

AWS Cloud Training

-by Mr. Mahendran Selvakumar

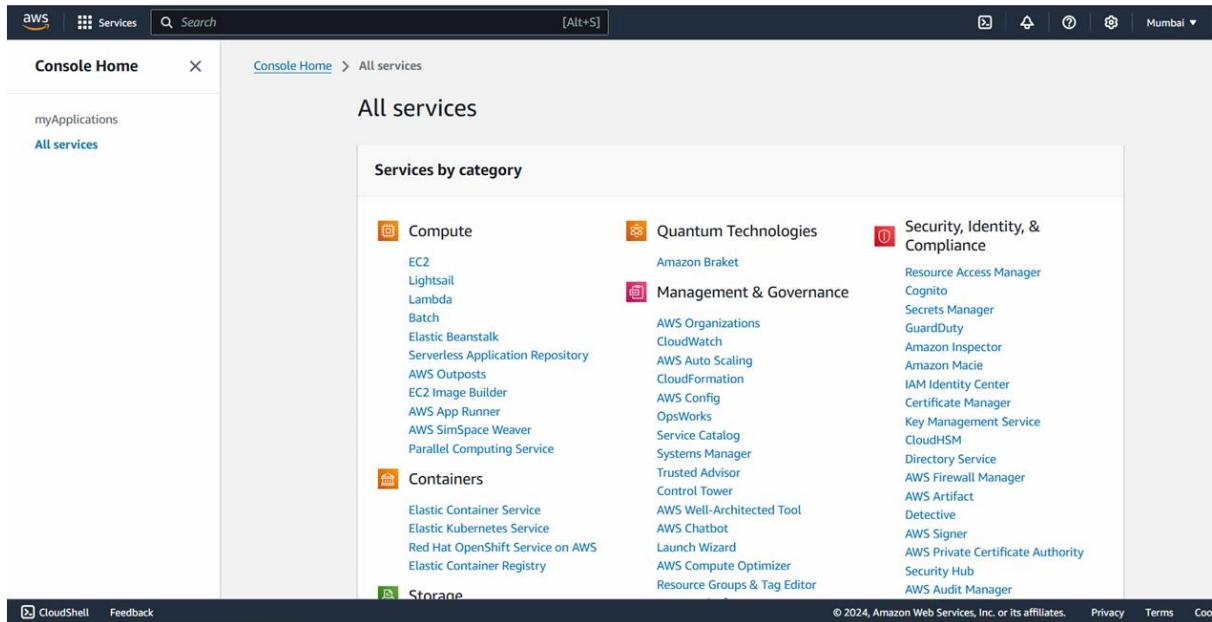
Step by step guide for connect MySQL database from MySQL Workbench

