

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

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

Opt-in to AWS Compute Optimizer for recommendations. | [Learn more](#)

subnet-07acb046648226588

Details **Security** Networking Storage Status checks Monitoring Tags

▼ Security details

IAM Role	Owner ID	Launch time
-	605102421104	Sat Mar 05 2022 23:42:07 GMT+0200 (Eastern European Standard Time)

Security groups

[sg-0991a6b817543b850 \(launch-wizard-1\)](#)

▼ Inbound rules

Filter rules

Security group rule ID	Port range	Protocol	Source	Security groups
sgr-0ba62ce013310cbde	22	TCP	0.0.0.0/0	launch-wizard-1

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

Details

Security group name launch-wizard-1	Security group ID sg-0991a6b817543b850	Description launch-wizard-1 created 2022-03-05T23:41:14.046+02:00	VPC ID vpc-098b33f68fe620354
Owner 605102421104	Inbound rules count 1 Permission entry	Outbound rules count 1 Permission entry	

Inbound rules | Outbound rules | Tags

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Inbound rules (1/1)

Manage tags

Edit inbound rules

Filter security group rules

<

1

>

<input checked="" type="checkbox"/>	Name	Security group rule...	IP version	Type	Protocol
<input checked="" type="checkbox"/>	-	sgr-0ba62ce013310cbde	IPv4	SSH	TCP

Configurare DNS autoritativ: liviu.pislaru@gmail.com

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

Details

Security group name

launch-wizard-1

Security group ID

sg-0991a6b817543b850

Description

launch-wizard-1 created 2022-03-05T23:41:14.046+02:00

VPC ID

vpc-098b33f68fe620354

Owner

605102421104

Inbound rules count

3 Permission entries

Outbound rules count

1 Permission entry

Inbound rules

Outbound rules

Tags

You can now check network connectivity with Reachability Analyzer

Run Reachability Analyzer

Inbound rules (3)

Manage tags

Edit inbound rules

Filter security group rules

< 1 >

	Name	Security group rule...	IP version	Type	Protocol
	-	sg-0bc4a3bde98024fe6	IPv4	DNS (TCP)	TCP
	-	sg-052453037eee926...	IPv4	DNS (UDP)	UDP
	-	sg-0ba62ce013310cbde	IPv4	SSH	TCP

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

`sudo su -`

`apt-get update`

`apt install -y bind9`

```
1. ne conectam pe server via ssh  
ssh -i .ssh/ubmi23.pem ubuntu@54.210.155.177
```

```
2. ne facem root  
sudo su -
```

```
3. 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/zonetele 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";
```

Creare /etc/bind/named.conf.zones

si adaugam configul pentru zona **ubmilab.ro**:

```
zone "ubmilab.ro" {  
    type master;  
    file "/etc/bind/zones/ubmilab.ro.db";  
};
```

```
root@ip-172-31-16-249:/etc/bind# cat named.conf.zones  
zone "ubmilab.ro" {  
    type master;  
    file "/etc/bind/zones/ubmilab.ro.db";  
};  
root@ip-172-31-16-249:/etc/bind#
```

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
                        7200       ; refresh (2 hours)
                        900        ; retry (15 minutes)
                        1209600    ; expire (2 weeks)
                        3600       ; minimum (1 hour)
                        )
                        NS         ns1.ubmilab.ro.
$TTL 300             ; 5 minutes
                        A          54.210.155.177
                        TXT        "zona dns pentru teste"
$ORIGIN ubmilab.ro.
$TTL 300
ns1                   A          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
            └─31583 /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

```
liviubmi~ $ 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.
liviubmi~ $ 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 www.freenom.com pentru a-l configura pe serverul DNS autoritativ pe care tocmai l-ati creat.

Check Availability

Yes **ubmi-andrei.ga** is available!

2 domains in cart

Checkout

ubmi-andrei .ga	<div>• FREE</div>	EUR 0. ⁰⁰	<div>✓ Selected</div>
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Get one of these domains. They are free!

ubmi-andrei .tk	<div>• FREE</div>	EUR 0. ⁰⁰	<div>Select</div>
ubmi-andrei .ml	<div>• FREE</div>	EUR 0. ⁰⁰	<div>Select</div>
ubmi-andrei .cf	<div>• FREE</div>	EUR 0. ⁰⁰	<div>Select</div>