Installation and Configuration (Ref: 01, 02)

Installing ns-3

- `sudo apt-get install gcc g++ python`
- `sudo apt-get install mercurial`
- `cd`
- `mkdir repos`
- `cd repos`
- `hg clone http://code.nsnam.org/ns-3-allinone`
- `cd ns-3-allinone`
- `./download.py`
- `./build.py --enable-examples --enable-tests`
- `cd ns-3-dev`
- `./test.py -c core`
- `./waf --run hello-simulator`

Running the first script

- `$ ./waf --run examples/tutorial/first`
- `$ vim examples/tutorial/first.cc`

Configuring NetAnim

- `cd repos/nes-3-allinone/`
- `cd netanim`
- `make clean`
- `qmake NetAnim.pro`
- `make`

Now your NetAnim is ready to use. For adding ns3 to your program, do the following:

- Add the header file include "ns3/netanim-module.h"
- Add the following statement before Simulation::Run() AnimationInterfaceanim ("animation.xml");
- Set give positions to your nodes. anim.SetConstantPosition (node, double x, double y);

Example codes

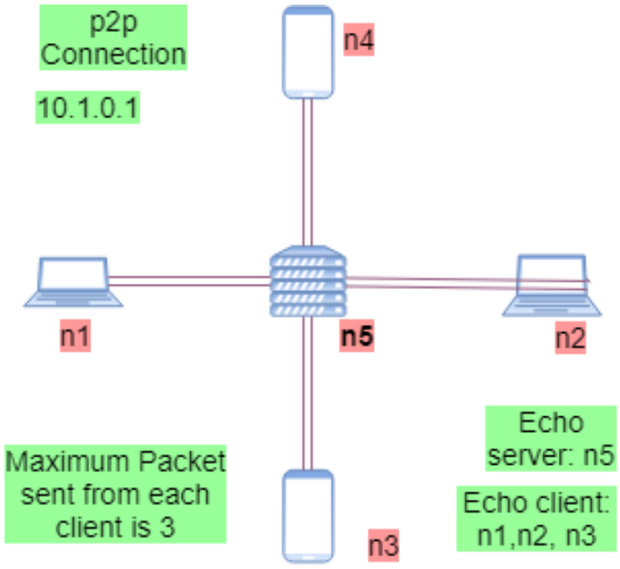
- The Library
- First.cc: Explanation
- Second.cc: Explanation
- Third.cc

You have already done

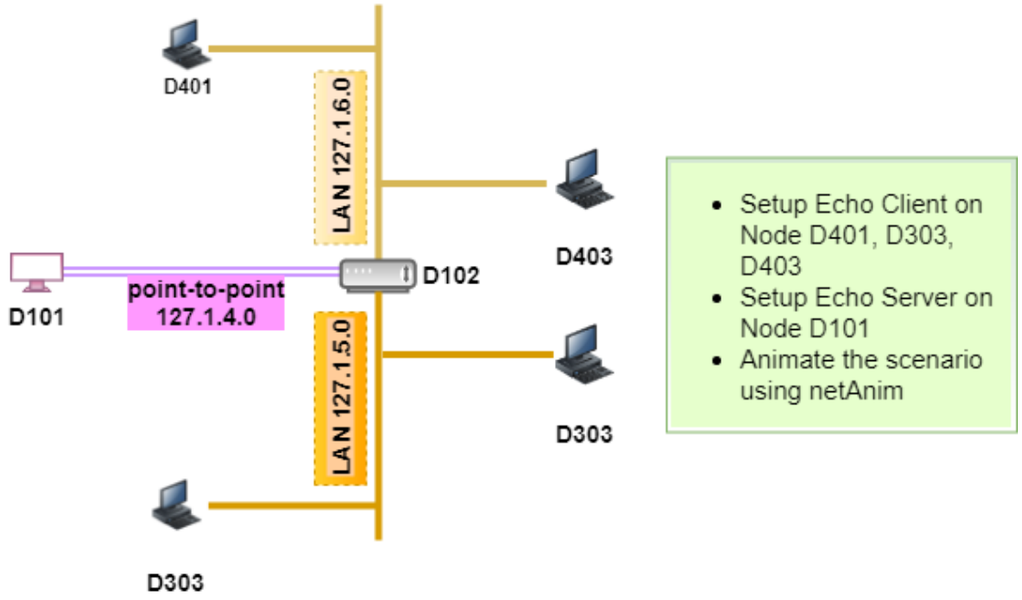
- First of all, you should properly install the ns-3 and configured NetAnim.
- After that, gain a complete understanding on the above mentioned sample codes. You should also be able to make, necessary print statements.
- Then create the given network in each example codes in netAnim& animate the overall data transfer operation.

Your Task Now

1. We are proposing a simple extension of the First sample code. Implement following network scenario and animate using netAnim.



2. Again, we are proposing a simple extension of the First sample code. Implement following network scenario and animate using netAnim.



Bonus: As you have already understood Thrid.cc, add some more wifi & LAN network with it.