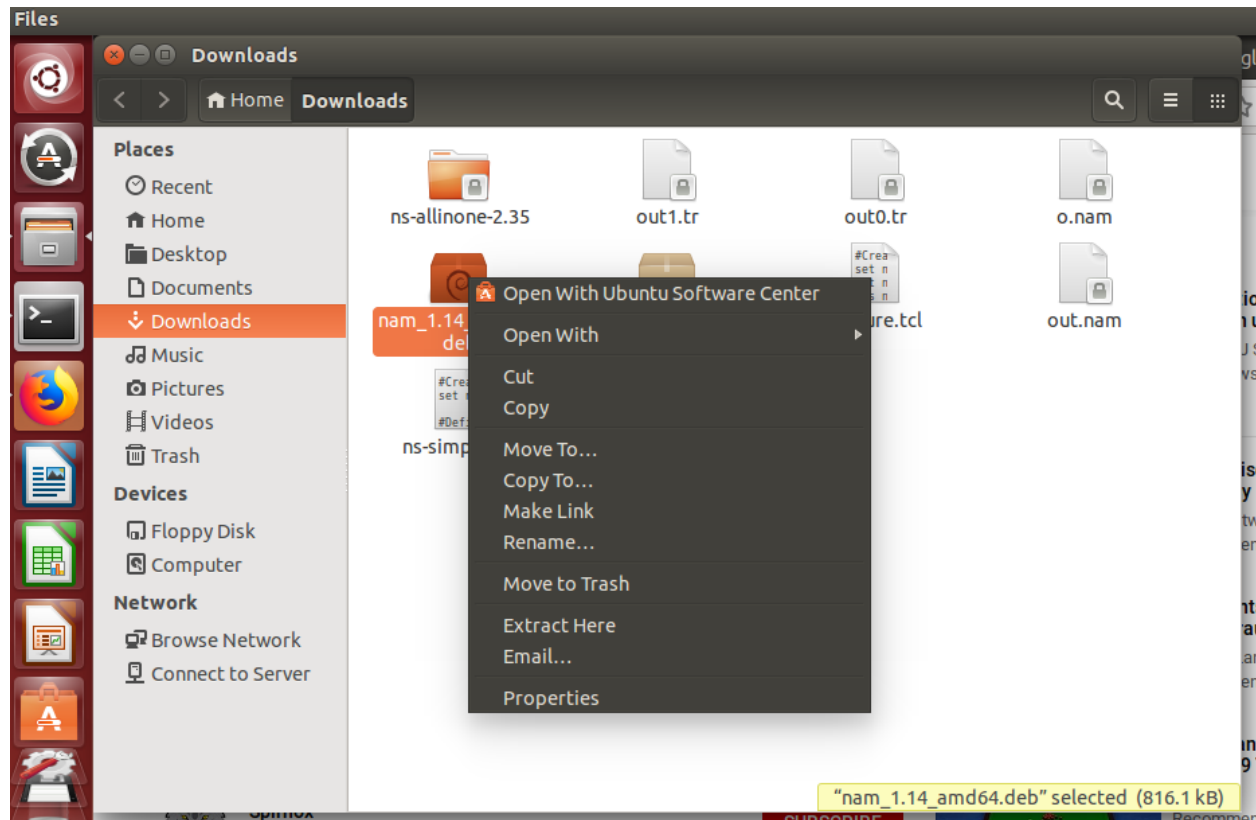


### Steps to Install ns2:

1. Install Ubuntu 14.04 Desktop version in your VMWare. And copy this word file in your ubuntu.
2. Type following commands
  - a. `sudo apt-get update`
  - b. `sudo apt-get install ns2`
  - c. `sudo apt-get install g++ autoconf libtool libxmu-dev xgraph`
  - d. **Download NS2 File from :** <https://sourceforge.net/projects/nsnam/files/allinone/ns-allinone-2.35/ns-allinone-2.35.tar.gz/download>
  - e. `cd Downloads`
  - f. `tar xzvf ns-allinone-2.35.tar.gz`
  - g. `cd ns-allinone-2.35`
  - h. `./install`
  - i. `cd ns-2.35`
  - j. `sudo make install`. If error Occurs then ignore it. Move to next step.
  - k. `cd ..`
  - l. `cd nam-1.15.`
  - m. `sudo make install`. **If error occurs then follow these steps:**
    - i. Download nam from:  
<https://drive.google.com/file/d/0B7S255p3kFXNNmtLeXhsaG5hXzQ/edit?pli=1>
    - ii. Then `sudo apt-get remove nam`
    - iii. Click on Open with Ubuntu Software Center and install it(SS Attached).



In last type these commands,

1. `sudo apt-get update`
2. `sudo apt-get dist-upgrade`
3. `sudo apt-get update`
4. `sudo apt-get install build-essential autoconf automake`
5. `sudo apt-get install tcl8.5-dev tk8.5-dev`

## 6. `sudo apt-get install perl xgraph libxt-dev libx11-dev libxmu-dev`

Type following commands on terminal

- `sudo gedit ~/.bashrc`

Copy the following lines at the end of the file.

```
# LD_LIBRARY_PATH
OTCL_LIB=/opt/ns-allinone-2.35/otcl-1.14/
NS2_LIB=/opt/ns-allinone-2.35/lib/
USR_Local_LIB=/usr/local/lib/
export
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:$OTCL_LIB:$NS2_LIB:$USR_L
ocal_LIB

# TCL_LIBRARY
TCL_LIB=/opt/ns-allinone-2.35/tcl8.5.10/library/
USR_LIB=/usr/lib/
export TCL_LIBRARY=$TCL_LIBRARY:$TCL_LIB:$USR_LIB

# PATH
XGRAPH=/opt/ns-allinone-2.35/xgraph-12.2/:/opt/ns-allinone-2.35/bin/:/opt/ns-
allinone-2.35/tcl8.5.10/unix/:/opt/ns-allinone-2.35/tk8.5.10/unix/
NS=/opt/ns-allinone-2.35/ns-2.35/
NAM=/opt/ns-allinone-2.35/nam-1.15/
export PATH=$PATH:$XGRAPH:$NS:$NAM
#---
```

Type following commands on terminal

- `source ~/.bashrc`

Type following commands on terminal

—

- `ns`

**If you received the “%” sign, it means that NS is running correctly !**

**Then test ns:**

Download file from Link: [https://mega.nz/#!30YxjR5Z!oYBGZg6rpd7SuBxN82pwNB-gnnF5c\\_VCqk-HG22JwUg](https://mega.nz/#!30YxjR5Z!oYBGZg6rpd7SuBxN82pwNB-gnnF5c_VCqk-HG22JwUg)

Then type following commands in terminal

```
cd Downloads
```

```
ns lecture.tcl
```