Carla Cuéllar Franco

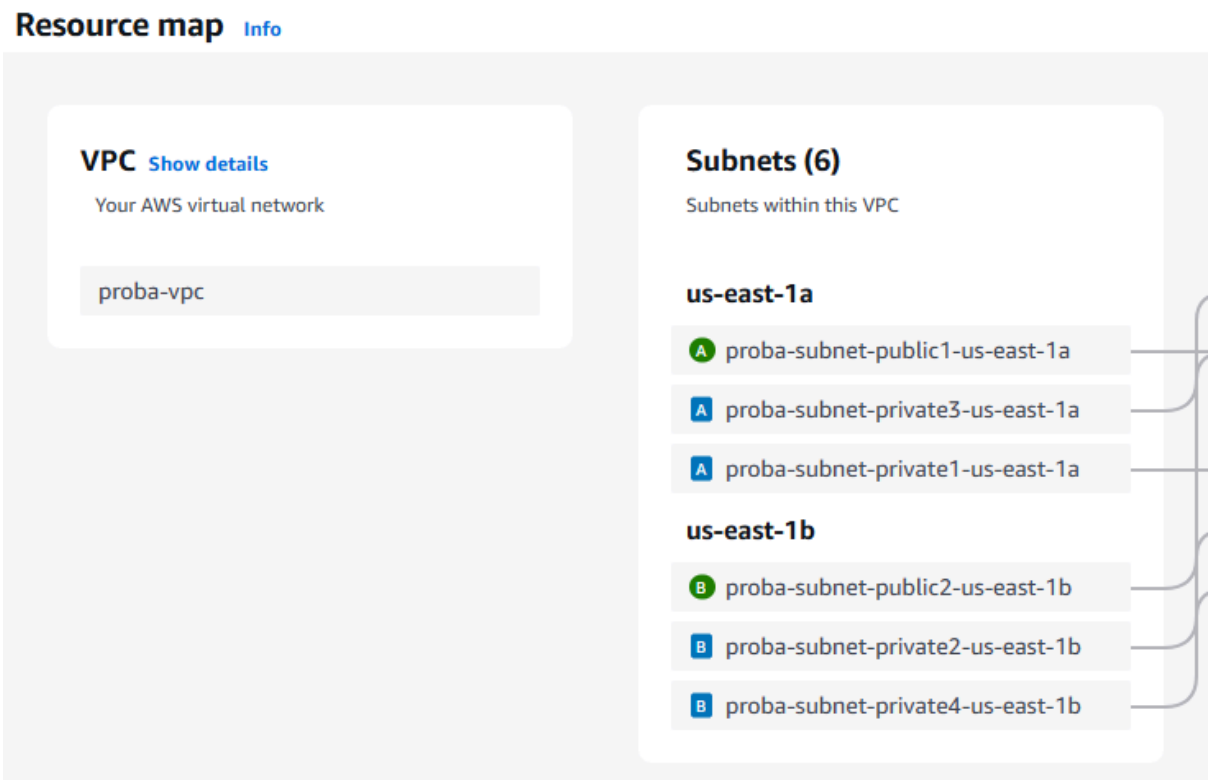
Wordpress a 2 ec2 con efs con 1 ec2 como lb y ec2 por mysql

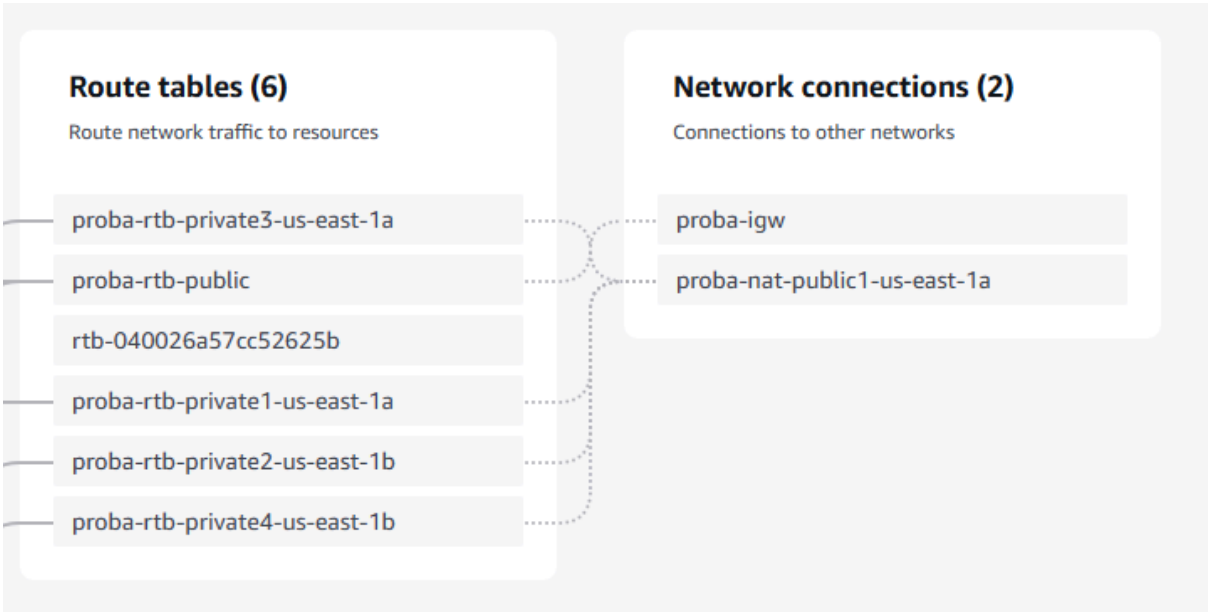
Infraestructura

- vpc: 1
- az: 2
- subnets: 2 pub + 4 priv (2 frontal i 2 backend)
- ec2: 1 pub (haproxy) + 2 priv (http) + 1 priv (mysql)
- efs: 1
- igw: 1
- ngw: 1
- sg:
    - 1 > haproxy - 80 i 22 des de 0.0.0.0/0
    - 2 > frontals - 80 i 22 des de haproxy
    - 3 > efs - 2049 des de frontals
    - 4 > backend - 22 des de haproxy i 3306 des de frontals

Resumen procedimiento:

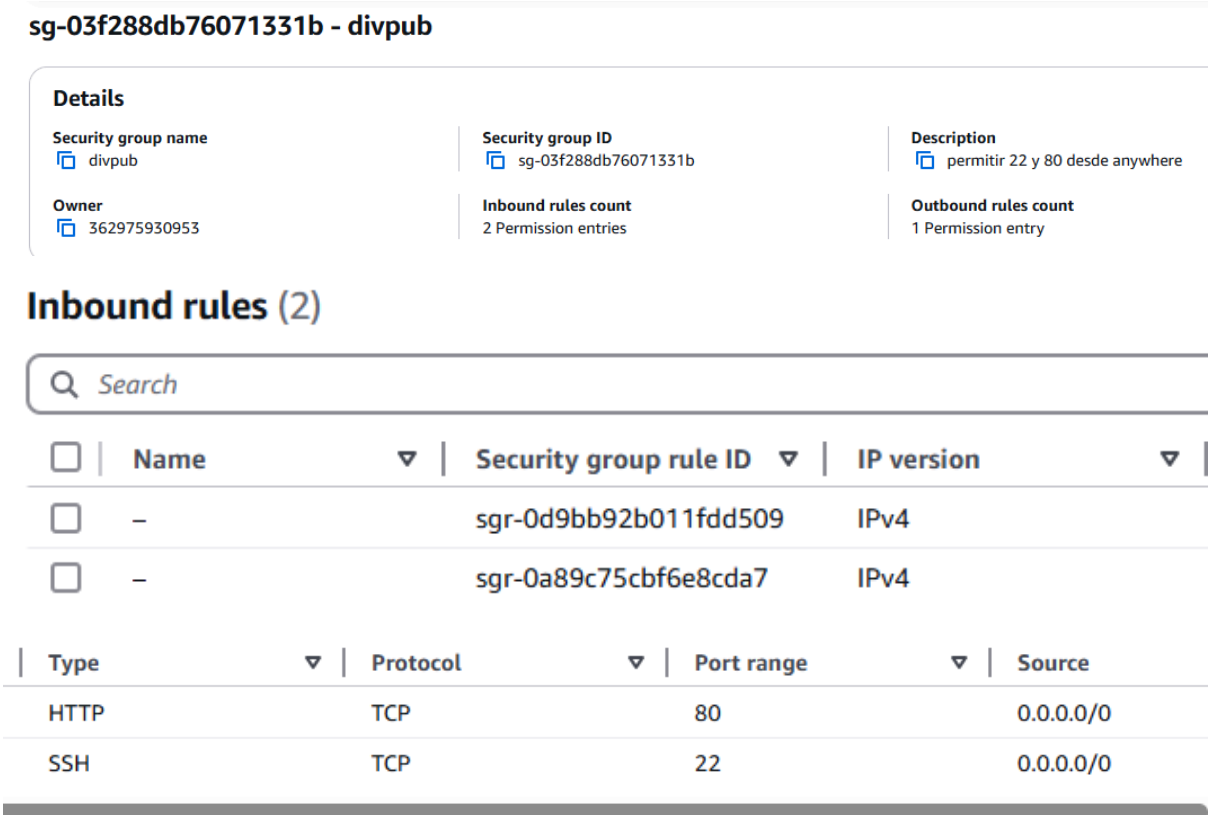
VPC





1 sg haproxy

Permitir 80 y 22 desde 0.0.0.0/0



2 sg frontals

Permitir 80 y 22 desde haproxy

sg-05900fb5e5a6ee215 - divfrontal

Details

Security group name divfrontal	**Security group ID** sg-05900fb5e5a6ee215	**Description** permitir 22 y 80 desde divpub
Owner 362975930953	**Inbound rules count** 2 Permission entries	**Outbound rules count** 1 Permission entry

Inbound rules (2)

Search

Name	Security group rule ID	IP version
–	sgr-0d39a91c2c0c9443b	–
–	sgr-0269fe169cecf9427	–

Type	Protocol	Port range	Source	De
HTTP	TCP	80	sg-03f288db76071331...	–
SSH	TCP	22	sg-03f288db76071331...	–

3 sg efs

Permitir 2049 desde frontals

sg-0537641099d91db61 - divefs

Details

Security group name divefs	**Security group ID** sg-0537641099d91db61	**Description** permitir NFS
Owner 362975930953	**Inbound rules count** 1 Permission entry	**Outbound rules count** 1 Permission entry

Inbound rules (1)

Search

Name	Security group rule ID	IP version
–	sgr-0c3253c555fc92cef	–

Type	Protocol	Port range	Source	Descriptio
NFS	TCP	2049	sg-05900fb5e5a6ee215...	–

4 sg backend

Permitir 22 desde haproxy y 3306 desde frontals

sg-0c87bca0cf10c1b0a - divback

Details

Security group name	Security group ID	Description
divback	sg-0c87bca0cf10c1b0a	permitir 22 desde hapoxy y 3306 desde frontal

Owner	Inbound rules count	Outbound rules count
362975930953	2 Permission entries	1 Permission entry

Inbound rules (2)

Search

Name	Security group rule ID	IP version
–	sgr-07604bdb0f048fc9c	–
–	sgr-057220218bbce1ab1	–

Type	Protocol	Port range	Source
MYSQL/Aurora	TCP	3306	sg-05900fb5e5a6ee215...
SSH	TCP	22	sg-03f288db76071331...

