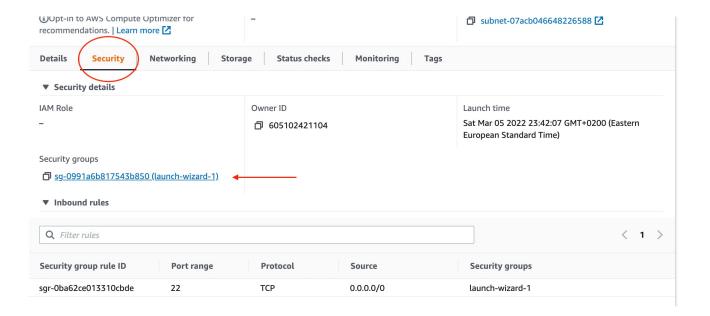
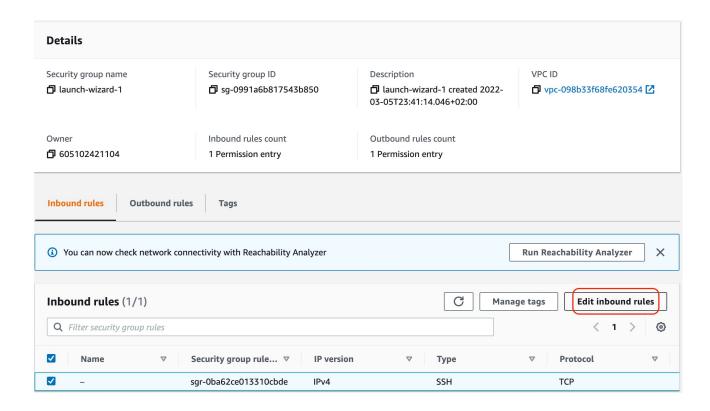
Modificam regulile de securitate astfel incat sa permitem trafic TCP/UDP pe portul 53.

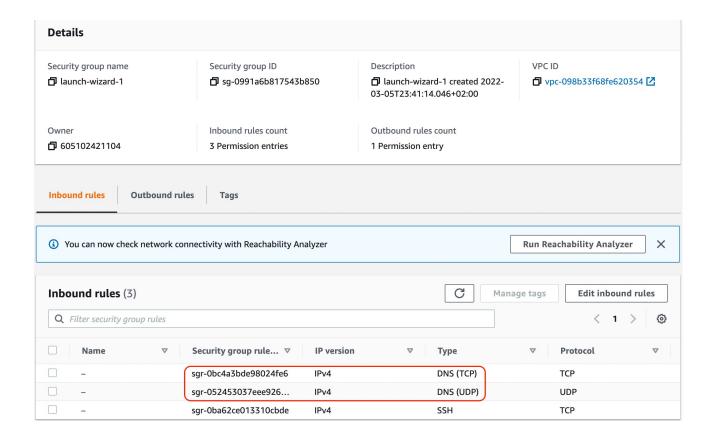
Dam click pe **Security groups** (vezi sageata)



Ne aflam in *Security groups* si editam *inbound rules* unde deja exista permis traficul SSH / TCP port 22.



Adaugam doua reguli prin care permitem traficul UDP/ port 53 si TCP / port 53 de la toate IP-urile: 0.0.0.0/0



Dupa ce ne conectam pe server via ssh, instalam bind9:

sudo su -

apt-get update

apt install -y bind9

```
    ne conectam pe server via ssh
ssh -i .ssh/ubmi23.pem ubuntu@54.210.155.177
    ne facem root
sudo su -
    instalam bind9
apt install -y bind9
```

Editam /etc/bind/named.conf si adaugam linia:

include "/etc/bind/named.conf.zones";

