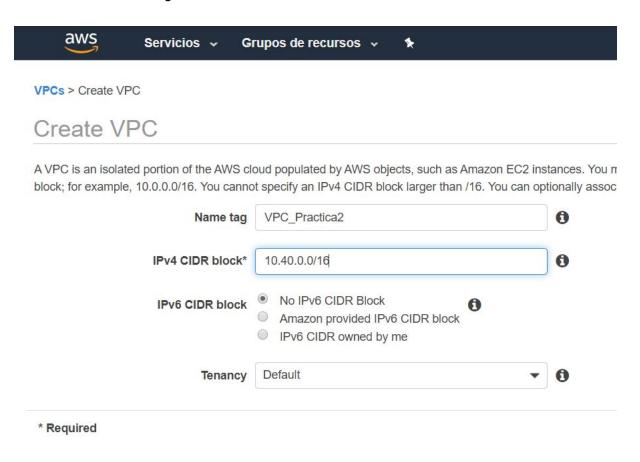
GENERANDO LA ESTRUCTURA DE RED

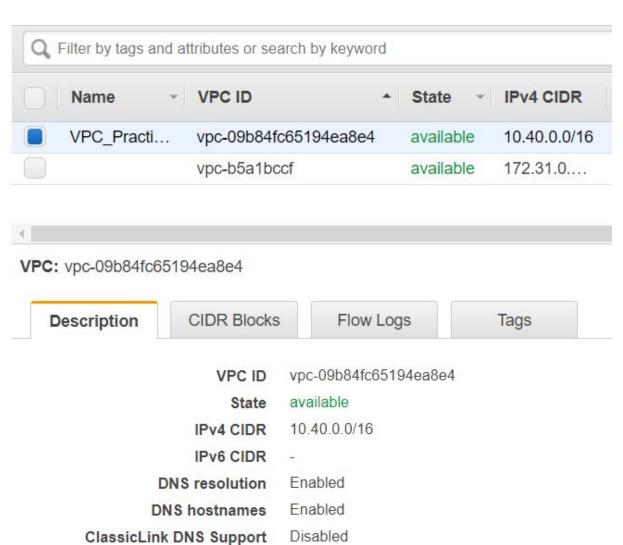
1º Creo la VPC con rango de direcciones 10.40.0.0/16



2º Habilito los nombres de dominio DNS



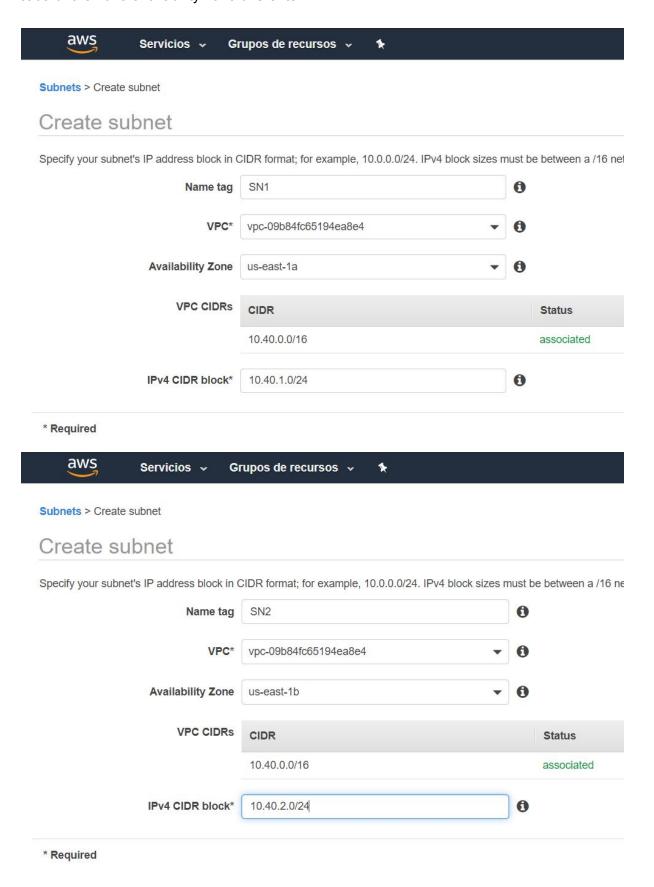
Características de VPC_Practica2



358816195022

Owner

3º Genero las dos Subnets (SN1=10.40.1.0/24 y SN2=10.40.2.0/24) en VPC_Practica2, cada una en una availability zone diferente.