EFS

Subnets (12) Info

Find resources by attribute or tag

Name	Subnet ID
proba-subnet-public2-us-east-1b	subnet-07b250989117ac687
proba-subnet-public1-us-east-1a	subnet-0cd13b6594d360aff
proba-subnet-private4-us-east-1b	subnet-073c465e76a3bcc41
proba-subnet-private3-us-east-1a	subnet-08d83596b80210d85
proba-subnet-private2-us-east-1b	subnet-0d5a01a6cdfe1c331
proba-subnet-private1-us-east-1a	subnet-06d8a89c1b2ab1917

Private 1 y Private 2

Network access

Network

Virtual Private Cloud (VPC) | Learn more

Choose the VPC where you want EC2 instances to connect to your file system.

vpc-09d1ba347d3a6997e
proba-vpc

Mount targets

A mount target provides an NFSv4 endpoint at which you can mount an Amazon EFS file syste

Availability zone	Subnet ID
us-east-1a	subnet-06d8a89c1b2ab1917
us-east-1b	subnet-0d5a01a6cdfe1c331

tem. We recommend creating one mount target per Availability Zone. Learn more

IP address	Security groups	
Automatic	*Choose security groups*	Remove
	sg-0537641099d91db61 ✕ divefs	
Automatic	*Choose security groups*	Remove
	sg-0537641099d91db61 ✕ divefs	

1 EC2 pub (haproxy)

Instance summary for i-0a5382f1176911758 (divpub) Info

Updated less than a minute ago

Instance ID
i-0a5382f1176911758

IPv6 address
–

Hostname type
IP name: ip-10-52-15-178.ec2.internal

Answer private resource DNS name
–

Auto-assigned IP address
52.90.253.61 [Public IP]

IAM Role
–

IMDSv2
Required

Public IPv4 address
52.90.253.61 | open address

Instance state
Running

Private IP DNS name (IPv4 only)
ip-10-52-15-178.ec2.internal

Instance type
t2.micro

VPC ID
vpc-09d1ba347d3a6997e (proba-vpc)

Subnet ID
subnet-0cd13b6594d360aff (proba-subnet-public1-us-east-1a)

Instance ARN
arn:aws:ec2:us-east-1:362975930953:instance/i-0a5382f1176911758

Private IPv4 addresses
10.52.15.178

Public IPv4 DNS
ec2-52-90-253-61.compute-1.amazonaws.com | open address

Elastic IP addresses
–

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name
–

Managed
false

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

▼ **Security details**

IAM Role
–

Security groups
sg-03f288db76071331b (divpub)

Owner ID
362975930953

2 EC2 priv (http)

Instance summary for i-07e18f4cffd92d9fa (divfrontal)

Updated less than a minute ago

Instance ID
i-07e18f4cffd92d9fa

IPv6 address
–

Hostname type
IP name: ip-10-52-137-146.ec2.internal

Answer private resource DNS name
–

Auto-assigned IP address
–

IAM Role
–

IMDSv2
Required

Operator
–

Public IPv4 address
–

Instance state
Running

Private IP DNS name (IPv4 only)
ip-10-52-137-146.ec2.internal

Instance type
t2.micro

VPC ID
vpc-09d1ba347d3a6997e (proba-vpc)

Subnet ID
subnet-06d8a89c1b2ab1917 (proba-subnet-private1-us-east-1a)

Instance ARN
arn:aws:ec2:us-east-1:362975930953:instance/i-07e18f4cffd92d9fa

Private IPv4 addresses
10.52.137.146

Public IPv4 DNS
–

Elastic IP addresses
–

AWS Compute Optimizer finding
Opt-in to AWS Compute Optimizer for recommendations. | Learn more

Auto Scaling Group name
–

Managed
false

Details | Status and alarms | Monitoring | Security | Networking | Storage | Tags

