OpenNOP Demo Lab in Vmware
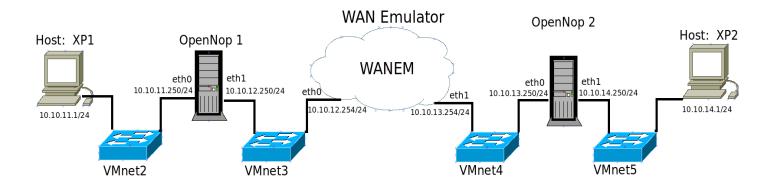
by emilio at parbul dot com 1 Aug 2012

Looking for a free solution to optimize WAN links (yesterday) I found the following page:

http://forums.whirlpool.net.au/archive/1865277

The page talk about three solutions (Opennop, WANProxy and TrafficSqueezer) which most caught my attention was Opennop.

In order to test OpenNOP I built a Virtual Lab in Vmware Workstation with excellent results :) and now i want to share with you.
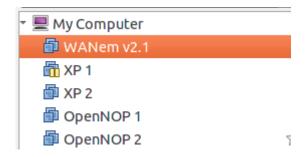
Below is the diagram of the virtual network:

There are 5 virtual machines:
> **XP1** and **XP2** are Windows XP virtual machines
> **OpenNop1** and **OpenNop2** are OpenNop virtual appliances in routing mode
> **WANAEM** is a open source emulator running as a virutal machine.
> (http://wanem.sourceforge.net)

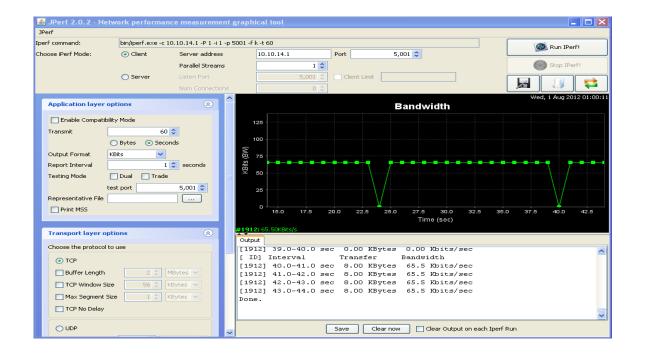Below you will see a list of Vmx on Vmware Workstation:

There are 4 Vmware Virtual Swiches "host-only mode",you need add in the virtual Network Editor (Menu Edit – Virtual Network Editor) because Vmware by default only have Vmnet0 (bridged), Vmnet8 (NAT) and vmnet1 (host-only)
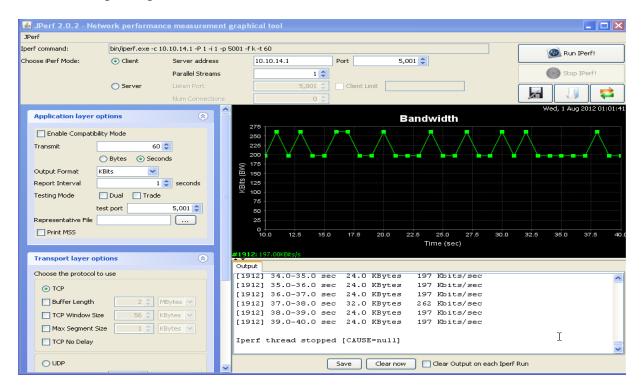
I configured WANEM to emulate a Satellite link   (64 kbits with 270 ms of delay)

And installed JPERF in both XP Machine to test bandwith first with OpenNop desactivated:

And them with OpenNop activated:

Ok, there is amaizing but jperf send traffic with the same character and the compression of OpenNop is in his maximum expression :).

For most realistic test I installed a Ftp server in one XP host (Filezilla server in XP2) and I download one Excel and one Word document From XP1 (choosed aleatory from my personal documents).

First with OpenNop desactivated:

And them the same files with OpenNop activated:

Not bad I think :D

And that was my first econunter with OpenNop, id go very closely