Name : Sivasakthi C

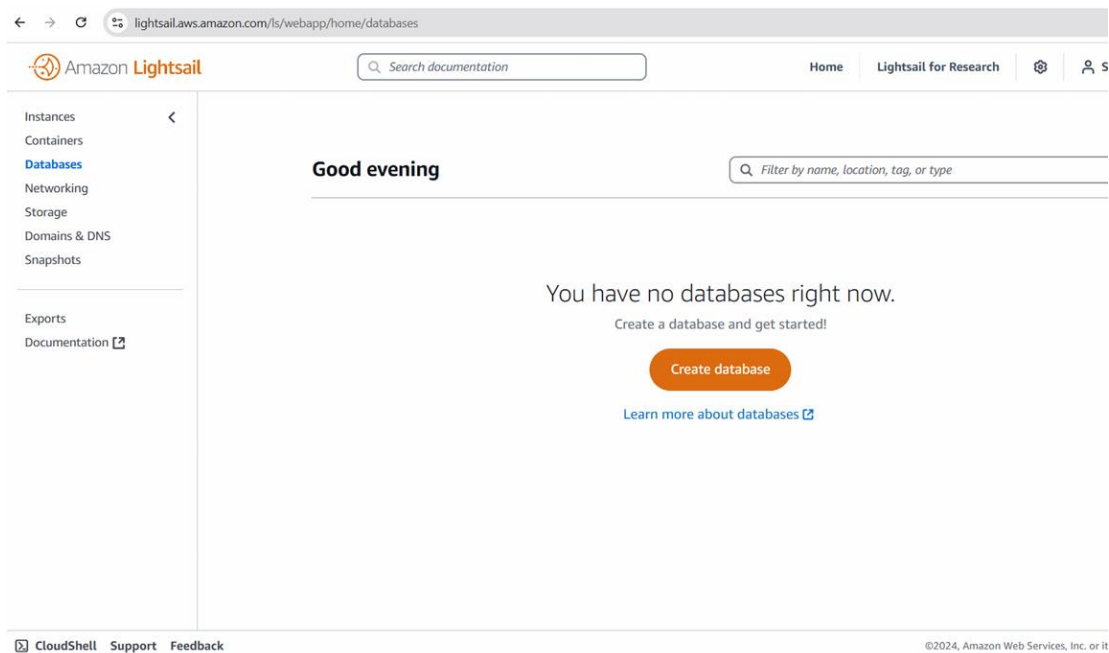
Class: II-CSE

Organized by KPR Institute of Engineering and Technology
Department of Computer Science and Engineering

Step 1: Go to AWS console home and choose Lightsail from All services.



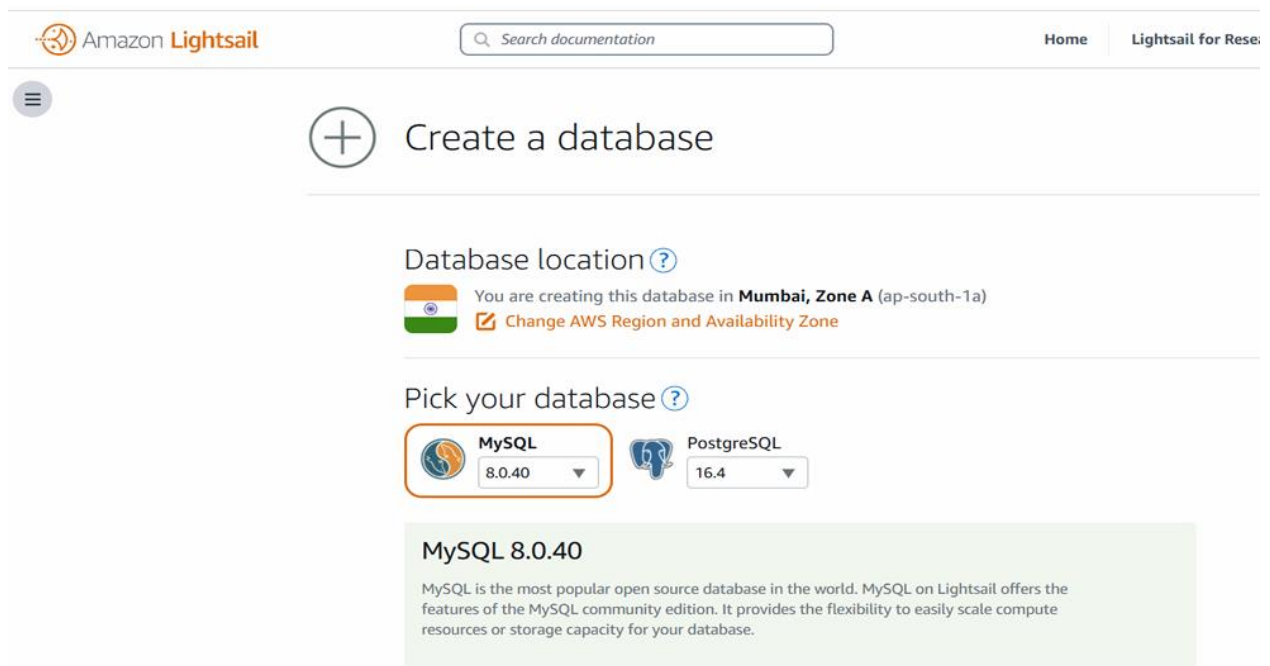
Step 2: Once you are directed to the Lightsail home page ,click on Databases in the sidemenu .



