

**Subject: Cloud Architecture And Protocol** 

Name of the Student: Sahil S. Mandawgade PRN: 20220802265

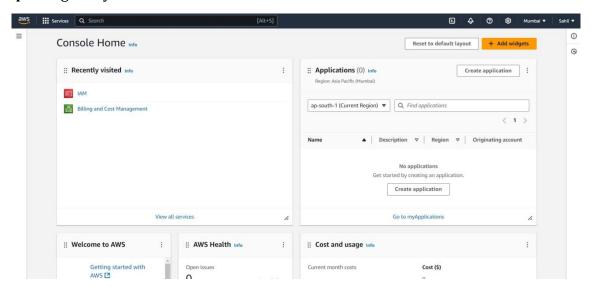
Title of Practical: 1. AWS RDS: Configuring Multi-Connection MySQL

**Endpoints for Seamless Connectivity via MySQL** 

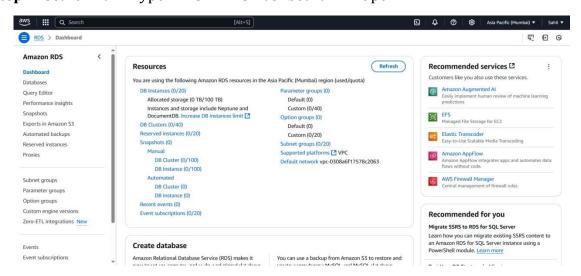
Workbench.

#### **Procedure:**

**Step 1**: Login to your AWS Console.



Step 2: Search Bar - Type "RDS" - RDS Dashboard will Open.



**Step 3:** Select Databases from left sidebar - Select "Create Database".



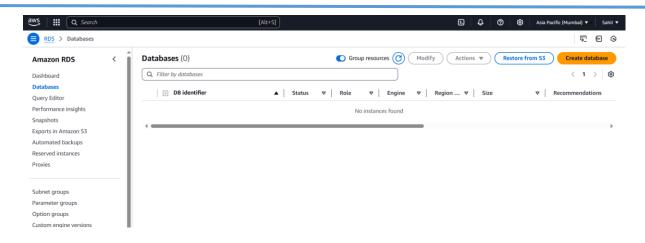
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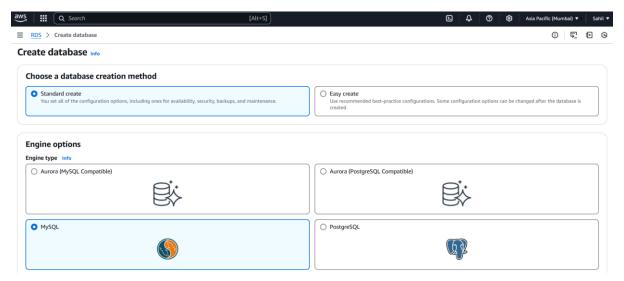
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**Step 4:** Select "Standard" option in database creation method and select "MySQL" in Engine Type.



Scroll down and Select "Free Tier" Option under Templates.



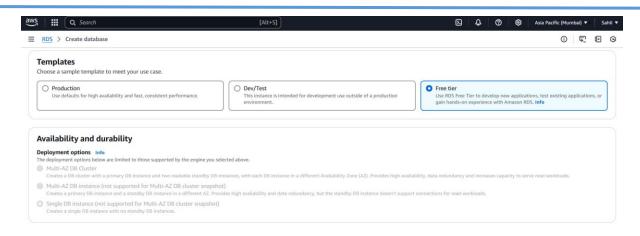
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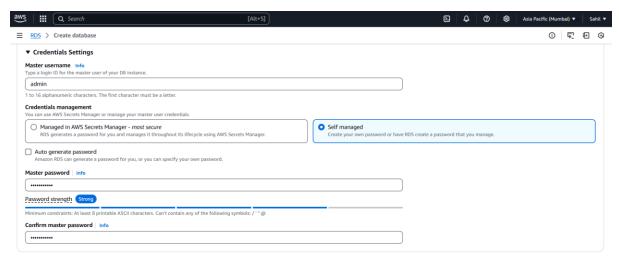
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Assign your DB Instance name - Keep Master Username as Admin only - Select Self-Managed for Credentials Management - Type in your password and confirm it.



