



35°

Lab - AWS re/Start

Creando un servidor de base de datos



Tarea 01



Explorando Amazon Relational Database Service

A continuación, se muestra los objetivos del laboratorio:

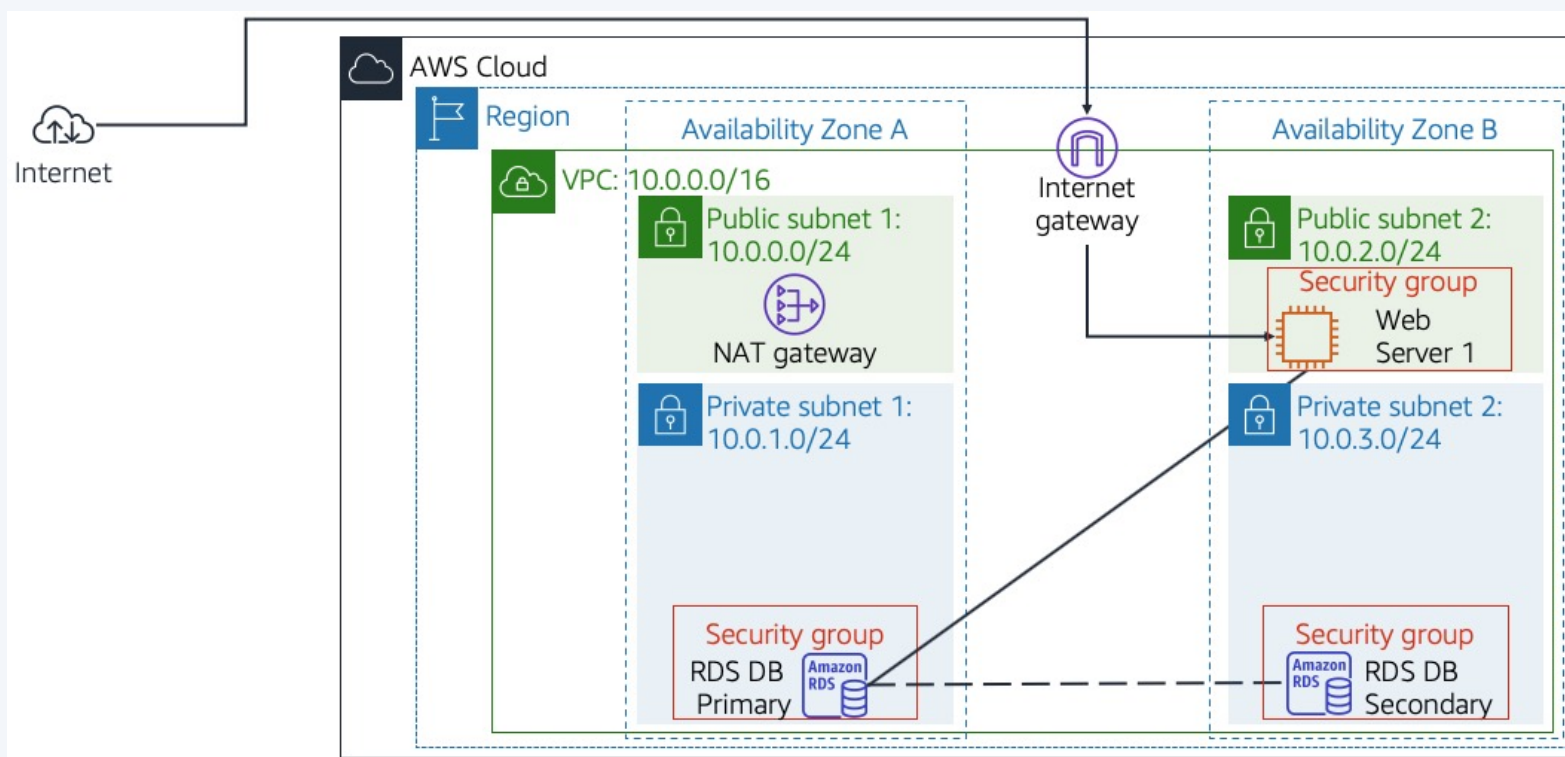
- Lanzar una instancia de base de datos de Amazon RDS con alta disponibilidad.
- Configurar la instancia de base de datos para permitir conexiones desde su servidor web.
- Abrir una aplicación web e interactuar con su base de datos.

