# configure NetBeans with ns-3

**Install Makefile wrapper**

NetBeans needs a Makefile to recognize a project as such. Create a file named **Makefile** inside ns-3-dev directory, containing the following.

# Makefile wrapper for waf

all:

./waf

# free free to change this part to suit your requirements

configure:

./waf configure --enable-examples --enable-tests

build:

./waf build

install:

./waf install

clean:

./waf clean

distclean:

./waf distclean

**Importing project**

* Run "./waf shell", and then **in the same terminal** start NetBeans using "netbeans" command.
  + Inside NetBeans go to *File->New Project...*, choose *C/C++->C++ Project with Existing Sources*, and click *Next >*.
  + Choose **ns-3-dev** under *Specify the folder that contains existing sources:* and make sure that *Auotomatic (using Makefile)* is selected under *Select Configuration Mode:*. Click *Finish*.
  + Waf clean and build get executed by NetBeans, this may take some time.

Editing project properties

* Right click on *ns-3-dev* in *Projects* and select *Properties*.
  + Under *Run*, Set *Run Command* to "./build/examples/tutorial/ns3-dev-first-debug" or any executable you want to run and debug.
    - If you want to set it to "/build/examples/tutorial/ns3-dev-first-debug" make sure you used "--enable-examples" option in "./waf configure" under Makefile.

Running programs

* Click *Run Project (ns-3-dev)* button.

Debugging programs

* Set breakpoints and click *Debug Project (ns-3-dev)* button.
* To debug a running ns-3 program, use *Attach Debugger...* under *Debug* menu or *Debug Project (ns-3-dev)* button dropdown.