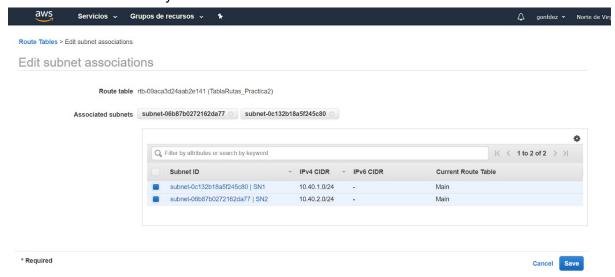
Configuro la Subnet SN1 (Que será la que tenga el servidor WEB) para que tenga direccionamiento público IPv4



4º Generando la tabla de rutas



Asocio las subnets SN1 y SN2 a la tabla de rutas





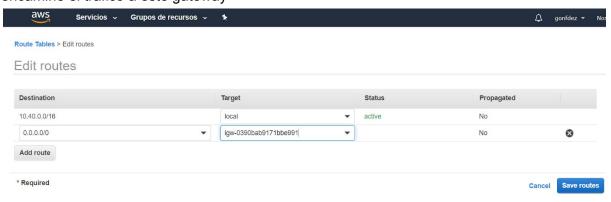
5° Creo la Internet Gateway



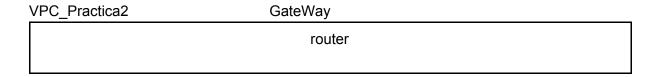
Selecciono que dé internet a mi VPC_Practica2



Ahora me voy a la Tabla de rutas y configuro el router (la tabla de rutas) para que me encamine el tráfico a este gateway



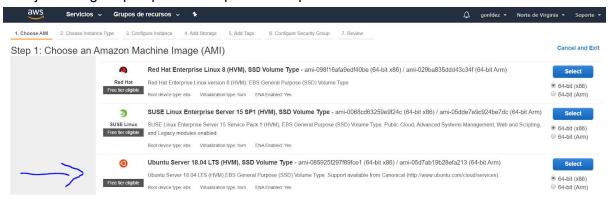
En este punto ya tengo esto:



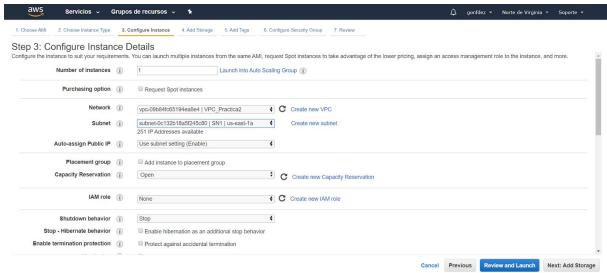
SN1 (Vacio) SN2 (Vacio)

GENERANDO LA MÁQUINA EC2 DE LA SN1

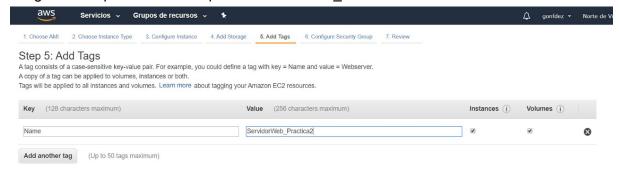
1º Elijo la imagen que quiero usar para la máquina virtual



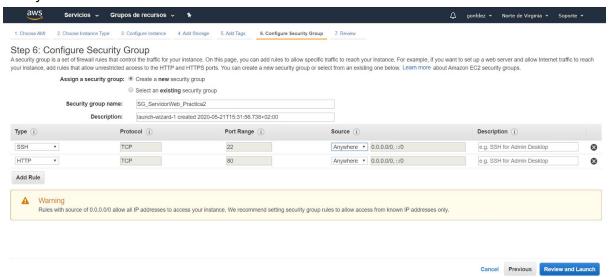
La asigno al VPC_Practica2 y a la Subnet pública SN1



