



NETWORK SIMULATOR

HOW TO INSTALL NS-ALLINONE-2.33 PACKAGE IN UBUNTU

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[download ns-allinone latest version](http://www.isi.edu/nsnam/ns/ns-build.html) (<http://www.isi.edu/nsnam/ns/ns-build.html>)

1. Create directory (`home -> mayzin -> ns`)
2. Put (`ns-allinone-2.33`) inside ns folder
3. Open Terminal
4. Go to the directory of ns (`cd ns`)
5. `tar xvfz ns-allinone-2.33.tar.gz`
6. Go to the ns-allinone-2.33 directory (`cd ns*`)
7. `sudo apt-get install build-essential autoconf automake tcl8.4 tcl8.4-dev tk8.4-dev libxmu-dev gawk gnuplot`
8. `./install`
9. `gedit ~/.bashrc`

```
#LD_LIBRARY_PATH
OTCL_LIB=/home/mayzin/ns/ns-allinone-2.34/otcl-1.13
NS2_LIB=/home/mayzin/ns/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/mayzin/ns/ns-allinone-2.34/tcl8.4.18/library
USR_LIB=/usr/lib
export TCL_LIBRARY=$TCL_LIB:$USR_LIB

#PATH
XGRAPH=/home/mayzin/ns/ns-allinone-2.34/bin:/home/mayzin/ns/ns-allinone-
2.34/tcl8.4.18/unix:/home/mayzin/ns/ns-allinone-2.34/tk8.4.18/unix
```

```
NS=/home/mayzin/ns/ns-allinone-2.34/ns-2.34/
NAM=/home/mayzin/ns/ns-allinone-2.34/nam-1.13/
PATH=$PATH:$XGRAPH:$NS:$NAM
```

```
#PATH
```

```
BM=/home/mayzin/ns/bonnmotion-1.4/bin/
COMPILE=/home/mayzin/ns/bonnmotion-1.4/compile/
MAKEDOC=/home/mayzin/ns/bonnmotion-1.4/makedoc/
PATH=$PATH:$BIN:$COMPILE:$MAKEDOC
```

```
10. source ~/.bashrc
```

```
11. ns
```

♦ If you see % , you can successfully install ns2 in ubuntu. After that, you need to validate and you can simulate ns2.

```
12. exit
```

```
13. cd ns-2.33
```

```
14. ./validate
```

OLSR Installation in NS-2.34

download source and patch

```
http://masimum.dif.um.es/?Software:UM-OLSR
http://masimum.dif.um.es/?Software:UM-OLSR:Patches
```

Installation

```
$ cd ns-allinone-2.34/ns-2.34/
$ tar zxvf um-olsr-o.8.8.tgz
$ ln -s ./um-olsr-o.8.8 ./olsr
$ patch -p1 < olsr/um-olsr-2.34_v0.8.8.patch
```

If you haven't installed ns2 yet, then do the following:

```
$ cd ..
$ ./install
```

On the other hand, if you are installing UM-OLSR on a running installation of ns2:

```
$ ./configure
$ make distclean
$ ./configure
$ make
```

NS Problem in Ubuntu 9.10 (Otc1 Problem)

ld: libotcl.so: hidden symbol `__stack_chk_fail_local' isn't defined

ld: final link failed: Nonrepresentable section on output

make: *** [libotcl.so] Error 1

otcl-1.13 make failed! Exiting ...

1. sudo apt-get install g++-4.3
2. CC=gcc-4.3 CXX=g++-4.3 ./install

Followings are the simple steps to install ns2 on Ubuntu 9.10 through launchpad ppa.

1> Firstly remove all ns-allinone-2.3x directory (if you put it anywhere to install ns2) and revert back all the path changes you made in ~/.bashrc related to ns2.

2> Now export the Wouter Horré's ppa repository key by typing the following command on terminal and enter:

```
sudo apt-key adv --keyserver keyserver.ubuntu.com (http://keyserver.ubuntu.com/) --
recv-keys B3F3334F
```

3> Now add the following ppa repository to source list [? (https://launchpad.net/+help/soyuz/ppa-sources-list.html)]

```
deb http://ppa.launchpad.net/wouterh/ppa/ubuntu
(http://ppa.launchpad.net/wouterh/ppa/ubuntu) karmic main
```

```
deb-src http://ppa.launchpad.net/wouterh/ppa/ubuntu
(http://ppa.launchpad.net/wouterh/ppa/ubuntu) karmic main
```

Reload repository information when prompted by "The information about available software is out-of-date" notification or reload it manually by following command on terminal:

```
sudo apt-get update
```

4> Now type the following command on terminal to install ns from the launchpad ppa repository:

```
sudo apt-get install ns nam xgraph
```

That's all. There is no need to set-up any path, environment variables or make any changes in ~/.bashrc .

Type ns to check:

You should see % at the command prompt (indicating successful installation)

Type exit if you get stuck with the %

Here is the link for above.

<http://ns2onubuntu.blogspot.com/2009/11/easiest-way-to-install-ns2-on-ubuntu.html>

(<http://ns2onubuntu.blogspot.com/2009/11/easiest-way-to-install-ns2-on-ubuntu.html>)

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