Introduction :

I consider myself as a beginner in networking even-thought I am able to set up VPN using ZyWall, Fritz Box, OS X.

I have written this guide because I thought, I would ask the help of OpenWRT community. After many hours to understand how to set up :

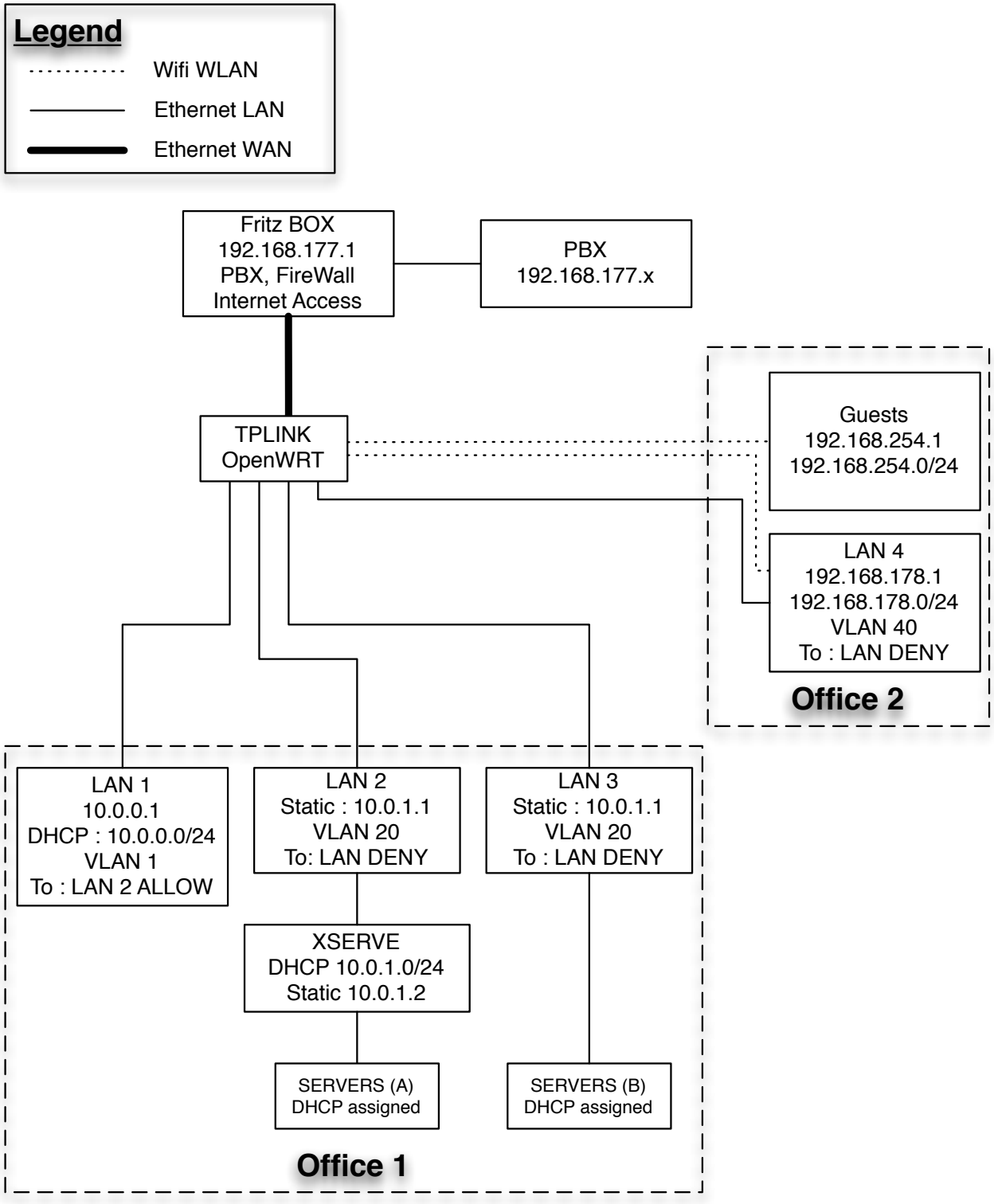
- Multiple VLANs => LAN ;
- Multiple DHCP ;
- Reject or allow connections from some LANs to others ;