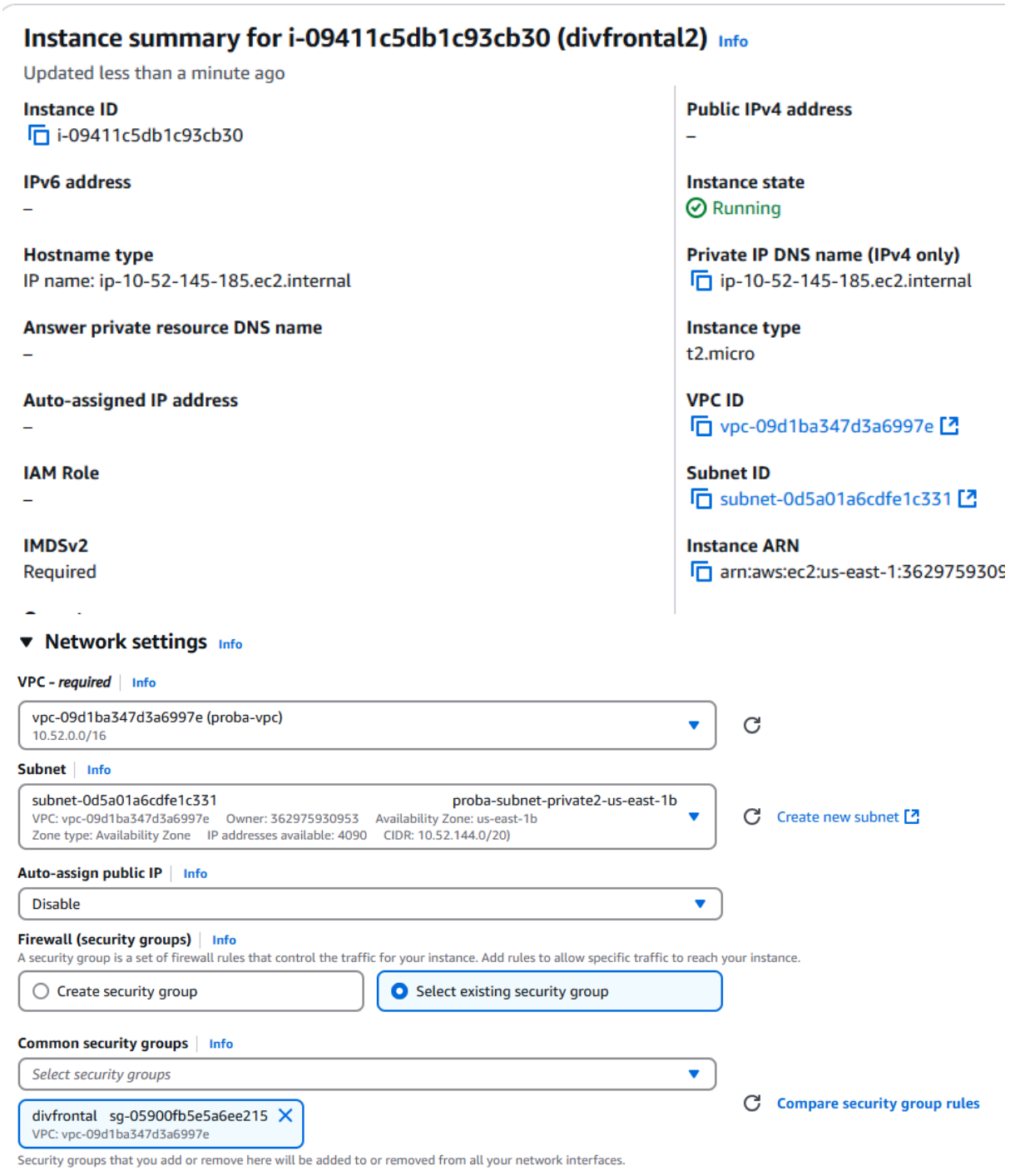
▼ Security details

IAM Role
–

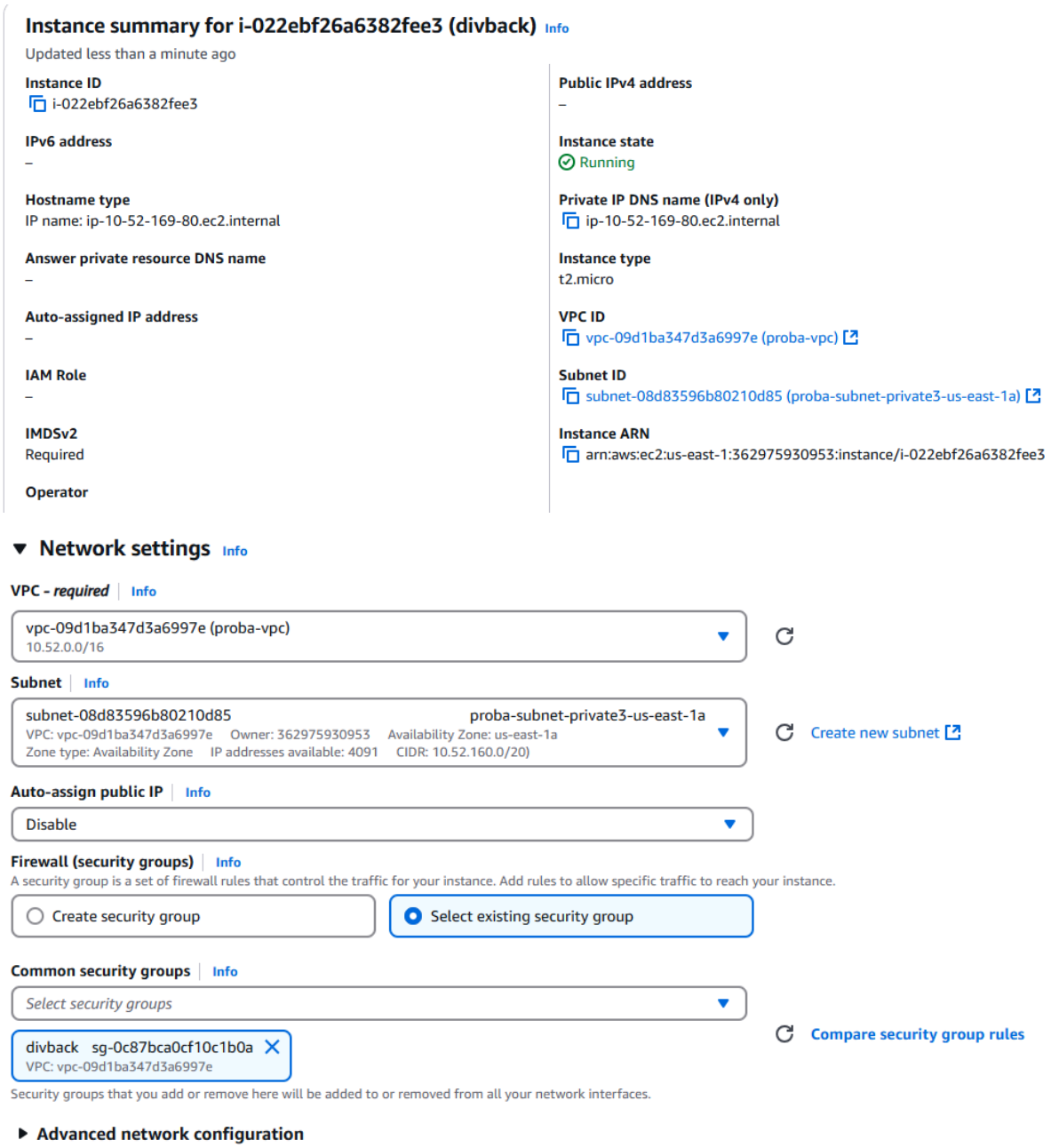
Security groups
sg-05900fb5e5a6ee215 (divfrontal)

Owner ID
362975930953

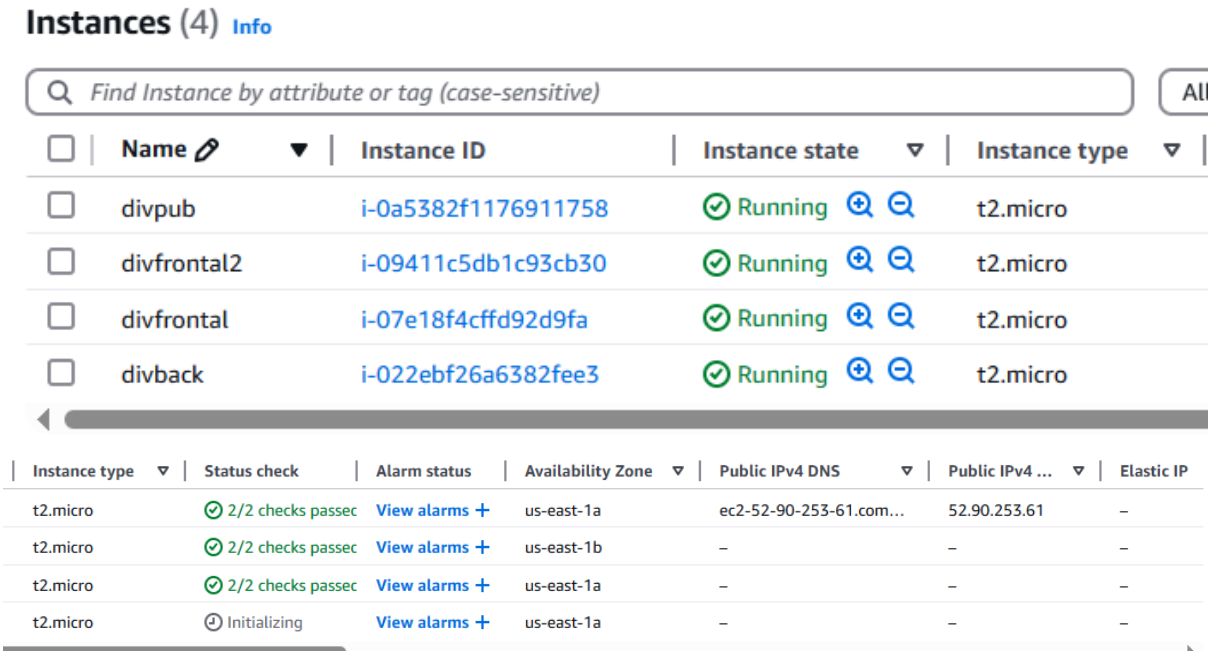
3 EC2 priv2 (http)