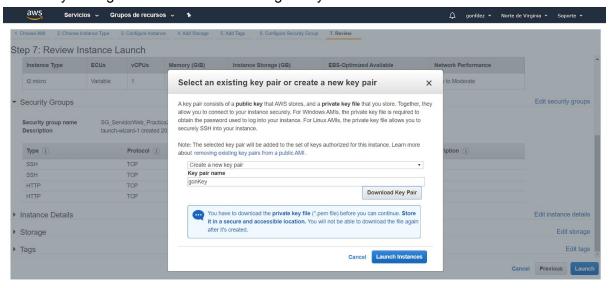
Pongo una etiqueta a esta máquina "ServidorWeb_Practica2"



Le asigno un security group "SG_ServidorWeb_Practica2" nuevo que solo permite servicios SSH y HTTP



Lo lanzo y le asigno un fichero de claves "gonKey"

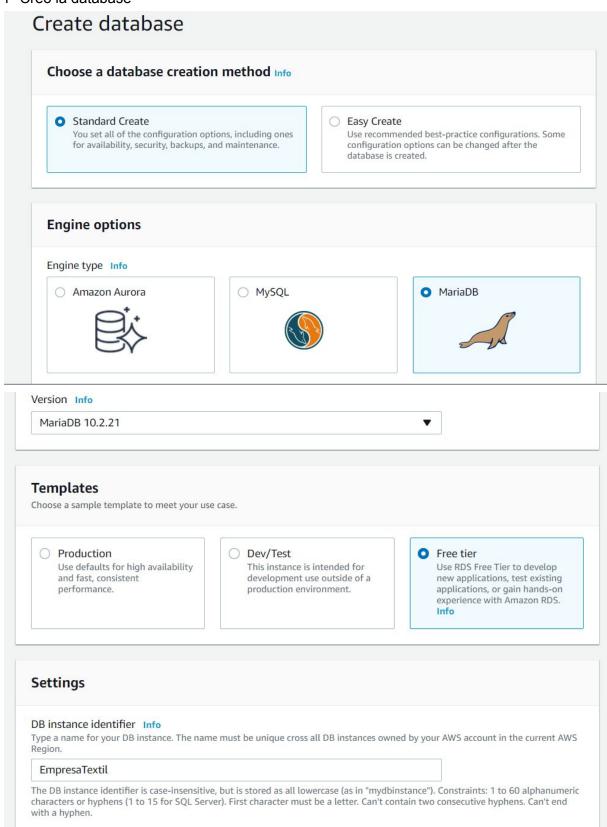


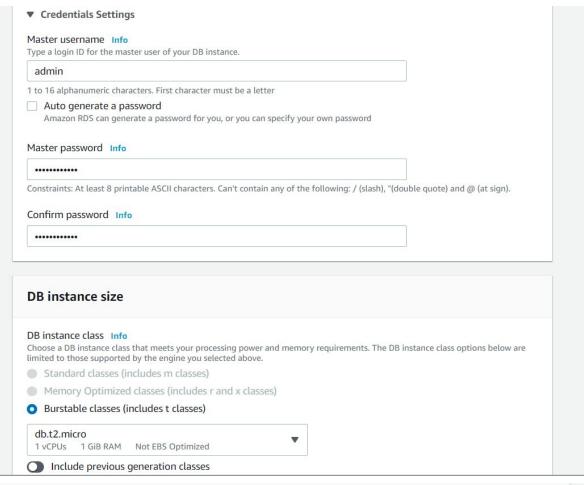
Listo

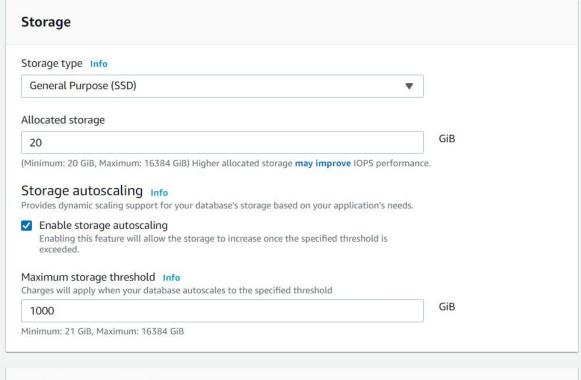


GENERANDO LA MÁQUINA RDS de MARIADB DE LA SN2

1º Creo la database



