

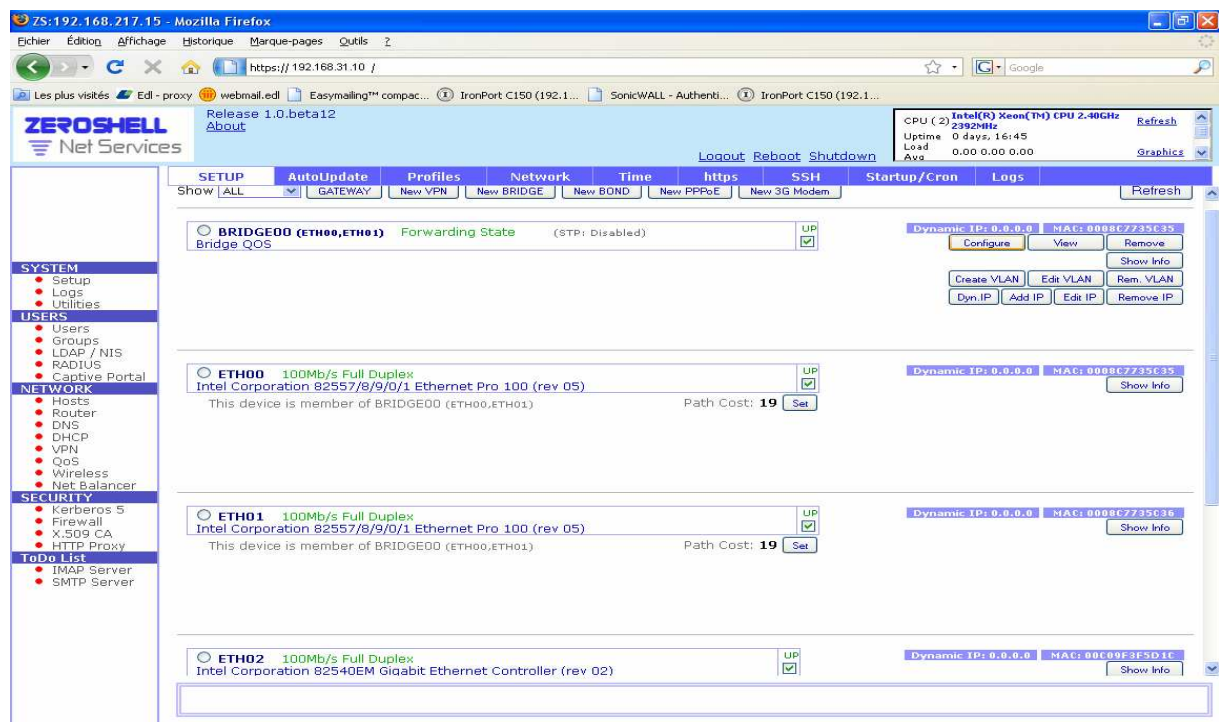
1) Zeroshell Installation

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

2) Setting up the QoS system on Zeroshell

In Order to install a QOS system with Zeroshell, you need to have 3 NICs on you computer. The third NIC ETH02 will be dedicated to the web management of Zeroshell, the first two ETH00, ETH01 will be used for the bridge which will help us to control and monitor the QoS.

After having choice the different interfaces functions, you will have to create a bridge between two interfaces here ETH00, ETH01 in the zeroshell System > Setup > Network menu by clicking on New bridge.