4 EC2 priv (mysql)



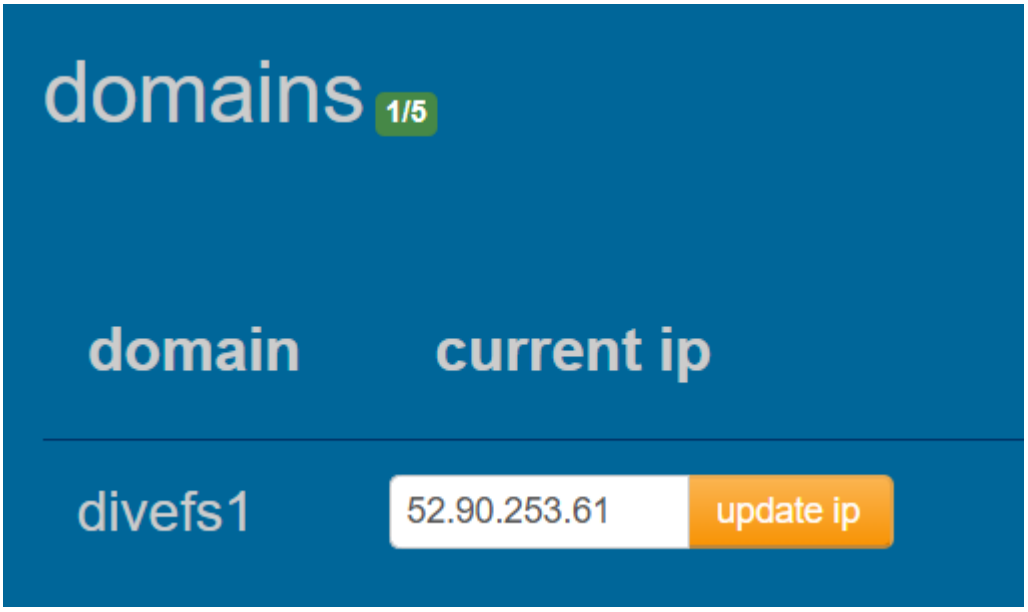
En total de ec2:



Apuntar IPs

52.90.253.61 - 10.52.15.178
10.52.137.146
10.52.145.185
10.52.169.80

Duckdns.org



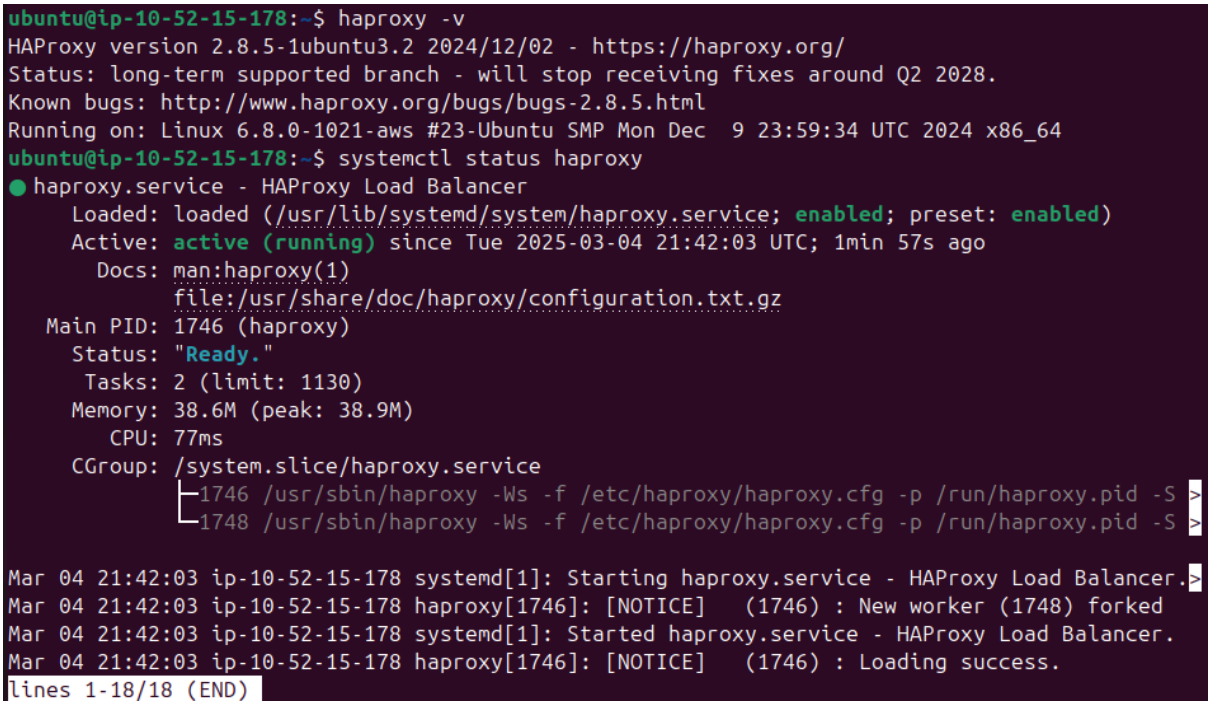
HackMD

ec2 pub haproxy Iniciamos sesión

Seguimos la guía del hackmd y modificamos con nuestros datos.

```
frontend www
# la privada de la ec2 publica!!!!
    bind 10.52.15.178:80
    default_backend servfinals
backend servfinals
    balance roundrobin
    default-server check
# posem aquí les ips privades de les ec2 dels frontals
    server serv1 10.52.137.146:80
    server serv2 10.52.145.185:80
EOF
```