I am not sure every settings I have made are useful. Neither am I about the security perspective (don't think my WiFi isn't secure). If you'd like to point out stuff I should consider to help myself and others you're welcome to do so using

me.com email : lange.ludo+openwrt

Written Ludovic Paul Pascal Lange 3 Mai 1984 Varese (I) the 20 Apr 2013

Network map :



TP-Link :

Model : TL-WR1043ND
OpenWRT : Attitude Adjustment 12.09-beta2

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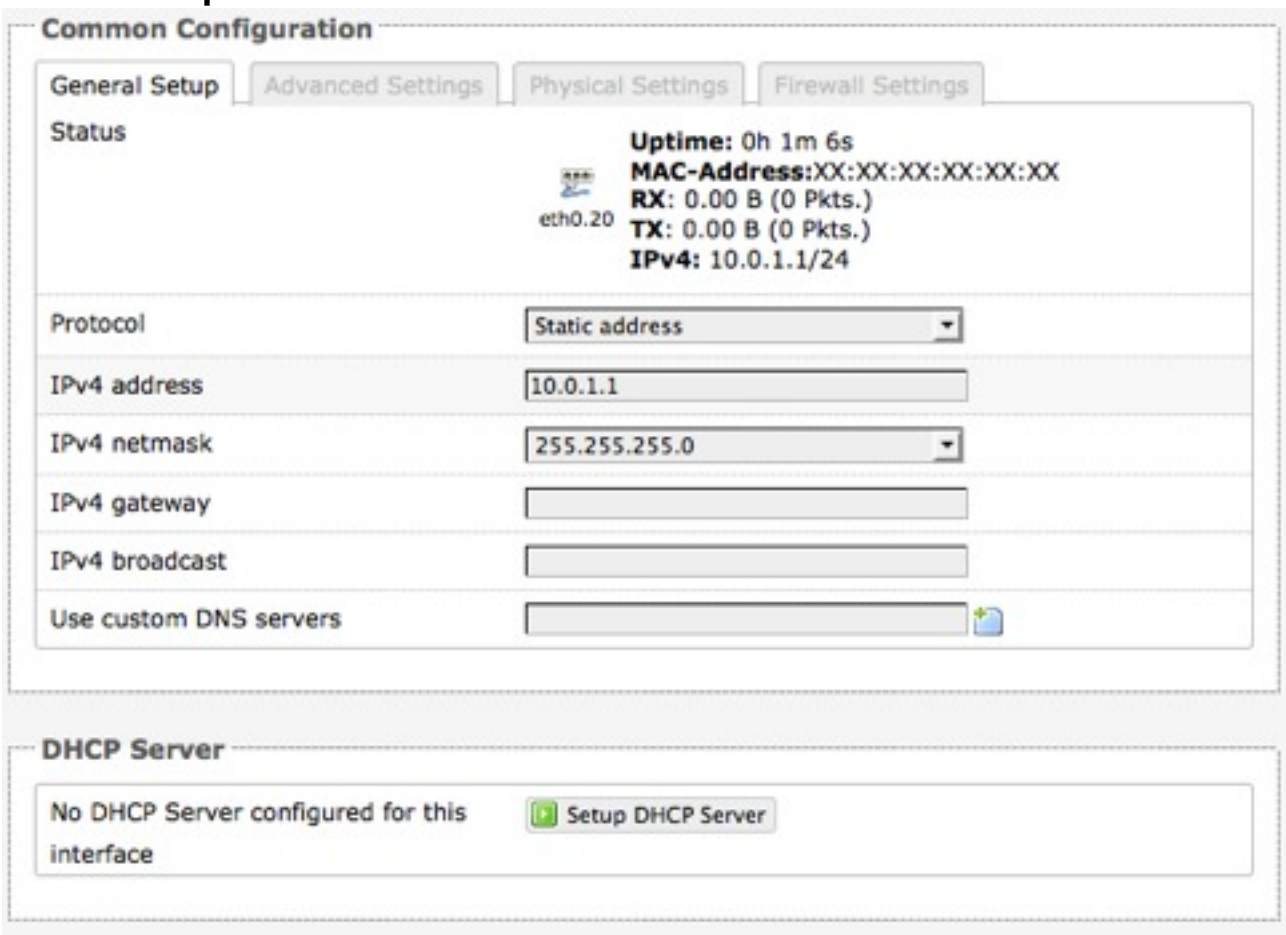
WiFi enabled :

If it allows myself not to push like a dumb-head on the QSS button. Set my computer to static IP 192.168.1.2 and telnet 192.168.1.1 to write "firstboot" it's worth configure it first.

