

Experience with QoS zeroshell by Dario Tilotti

The intention of this paper is to discuss experiences and development applied of ZEROSHELL for make QoS and monitoring in an ISP.

ISP details:

We have one ISP in Santa Teresita (Buenos Aires province), Argentina.
ISP have 20 Mbit/s, dedicated.

We give service over following plataforms:

Cable modem

wireless 2.4GHz

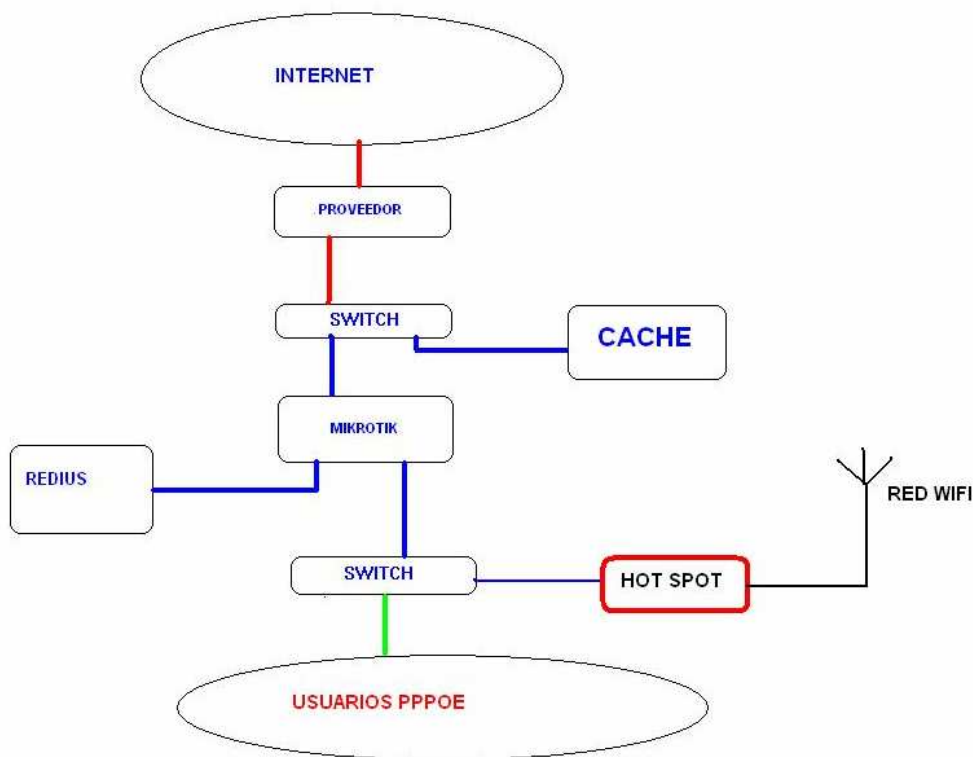
wireless 5.8GHz

Fiber optic Media Converter

Hot Spot

Clients access by PPPoE, with PPPoE túnel we make bandwidth control.

We use Mikrotik Router and FreeRadius over CentOS.



UIT this infrastrucutre whe have saturation problems because P2P control with Mikrotik not is enough.

In this point we have two roads:

Continue increasing bandwidth or make QoS, then we search and find your solution, Zeroshell solution.

We Start with LiveCD and later we make instalation in Hard Disk with following instructions manual:

<http://digilander.libero.it/smasherdevouner/schede/linux/Zeroshell%20su%20HD-EN.pdf>

Also we update L7-Protocols but not with wget, we download last version at Pen Drive and make following steps:

Change name to l7-protocols-2009-05-28.tgz

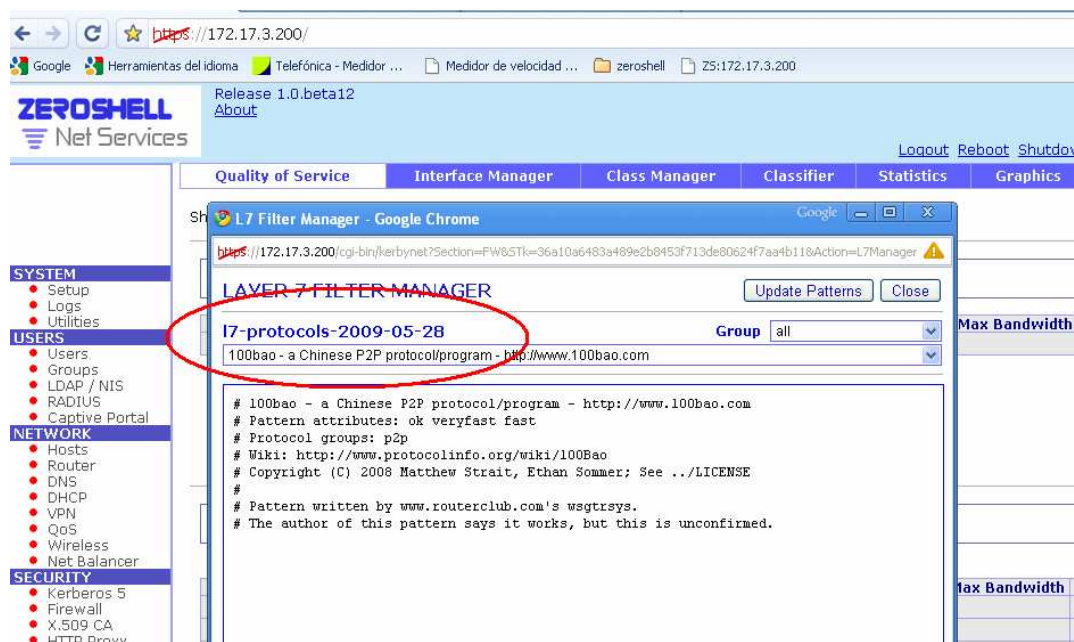
```
cd/  
cd /mnt/  
mkdir chiavetta  
ls  
cd /  
mount /dev/sda1 /mnt/chiavetta
```

```
cd /mnt/chiavetta
```

```
cp l7-protocols-2009-05-28.tgz /var/register/system/net/L7
```

