RDS Project AWS

Creating Oracle/MySQL Databases

`Step-1 Go to RDS Dashboard

Step-2 Click 'Create DataBase'.

Step-3 Choose standard/easy create option.

Step-4 In configuration choosing MySql/Oracle as the 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.

Configuration

Engine type Info

○ Amazon Aurora

● MySQL

○ MariaDB

○ PostgreSQL

○ Oracle

○ Microsoft SQL Server

Step:-5 Choosing Free Tier Option.

Step:-6 Create master username and set password and confirm the password.

Step:- 7 Also you need to set the Public Access setting as 'Yes' in order to perform data migration.

Step:- 8 Click the 'Create Database' button.(Remaining settings as default)

Step:-9 After creating the database you can add the inbound rules if you have not already added them to allow all IPV4 Traffic.

DB instance size

○ Production
db.r6g.xlarge
4 vCPUs
32 GiB RAM
500 GiB
1.017 USD/hour

○ Dev/Test
db.r6g.large
2 vCPUs
16 GiB RAM
100 GiB
0.231 USD/hour

● Free tier
db.t3.micro
2 vCPUs
1 GiB RAM
20 GiB
0.020 USD/hour

DB instance identifier
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.

database-1

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.

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

admin

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).

Default VPC (vpc-04f15c5bf9feb5617) ▼

Only VPCs with a corresponding DB subnet group are listed.

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

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

default-vpc-04f15c5bf9feb5617 ▼

Public access Info

● Yes
Amazon EC2 instances and devices outside the VPC can connect to your database. Choose one or more VPC security groups that specify which EC2 instances and devices inside the VPC can connect to the database.

○ No
RDS will not assign a public IP address to the database. Only Amazon EC2 instances and devices inside the VPC can connect to your database.

VPC security group
Choose a VPC security group to allow access to your database. Ensure that the security group rules allow the appropriate incoming traffic.

● Choose existing
Choose existing VPC security groups

○ Create new
Create new VPC security group

RDS Connect

Connection of RDS using python and data migration ie uploading RDS tables to S3

All the steps along with the required documentation are present in the link shared below:

https://colab.research.google.com/drive/12m5jChBlxH71Ha_Uv2WAxA4q5ECpplo9?usp=sharing