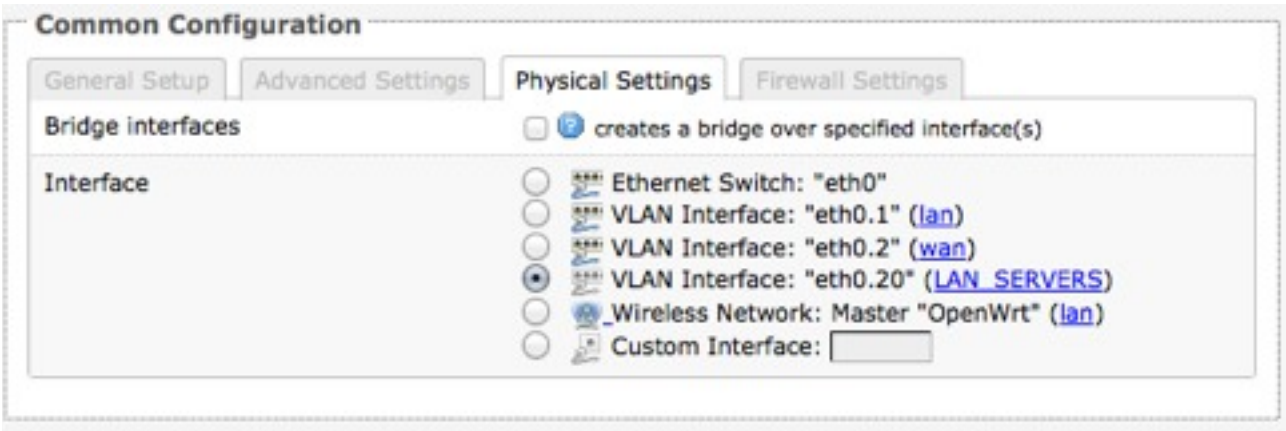
LAN SERVERS :

Interfaces :

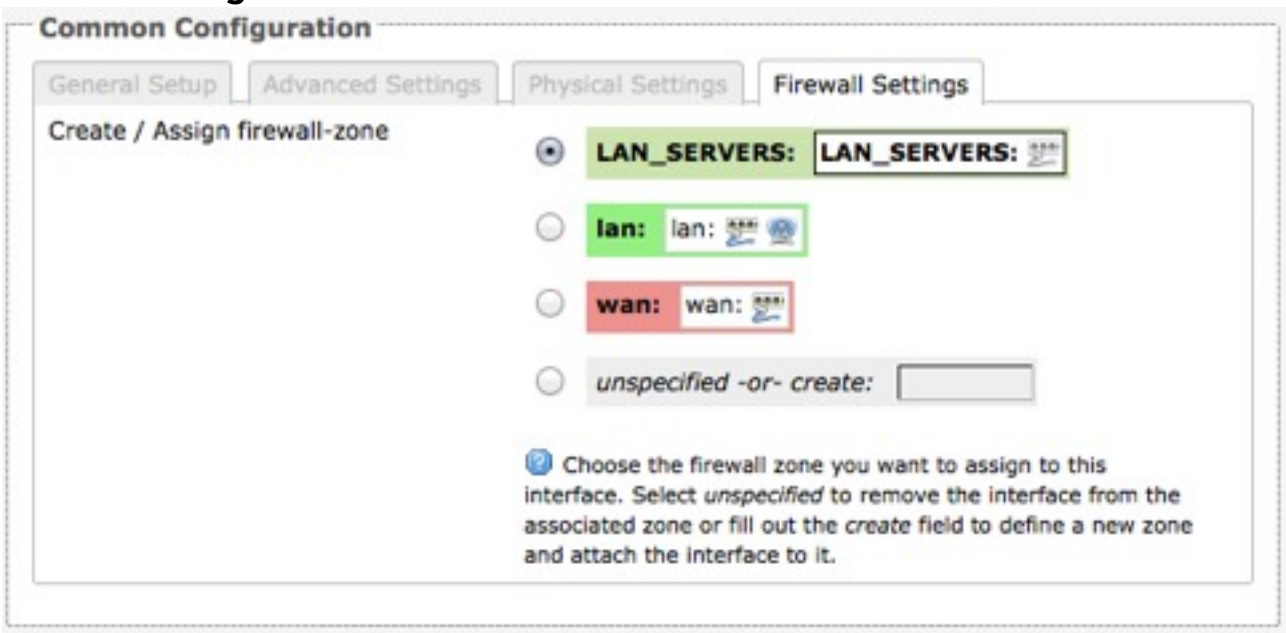
General Setup :