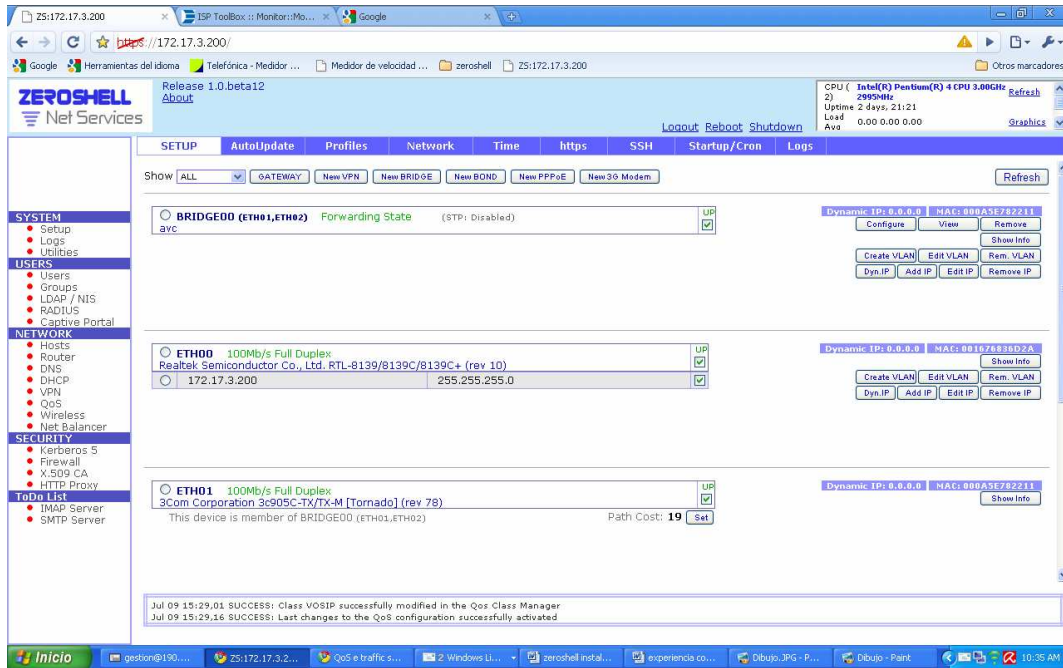
```
reboot
```

(See following picture)

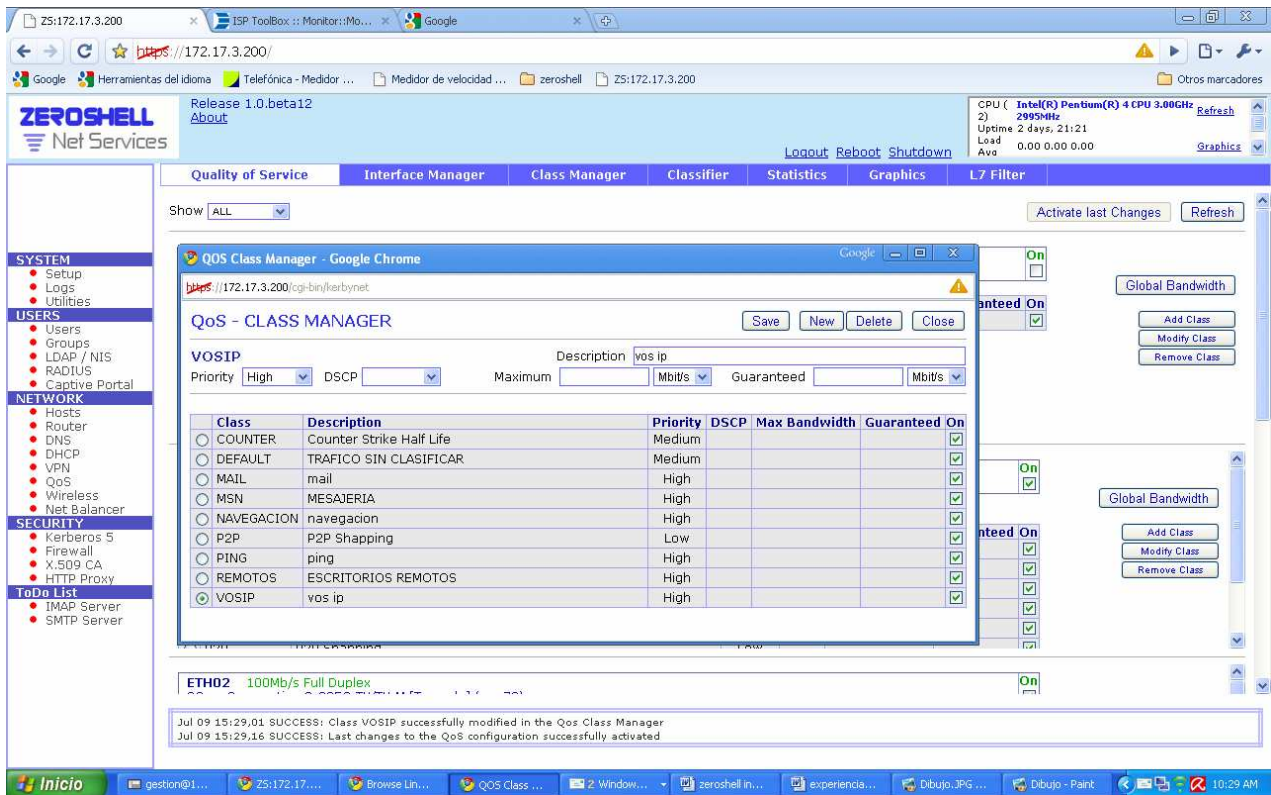


Later make bridge and add all for QoS with:

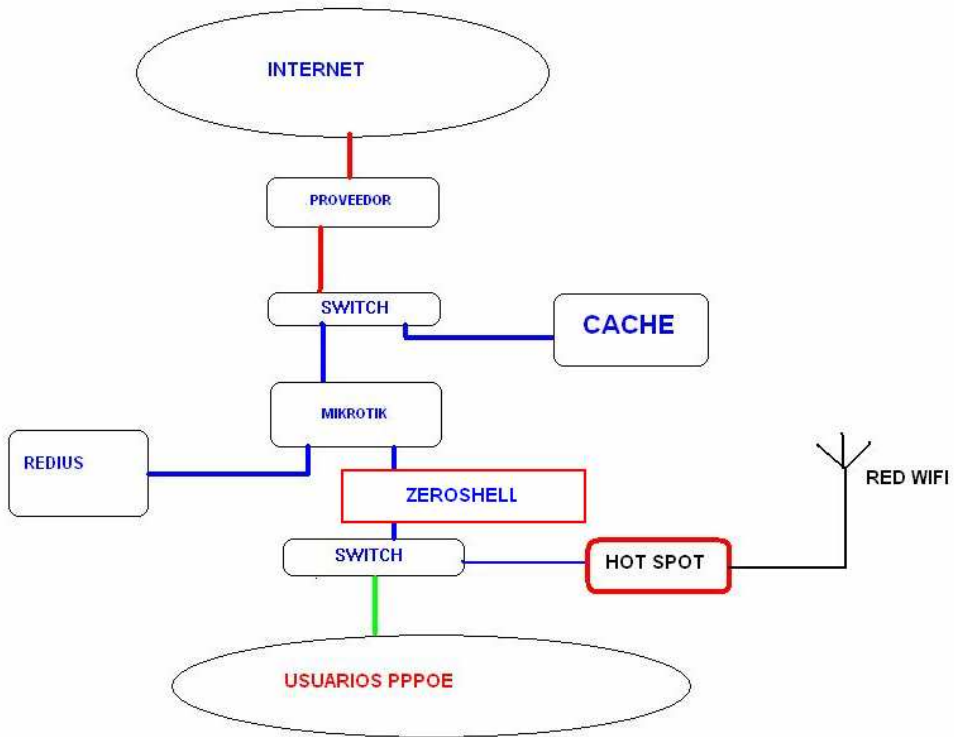
<http://www.zeroshell.net/qos/>



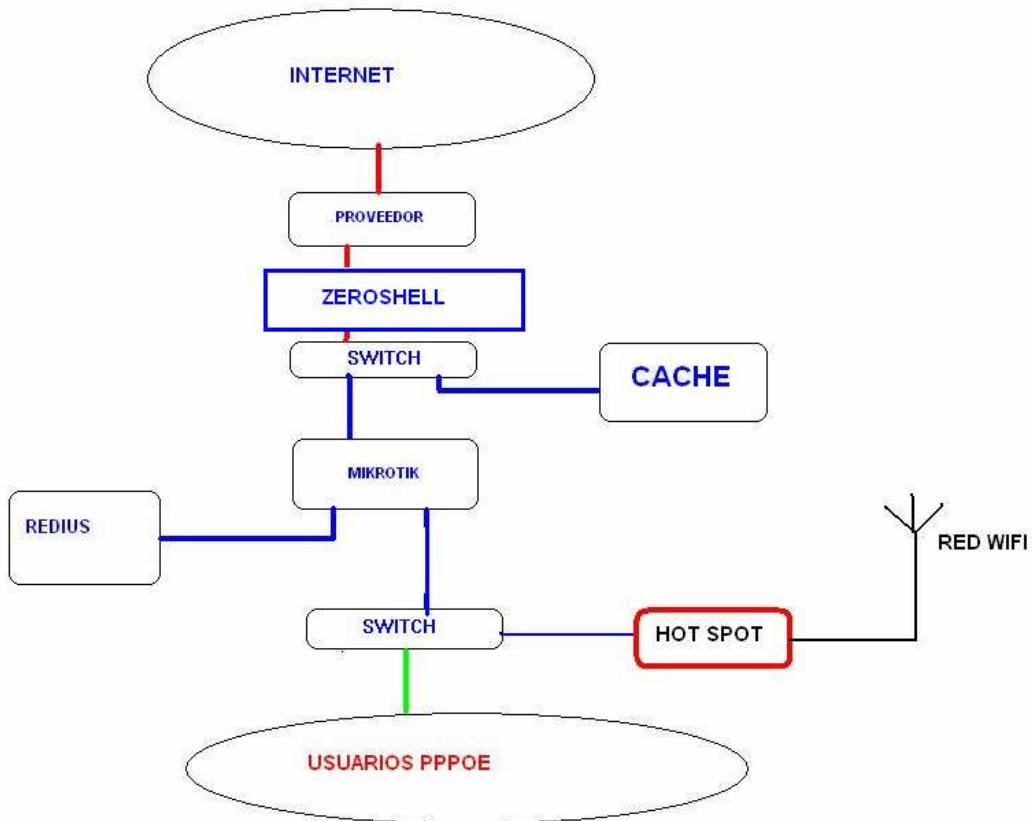
Add following classes:



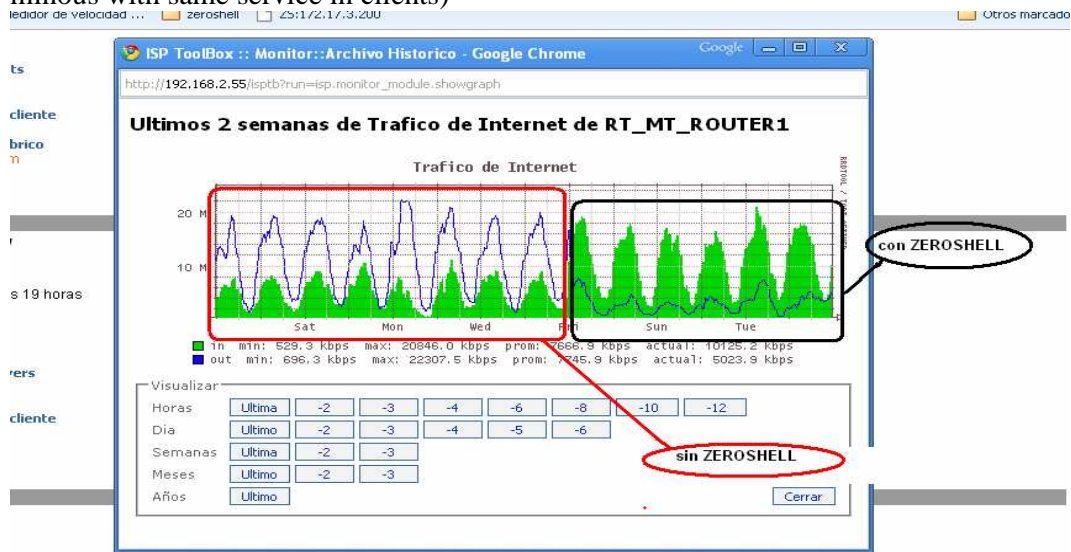
And add Zeroshell in our system (between users and Mikrotik Router)



In this point Zeroshell not work fine (we not know if not is a problem with PPPoE pakets) then we put Zeroshell between our WAN router and Provider connection.



In this point yes work fine Zeroshell with very good effectiveness. We force down from 20Mbps to 15Mbps and we not note change in quality service of clients (this is a 25% minous with same service in clients)



We see that work very fine.
I hope that my comments might be useful.

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