Vertificamos



Desde la ec2 pub iniciamos sesión en la **ec2 privada - mysql**

ec2 privada - mysql setup
back-end setup (des de la pròpia ec2 privada)

ls crea-wordpress-db.sql
sudo grep 'bind-address' /etc/mysql/mysql.conf.d/mysqld.cnf
sudo systemctl status mysql.service

Verificación:

```
ubuntu@ip-10-52-169-80:~$ ls crea-wordpress-db.sql
ls: cannot access 'crea-wordpress-db.sql': No such file or directory
ubuntu@ip-10-52-169-80:~$ sudo grep 'bind-address' /etc/mysql/mysql.conf.d/mysqld.cnf
bind-address            = 0.0.0.0
mysqlx-bind-address     = 0.0.0.0
ubuntu@ip-10-52-169-80:~$ sudo systemctl status mysql.service
● mysql.service - MySQL Community Server
     Loaded: loaded (/usr/lib/systemd/system/mysql.service; enabled; preset: enabled)
     Active: active (running) since Tue 2025-03-04 21:50:13 UTC; 1min 18s ago
    Process: 2413 ExecStartPre=/usr/share/mysql/mysql-systemd-start pre (code=exited, status=>
   Main PID: 2422 (mysqld)
     Status: "Server is operational"
      Tasks: 37 (limit: 1130)
     Memory: 362.7M (peak: 379.2M)
        CPU: 997ms
     CGroup: /system.slice/mysql.service
             └─2422 /usr/sbin/mysqld

Mar 04 21:50:12 ip-10-52-169-80 systemd[1]: Starting mysql.service - MySQL Community Server...
Mar 04 21:50:13 ip-10-52-169-80 systemd[1]: Started mysql.service - MySQL Community Server.
```

```
ubuntu@ip-10-52-169-80:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 9
Server version: 8.0.41-0ubuntu0.24.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| performance_schema |
| sys                |
| wordpressdb01      |
+--------------------+
5 rows in set (0.01 sec)
```

ec2 pub iniciamos sesión en las frontales (http)

front-end setup (en cada una de les 2 ec2 frontals-http)

Verificación parte 2:

dpkg -l | grep nfs-common

```
ubuntu@ip-10-52-137-146:~$ dpkg -l | grep nfs-common
ii  nfs-common                 1:2.6.4-3ubuntu5.1                  amd64        NFS support files common to c
lient and server
ubuntu@ip-10-52-137-146:~$
```

Verificación parte 3:

ls -ld /srv/www
mount | grep /srv/www
ls -ld /srv/www/wordpress
grep $unitat_compartida /etc/fstab
cat /srv/www/wordpress/ip-interna.php
ls -ld /srv/www
ls -ld /srv/www/wordpress

```
ubuntu@ip-10-52-137-146:~$ ls -ld /srv/www
drwxr-xr-x 3 www-data www-data 6144 Mar  4 22:05 /srv/www
ubuntu@ip-10-52-137-146:~$ mount | grep /srv/www
fs-0a0215a8442ca5485.efs.us-east-1.amazonaws.com:/ on /srv/www type nfs4 (rw,relatime,vers=4.1,rsize=1048576,wsize=104
8576,namlen=255,hard,noresvport,proto=tcp,timeo=600,retrans=2,sec=sys,clientaddr=10.52.137.146,local_lock=none,addr=10
.52.128.36)
ubuntu@ip-10-52-137-146:~$ ls -ld /srv/www/wordpress
drwxr-xr-x 5 www-data www-data 6144 Mar  4 22:06 /srv/www/wordpress
ubuntu@ip-10-52-137-146:~$ grep $unitat_compartida /etc/fstab
fs-0a0215a8442ca5485.efs.us-east-1.amazonaws.com:/ /srv/www nfs4 nfsvers=4.1,rsize=1048576,wsize=1048576,hard,timeo=60
0,retrans=2,noresvport,_netdev 0 0
ubuntu@ip-10-52-137-146:~$ cat /srv/www/wordpress/ip-interna.php
ip interna: <?php echo shell_exec("hostname -I"); ?>
ubuntu@ip-10-52-137-146:~$ ls -ld /srv/www
ls -ld /srv/www/wordpress
drwxr-xr-x 3 www-data www-data 6144 Mar  4 22:05 /srv/www
drwxr-xr-x 5 www-data www-data 6144 Mar  4 22:06 /srv/www/wordpress
ubuntu@ip-10-52-137-146:~$
```

creació web (virtual host a apache) done.
activació mòduls apache done.

creació del fitxer de configuració de wordpress (el 1er cop) done con..
Verificación 6:
ls /srv/www/wordpress/wp-config.php
diff /srv/www/wordpress/wp-config-sample.php /srv/www/wordpress/wp-config.php

```
ubuntu@ip-10-52-137-146:~$ creat_en_aquest=false
if [ ! -f /srv/www/wordpress/wp-config.php ]; then sudo -u www-data cp /srv/www/wordpress/wp-config-sample.php /srv/ww
w/wordpress/wp-config.php; creat_en_aquest=true; fi
ubuntu@ip-10-52-137-146:~$ ls /srv/www/wordpress/wp-config.php
/srv/www/wordpress/wp-config.php
ubuntu@ip-10-52-137-146:~$ diff /srv/www/wordpress/wp-config-sample.php /srv/www/wordpress/wp-config.php
ubuntu@ip-10-52-137-146:~$ S
```