Step 3 : After entering into the Databases page , click on Create database option.

Step 4 : You will be able to choose the Database location , By changing the AWS location and availability zone . Here I have chosen Mumbai .

Step 5 : Now click on MySQL under Pick your Database option.



Amazon Lightsail

Search documentation

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+

Create a database

Database location ?

You are creating this database in **Mumbai, Zone A** (ap-south-1a)

[Change AWS Region and Availability Zone](#)

Pick your database ?

MySQL 8.0.40

PostgreSQL 16.4

MySQL 8.0.40

MySQL is the most popular open source database in the world. MySQL on Lightsail offers the features of the MySQL community edition. It provides the flexibility to easily scale compute resources or storage capacity for your database.

Step 6 : Click on the specify login credentials option and enter your Username and password.

MySQL 8.0.40

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[Learn more about databases.](#)

OPTIONAL

You can specify your own database user name and password. Otherwise, we'll manage them for you. [Learn more about managed passwords.](#)

☒ Specify login credentials

☒ Specify the master database name

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You can specify your own database user name and password. Otherwise, we'll manage them for you. [Learn more about managed passwords.](#)

User name

Specify the database user name, or leave it blank to use the default
[Learn more about database user name requirements](#)

Password

Lightsail can manage passwords for you. You can view, or rotate the managed password at any time after creating the database. Or you can specify your own password, in which case you must keep track of it.

☒ Create a strong password for me.

☒ Specify the master database name

Here I have given the username as 'kpr' and enabled the create a strong password for me option . You can customize your own password by disabling it and create a password you need.

Step 7: Once you are done with the login credentials , click on the 'specify the master database name' option.

Master database name

The first database is created for you. You can enter a name, or make no entry to accept the default name
[Learn more about master database name requirements](#)

db

Your master database name is **dbaws**.

Step 8: Choose the database plan based on your needs like memory , storage , transfer capacities etc. Here I have chosen the \$15 plan for example.

Choose your database plan ?


Standard

High Availability

Standard plan databases are created in one Availability Zone only, with no redundancy

Sort by: Price per month Memory Processing Storage Transfer

First 90 days free				
\$15	\$30	\$60	\$115	
USD	USD	USD	USD	
\$15 USD	\$30 USD	\$60 USD	\$115 USD	Price per month
1 GB	2 GB	4 GB	8 GB	Memory
2 vCPUs	2 vCPUs	2 vCPUs	2 vCPUs	Processing
40 GB SSD	80 GB SSD	120 GB SSD	240 GB SSD	Storage
100 GB	100 GB	100 GB	200 GB	Transfer

 If you need to import more than 10 GB of data, we recommend choosing a larger database plan.
[Learn more](#)

For a limited time, new Lightsail customers can try the selected plan for free for three months.
[Learn more about the free trial in Lightsail.](#)

Step 9: Next under the 'Identify your Database' section enter a unique name for your Lightsail resources.


Identify your database

Your Lightsail resources must have unique names.

TAGGING OPTIONS

Use tags to filter and organize your resources in the Lightsail console. Key-value tags can also be used to organize your billing, and to control access to your resources.

[Learn more about tagging.](#) 