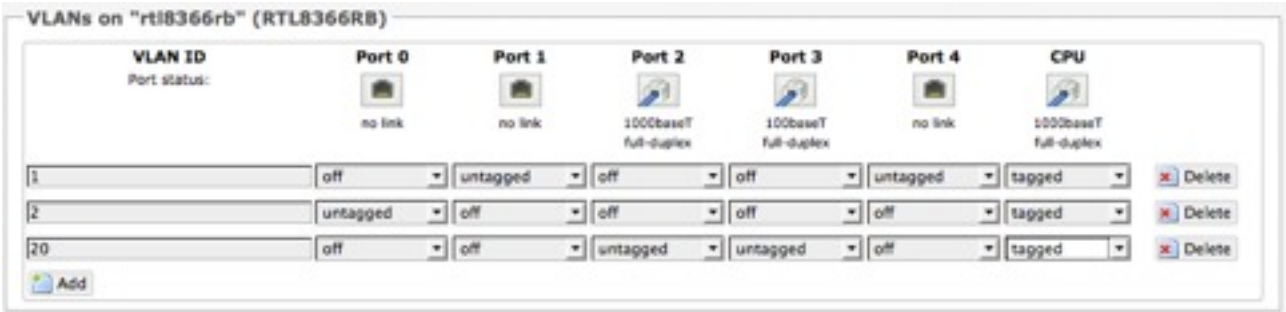
Physical Settings :



Firewall Settings :



Switch :

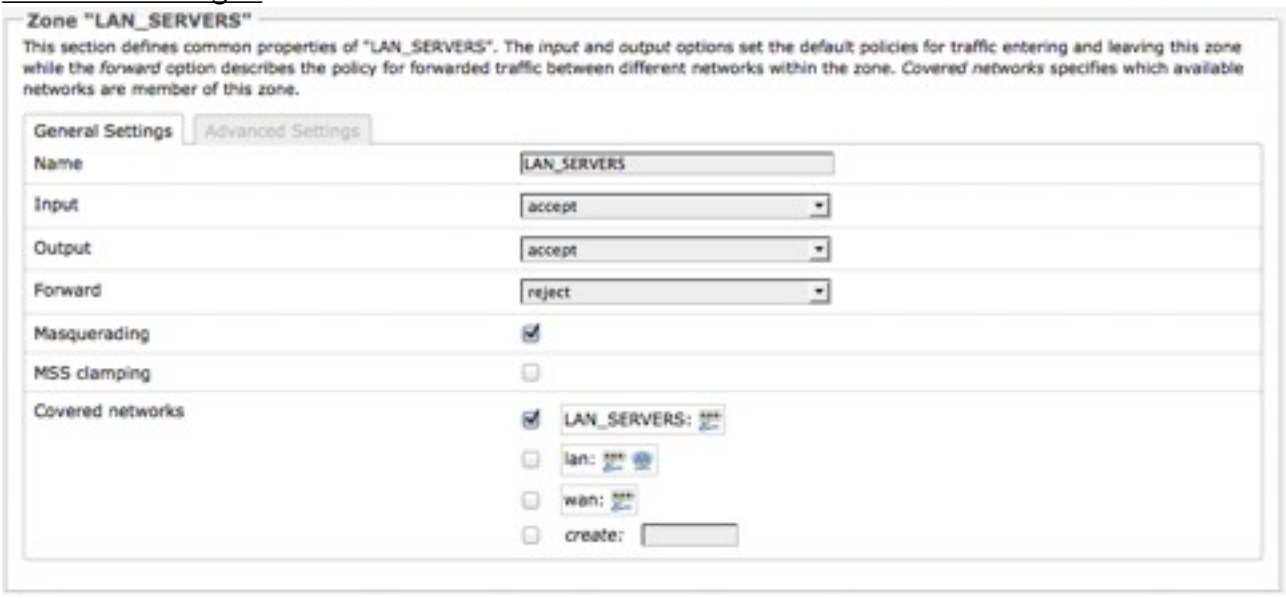


Firewall :

General Settings :