In acest fisier vom adauga toate domeniile/zonele pe care configuram pe server.

```
No modified files, so no updates needed.

root@ip-172-31-16-249:/etc/bind# cat named.conf

// This is the primary configuration file for the BIND DNS server named.

//

// Please read /usr/share/doc/bind9/README.Debian.gz for information on the

// structure of BIND configuration files in Debian, *BEFORE* you customize

// this configuration file.

//

// If you are just adding zones, please do that in /etc/bind/named.conf.local

include "/etc/bind/named.conf.options";
include "/etc/bind/named.conf.local";
include "/etc/bind/named.conf.default-zones";
include "/etc/bind/named.conf.zones";
```

```
Cream /etc/bind/named.conf.zones
si adaugam configul pentru zona ubmilab.ro:
zone "ubmilab.ro" {
    type master;
    file "/etc/bind/zones/ubmilab.ro.db";
};
```

Cream directorul "/etc/bind/zones/" unde vom pastra toate fisierele cu zonele pe care le definim.

mkdir /etc/bind/zones

Cream apoi fisierul de zona la care facem referire in slide-ul anterior:

/etc/bind/zones/ubmilab.ro.db

si adaugam in el informatiile necesare.

```
root@ip-172-31-16-249:/etc/bind# cat /etc/bind/zones/ubmilab.ro.db
$ORIGIN .
$TTL 86400
                ; 1 day
ubmilab.ro
                              IN SOA ns1.ubmilab.ro. info.ubmilab.ro. (
                                2022030601; serial
                                           ; refresh (2 hours)
                                7200
                                900
                                           ; retry (15 minutes)
                                1209600
                                           ; expire (2 weeks)
                                3600
                                           ; minimum (1 hour)
                                ns1.ubmilab.ro.
                        NS
$TTL 300
                ; 5 minutes
                                54.210.155.177
                        Α
                        TXT
                                "zona dns pentru teste"
$ORIGIN ubmilab.ro.
$TTL 300
ns1
                                54.210.155.177
```

Verificam ca nu avem erori:

named-checkzone ubmilab.ro
/etc/bind/zones/ubmilab.ro.db

Restartam bind9:

systemctl restart bind9

```
root@ip-172-31-16-249:/etc/bind# named-checkzone ubmilab.ro /etc/bind/zones/ubmilab.ro.db
zone ubmilab.ro/IN: loaded serial 2022030601
OK
root@ip-172-31-16-249:/etc/bind# systemctl restart bind9
root@ip-172-31-16-249:/etc/bind# systemctl status bind9
• named.service - BIND Domain Name Server
Loaded: loaded (/lib/systemd/system/named.service; enabled; vendor preset: enabled)
Active: active (running) since Sun 2022-03-06 19:42:01 UTC; 7s ago
Docs: man:named(8)
Main PID: 31583 (named)
Tasks: 5 (limit: 1147)
Memory: 21.2M
CGroup: /system.slice/named.service
L31583 /usr/sbin/named -f -u bind
```

De pe alta masina linux, interogam serverul DNS pe care tocmai l-am creat.

Cerem o inregistrare de tip NS (nameservers) pentru domeniul ubmilab.ro

host -t NS ubmilab.ro 54.210.155.177

si primim raspunsul:

ubmilab.ro name server ns1.ubmilab.ro.

Cerem apoi o inregistrare de tip A pentru ns1.ubmilab.ro ca sa aflam IP-ul nameserverului.

ns1.ubmilab.ro has address 54.210.155.177

liviu@ubmi~ \$ host -t NS ubmilab.ro 54.210.155.177
Using domain server:
Name: 54.210.155.177
Address: 54.210.155.177#53
Aliases:

ubmilab.ro name server ns1.ubmilab.ro.
liviu@ubmi~ \$ host -t A ns1.ubmilab.ro 54.210.155.177
Using domain server:
Name: 54.210.155.177
Address: 54.210.155.177#53
Aliases:

ns1.ubmilab.ro has address 54.210.155.177

Puteti inregistra un domeniu gratuit (.ga .cf .tk .ml) la <u>www.freenom.com</u> pentru a-l configura pe serverul DNS autoritativ pe care tocmai l-ati creat.

