

Migration Database for the Geolocation project

II- Migration of the project database to the AWS cloud

- Your first mission of **code analysis** being realized, the second mission within your team is to make the **migration of the Database in the cloud**.
- For the realization of this task, we will go through the following steps:
 - step 1: creation of a MySQL database in RDS.
 - step 2: install and configure MySQL Workbench to allow us to connect to our database in the cloud
 - step 3: configure the project to allow the cloud database to communicate with our application

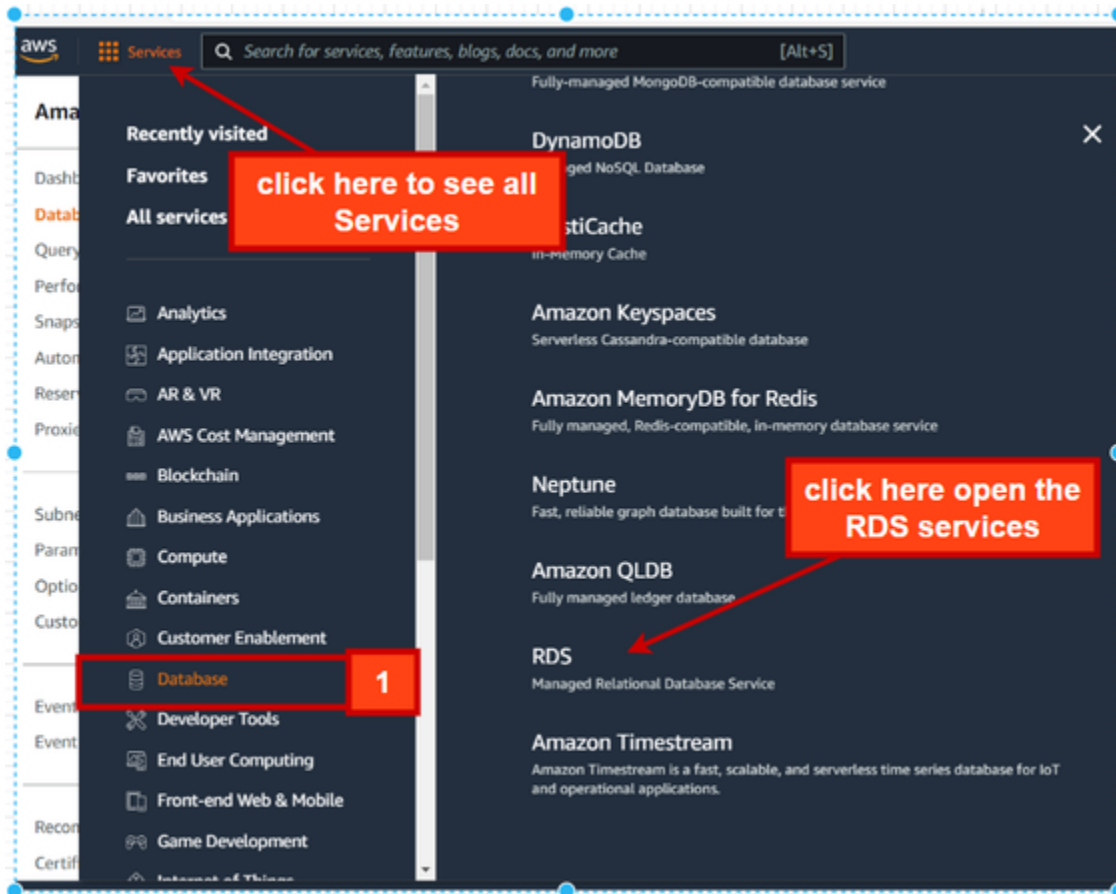
step 1: creation of a MySQL database in RDS.

- Here we will describe the process of creating and configuring a MySQL database in the cloud.

1- open the RDS services.

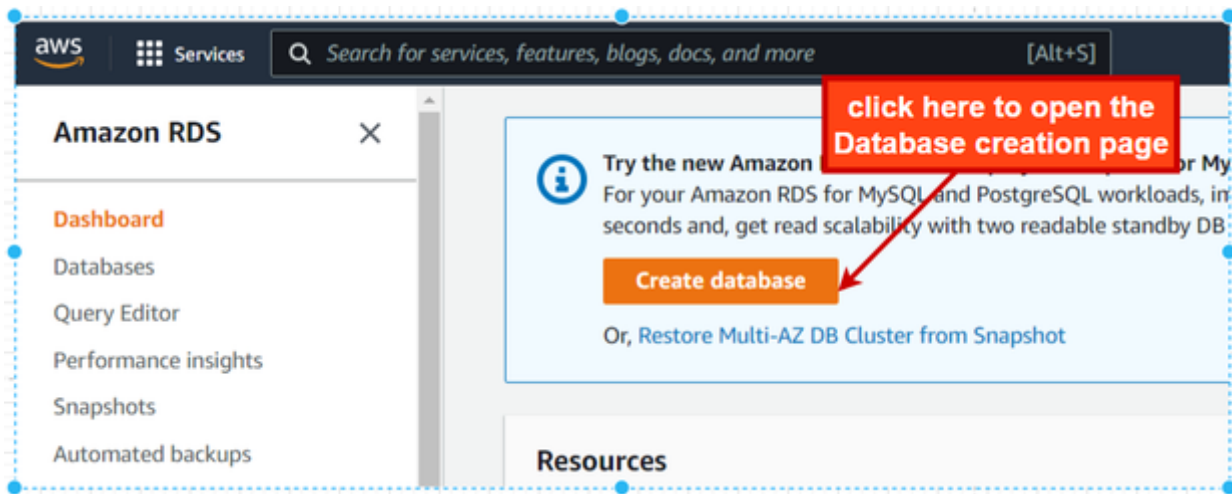
in the AWS console, perform this process to open the RDS services.

- **Services Database RDS**



2- Create the Database.

The **RDS service dashboard** is displayed. Click on **Create Database**.



The page that appears contains several **sub-tabs**, we have to scroll this page to fill in the creation information of our database :

- Choose a Database creation method and Engine Options

RDS > Create database

Create database


Choose a database creation method [Info](#)


☒ **Standard create**
You set all of the configuration options, including ones for availability, security, backups, and maintenance.


☐ **Easy create**
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.


Engine options


Engine type [Info](#)


☐ Amazon Aurora


☒ **MySQL**



☐ MariaDB


☐ PostgreSQL


☐ Oracle


☐ Microsoft SQL Server


Edition
☒ MySQL Community

 **Known issues/limitations**
Review the [Known issues/limitations](#) to learn about potential compatibility issues with specific database versions.

Version
MySQL 8.0.28

- Templates, Availability and duration

Choose here **Free tier**

Templates
Choose a sample template to meet your use case.

☐ **Production**
Use defaults for high availability and fast, consistent performance.

☒ **Dev/Test**
This instance is intended for development use outside of a production environment.

☐ **Free tier**
Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.
[Info](#)

Availability and durability

Deployment options [Info](#)
The deployment options below are limited to those supported by the engine you selected above.

☐ **Multi-AZ DB Cluster - new**
Creates a DB cluster with a primary DB instance and two readable standby DB instances, with each DB instance in a different Availability Zone (AZ). Provides high availability, data redundancy and increases capacity to serve read workloads.

☐ **Multi-AZ DB instance**
Creates a primary DB instance and a standby DB instance in a different AZ. Provides high availability and data redundancy, but the standby DB instance doesn't support connections for read workloads.

☒ **Single DB instance**
Creates a single DB instance with no standby DB instances.

- **Settings and Instance configuration**

Settings

DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

geolocation-bd

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 60 alphanumeric characters or hyphens. First character must be a letter. Can't contain two consecutive hyphens. Can't end with a hyphen.

▼ Credentials Settings

Master username [Info](#)

Type a login ID for the master user of your DB instance.

root

1 to 16 alphanumeric characters. First character must be a letter.

☐ Auto generate a password

Amazon RDS can generate a password for you, or you can specify your own password.

Master password [Info](#)

.....

Constraints: At least 8 printable ASCII characters. Can't contain any of the following: / (slash), ' (single quote), " (double quote) and @ (at sign).

Confirm password [Info](#)

.....

Instance configuration

The DB instance configuration options below are limited to those supported by the engine that you selected above.

DB instance class [Info](#)

- ☒ Standard classes (includes m classes)
- ☐ Memory optimized classes (includes r and x classes)
- ☐ Burstable classes (includes t classes)

db.m6g.large

2 vCPUs 8 GiB RAM Network: 4,750 Mbps

☐ Include previous generation classes