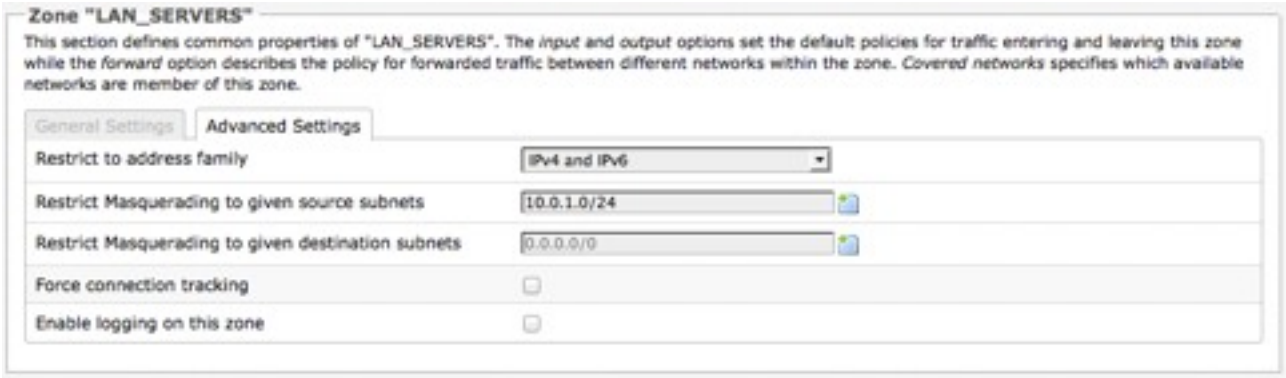
We now create a / update the new zone :

General Settings :



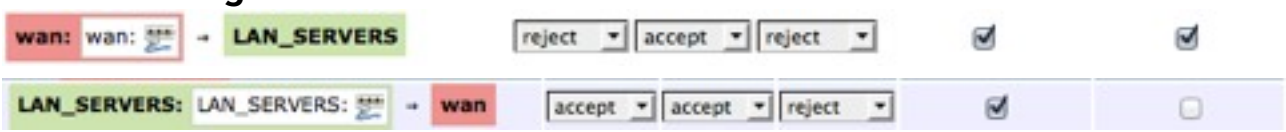
Advanced Settings :

We don't want another LAN DHCP to interfere with our new zone :



