

Configure Amazon RDS with MySQL engine and establish connection from MySQL Workbench.

Objectives:

- 1. Learn RDS and deploy MySQL database engine using RDS service.
- 2. Test RDS/MySQL database connection from MySQL Workbench.

<u>Step 1</u>: In **EC2** service console, go to <u>Security groups</u> in side panel. Click on <u>Create security groups</u>.

Security Groups	Info	C	Actions ▼	Create security group

Create a Security Group for Linux Server with following configuration:

Security group name: LinuxSG

Description: Security Group for Linux Server

Type: SSH

Source: 0.0.0.0/0

Click on **Create security group** button in bottom right corner. Confirm that it is created.



Go back to **EC2** service console, go to **Security groups** in side panel. Click on **Create security groups**.

Provide **Security group name** as **RDS-SG**.

Provide **Description** as **Security Group for Database**.

Provide following Inbound rules:

1. Type: SSH



Source: 0.0.0.0/0

2. Type: MySQL/Aurora

Source: 0.0.0.0/0

3. Type: MySQL/Aurora

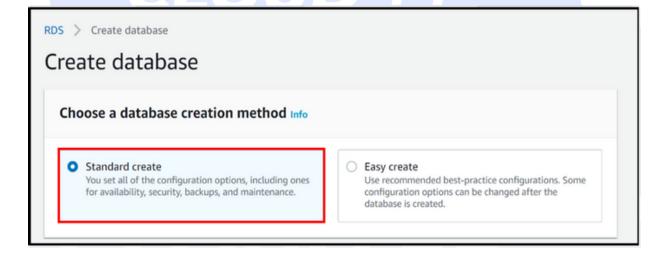
Source: LinuxSG (security group that would be used to create the EC2 instance

Туре	Protocol	Port range	Source
SSH	TCP	22	0.0.0.0/0
MYSQL/Aurora	TCP	3306	sg-0a543e89ae24da77e (LinuxSG)

Click on **Create security group** button in bottom right corner. Confirm that it is created.

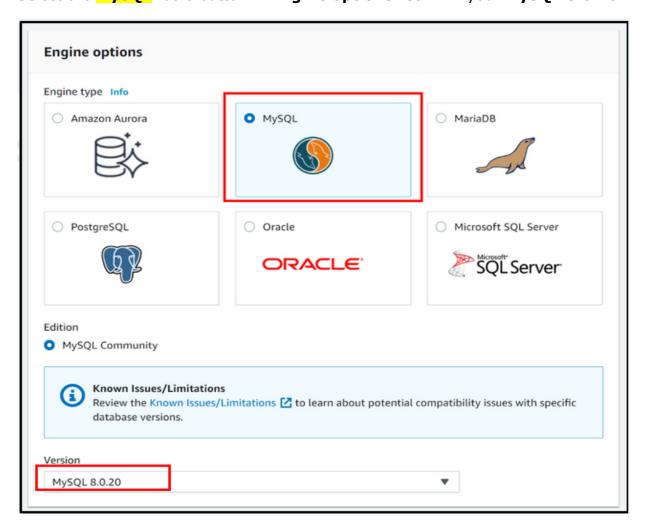
Step 2: Go to RDS service console. Click on Create database.

Choose a **Standard create** database creation method.





Select the MySQL radio button in Engine options. Confirm your MySQL 8.0.20



Select the **Dev/Test** in **Templates**.

Under **Settings**:

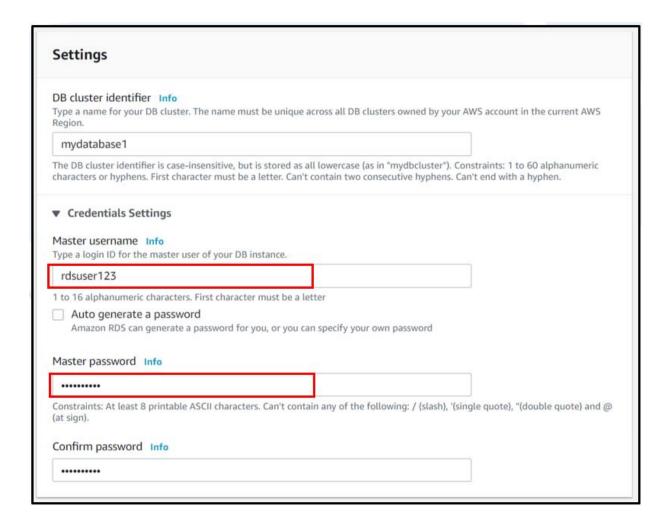


Give **DB instance identifier** as mydatabase1.

