SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

# Enterprise Standards and Best Practices for IT Infrastructure

**4th Year 2nd Semester 2014**

## Lab Report

**Lab 3 -** Creating an Amazon RDS Database


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Practical Number: Lab 3

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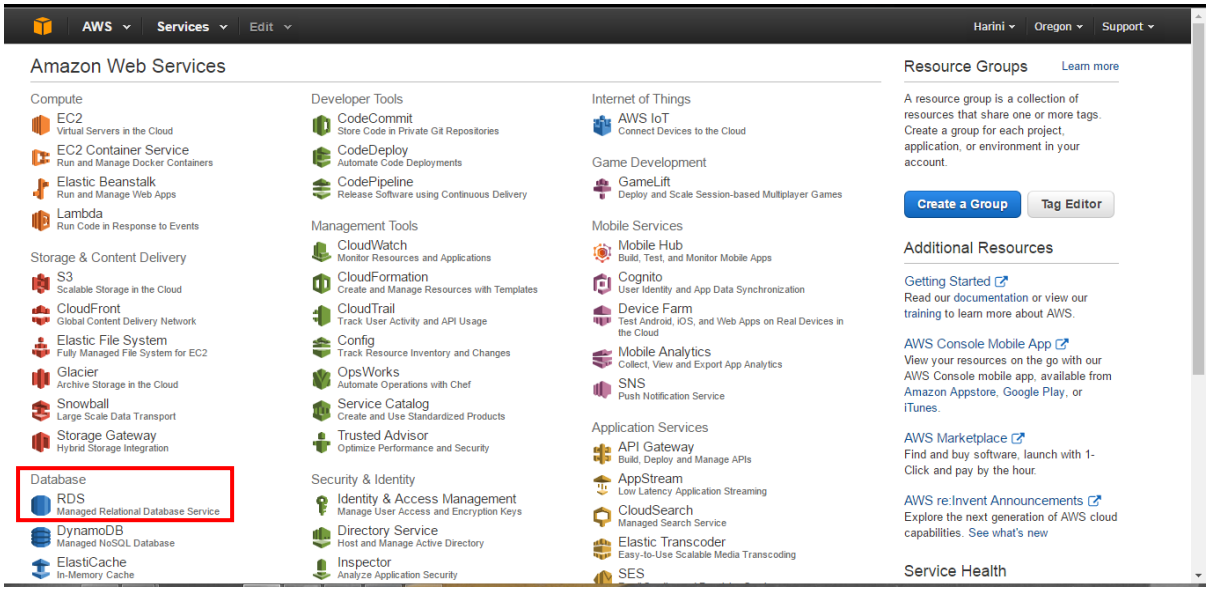
# 1. Creating a MySQL DB Instance

