Firewall

As Firewall I use IPFire . https://www.ipfire.org

This document is valid as per December 2023. Revisions will be made as changes in below occurs.

Please refer to the Topology page for a visual graphic.

IPFire Network denominations



RED incoming ISP connection	Used
GREEN interconnected wired Lan	Used
BLUE wireless connections	Used
ORANGE that has a standard DMZ setup	Not used

IPFire is a custom Linux distribution installed on my SuperMicro server with a network card having 4 1GBit ports. It is a bare-metal setup, no hypervisor or anything virtual on it's server. Server specifications here.

Firewall settings

It is not obvious what method to use to document my current firewall and all it's settings. I have tried to avoid complex rules and configurations and trying to find a general documented approach that is based on what the network and its monitoring components need to work as safely as possible.

As mentioned above the original configuration of the firewall is based on default networks: Known network Zones .

RED is DHCP towards ISP. GREEN has been defined as 192.168.1.1/24, BLUE as 192.168.10.1/24.

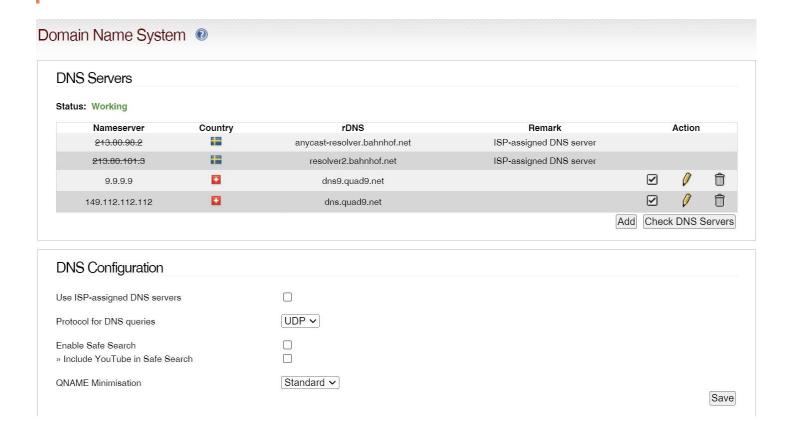
Essential parts of the configuration

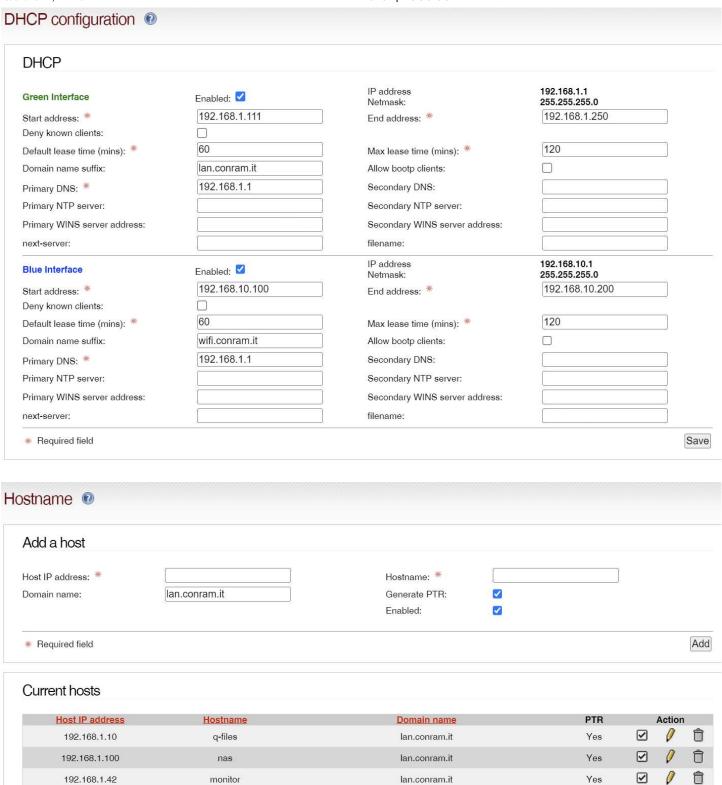
As you use the menu you will see these pages in below order. The screenshots indicate current configuration.

Current Firewall rules comes last.



As you can see by above image, it is extremely important to connect cables to the correct network port.