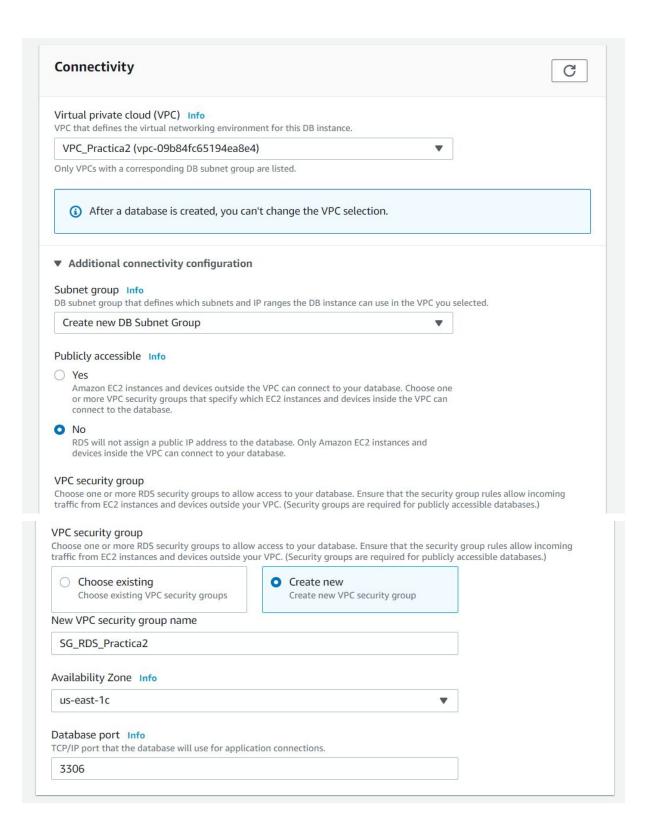




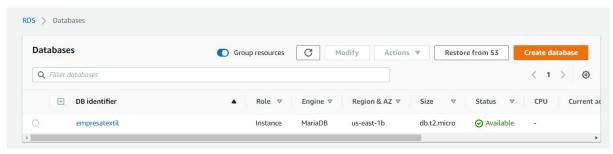
Availability & durability

Multi-AZ deployment Info

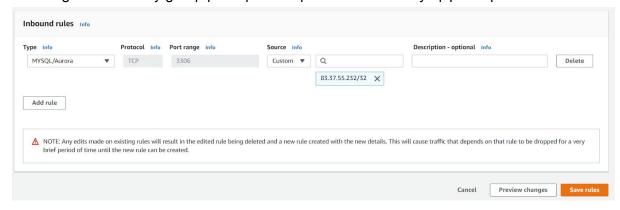
- Create a standby instance (recommended for production usage)
 Creates a standby in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.
- Do not create a standby instance



Listo



2º Configuro el security group para que solo permita servicio Mysgl por el puerto 3306