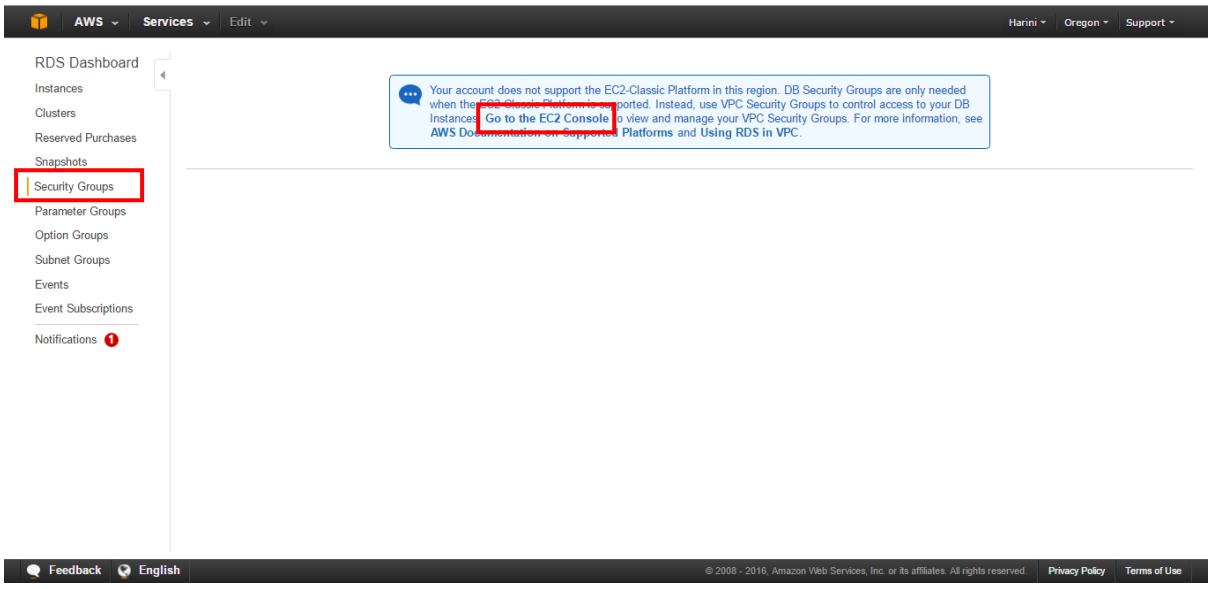
Step 1: First go to **Amazon RDS console**. (Amazon Web Services -> Database -> RDS)



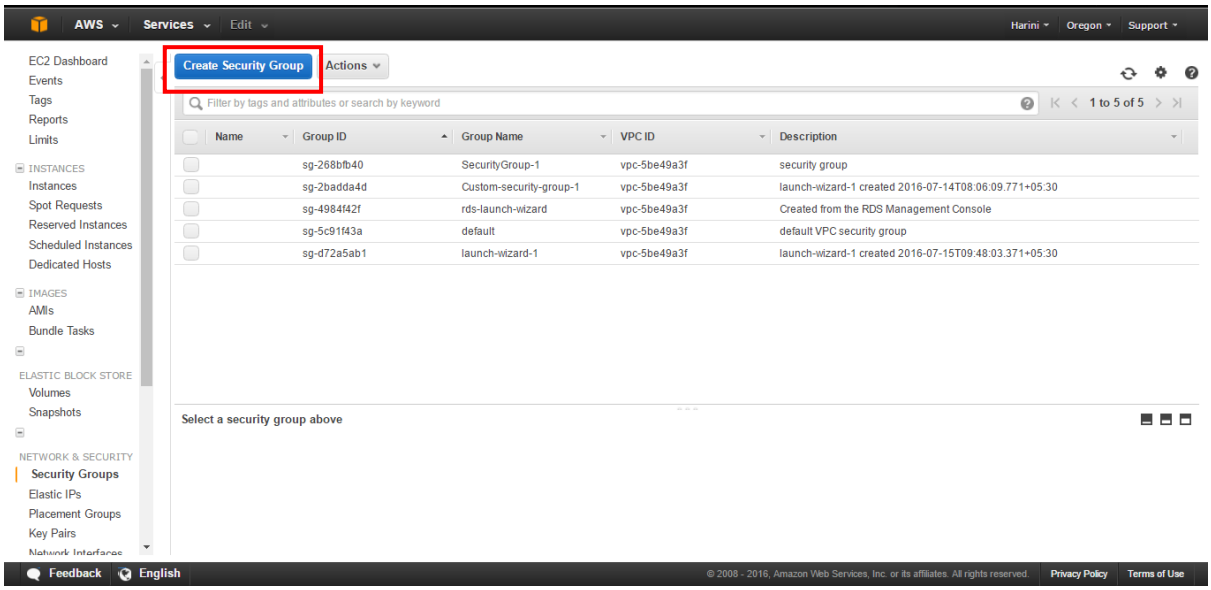

Step 2: <u>Create a Security Group</u>

1. In the **RDS Dashboard** navigation pane, choose **Security Groups**. Select **Go to the EC2 Console** to manage security groups.