Allot it 5GB in storage tab - Connectivity Tab - Keep everything as it is, just update Public Access to "YES" and VPC Security Group to your Existing SG.



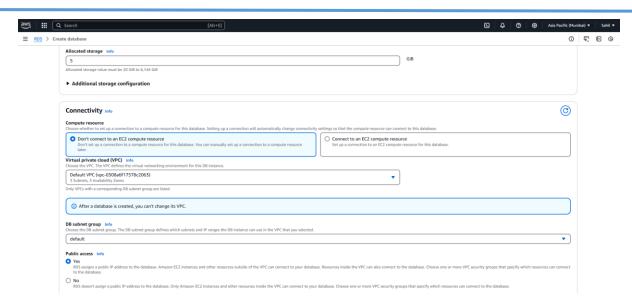
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Additional Information - Assign Initial Database Name - Untick 'Monitoring, backup, deletion protection and encryption' as they demand extra charges and choose 'No preference' under 'Maintenance window'. - Click on "Create Database".

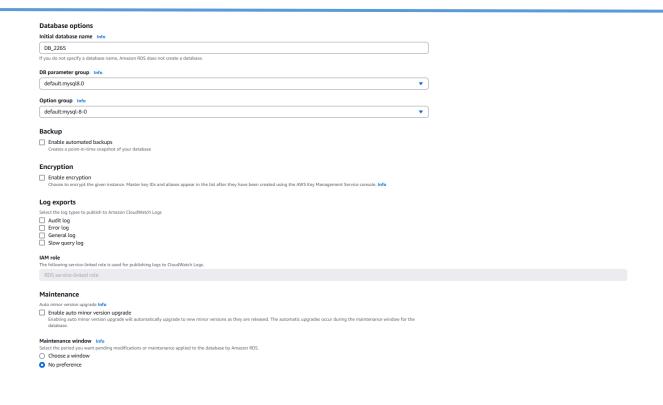


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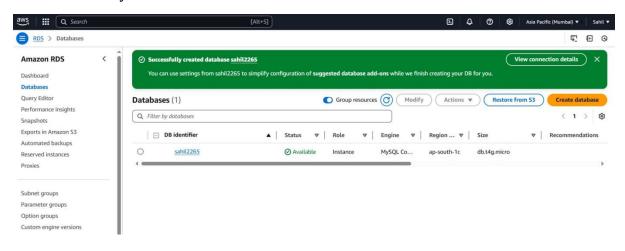
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#### RDS Successfully created!





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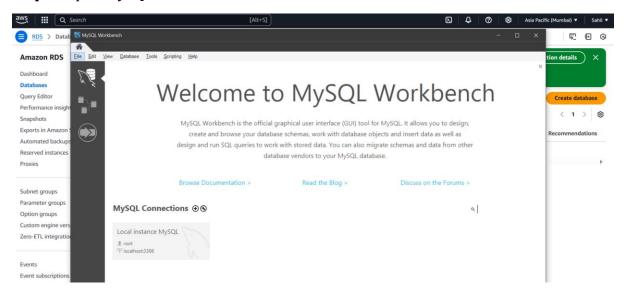
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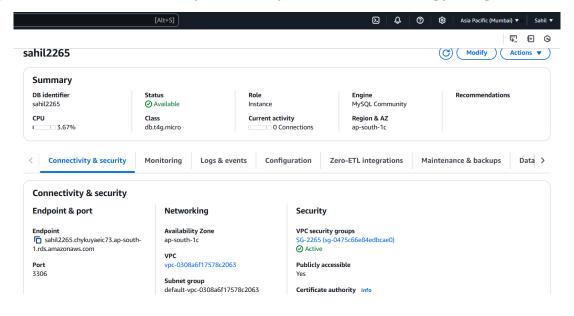
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**Step 5:** Open MySQL Work Bench.