Nota. Amazon RDS facilita las tareas de configuración, operación y escalado de una base de datos relacional en la nube. Proporciona una capacidad rentable y de tamaño ajustable y, al mismo tiempo, permite gestionar las tareas de administración de base de datos que consumen mucho tiempo, lo que permite centrarse en las aplicaciones y el negocio. Amazon RDS ofrece seis motores de base de datos familiares entre los que elegir: Amazon Aurora, Oracle, Microsoft SQL Server, PostgreSQL, MySQL y MariaDB.

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Al final del laboratorio, esta será la infraestructura:



Empezamos por la creación del grupo de seguridad de la db que permita el tráfico de nuestro servidor hacia la instancia de db de AWS RDS. Para ello lo asociamos al grupo de seguridad del servidor (instancia de EC2)

VPC > Security Groups > Create security group

Create security group [Info](#)

A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.

Basic details

Security group name [Info](#)

Name cannot be edited after creation.

Description [Info](#)

VPC [Info](#)

vpc-02c789e1eb1ce1224 (Lab VPC)

Inbound rules [Info](#)

Type Info	Protocol Info	Port range Info	Source Info
MYSQL/Aurora	TCP	3306	Custom

Add rule

CIDR blocks

Security Groups

Web Security Group | sg-03a20fef1dcf653ea

Web Security Group

Prefix lists

Q sg-03a20fef1dcf653ea X

sg-03a20fef1dcf653ea X

Delete

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Luego, procedemos a crear un grupo de subredes, las cuales pueden ser utilizadas por la base de datos de Amazon RDS. Como mínimo se requieren subredes en dos AZs. Recuerda que estas subredes son privadas, pues se trata de una DB.

Create DB subnet group

To create a new subnet group, give it a name and a description, and choose an existing VPC. You will then be able to add subnets related to that VPC.

Subnet group details

Name

You won't be able to modify the name after your subnet group has been created.

Must contain from 1 to 255 characters. Alphanumeric characters, spaces, hyphens, underscores, and periods are allowed.

Description

VPC

Choose a VPC identifier that corresponds to the subnets you want to use for your DB subnet group. You won't be able to choose a different VPC identifier after your subnet group has been created.

Add subnets

Availability Zones

Choose the Availability Zones that include the subnets you want to add.

Subnets

Choose the subnets that you want to add. The list includes the subnets in the selected Availability Zones.



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Con respecto a la conectividad, asignamos el grupo de seguridad previamente creado.

Compute resource

Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

Don't connect to an EC2 compute resource

Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

Connect to an EC2 compute resource

Set up a connection to an EC2 compute resource for this database.

Virtual private cloud (VPC)

Info

Choose the VPC. The VPC defines the virtual networking environment for this DB instance.

Lab VPC (vpc-02c789e1eb1ce1224)

4 Subnets, 2 Availability Zones

Only VPCs with a corresponding DB subnet group are listed.

After a database is created, you can't change its VPC.

DB subnet group

Info

Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

db subnet group

2 Subnets, 2 Availability Zones

Public access

Info

Yes

RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database. Choose one or more VPC security groups that specify which resources can connect to the database.

No

RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that specify which resources can connect to the database.

VPC security group (firewall)

Info

Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

Choose existing

Choose existing VPC security groups

Create new

Create new VPC security group

Existing VPC security groups

Choose one or more options

DB Security Group

X

Aquí el resultado de la creación de la instancia RDS DB:

RDS > Databases

Consider creating a Blue/Green Deployment to minimize downtime during upgrades

You may want to consider using Amazon RDS Blue/Green Deployments and minimize your downtime during upgrades. A Blue/Green Deployment provides a staging environment for changes to production databases. [RDS User Guide](#) [Aurora User Guide](#)

Databases (1)

Group resources

Modify

Actions

Restore from S3

Create database

Filter by databases

	DB identifier ▲	Status ▼	Role ▼	Engine ▼	Region & AZ ▼	Size ▼	Recommendations ▼	CPU ▼	Current activity ▼	Maintenance ▼	VPC ▼
	lab-db	Available	Instance	MySQL Community	us-west-2b	db.t3.micro		-		none	vpc-02c789e1eb1ce1224

SWIPE

Tarea 01



Finalmente, procedemos a interactuar con nuestra BD:

Not secure54.201.139.206/rds.php

aws

Load Test

RDS

Endpoint

lab-db.cz20mm2ci9cq.us-west-2.rds.amazonaws.com

Database

lab

Username

main

Password

.....

Submit

Not secure54.201.139.206/rds.php

aws

Load Test

RDS

Address Book

Last name	First name	Phone	Email	Admin	
				Add Contact	
Doe	Jane	010-110-1101	janed@someotheraddress.org	Edit	Remove
Johnson	Roberto	123-456-7890	roberto@someaddress.com	Edit	Remove