Bridge Interface Configuration

>> Interface: BRIDGE01

Save Close

Description

Forwarding Parameters

Forward Delay

Ageing Time

Spanning Tree Protocol

Bridge Priority

Hello Time

Max Age

Available Interfaces



>>>
<<<

Bridge Components

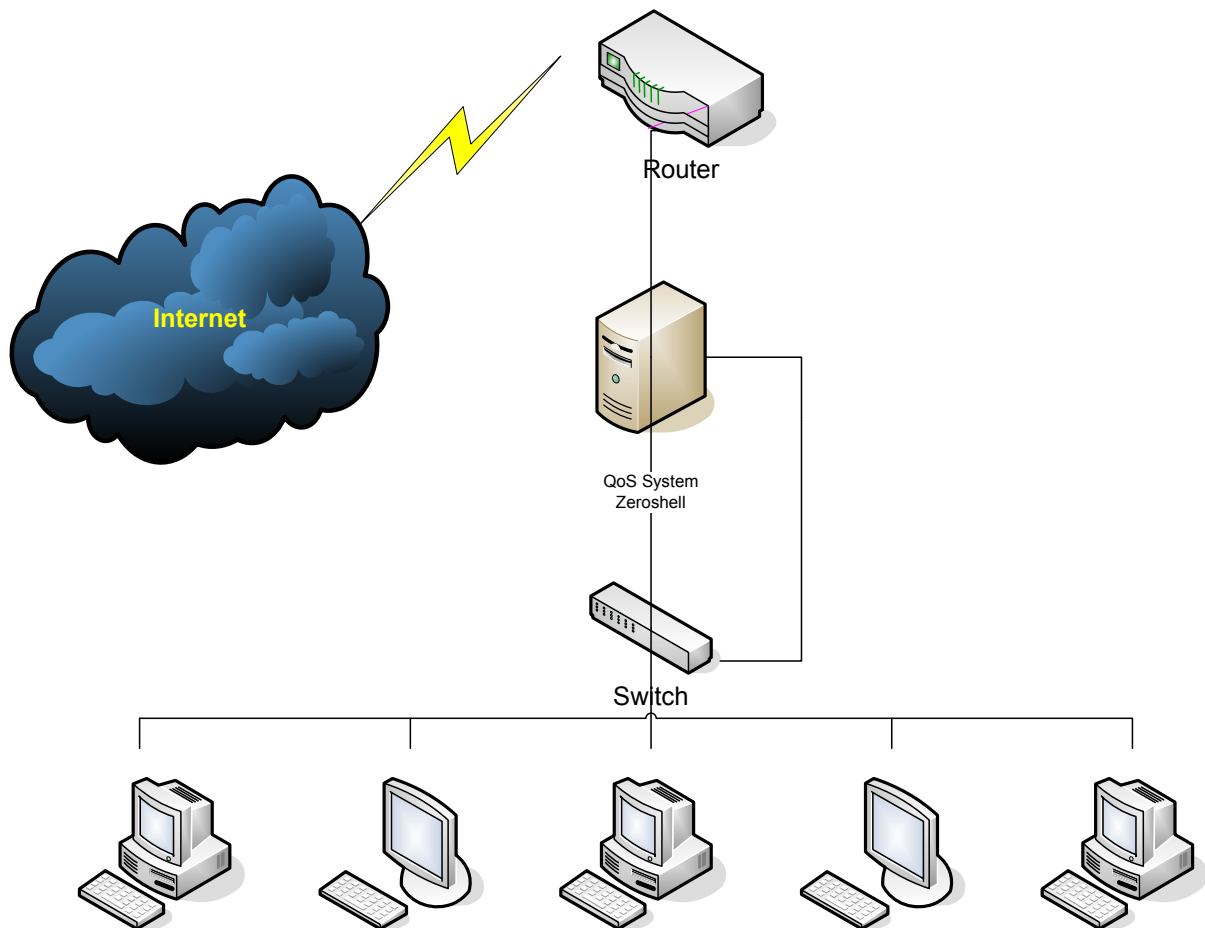


When the bridge is created you have to activate the QoS service on the two bridge interfaces ETH00 and ETH01.

Your QoS system is installed.

3) Where the QoS system should be placed?

The QoS system have to be placed between your Internet Service Provider router and your LAN Local network just see below.



4) How to create a QoS rule?

To create a QoS rule, you have to go first on the Network > QoS menu, create a class in the Class Manager Menu for instance a SSL class with High Priority.

After that, you should also create a SSL rule with the L7 Manager targeted on the SSL Class in the classifier menu.

And finally, you have to activate the class for each bridge interfaces ETH00 and ETH01.

ZEROSHELL Net Services | Release 1.0.beta12 | About | CPU (2) Intel(R) Xeon(TM) CPU 2.40GHz | Uptime 0 days, 16:45 | Load Avg 0.00 0.00 0.00

Quality of Service | Interface Manager | **Class Manager** | Classifier | Statistics | Graphics | L7 Filter

Show ALL | Activate last Changes | Refresh

ETH00 100Mb/s Full Duplex | On | Intel Corporation 82557/8/9/0/1 Ethernet Pro 100 (rev 05) | Global Bandwidth

This device is member of BRIDGE00 (ETH00,ETH01)
QoS Status: Enabled Max:100Mbit/s Guaranteed:100Mbit/s (Assigned:16%)

Class	Description	Priority	DSCP	Max Bandwidth	Guaranteed	On
<input type="radio"/> DEFAULT	Default class for unclassified traffic	Medium				<input checked="" type="checkbox"/>
<input type="radio"/> SSL	SSL traffic	High		16Mbit/s	16Mbit/s	<input checked="" type="checkbox"/>

ETH01 100Mb/s Full Duplex | On | Intel Corporation 82557/8/9/0/1 Ethernet Pro 100 (rev 05) | Global Bandwidth

This device is member of BRIDGE00 (ETH00,ETH01)
QoS Status: Enabled Max:100Mbit/s Guaranteed:100Mbit/s (Assigned:16%)

Class	Description	Priority	DSCP	Max Bandwidth	Guaranteed	On
<input type="radio"/> DEFAULT	Default class for unclassified traffic	Medium				<input checked="" type="checkbox"/>
<input type="radio"/> SSL	SSL traffic	High		16Mbit/s	16Mbit/s	<input checked="" type="checkbox"/>

ETH02 100Mb/s Full Duplex | On | Intel Corporation 82540EM Gigabit Ethernet Controller (rev 02) | Global Bandwidth

This device is member of BRIDGE00 (ETH00,ETH01)
QoS Status: Disabled Max:100Mbit/s Guaranteed:100Mbit/s (Assigned:0%)

Class	Description	Priority	DSCP	Max Bandwidth	Guaranteed	On
<input type="radio"/> DEFAULT	Default class for unclassified traffic	Medium				<input checked="" type="checkbox"/>

Jul 24 08:17:53 SUCCESS: Class SSL (P:High M:16Mbit/s G:16Mbit/s) successfully modified for the interface ETH01
Jul 24 08:18:05 SUCCESS: Last changes to the QoS configuration successfully activated

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