Open AWS - Go to RDS - Select your recently created database - copy End point URL.





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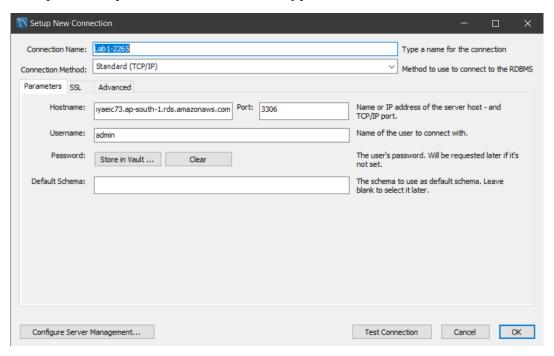
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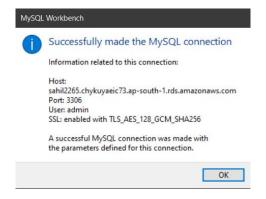
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Go back to MySQL - Click on the "+" icon near keyword "connections" above your local instance - paste end point into hostname and type "admin" in the username column.



Test Connection - Enter Your Master Password you assigned while creating the database.





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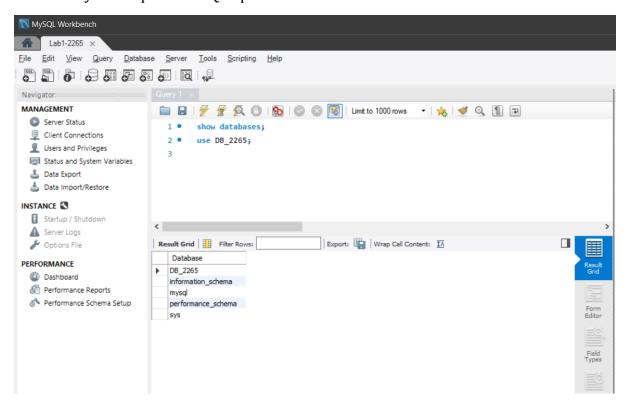
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As you can see, we have successfully accessed our RDS created on AWS from our local machine - you can perform SQL operations on it as well.



#### **Step 6:** Deletion Process:

RDS - Delete connection from your MySQL.

Go to AWS Console - RDS - Snapshots - Check whether there is any snapshot - just to be sure as it will pile up charges without you knowing.



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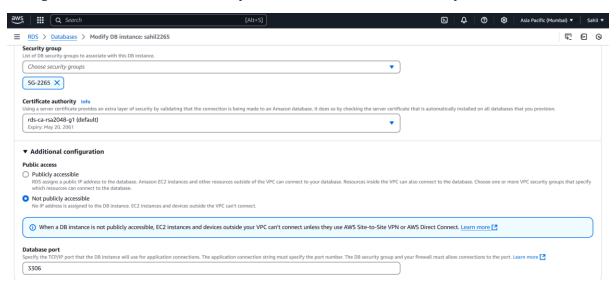
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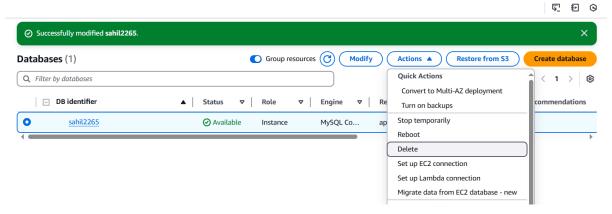
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Go to Databases - Select your Database - Modify - Scroll down to additional configuration > select "Not Publicly Accessed" - Continue to Modify DB Instance.



Select Database - Actions - Click Delete.



Untick "Create final snapshot" - Check the Acknowledgement Box - Confirm deletion by typing "delete me" in the respective box.