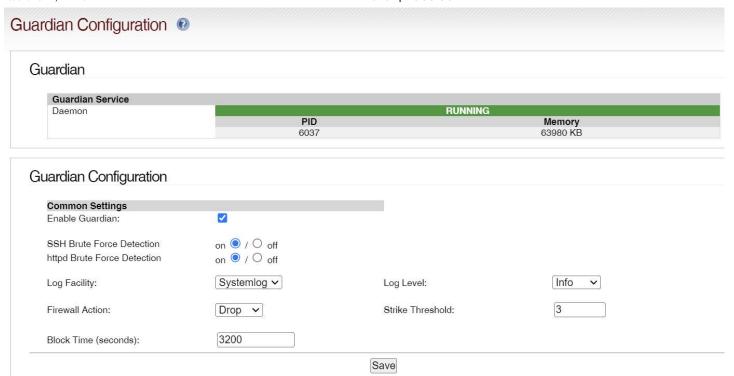




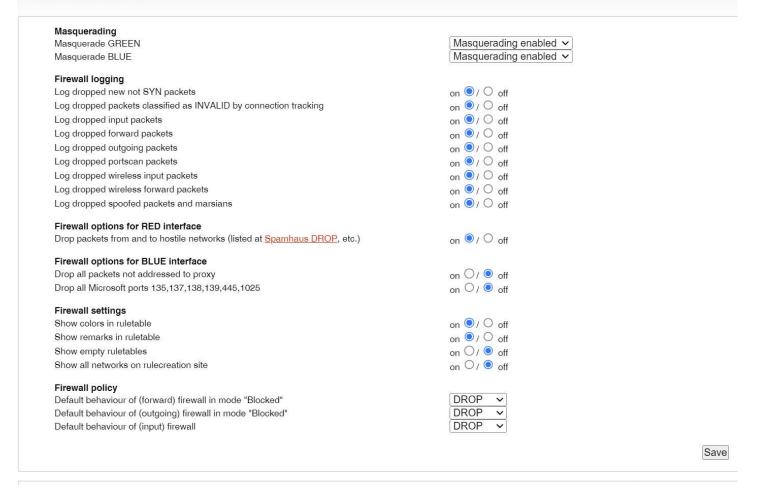
lan.conram.it

Guardian is a Plugin to the Firewall:

192.168.1.42



Firewall Options



Default firewall behaviour

FORWARD

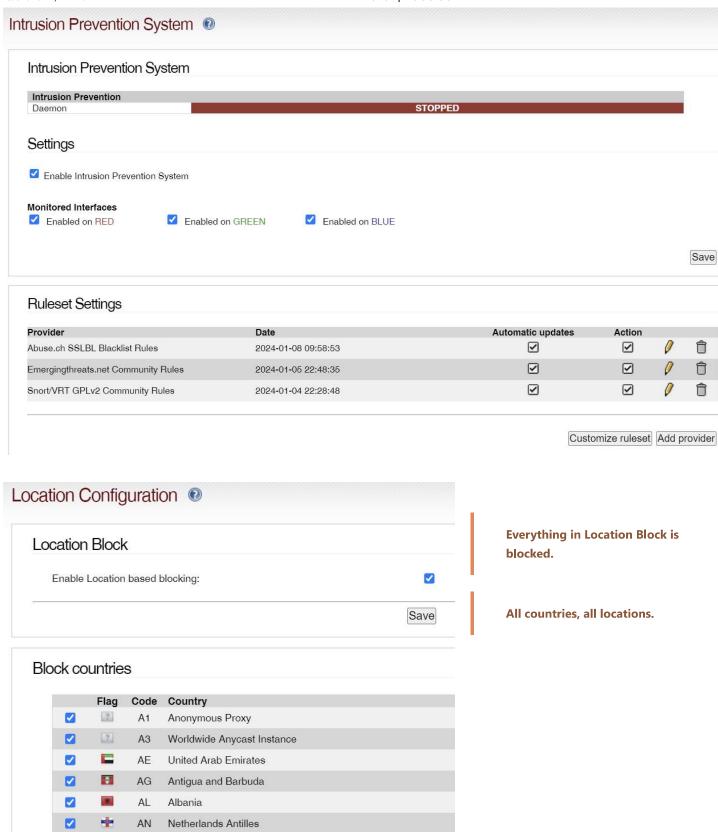
Sets the default firewall behaviour for connections from local networks. You may either allow all new connections or block them by default. Connections between the local networks are also blocked in the latter mode.

Allowed > Save

OUTGOING

Sets the default firewall behaviour for connections initiated by the firewall itself. Attention! You may lock yourself out.

Allowed V Save

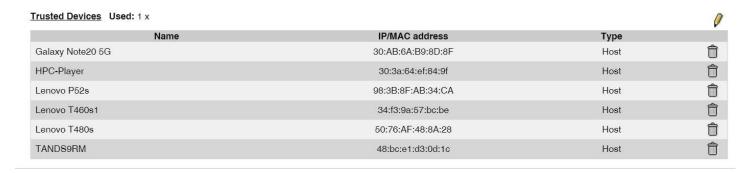


Specific Firewall rules

Firewall groups - Trusted devices

in order to grant some WIFI devices access to resources on the LAN connected network one must add the devices to a group:

Network/Host Groups



Then add that group to a firewall rule:

