Je configure la carte réseau pour toutes les machines

Je modifie le serveur dns

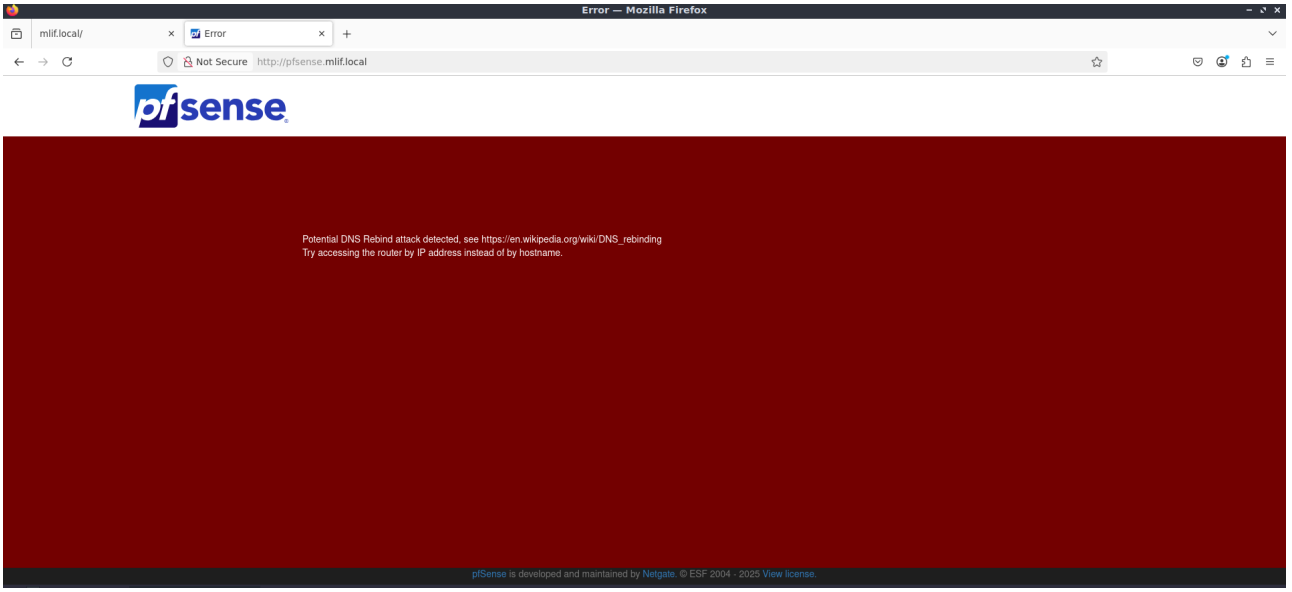
```
 GNU nano 7.2                                          /etc/bind/named.conf.options
options {
        directory "/var/cache/bind";

        // If there is a firewall between you and nameservers you want
        // to talk to, you may need to fix the firewall to allow multiple
        // ports to talk.  See http://www.kb.cert.org/vuls/id/800113

        // If your ISP provided one or more IP addresses for stable
        // nameservers, you probably want to use them as forwarders.
        // Uncomment the following block, and insert the addresses replacing
        // the all-0's placeholder.

        forwarders {
                172.16.10.20;
                172.16.20.21;
        };

        allow-query {192.168.0.0/16; 172.16.10.0/24; localnets;};
        //========================================================================
        // If BIND logs error messages about the root key being expired,
        // you will need to update your keys.  See https://www.isc.org/bind-keys
        //========================================================================
        dnssec-validation no;

        auth-nxdomain no;    # conform to RFC1035
        listen-on-v6 { any; };
};
```

Je vérifie qu'il n'y a pas d'erreur avec la commande systemctl bind9 status

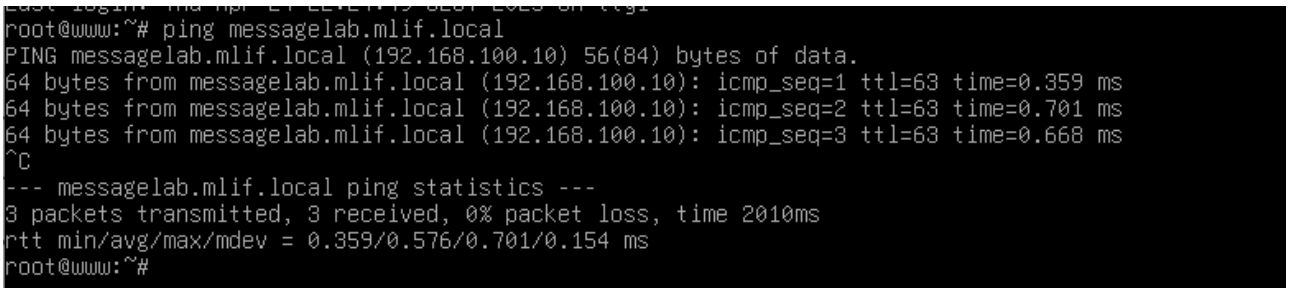
```
root@messagelab:~# systemctl restart bind9
root@messagelab:~# systemctl status bind9
● named.service - BIND Domain Name Server
     Loaded: loaded (/lib/systemd/system/named.service; enabled; preset: enabled)
     Active: active (running) since Fri 2025-09-12 16:39:11 CEST; 7s ago
       Docs: man:named(8)
   Main PID: 983 (named)
     Status: "running"
      Tasks: 4 (limit: 1097)
     Memory: 11.1M
        CPU: 23ms
     CGroup: /system.slice/named.service
             └─983 /usr/sbin/named -f -u bind

sept. 12 16:39:11 messagelab named[983]: zone 255.in-addr.arpa/IN: loaded serial 1
sept. 12 16:39:11 messagelab named[983]: zone 0.in-addr.arpa/IN: loaded serial 1
sept. 12 16:39:11 messagelab named[983]: zone 100.168.192.in-addr.arpa/IN: loaded serial 9
sept. 12 16:39:11 messagelab named[983]: zone localhost/IN: loaded serial 2
sept. 12 16:39:11 messagelab named[983]: zone 127.in-addr.arpa/IN: loaded serial 1
sept. 12 16:39:11 messagelab named[983]: zone 200.168.192.in-addr.arpa/IN: loaded serial 1
sept. 12 16:39:11 messagelab named[983]: zone mlif.local/IN: loaded serial 11
sept. 12 16:39:11 messagelab named[983]: all zones loaded
sept. 12 16:39:11 messagelab systemd[1]: Started named.service - BIND Domain Name Server.
sept. 12 16:39:11 messagelab named[983]: running
root@messagelab:~#
```

Je test un accès au serveur web

Je me rends sur PFSENSE (192.168.50.254)



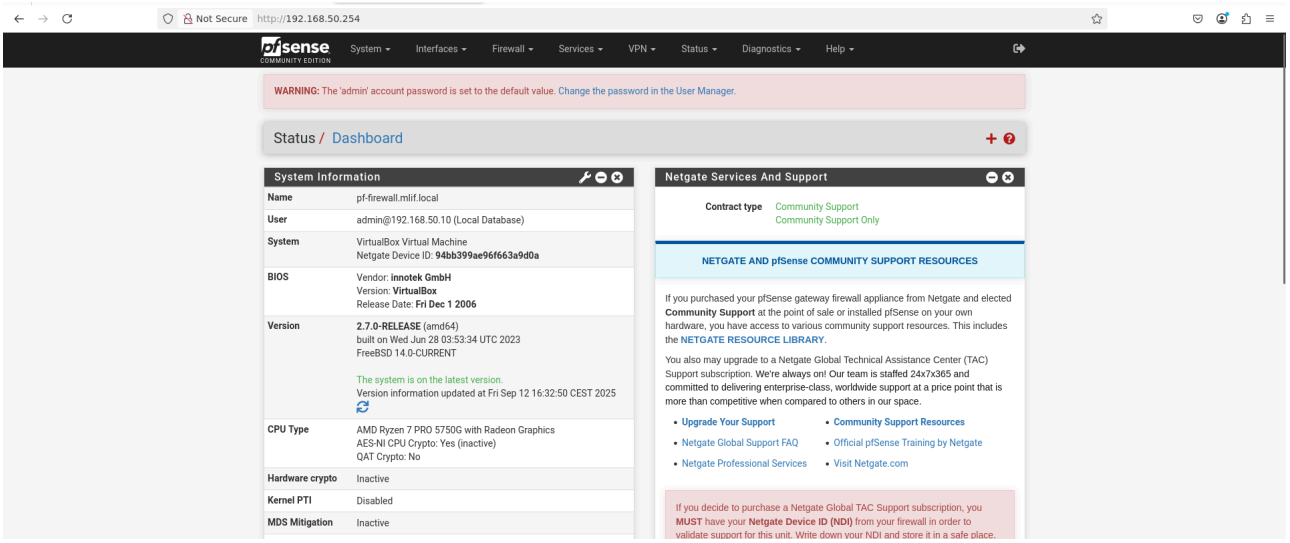
Les ping fonctionnent



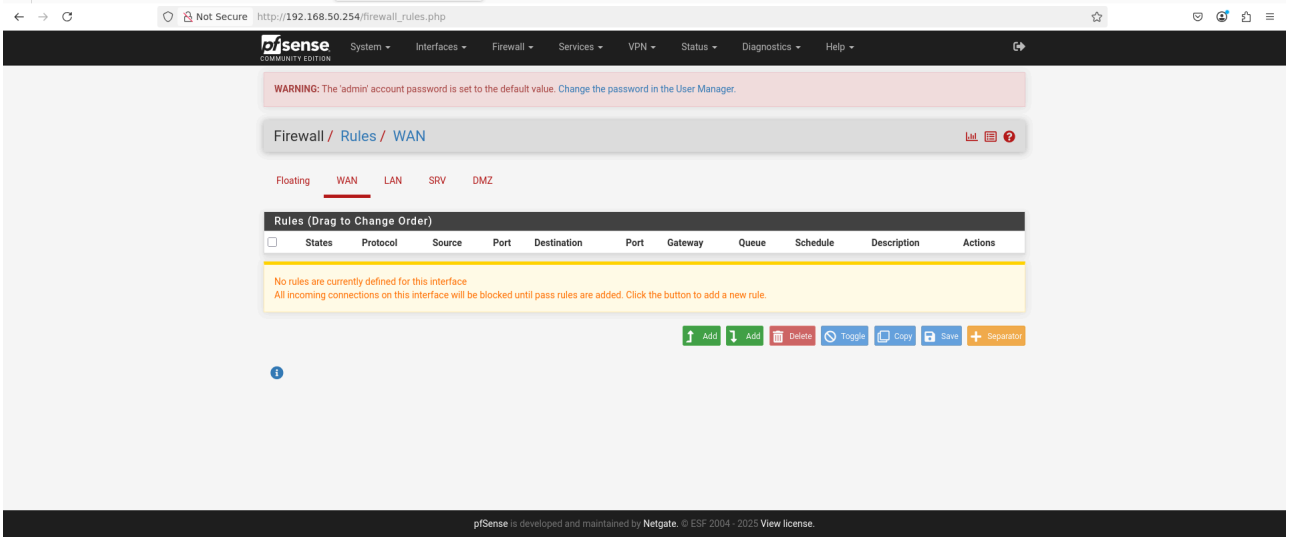
```
root@www:~# nslookup www.mlif.local
Server:         192.168.100.10
Address:        192.168.100.10#53

Name:   www.mlif.local
Address: 192.168.200.5
```

```
root@www:~# ping www.cisco.com
PING e2867.dsca.akamaiedge.net (2.20.10.35) 56(84) bytes of data.
64 bytes from a2-20-10-35.deploy.static.akamaitechnologies.com (2.20.10.35): icmp_seq=1 ttl=53 time=7.70 ms
64 bytes from a2-20-10-35.deploy.static.akamaitechnologies.com (2.20.10.35): icmp_seq=2 ttl=53 time=8.04 ms
64 bytes from a2-20-10-35.deploy.static.akamaitechnologies.com (2.20.10.35): icmp_seq=3 ttl=53 time=7.49 ms
^C
--- e2867.dsca.akamaiedge.net ping statistics ---
3 packets transmitted, 3 received, 0% packet loss, time 2003ms
rtt min/avg/max/mdev = 7.490/7.743/8.042/0.227 ms
root@www:~#
```

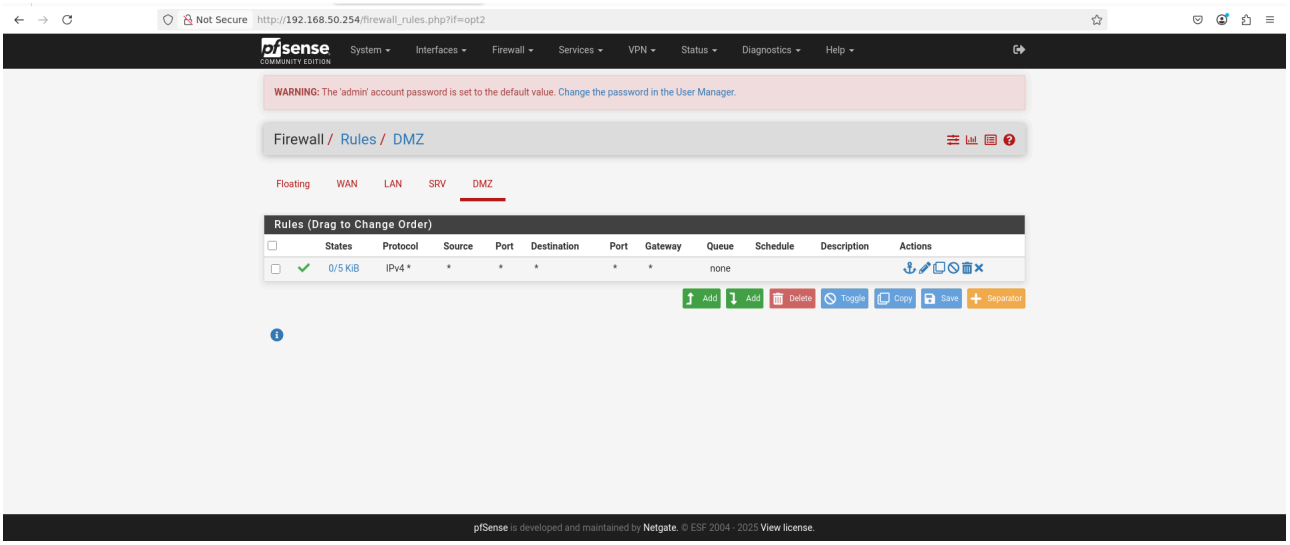
Je me connecte sur le pfsense



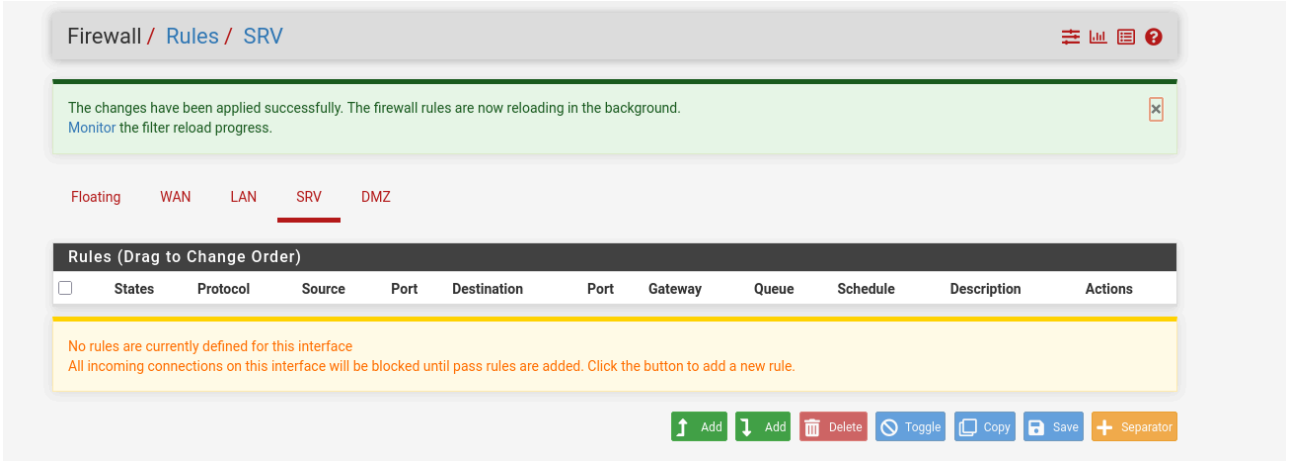
Je me rends sur l'onglet firewall puis Rules



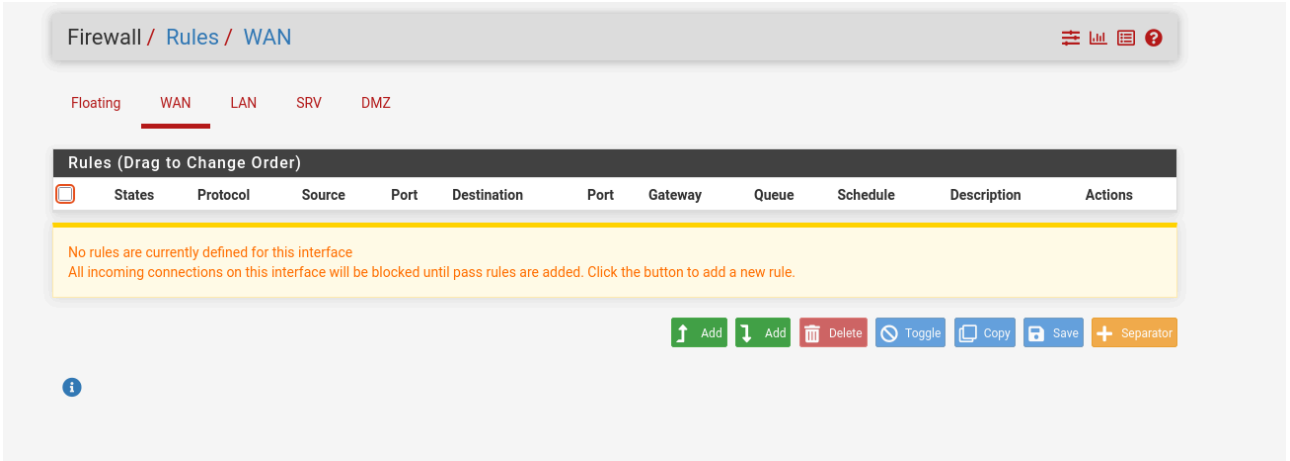
Je supprime les règle DMZ



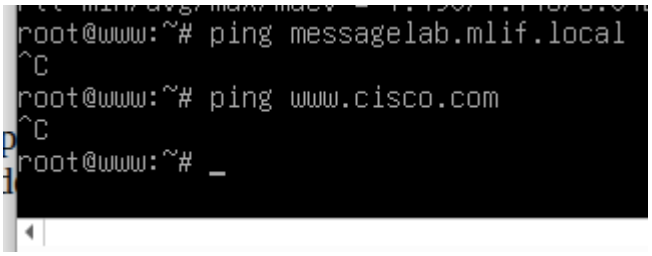
Je supprime les règles lié au serveur



Je supprime les règles Clients

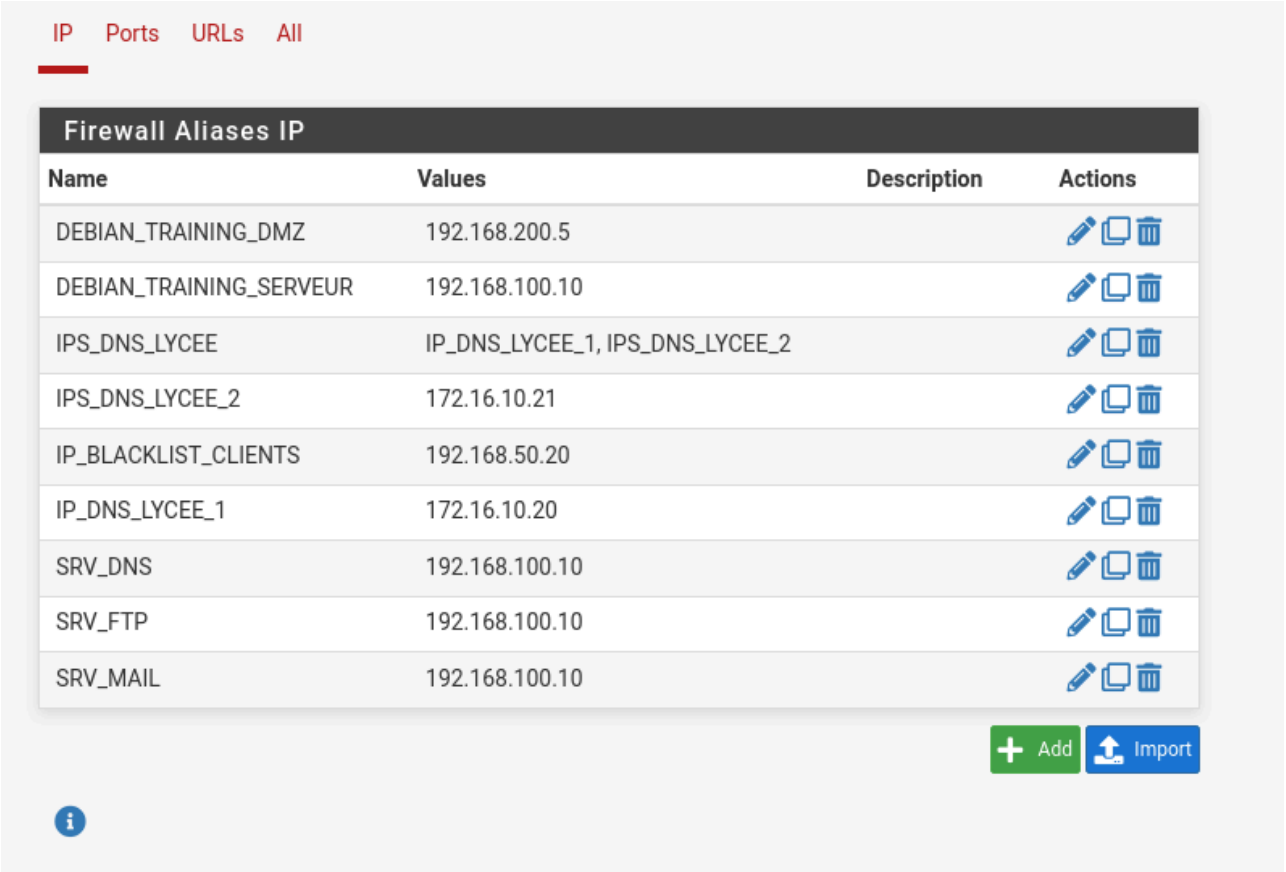


Suite a mes modifications , les pings ne fonctionnent plus

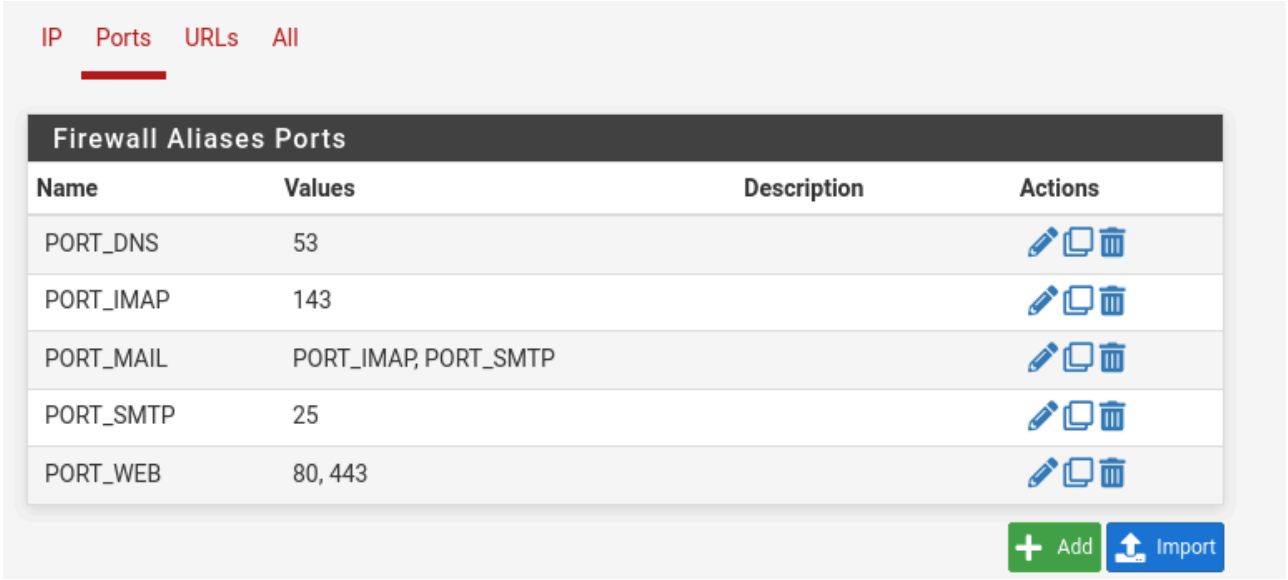


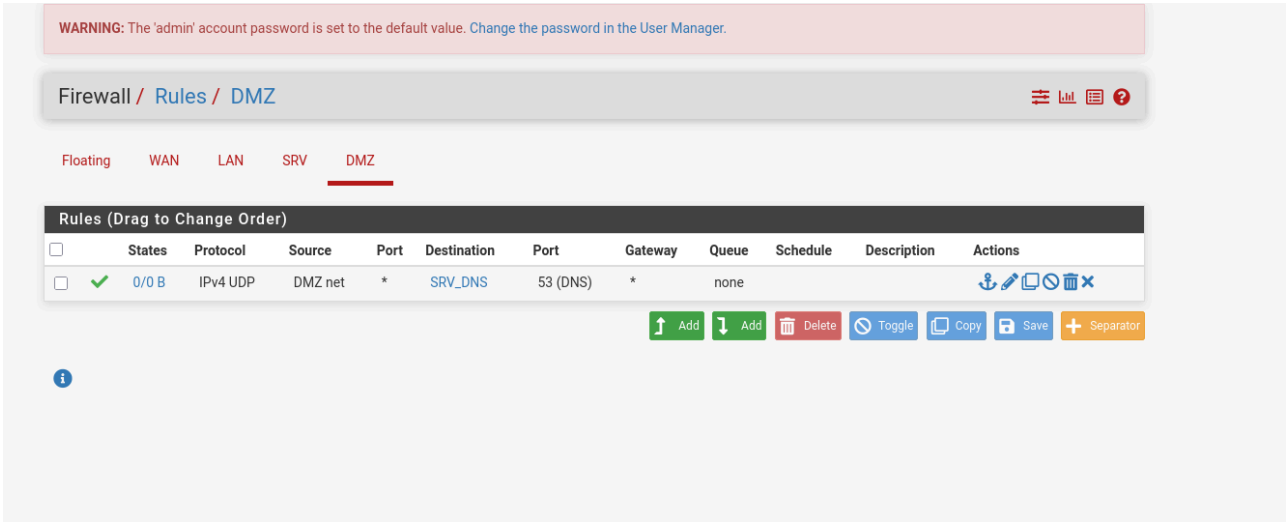
STOP1

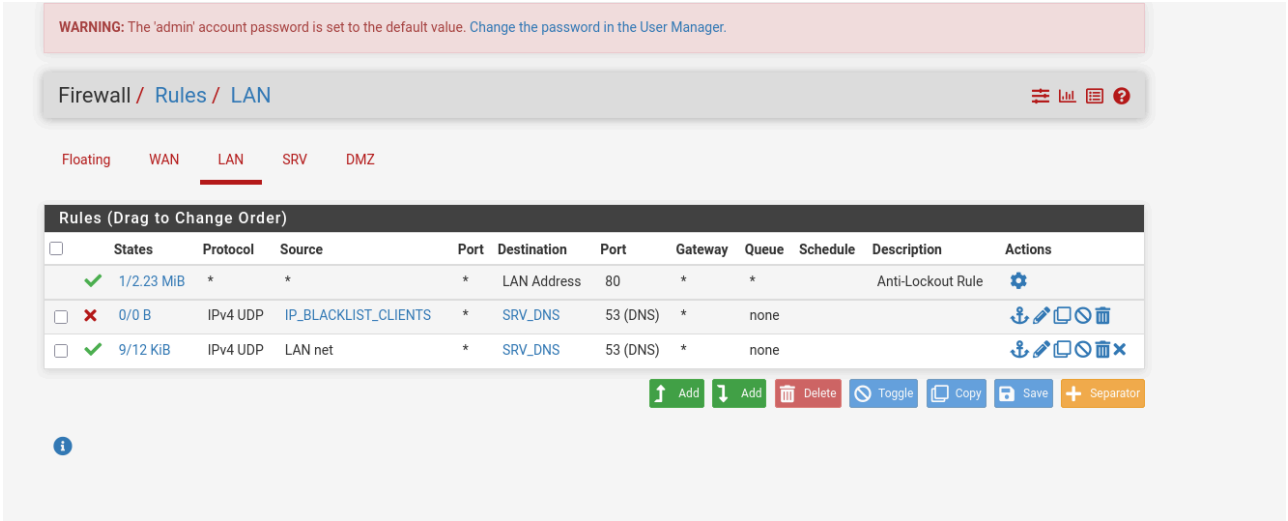
J’ai ajouté les aliases pour les adresses IP



J’ai ajouté les aliasses concernant les ports



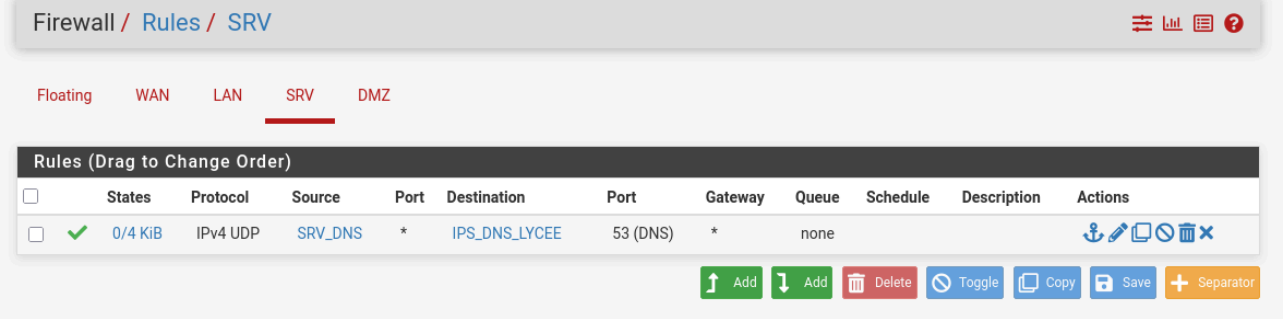




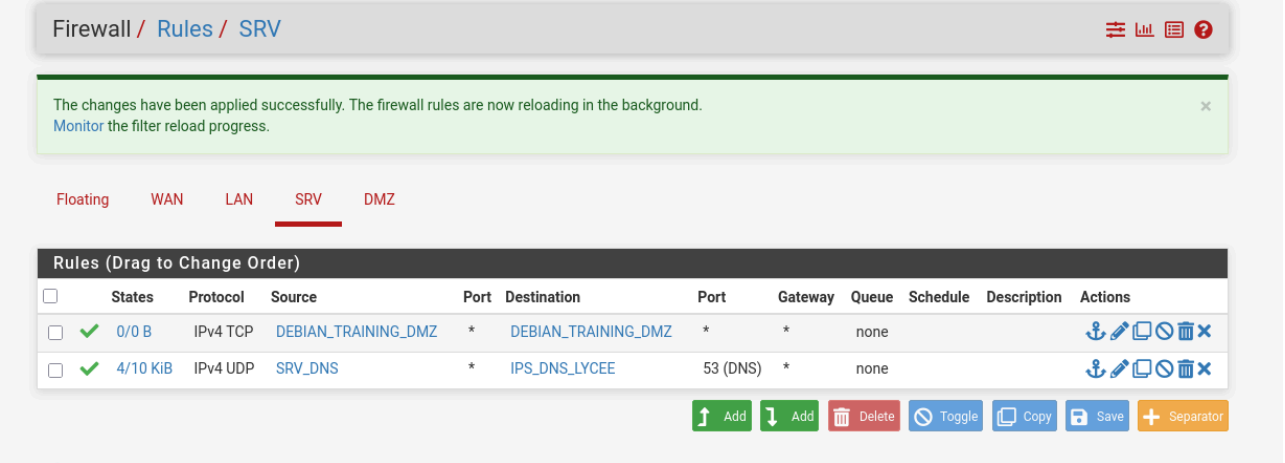
```
root@www:~# systemctl restart networking
root@www:~#
```