Our firewall general configuration will look like :

General Settings :



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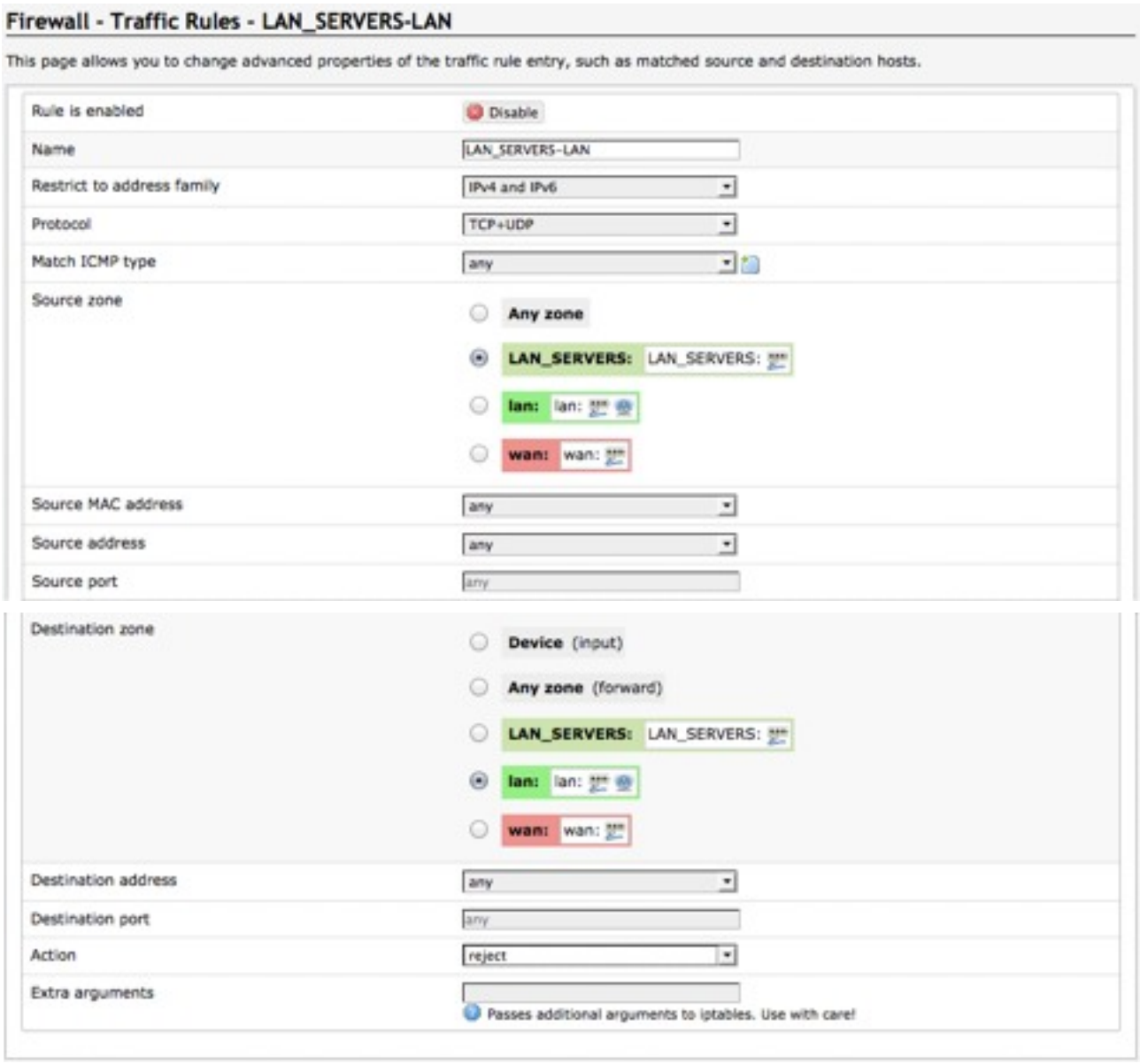
Traffic rules :