Key-only tags 

 Add key-only tags

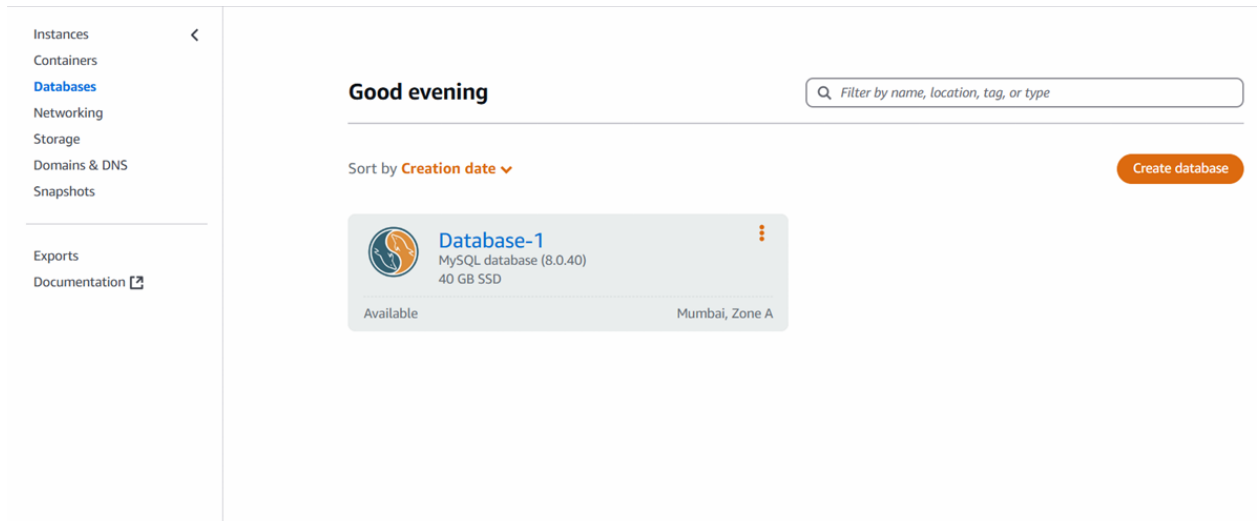
Key-value tags 

 Add key-value tag

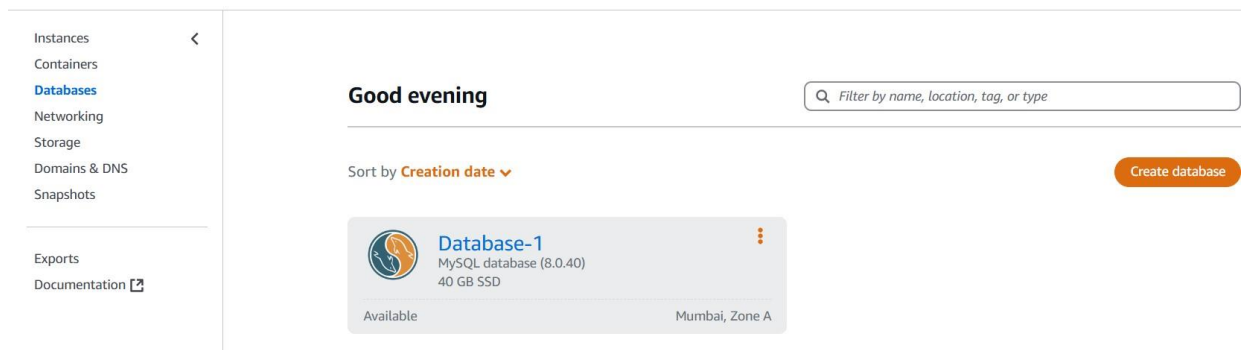
Create database

We can ignore the key-only and key-value tags .

Step 10: Click on Create database and wait for sometime as the database might take a while for launching .



Step 11 : After creating a MySQL Database in Amazon Lightsail, we start to connect a MySQL database from MySQL Workbench. This the already created database.



Step 12 : After Let into Database. Then click the option “Networking”.



Database-1

1 GB RAM, 2 vCPUs, 40 GB SSD
MySQL database (8.0.40)
Mumbai, Zone A (ap-south-1a)

Stop

Reboot

Status: **Available**

Endpoint: **ls-58efc54f059f90a7a9ea4235d7c48832c4385b9b.cl6246us8vr1.ap-south-1.rds.amazonaws.com**

Port: **3306**

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Network security



Public mode

When public mode is enabled, anyone with your database user name and password can connect to it. When this mode is disabled, only your Lightsail resources in the same Region as your database can connect to it.

Public mode is **disabled**.

Step 13 : After get into the “Networking”, then enable the “Networking security Public mode”.