Verificación parte 7
cat /srv/www/wordpress/wp-config.php

```
// ** Database settings - You can get this info from your web host ** //
/** The name of the database for WordPress */
define( 'DB_NAME', 'wordpressdb01' );

/** Database username */
define( 'DB_USER', 'asix01' );

/** Database password */
define( 'DB_PASSWORD', 'Sup3rins3gura!' );

/** Database hostname */
define( 'DB_HOST', '10.52.169.80' );

/** Database charset to use in creating database tables. */
define( 'DB_CHARSET', 'utf8' );

/** The database collate type. Don't change this if in doubt. */
define( 'DB_COLLATE', '' );

/**#@+
```

ec2 pub iniciamos sesión en las frontales (http) 2

```
ubuntu@ip-10-52-145-185:~$ ls -l /srv/www
total 4
drwxr-xr-x 5 www-data www-data 6144 Mar  4 22:22 wordpress
ubuntu@ip-10-52-145-185:~$
```

```
ubuntu@ip-10-52-145-185:~$ ls -l /srv/www/wordpress/wp-config.php
-rw-r--r-- 1 www-data www-data 3359 Mar  4 22:22 /srv/www/wordpress/wp-config.php
ubuntu@ip-10-52-145-185:~$
```

```
ubuntu@ip-10-52-145-185:~$ cat -n /srv/www/wordpress/wp-config.php
     1  <?php
     2  /**
     3   * The base configuration for WordPress
     4   *
     5   * The wp-config.php creation script uses this file during the installation.
     6   * You don't have to use the website, you can copy this file to "wp-config.php"
     7   * and fill in the values.
     8   *
     9   * This file contains the following configurations:
    10   *
    11   * * Database settings
    12   * * Secret keys
    13   * * Database table prefix
    14   * * ABSPATH
    15   *
    16   * @link https://developer.wordpress.org/advanced-administration/wordpress/wp-config/
    17   *
    18   * @package WordPress
    19   */
    20
    21  // ** Database settings - You can get this info from your web host ** //
```

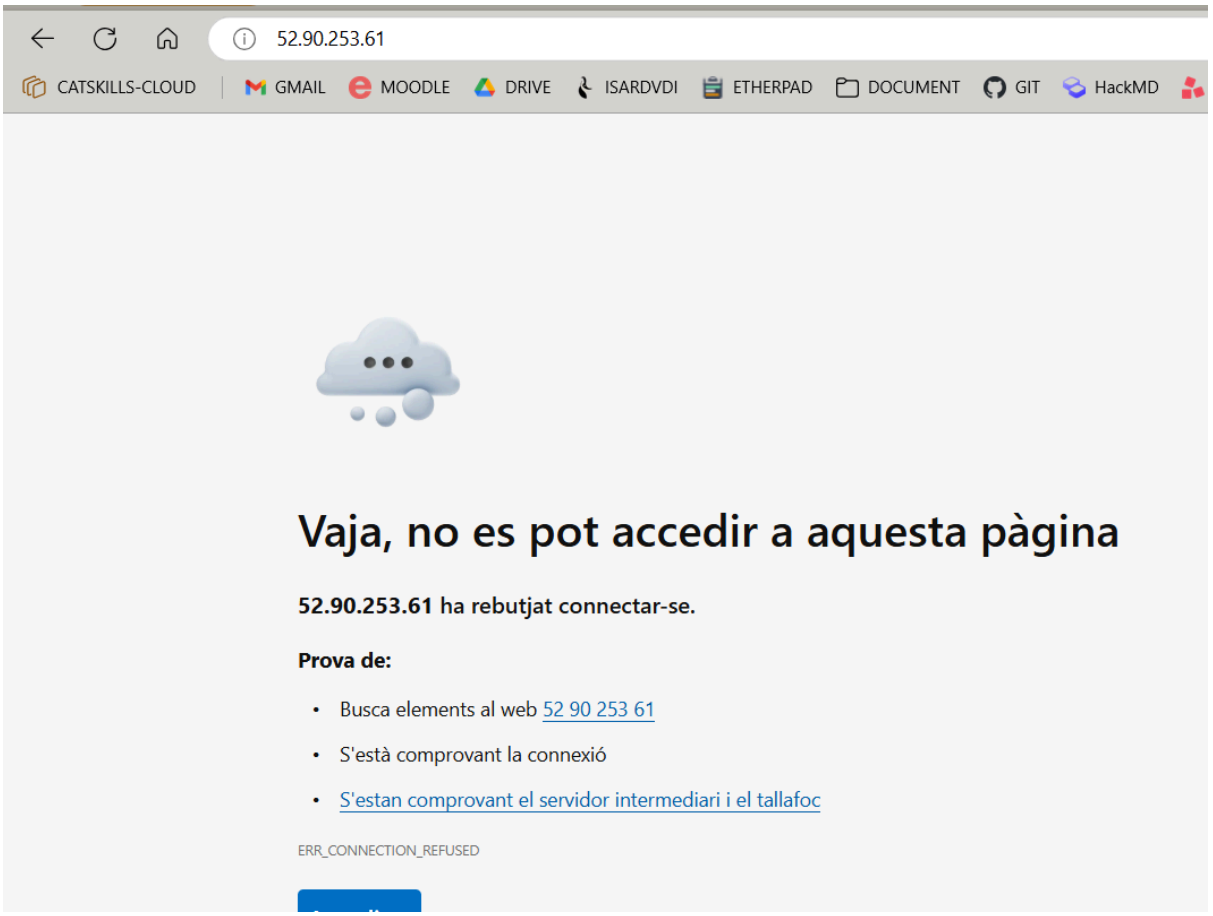
```
24
25  /** Database username */
26  define( 'DB_USER', 'asix01' );
27
28  /** Database password */
29  define( 'DB_PASSWORD', 'Sup3rins3gura!' );
30
31  /** Database hostname */
32  define( 'DB_HOST', '10.52.169.80' );
33
34  /** Database charset to use in creating database tables. */
35  define( 'DB_CHARSET', 'utf8' );
36
37  /** The database collate type. Don't change this if in doubt. */
38  define( 'DB_COLLATE', '' );
39
```

```
    <Directory /srv/www/wordpress/wp-content>
        Options FollowSymLinks
        Require all granted
    </Directory>
</VirtualHost>
ubuntu@ip-10-52-145-185:~$ sudo a2ensite wordpress
sudo a2enmod rewrite
sudo a2dissite 000-default
sudo service apache2 reload
Enabling site wordpress.
To activate the new configuration, you need to run:
  systemctl reload apache2
Enabling module rewrite.
To activate the new configuration, you need to run:
  systemctl restart apache2
Site 000-default disabled.
To activate the new configuration, you need to run:
```

```
ubuntu@ip-10-52-145-185:~$ echo $creat_en_aquest
false
ubuntu@ip-10-52-145-185:~$
```

