Create RDS, Exported data, Connected SQL client, Migrated data from Database to an other

Created an RDS database instance

Exported data from a MariaDB database by using mysqldump

Connected a SQL client to an RDS database.

Migrated data from a MariaDB database that runs on an EC2 instance to an RDS database instance

Configured a web application to use the new RDS database instance for data storage

First step, create a database instance by RDS.  
  
In the Engine options section, for Engine type, choose MariaDB.

For Templates, choose Dev/Test.

In the Settings section, configure the following options:

DB instance identifier: Enter CafeDatabase

Master username: Enter admin.

Master password and Confirm master password: Enter Caf3DbPassw0rd!

In the Instance configuration section, for DB instance class, choose Burstable classes (includes t classes), and then choose db.t3.micro.

In the Storage section, configure the following options:

Storage type: Choose General Purpose SSD(gp2).

Allocated storage: Enter 20 GiB.

For vailability & durability, choose Do not create a standby instance.

In the Connectivity section, configure the following options:

Virtual private cloud (VPC): Choose Lab VPC

DB subnet group: Choose lab-db-subnet-group.

Public access: Choose No.

Existing VPC security group: Choose dbSG, and clear the default security group.

Availability Zone: Choose the first Availability Zone in the list, which ends in a. For example, if the Region is us-east-1, choose us-east-1a.

Database port: Keep the default TCP port of 3306.

In the Monitoring section, clear Enable Enhanced Monitoring. Enhanced monitoring is not supported in the lab environment.

Choose Create database.

Second step Exported data from a MariaDB database by using mysqldump

The page shows that many orders were placed. The current database contains past customer orders that you will migrate to a database that is hosted on Amazon RDS.

Next, you connect to the EC2 instance by using AWS Systems Manager to access a terminal session in the browser.

In the Amazon EC2 console, in the left navigation pane, choose Instances, and then choose the CafeServer EC2 instance.

To open the Connect to instance menu, choose Connect.

Choose Session Manager.

Choose Connect.

You should now have a new browser tab open with a terminal session that is connected to the EC2 instance.

At the prompt, enter the following commands:

bash

sudo su

su ec2-user

whoami

cd /home/ec2-user/

service mariadb status

On the AWS Management Console, in the search box, enter and choose Secrets Manager to open the AWS Secrets Manager console.

In the left navigation pane, choose Secrets

There are seven secrets stored here. The café application PHP code references these values (for example, to retrieve the connection information for the database).

Choose the /cafe/dbPassword secret.

In the Secret value section, choose Retrieve secret value, and copy the Value to your clipboard.

mysql -u root -p

Utiliser la valeur de la secrete

show databases;

use cafe\_db;

show tables;

select \* from `order`

select \* from `order\_item`;

To capture existing data in a file by using the mysqldump utility, run the following command:

mysqldump --databases cafe\_db -u root -p > CafeDbDump.sql

When prompted for the database password, paste the dbPassword value from the Secrets Manager secrets.

Ls to show the file

And cat xxx to see the content

Establish a network connection from the terminal running on the EC2 instance to the new RDS instance.

Il faut aller dans le groupe de sécurité et ajouter une règle, mettre en source le groupe en question.

Une image contenant texte, capture d’écran, ligne, Police

Description générée automatiquement

Importing the data into the RDS database instance

mysql -u admin -p --host <rds-endpoint> < CafeDbDump.sql

At the password prompt, enter the password for the RDS instance.

mysql -u admin -p --host <rds-endpoint>

show databases;

use cafe\_db;

show tables;

select \* from `order`;

Connecting the café application to the new database

Recall from an earlier challenge lab that the café application's PHP code references these values. For example, it uses the values to retrieve the connection information for the database.

Connect the café application to the RDS instance.

Because the database connection information has changed, you must update these values to connect the application to the new RDS database instance instead of to the database running on the EC2 instance.

Pour ça, il faut aller dans le secret manager et changer les valeurs suivant

|  |  |  |
| --- | --- | --- |
| [/cafe/dbPassword](https://us-east-1.console.aws.amazon.com/secretsmanager/secret?name=%2Fcafe%2FdbPassword&region=us-east-1) |  |  |

Et mettre le mot de passe de la base de données créée

/cafe/dbUser

Et mettre admin le nom utilisateur de la base

/cafe/dbrul

Et mettre le endpoint de la base de données dans rds.