We'd like to forbid access to other subnets :

New Forward Rule :

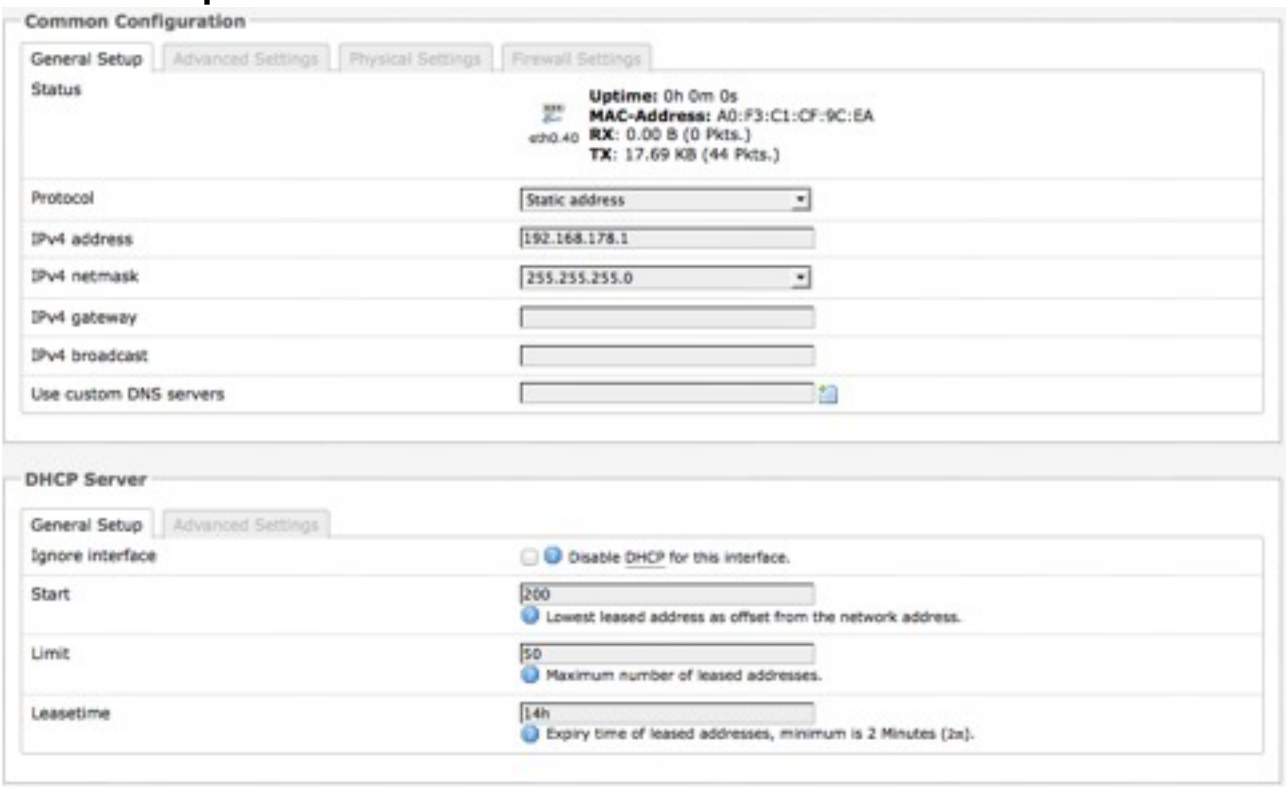


NB : You still have access to whole bunch of router IP address...

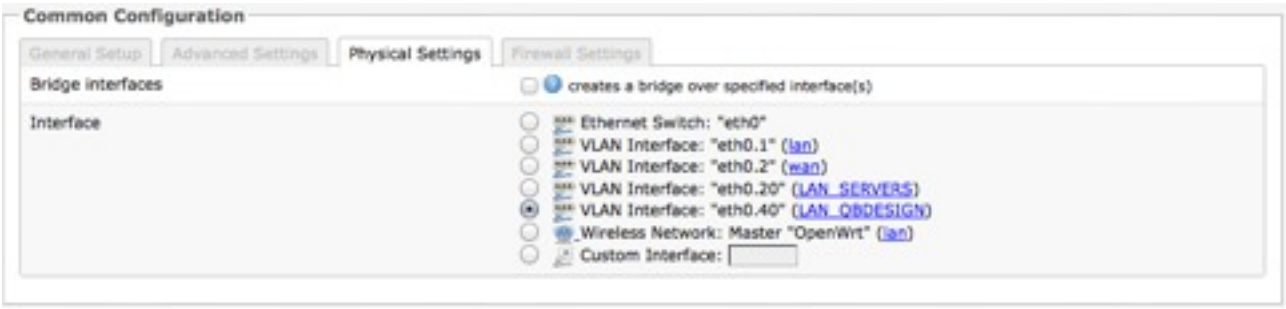
LAN QBDESIGN :

Interfaces :

General Setup :



Physical Settings :



Firewall Settings :