Resultado:

devproba1.duckdns.org
o
52.90.253.61



Solución:

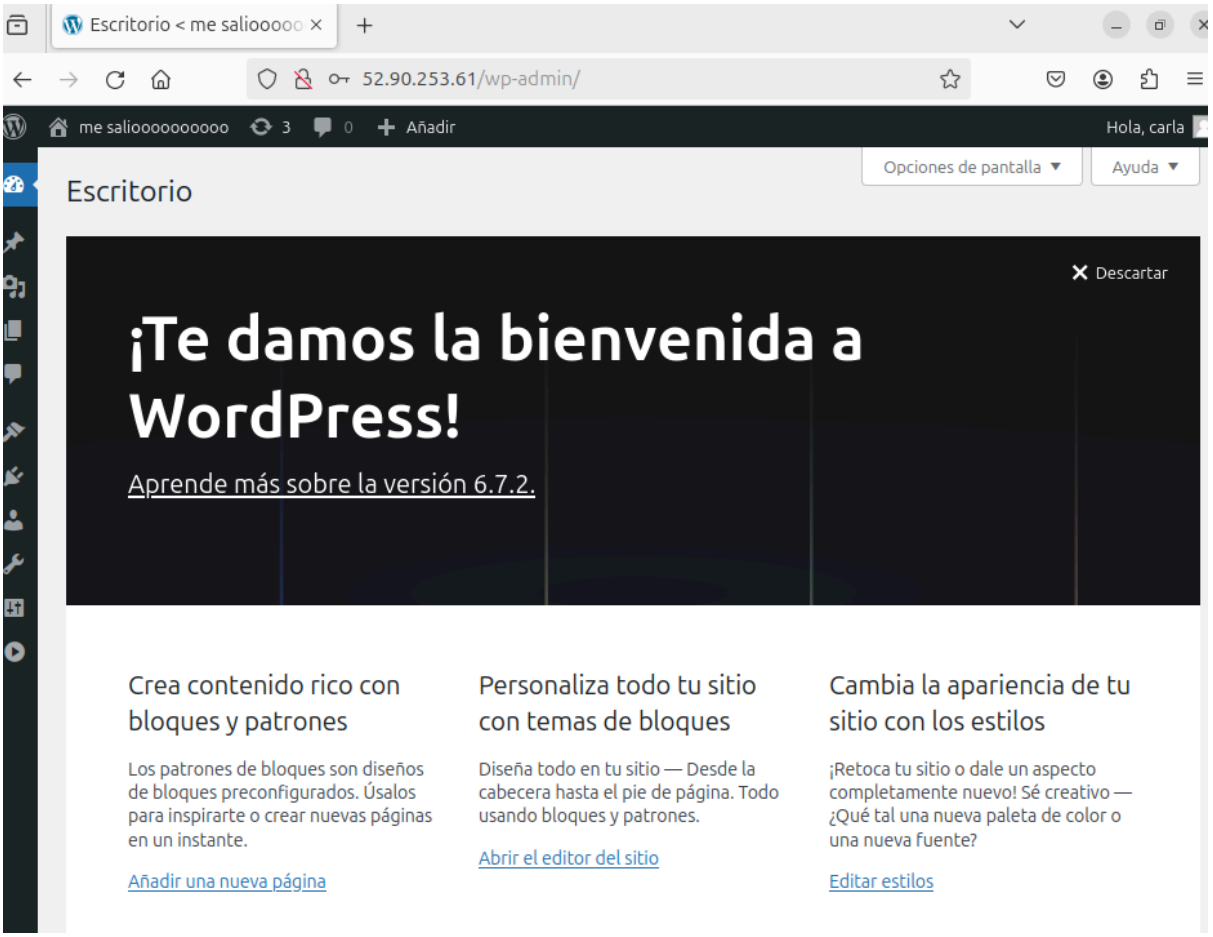
sudo tail -f /var/log/haproxy.log

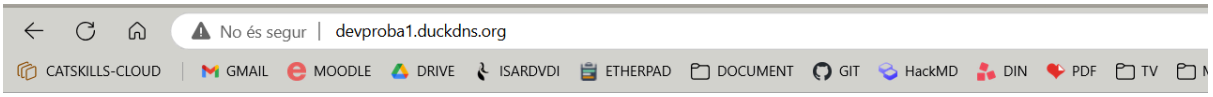
```
curl http://10.52.137.146
haproxy -v
sudo systemctl status haproxy
sudo nano /etc/haproxy/haproxy.cfg
sudo apt-get install rsyslog
sudo nano /etc/rsyslog.conf
sudo nano /etc/rsyslog.d/49-haproxy.conf
sudo systemctl restart rsyslog
sudo systemctl restart haproxy
sudo tail -f /var/log/haproxy.log
history
```

haproxy -v
sudo systemctl status haproxy
sudo nano /etc/haproxy/haproxy.cfg
→global

log /dev/log local0
log /dev/log local1 notice
sudo apt-get install rsyslog
sudo nano /etc/rsyslog.conf
Descomentar esto:
→module(load="imudp")
input(type="imudp" port="514")
module(load="imtcp")
input(type="imtcp" port="514")
sudo nano /etc/rsyslog.d/49-haproxy.conf
agregar
→local0.* -/var/log/haproxy.log
& stop
sudo systemctl restart rsyslog
sudo systemctl restart haproxy
sudo tail -f /var/log/haproxy.log

Resultado final:





me salioooooooooo

Blog

¡Hola, mundo!

Te damos la bienvenida a WordPress. Esta es tu primera entrada. Edítala o bórrala, ¡luego empieza a escribir!

4 de marzo de 2025

GRABACIÓN

35:48 minutos

Solución grabación

3:03 minutos

Total: **38:51 minutos**