OpnSense Notes

Here’s a collection of notes and details for the house router setup.

Build

Software: OpnSense 24.7.4_1

Hardware: Gigabyte H97N-Wifi motherboard

Processor: Intel i5-4460

Setup

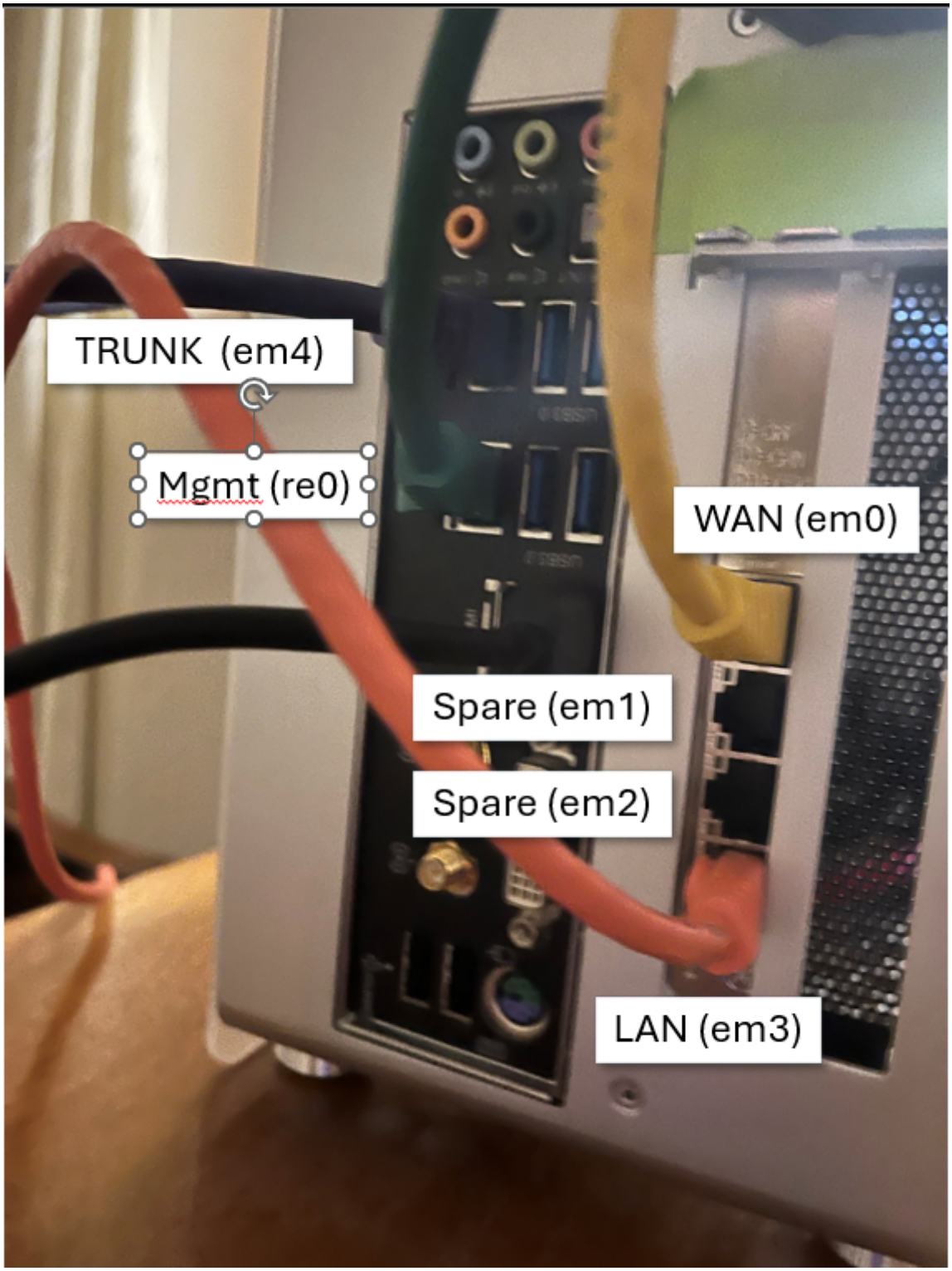
Base setup was done following this article: https://homenetworkguy.com/how-to/set-up-a-fully-functioning-home-network-using-opnsense/#unbound-dns-general

Dynamic DNS Setup is here: https://oga.atlassian.net/wiki/spaces/~311198967/pages/234848257/OpnSense+DynDNS+Setup

It’s a good guide on how to add a new VLAN and associated interface.

Network Ports

Here’s a picture of the backside of the router, showing ports and connections:



Here’s the list of used connections:

Logical	Service	Connection
WAN (em0)	Incoming internet connection.	Connects directly to fiber transceiver
Spare (em1)	Spare port	NA

Spare (em2)	Spare port	NA
LAN (em3)	Untagged LAN traffic.	Connects to switch, SW20, port 8.
Trunk (em4)	VLan tagged traffic from main switch.	Connects to switch, SW20, port 1.
Mgmt (re0)	Management access from VLAN60.	Connects to switch, SW20, port 16.