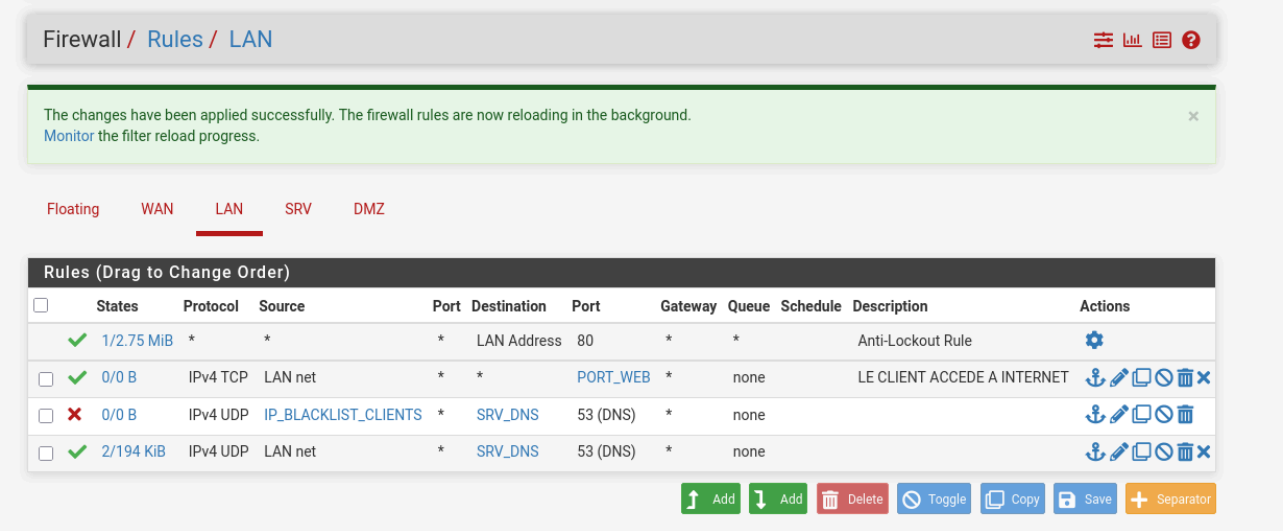
R1 VALIDÉ

R2 VALIDÉ



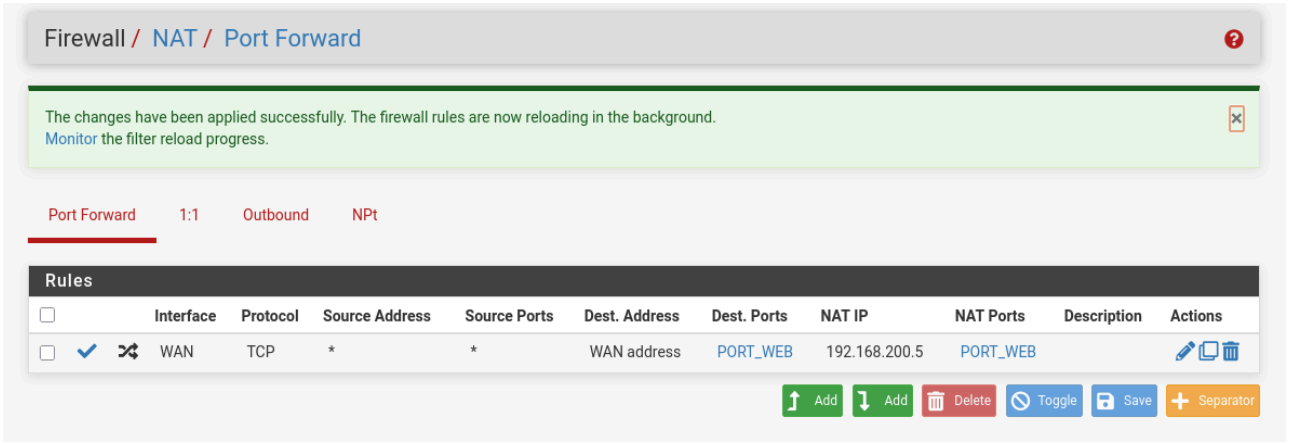
R3 VALIDÉ





R4

STOP 2


Firewall / NAT / Port Forward
The changes have been applied successfully. The firewall rules are now reloading in the background.
Monitor the filter reload progress.
Port Forward
1:1
Outbound
NPt
Rules
Interface
Protocol
Source Address
Source Ports
Dest. Address
Dest. Ports
NAT IP
NAT Ports
Description
Actions
WAN
TCP
*
*
WAN address
PORT_WEB
192.168.200.5
PORT_WEB
Add
Add
Delete
Toggle
Save
Separator