   This will redirect to the EC2 dashboard.

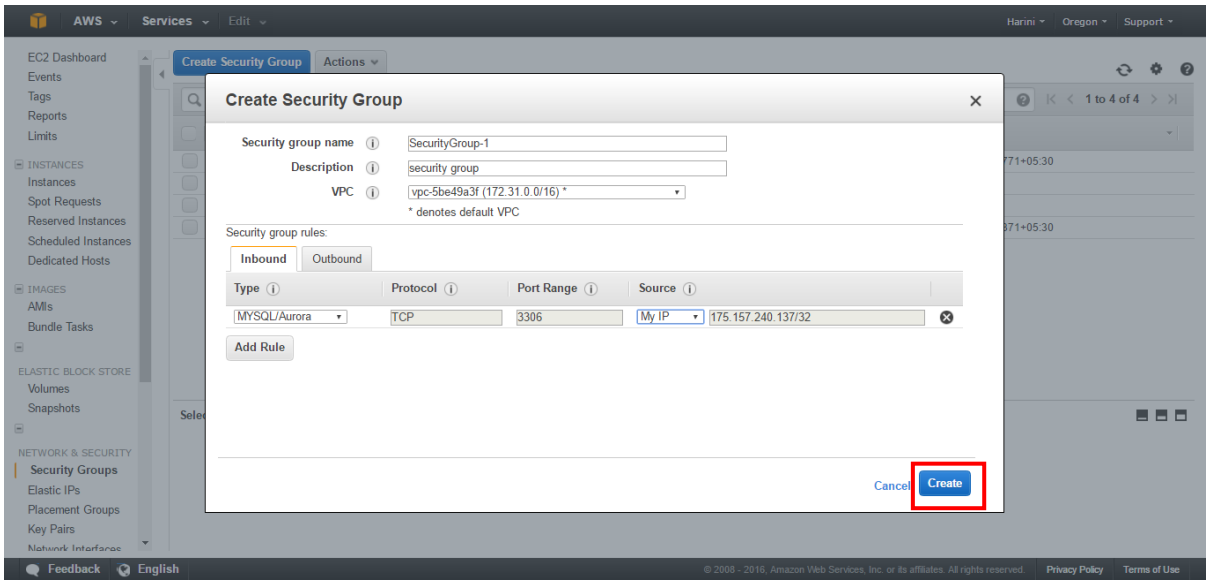


2. In the EC2 Console select **Create Security Group**.



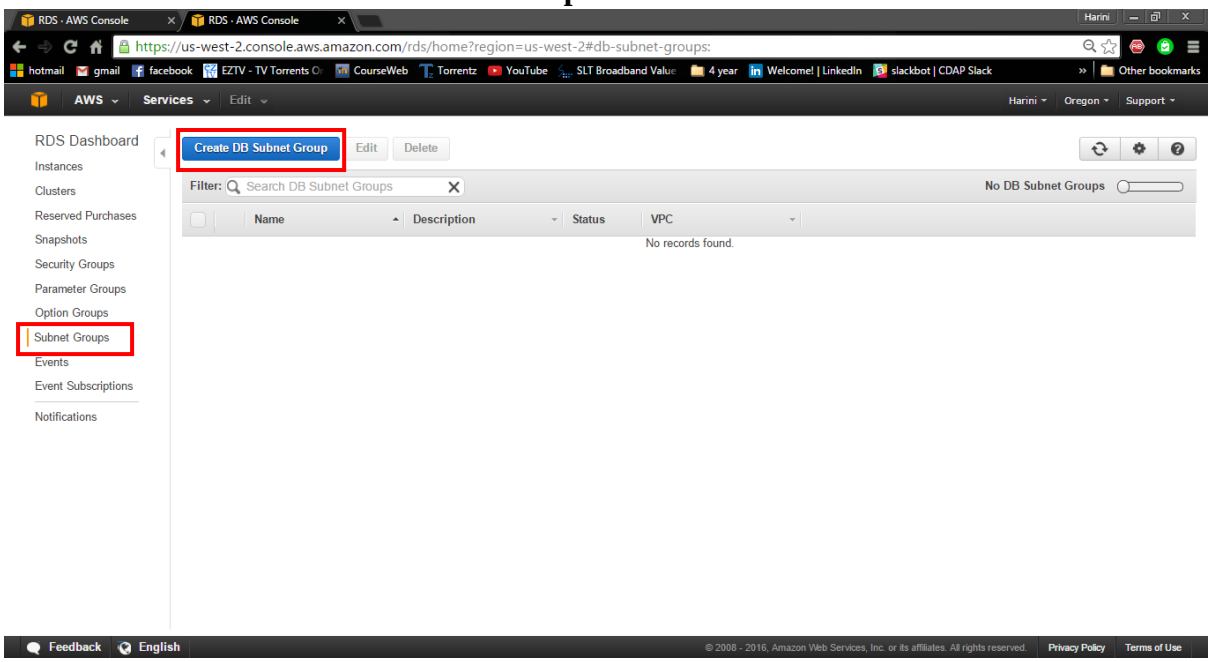

3. Enter **Security group name** of the security group (SecurityGroup-1) and provide a **Description**.

   Select the ID of the VPC from the **VPC** menu and select **Create**.