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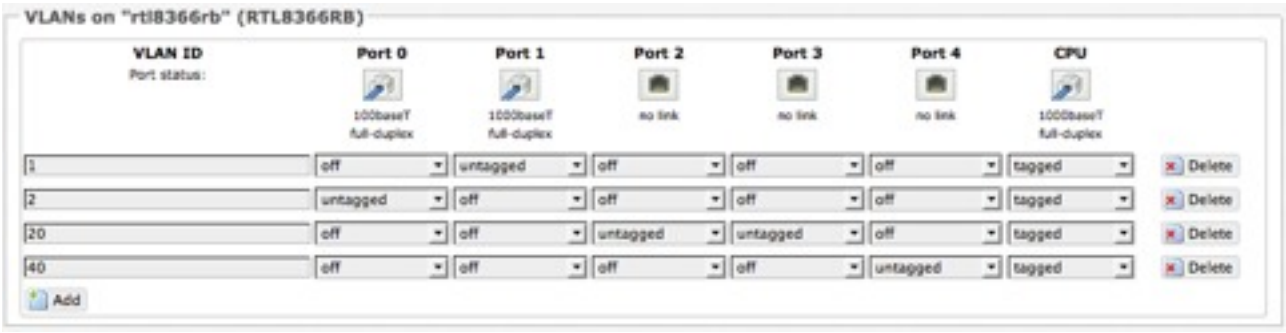
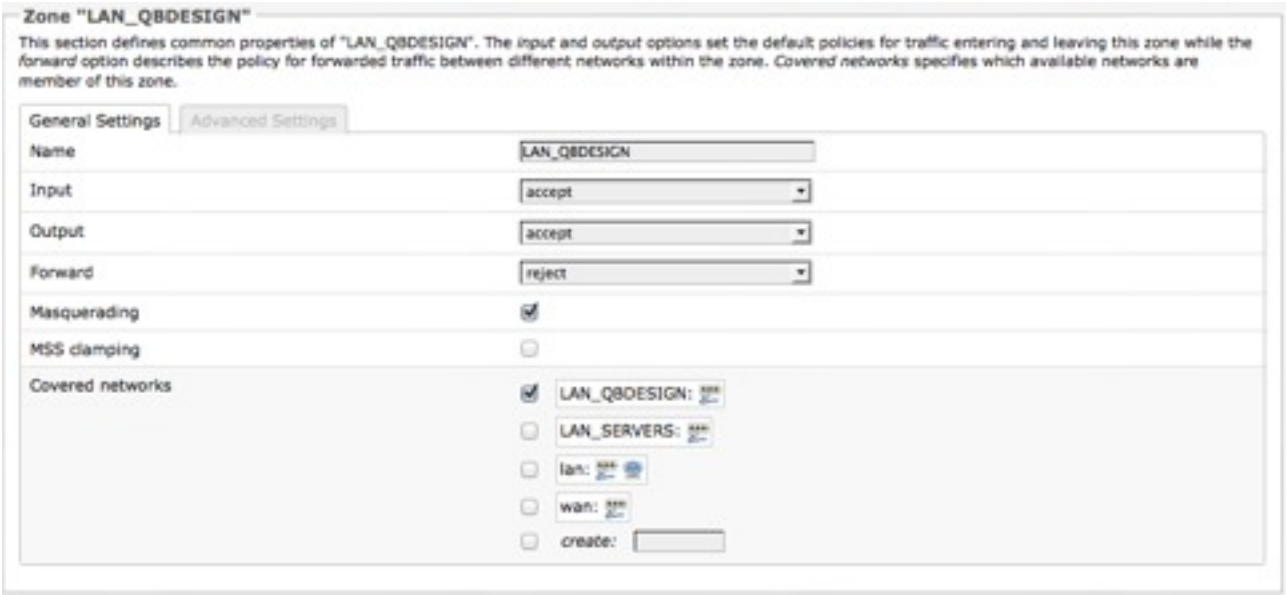
Switch :



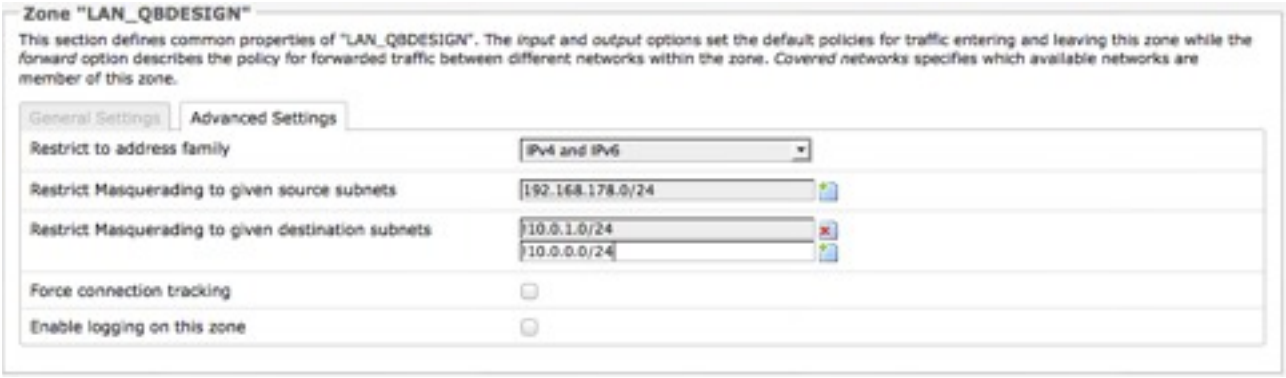
Firewall :

General Settings :



Advanced Settings :

We forbid masquerading with our 10.0.x.x LAN by setting “Restrict Masquerading to given destination subnets” to “!10.0.1.0/24” and “!10.0.0.0/24” :



Traffic Rules :

We also as previously explained set up Traffic Rules to reject traffic from this zone to the other LAN :

Addendum :

To have multiple LAN DHCP Servers with your OpenWRT you must also change the MAC Address on the specified interface eg. from x0:xx:xx:xx:xx:xx to x1:xx:xx:xx:xx:xx

You may find a full-config for the network described in this document at http://idisk.jumparound.be/public/OpenWrt.tar.gz login : **root** password : **root** (some differences might exists between my guide and the configuration as I still need to test some stuff).