INSTALACIÓN DEL SERVIDOR WEB APACHE Y HTTP SOBRE LA EC2

1º Me conecto a mi instacia EC2 desde mi máquina Debian10

```
[dev] gonfs@debian:~/practica2
$ chmod 400 gonKey.pem
[dev] gonfs@debian:~/practica2
$ ssh -i "gonKey.pem" ubuntu@ec2-34-200-252-66.compute-1.amazonaws.com
Welcome to Ubuntu 18.04.4 LTS (GNU/Linux 4.15.0-1065-aws x86 64)
 * Documentation: https://help.ubuntu.com
                   https://landscape.canonical.com
 * Management:
                   https://ubuntu.com/advantage
 * Support:
 System information as of Thu May 21 14:45:40 UTC 2020
 System load: 0.08
                                   Processes:
                                                        86
 Usage of /: 13.7% of 7.69GB
                                  Users logged in:
                                                        0
 Memory usage: 15%
                                   IP address for eth0: 10.40.1.91
 Swap usage:
                0%
O packages can be updated.
O updates are security updates.
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.
Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo root" for details.
ubuntu@ip-10-40-1-91:~$
```

```
ubuntu@ip-10-40-1-91:~$ sudo apt-get -y install apache2
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
apache2-bin apache2-data apache2-utils libapr1 libaprutil1 libaprutil1-dbd-sqlite3
   libaprutil1-ldap liblua5.2-0 ssl-cert
Suggested packages:
  www-browser apache2-doc apache2-suexec-pristine | apache2-suexec-custom openssl-blacklist
The following NEW packages will be installed:
Created symlink /etc/systemd/system/multi-user.target.wants/apache-htcacheclean.service → /lib /systemd/system/apache-htcacheclean.service.

Processing triggers for libc-bin (2.27-3ubuntu1) ...

Processing triggers for systemd (237-3ubuntu10.39) ...

Processing triggers for man-db (2.8.3-2ubuntu0.1) ...

Processing triggers for ufw (0.36-0ubuntu0.18.04.1) ...
Processing triggers for ureadahead (0.100.0-21) ...
ubuntu@ip-10-40-1-91:~$
ubuntu@ip-10-40-1-91:~$ ps -ef | grep apache
                                 0 14:47 ?
                            1
               2174
                                                          00:00:00 /usr/sbin/apache2 -k start
                                                          00:00:00 /usr/sbin/apache2 -k start
00:00:00 /usr/sbin/apache2 -k start
                                 0 14:47 ?
 www-data
               2176
                        2174
                                   14:47 ?
 www-data
               2177
                        2174
                                 0
 ubuntu
              13524
                        1639
                                 0
                                    14:49 pts/0
                                                          00:00:00 grep --color=auto apache
 ubuntu@ip-10-40-1-91:~$
ubuntu@ip-10-40-1-91:~$ sudo systemctl status apache2
• apache2.service - The Apache HTTP Server
    Loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
  Drop-In: /lib/systemd/system/apache2.service.d
—apache2-systemd.conf
    Active: active (running) since Thu 2020-05-21 14:47:44 UTC; 2min 28s ago
 Main PID: 2174 (apache2)
     Tasks: 55 (limit: 1152)
   CGroup: /system.slice/apache2.service

-2174 /usr/sbin/apache2 -k start

-2176 /usr/sbin/apache2 -k start

-2177 /usr/sbin/apache2 -k start
May 21 14:47:44 ip-10-40-1-91 systemd[1]: Starting The Apache HTTP Server...
May 21 14:47:44 ip-10-40-1-91 systemd[1]: Started The Apache HTTP Server.
ubuntu@ip-10-40-1-91:~$
ubuntu@ip-10-40-1-91:-$ sudo apt-get install php libapache2-mod-php php-mysql
 Copio el archivo Conexion Mysql.php a mi maquina EC2 en el directorio
/var/www/html/practica2
 dev] gonfs@debian:-
$ scp -i "gonKey.pem"
                         Conexion_MySQL.php ubuntu@ec2-34-200-252-66.compute-1.amazonaws.com:/var
/www/html/practica2
Conexion MySQL.php
                                                                       100% 2116
                                                                                      22.6KB/s 00:00
Copio el contenido de Conexion Mysgl.php en index.html
ubuntu@ip-10-40-1-91:/var/www/html$ sudo mv practica2/Conexion MySQL.php index.html
CONEXIÓN A LA RDS DESDE LA EC2
ubuntu@ip-10-40-1-91:~$ sudo apt-get -y update
ubuntu@ip-10-40-1-91:~$ sudo apt-get install mariadb-client
me conecto a mi RDS
ubuntu@ip-10-40-1-91:-$ mariadb -h empresatextil.crovm6ynd5nh.us-east-1.rds.amazonaws.com -u admin -p
```

Se queda así la terminal, no me conecta y me dice que ha pasado el tiempo de conexion y no responde.