Step 3: Create a DB Subnet Group

1. In the **RDS Dashboard** navigation pane, choose **Subnet Groups**.
   Select **Create DB Subnet Group**.

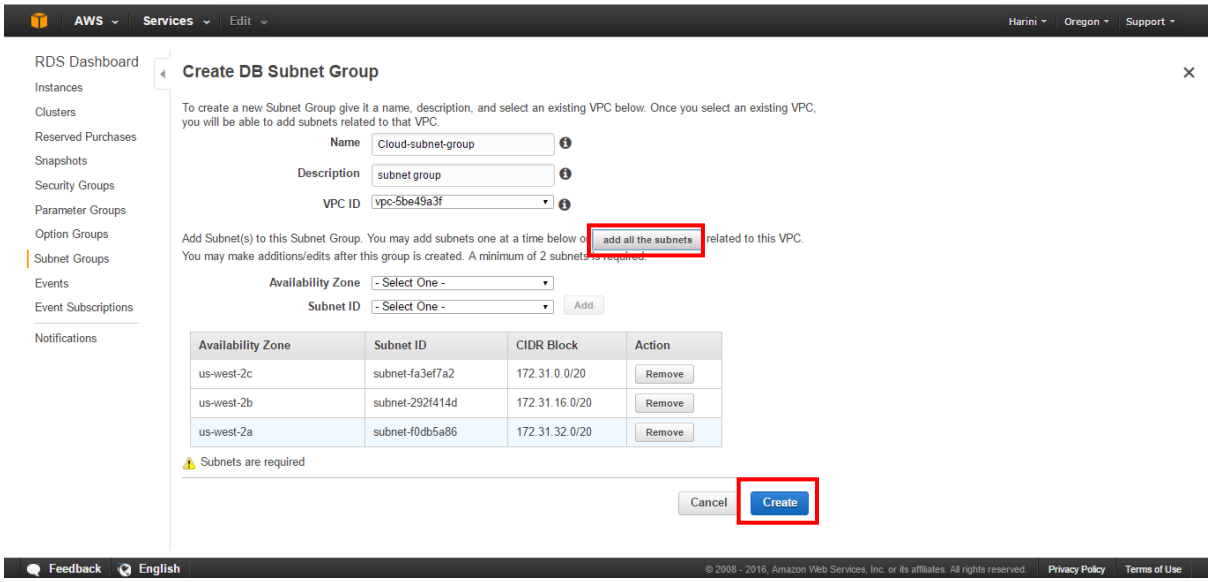



2. For **Name**, type the name of the DB subnet group. (Cloud-subnet-group)

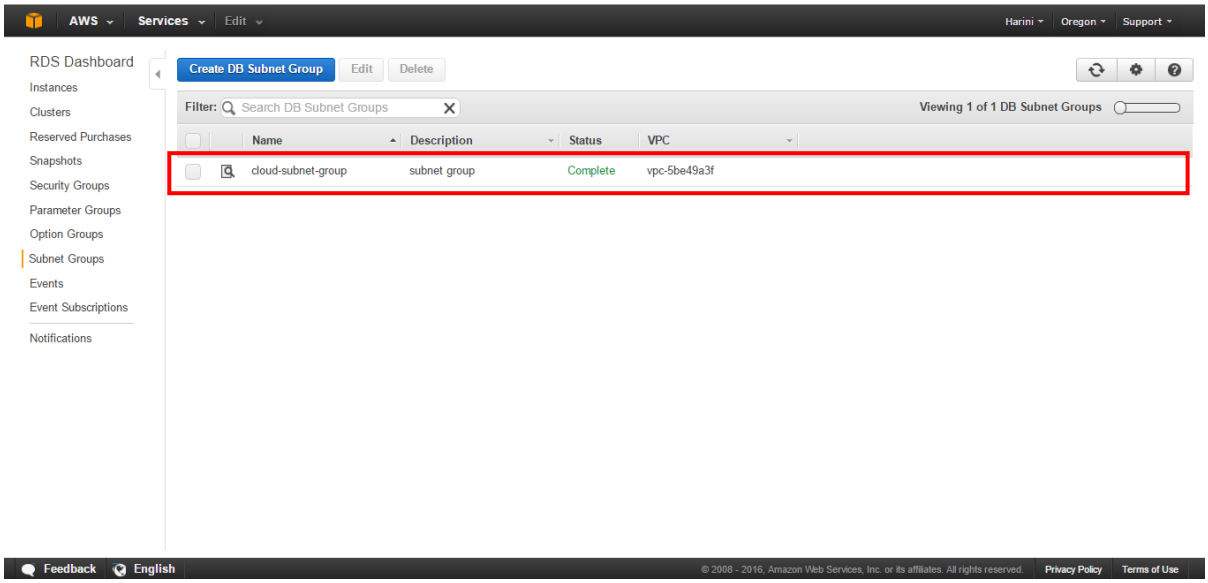
   For **Description**, type a description for the DB subnet group.

   For **VPC ID**, choose the VPC created.

   In the **Add Subnet(s) to this Subnet Group** section, click the **add all the subnets** link.

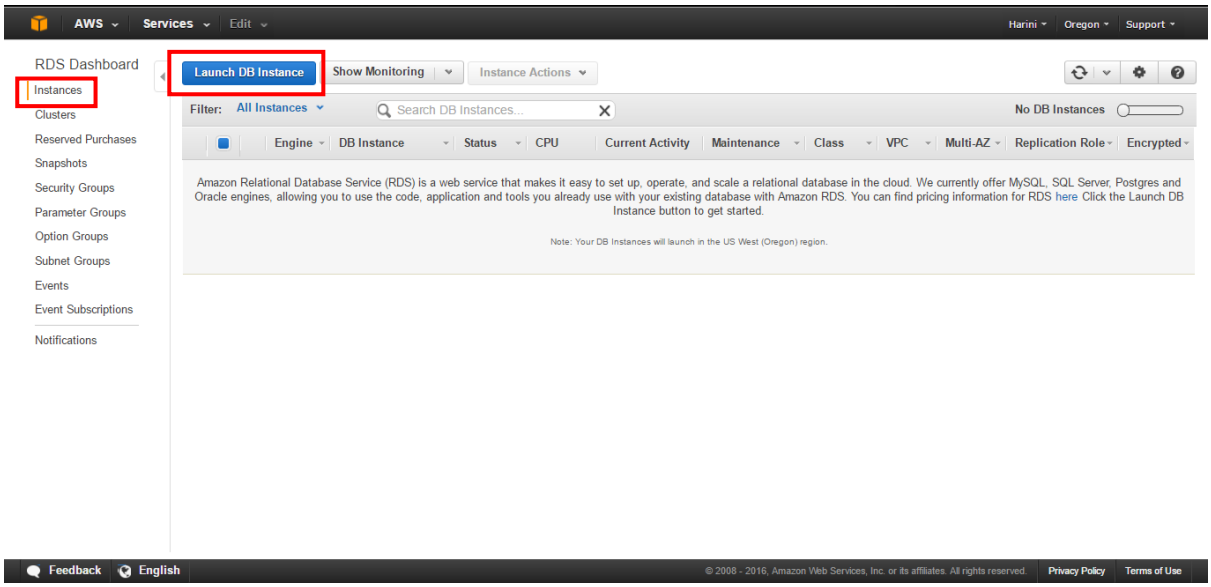


3. Select **Create**.




Step 4: In the **RDS Dashboard** navigation pane, choose **Instances**.

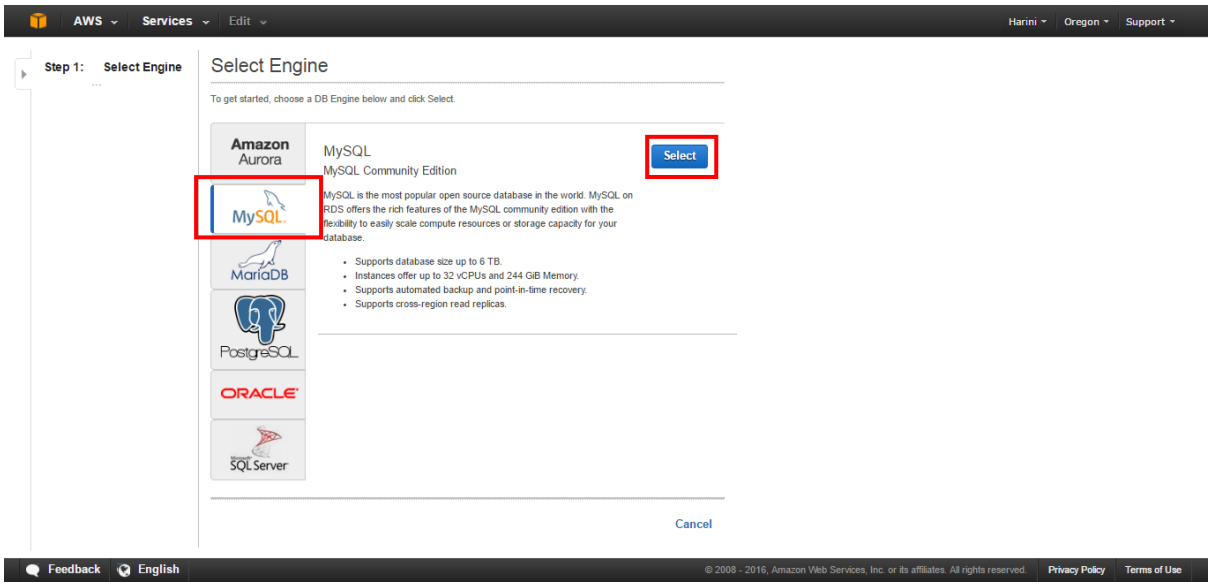
Select **Launch DB Instance**.




The **Launch DB Instance Wizard** opens.

