

# Examen Práctico Módulo 2 - EC2 y RDS

Nombre: Chayanne Alfonso Sánchez García

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## 1. Evidencia EC2

Configuración de la EC2:

The screenshot shows the AWS EC2 Instances page with the instance summary for 'i-0b342a09390a51efc (EC2-chayanne)'. The instance is running and has multiple network interfaces. Key details include:

- Instance ID:** i-0b342a09390a51efc
- Public IPv4 address:** 3.231.164.175
- Private IPv4 addresses:** 172.31.10.118
- Public DNS:** ec2-3-231-164-175.compute-1.amazonaws.com
- Instance state:** Running
- Hostname type:** IP name: ip-172-31-10-118.ec2.internal
- Private IP DNS name (IPv4 only):** ip-172-31-10-118.ec2.internal
- Instance type:** t3.micro
- VPC ID:** vpc-00f479057476a2db8 (VPC-Producción)
- Subnet ID:** subnet-00227b47a5f05e0d4
- Elastic IP addresses:** None
- AWS Compute Optimizer finding:** It is taking a bit longer than usual to fetch your data.
- Auto Scaling Group name:** None

## 2. Evidencia RDS

RDS y el Security Group:

The screenshot shows the Aurora and RDS Databases page for the database 'database-chayanne'. The database is available and using the MySQL engine. Key details include:

- DB identifier:** database-chayanne
- Status:** Available
- Role:** Instance
- Engine:** MySQL Community
- Region & AZ:** us-east-1a
- CPU:** 5.89%
- Class:** db.t3.micro
- Current activity:** 0 Connections

The 'Connectivity & security' tab is selected, showing options for connecting using Code snippets, CloudShell, or Endpoints.

The screenshot shows the AWS Aurora and RDS console. The left sidebar is titled "Aurora and RDS" and includes links for Dashboard, Databases (which is selected), Query editor, Performance insights, Snapshots, Exports in Amazon S3, Automated backups, Reserved instances, Proxies, Subnet groups, Parameter groups, Option groups, Custom engine versions, and Zero-ETL integrations. The main content area has tabs for "Resource identifier" (selected), Resource type, Availability Zone, VPC security group, and Compute resource security group. Below these tabs, it says "No connected compute resources" and provides "Set up EC2 connection" and "Set up Lambda connection" buttons. A section titled "Security group rules (2)" lists two entries: "SG-RDS-chayanne2 (sg-092d170c624382911)" which is an EC2 Security Group - Inbound rule for sg-01a795dacc2ea0413, and "SG-RDS-chayanne2 (sg-092d170c624382911)" which is a CIDR/IP - Outbound rule for 0.0.0.0/0. A "Replication (1)" section is also present.

### 3. Conexión EC2 a RDS

Conectado a la RDS desde la EC2:

```

Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Installing : mariadb-connector-c-3.3.10-1.amzn2023.0.1.noarch 1/5
Installing : mariadb-connector-c-3.3.10-1.amzn2023.0.1.x86_64 2/5
Installing : mariadb105-common-3:10.5.29-1.amzn2023.0.1.x86_64 3/5
Installing : perl-Sys-Hostname-1.23-477.amzn2023.0.7.x86_64 4/5
Installing : mariadb105-3:10.5.29-1.amzn2023.0.1.x86_64 5/5
Running scriptlet: mariadb105-3:10.5.29-1.amzn2023.0.1.x86_64 5/5
Verifying : mariadb-connector-c-3.3.10-1.amzn2023.0.1.x86_64 1/5
Verifying : mariadb-connector-c-config-3.3.10-1.amzn2023.0.1.noarch 2/5
Verifying : mariadb105-3:10.5.29-1.amzn2023.0.1.x86_64 3/5
Verifying : mariadb105-common-3:10.5.29-1.amzn2023.0.1.x86_64 4/5
Verifying : perl-Sys-Hostname-1.23-477.amzn2023.0.7.x86_64 5/5

Installed:
mariadb-connector-c-3.3.10-1.amzn2023.0.1.x86_64      mariadb-connector-c-config-3.3.10-1.amzn2023.0.1.noarch      mariadb105-3:10.5.29-1.amzn2023.0.1.x86_64
mariadb105-common-3:10.5.29-1.amzn2023.0.1.x86_64      perl-Sys-Hostname-1.23-477.amzn2023.0.7.x86_64

Complete!
[ec2-user@ip-172-31-10-118 ~]$ mysql -h database-chayanne.czckyeamig9k.us-east-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 41
Server version: 8.4.7 Source distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MySQL [(none)]> 
```

## 4. Creación de Base de Datos

CREATE DATABASE y SHOW DATABASES:

```
MySQL [(none)]> DROP DATABASE chayanne-sanchez;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'DATABASE
SE' at line 1
MySQL [(none)]> SHOW DATABASE;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'DATABA
SE' at line 1
MySQL [(none)]> CREATE DATABASE laboratorioalfonso;
Query OK, 1 row affected (0.056 sec)

MySQL [(none)]> CREATE DATABASE laboratorioalfonso;
ERROR 1007 (HY000): Can't create database 'laboratorioalfonso'; database exists
MySQL [(none)]> DROP DATABASE laboratorioalfonso;
Query OK, 0 rows affected (0.015 sec)

MySQL [(none)]> CREATE DATABASE chayanne;
Query OK, 1 row affected (0.006 sec)

MySQL [(none)]> SHOW DATABASE;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'DATABA
SE' at line 1
MySQL [(none)]> SHOW DATABASES;
+-----+
| Database      |
+-----+
| chayanne      |
| information_schema |
| mysql          |
| performance_schema |
| sys            |
+-----+
5 rows in set (0.013 sec)

MySQL [(none)]>
```

```
MySQL [chayanne]> SHOW TABLES;
+-----+
| Tables_in_chayanne |
+-----+
| personas          |
+-----+
1 row in set (0.009 sec)

MySQL [chayanne]> DESCRIBE personas;
+-----+-----+-----+-----+-----+
| Field | Type   | Null | Key | Default | Extra       |
+-----+-----+-----+-----+-----+
| id    | int    | NO   | PRI  | NULL    | auto_increment |
| nombre | varchar(50) | YES  |     | NULL    |                |
| apellido | varchar(50) | YES  |     | NULL    |                |
+-----+-----+-----+-----+-----+
3 rows in set (0.035 sec)

MySQL [chayanne]> INSERT INTO personas (nombre, apellido) VALUES ('chayanne', 'sanchez');
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'sanche
z' at line 1
MySQL [chayanne]> INSERT INTO personas (nombre, apellido) VALUES ('chayanne', 'sanchez');
Query OK, 1 row affected (0.067 sec)

MySQL [chayanne]> SELECT * FROM personas;
+-----+-----+-----+
| id  | nombre | apellido |
+-----+-----+-----+
| 1   | chayanne | sanchez |
+-----+-----+-----+
1 row in set (0.006 sec)

MySQL [chayanne]> ■
```