Database-1

1 GB RAM, 2 vCPUs, 40 GB SSD
MySQL database (8.0.40)
Mumbai, Zone A (ap-south-1a)

Stop

Reboot

Status: **Available**

Endpoint: **ls-58efc54f059f90a7a9ea4235d7c48832c4385b9b.cl6246us8vr1.ap-south-1.rds.amazonaws.com**

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Network security



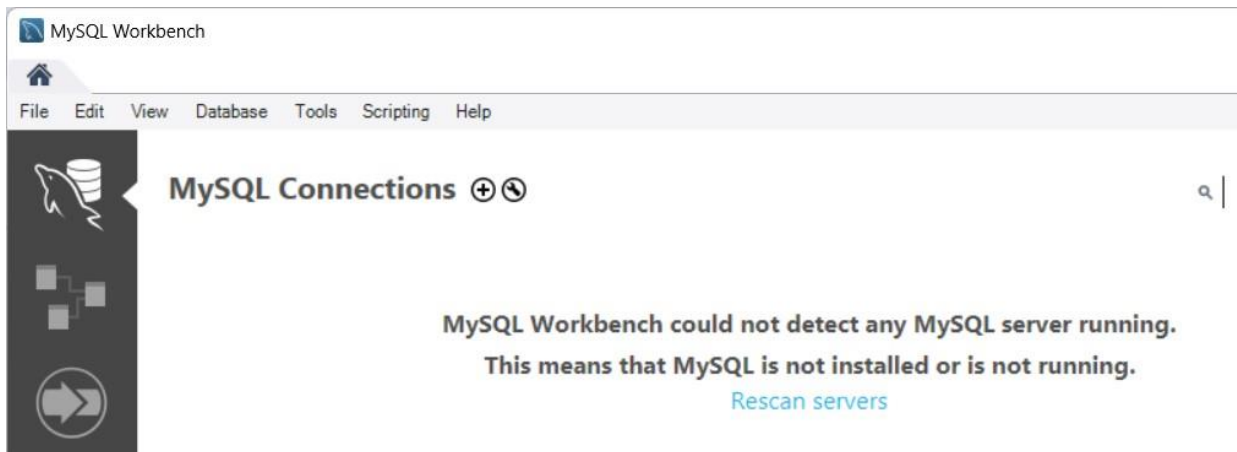
Public mode

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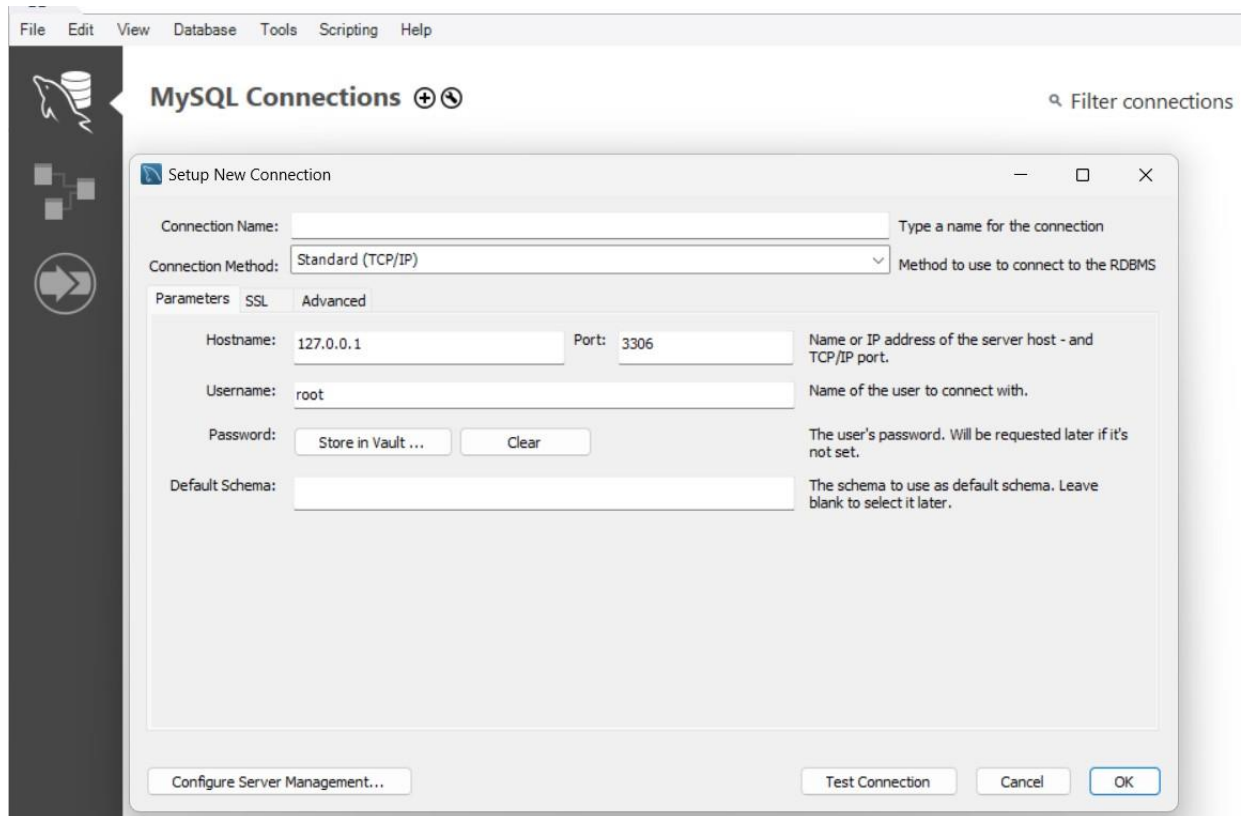
Public mode is **enabled**.