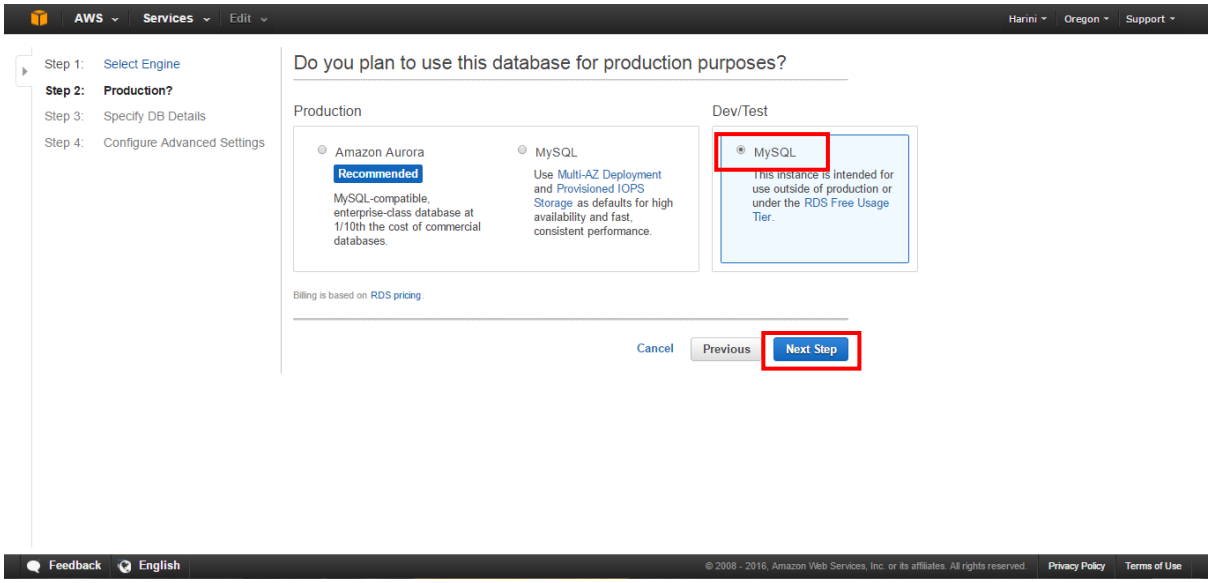
Step 5: Select Engine

Choose the **MySQL** icon and then **Select** for the MySQL DB engine.




Step 6: Production?

It asks whether Do you plan to use this database for production purposes.
Choose **Dev/Test (RDS free Usage Tier).**
Select **Next Step** to continue.



Step 7: Specify DB Details

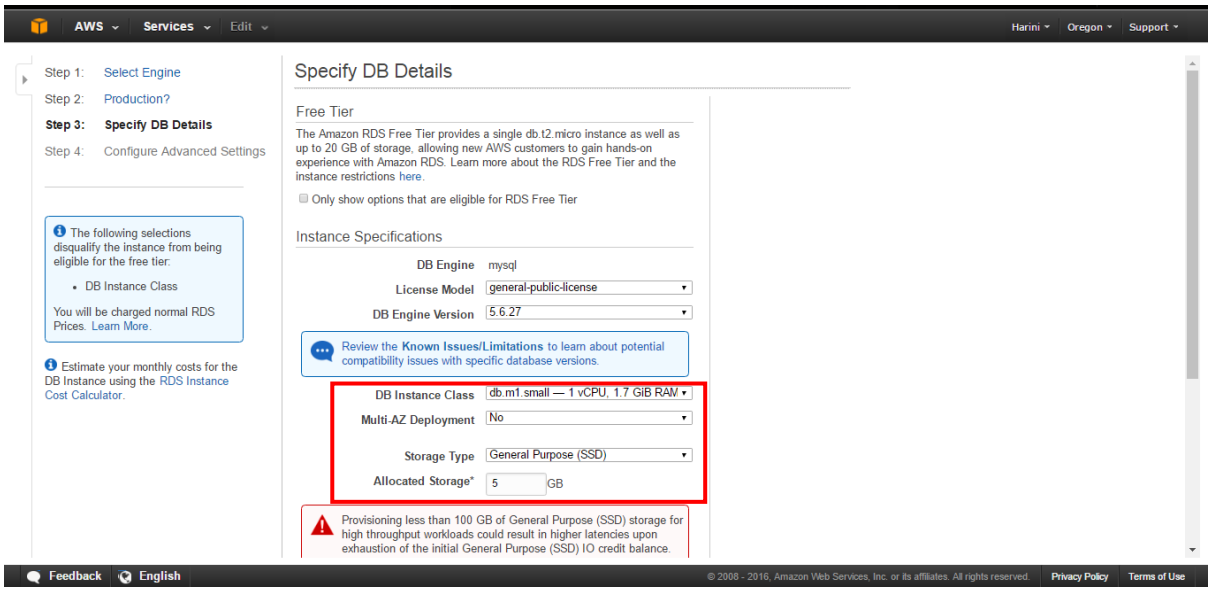
On the **Specify DB Details** page, specify the DB instance information.

