to launch xgraph out of a X11 graphical session)

Good Luck..!