Provide **Credentials Settings** as per your choice and store it in a secure place. We refer to following values for this document:

Master Username: rdsuser123

Master password: rdspass123



Let the **DB** instance class be **Standard Classes** and size be **db.m5.xlarge**.

Confirm the default **Storage** settings as **Storage type**: **General type- General Purpose (SSD)** and **Allocated storage 20 GiB**.

Uncheck the **Enable storage autoscaling**.

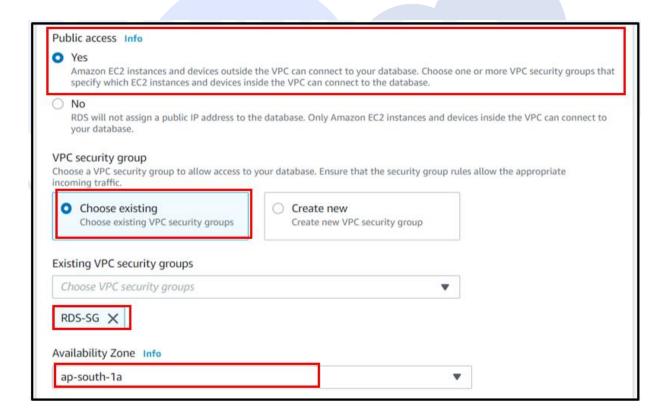
Under **Availability & durability** select **Do not create a standby instance** radio button.

Connectivity section will have Default VPC selected.



Click on **Additional connectivity configuration** for drop down.

- Select default-vpc Subnet group.
- Select Yes radio button under Public access.
- Select Choose Existing radio button in VPC security group.
- In the Existing VPC security groups default will be selected. Remove this
 security group by clicking on the cross sign. Select the RDS-SG created in
 previous step.
- In Availability Zone select 1a which should be same as the AZ of Linux
 Instance.
- The Database port will be default 3306.



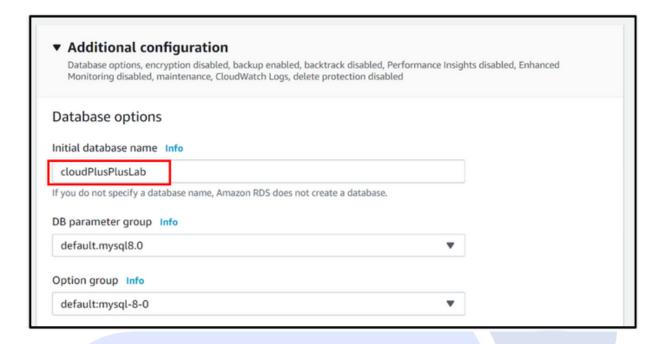
Database authentication is set to **Password authentication**.

Click on **Additional configuration** drop down.

Provide Initial database name as cloudPlusPlusLab.



DB parameter group and Option group will be default mysql8.0.



In **Backup** the **Enable automatic backups** will be checked.

Backup retention period will be **0 days**.

Backup window will have **No preference** selected.

Uncheck Copy tags to snapshots.

Uncheck Enable Encryption.

Uncheck Enable Performance Insights.

Uncheck Enable Enhanced monitoring.

Uncheck all options under **Log Exports**.

Uncheck **Enable auto minor version upgrade.**

Select **No preference** for **Maintenance window**.

Uncheck Enable deletion protection.

Ensure no additional cost is being incurred in the **Estimated monthly cost** section.