Web UI Access

The UI is available on the LAN interface at: https://192.168.1.1

The LAN interface is LAN3 (em3), which is the bottom port on the 4-port NIC.

Locked out of Web GUI

If you ever get locked out of the web interface, open an ssh session to the router, and issue this:

`configctl webgui restart renew`

Taken from here: https://docs.opnsense.org/troubleshooting/webgui.html

Speed Test

Installed speed test plugin from here: https://github.com/mimugmail/opn-repo

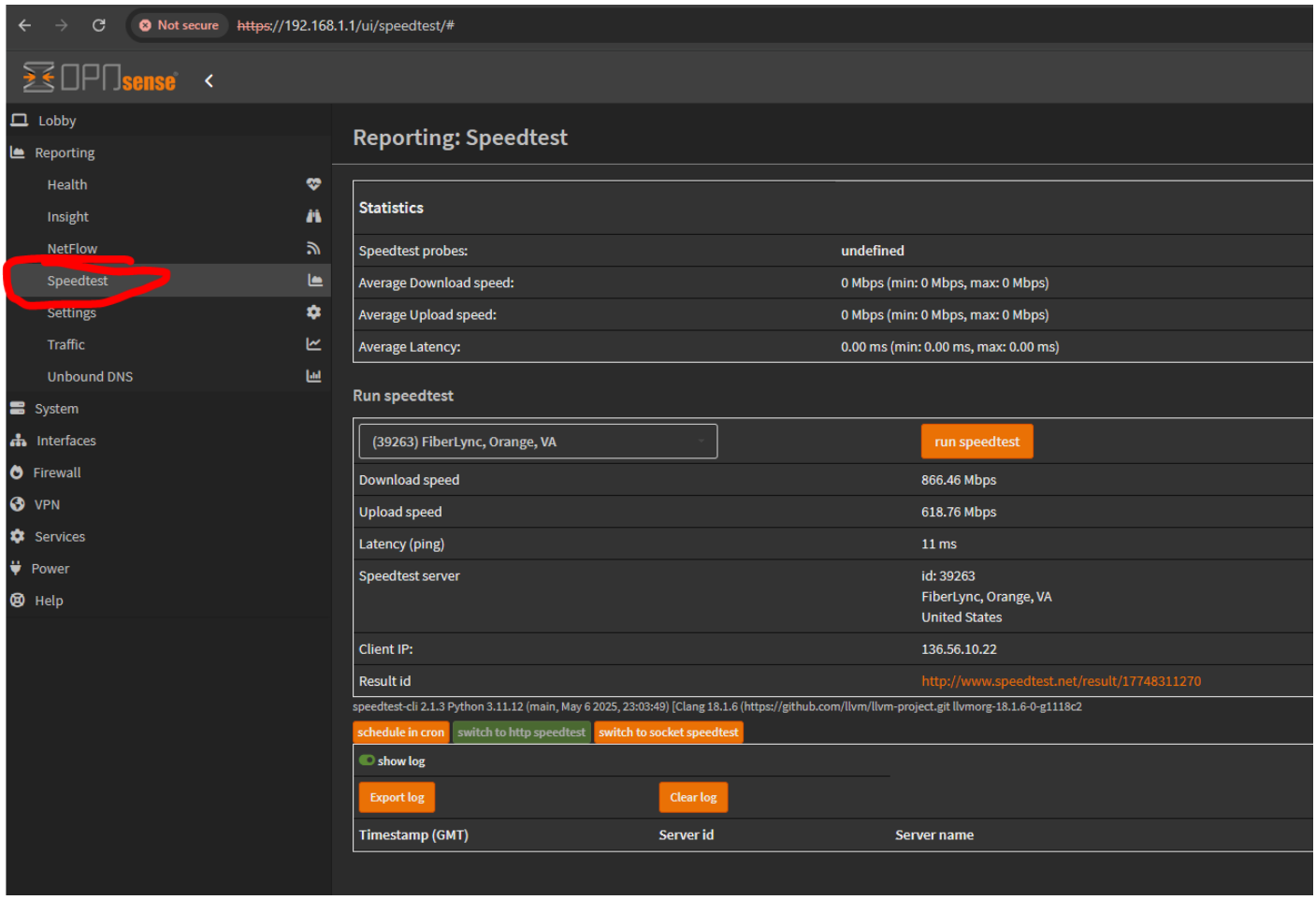
This requires opening an SSH session to the router, and running this line (taken from the GitHub page):

```
fetch -o /usr/local/etc/pkg/repos/mimugmail.conf https://www.routerperformance.net/mimugmail.conf
pkg update
```

Once installed, open OpnSense and navigate to available plugins.

Locate the added plugin called: os-speedtest-community, and install it.

Once installed, you can open it from here:



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