 **Anyone with your database user name and password can connect to it.**

Step 14 : After completing this process, open the MySQL Workbench and press the plus icon.



Step 15 : While pressing that icon, it take you to the new page.



Step 16 : In this page, we want copy the MySQL database's endpoint as Hostname, Username and give the Connection name (here I use kpr-db as the connection name).

MySQL Connections

Filter connections

The screenshot shows the 'Setup New Connection' dialog box in MySQL Workbench. The 'Connection Name' is 'kpr-db'. The 'Connection Method' is 'Standard (TCP/IP)'. The 'Parameters' tab is selected, showing the 'Hostname' as '6us8vr1.ap-south-1.rds.amazonaws.com', 'Port' as '3306', 'Username' as 'kpr', and 'Password' as 'Store in Vault ...'. The 'Default Schema' is empty. The 'Test Connection' button is highlighted.

Connection Name: kpr-db Type a name for the connection

Connection Method: Standard (TCP/IP) Method to use to connect to the RDBMS

Parameters SSL Advanced

Hostname: 6us8vr1.ap-south-1.rds.amazonaws.com Port: 3306 Name or IP address of the server host - and TCP/IP port.

Username: kpr Name of the user to connect with.

Password: Store in Vault ... Clear The user's password. Will be requested later if it's not set.

Default Schema: The schema to use as default schema. Leave blank to select it later.

Configure Server Management... Test Connection Cancel OK

Step 17 : Then click the Button “Store in Vault”, after that it will ask password and it also copy the password from MySQL Database, paste it. Then click “OK”.

The screenshot shows the 'Store Password For Connection' dialog box in MySQL Workbench. The dialog asks for the password for the service 'Mysql@ls-58efc54f059f90a7a9ea4235d7c48832c4385b9b.d6246us8vr1.ap-south-1.rds.amazonaws.com:3306'. The 'User' is 'kpr'. The 'Password' field is empty. The 'OK' button is highlighted.

Setup New Connection

Connection Name: kpr-db Type a name for the connection

Connection Method: Standard (TCP/IP) Method to use to connect to the RDBMS

Parameters SSL Advanced

Hostname: 6us8vr1.ap-south-1.rds.a Username: kpr Password: Store in Vault ... Default Schema:

Store Password For Connection

Please enter password for the following service:

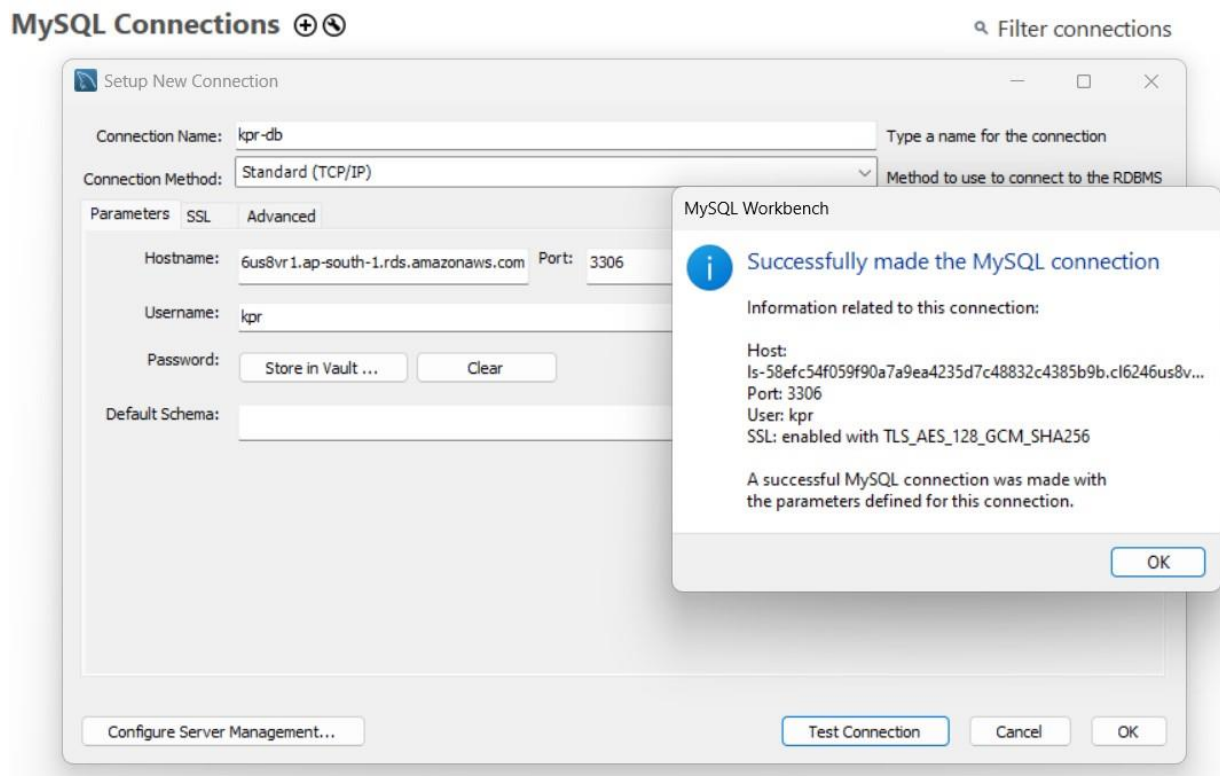
Service: Mysql@ls-58efc54f059f90a7a9ea4235d7c48832c4385b9b.d6246us8vr1.ap-south-1.rds.amazonaws.com:3306

User: kpr

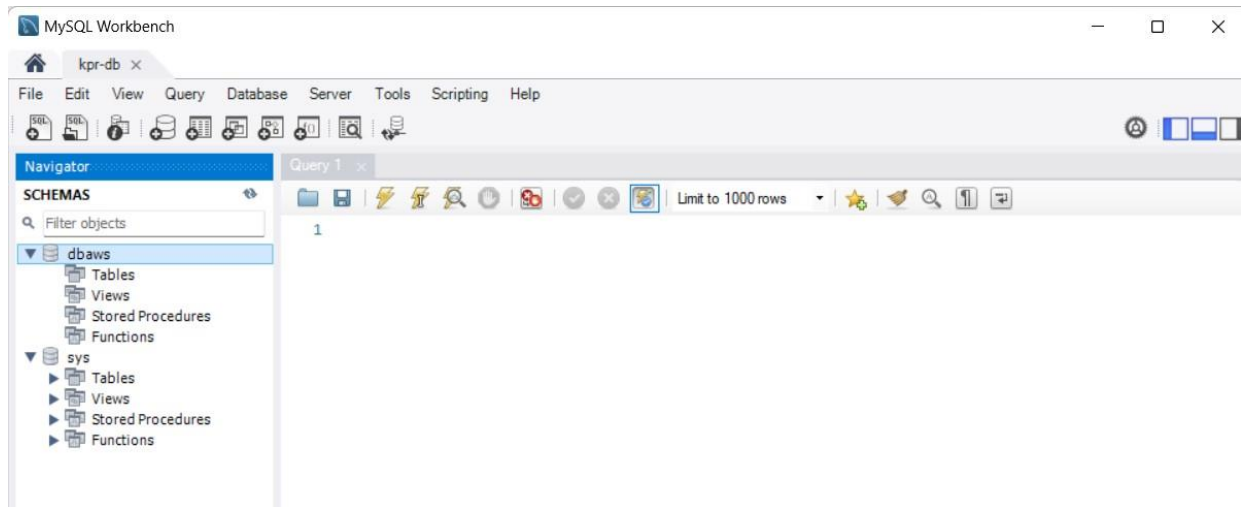
Password:

OK Cancel

Step 18 : After completing this process, click “Test Connection” and it will take sometime to connect. After connecting click the option “OK”.



Step 19 : Then it will open the MySQL Workbench page. Now the MySQL Database connected to MySQL Workbench.



Note: Don't forget to delete your database at the end. If you forget to delete the database, it will be charge.

Here are few steps on deleting the database.

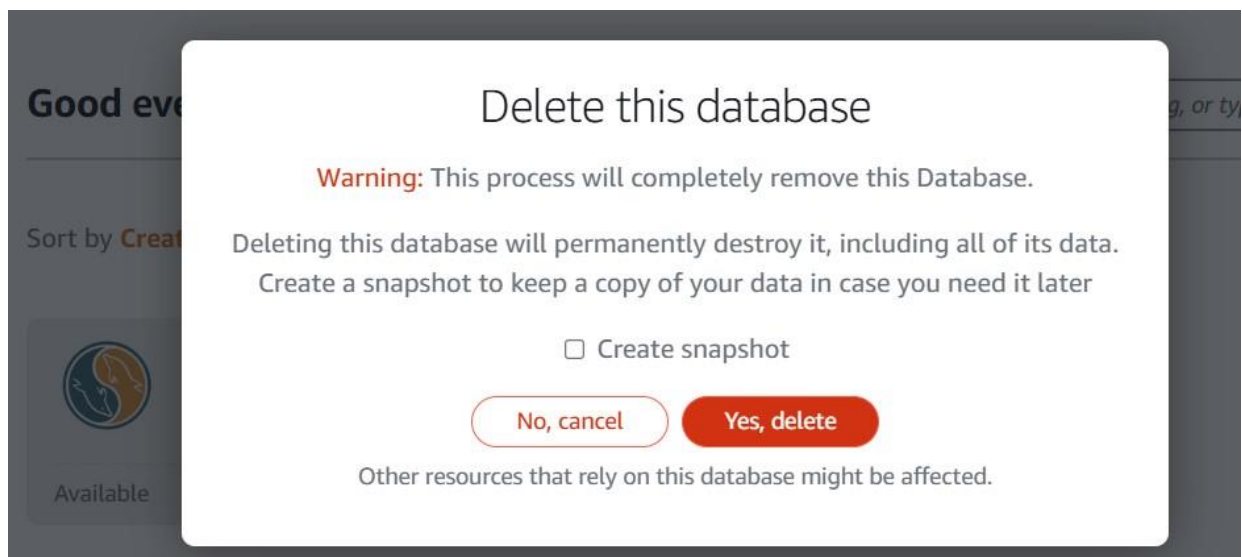
- Click on the three dots present in the upper right corner of the database.



- Click on the delete option .



- Click on the Yes,delete option under 'delete the database' popup.



Here I have disabled the option of Create snapshot as I don't want to keep a copy of my data . You may enable it if you need .

Click to “Yes, delete” and the MySQL Database is deleted.