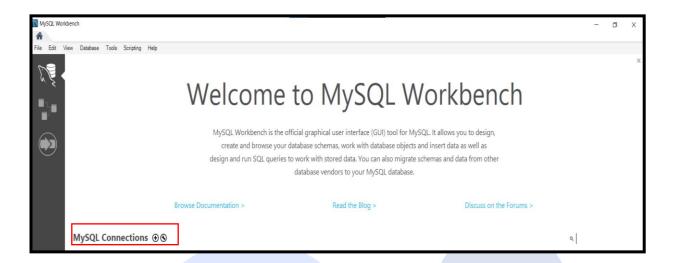
Click on **Create database** button in bottom right corner.

Confirm that the database is created and **Available**.

<u>Step 3</u>: Open the **MySQL Workbench** application on your device.

Click on the **plus icon** to connect a new **Database**.

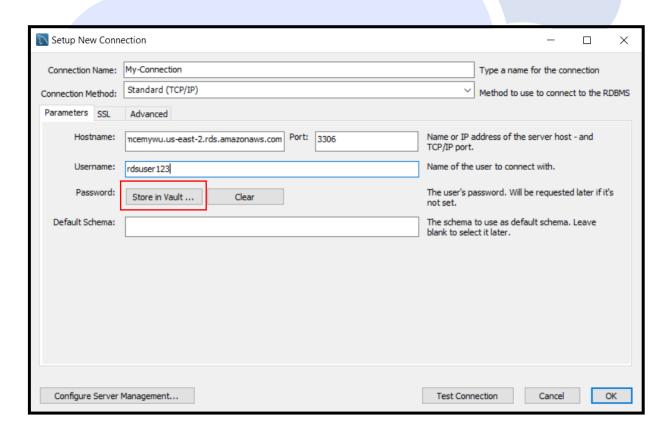




Enter the following configurations to **connect** to your **AWS RDS**.

Connection Name: My-Connection

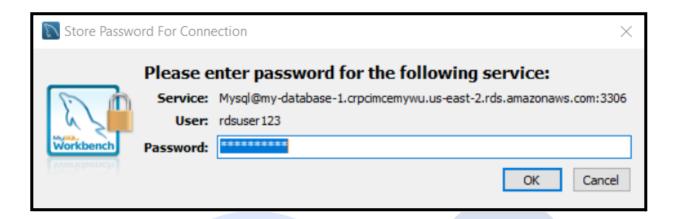
Username: rdsuser123



To enter the password, click on store in vault and enter your password

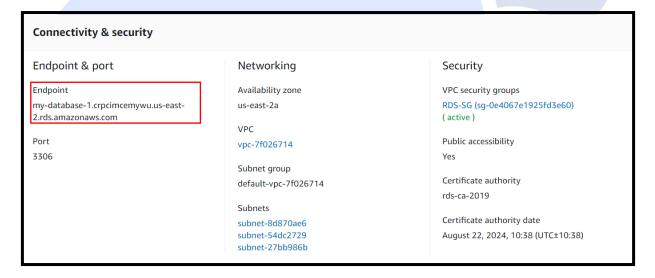
Password: rdspass123



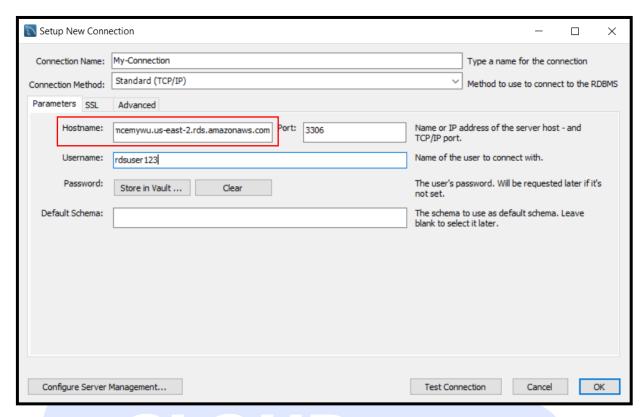


To get the **hostname**, go back to your AWS console, Click, on your RDS Instance and copy then **endpoint**.

Paste the endpoint in the hostname filed and Click, on 'OK'.







CLOUD ++

Thus we have successfully established connection with RDS using MySQL Workbench.

Note: Delete RDS instance and Security groups if you no longer need them.

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Was this document helpful? YES / NO



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