Choose **db.m1.small** as **DB Instance Class**.

Select **No** for **Multi-AZ Deployment**.

**Storage Type** is **General Purpose (SSD).**

**Allocated Storage** is **5 GB** of storage for your database. (for free tier)

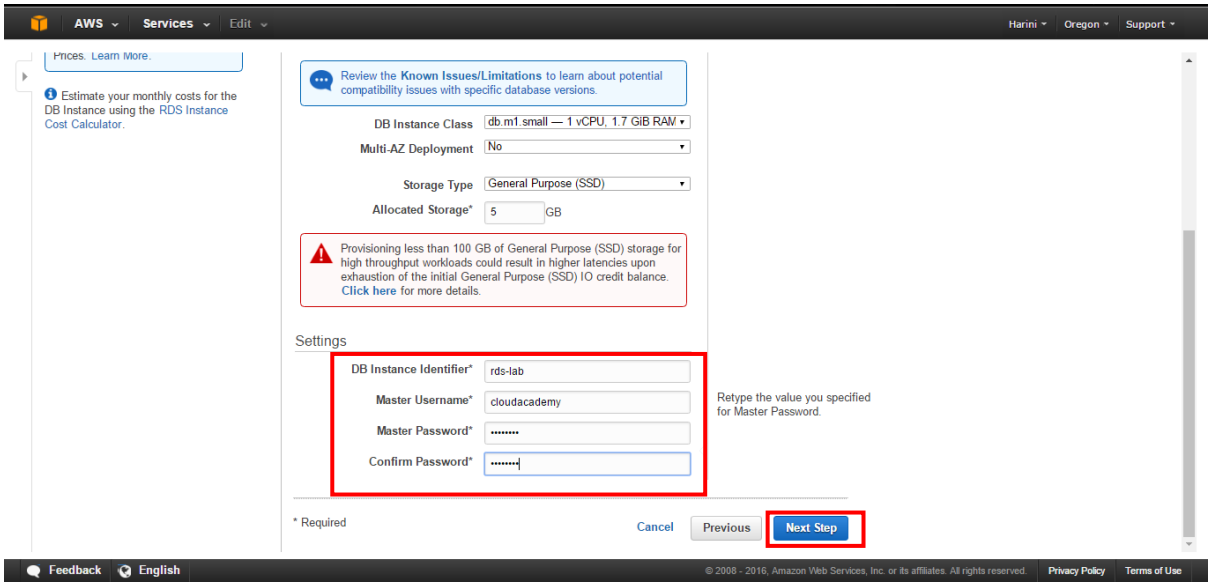



Type a name for the DB instance that is unique for the account for the **DB Instance Identifier.** (rds-lab)

Type a name using alphanumeric characters that will use as the **Master Username** to log on to your DB instance. (cloudacademy)

Type a password that contains from 8 to 41 printable ASCII characters (excluding /,", and @) for your **Master Password** and Confirm Password.

Select **Next Step**.

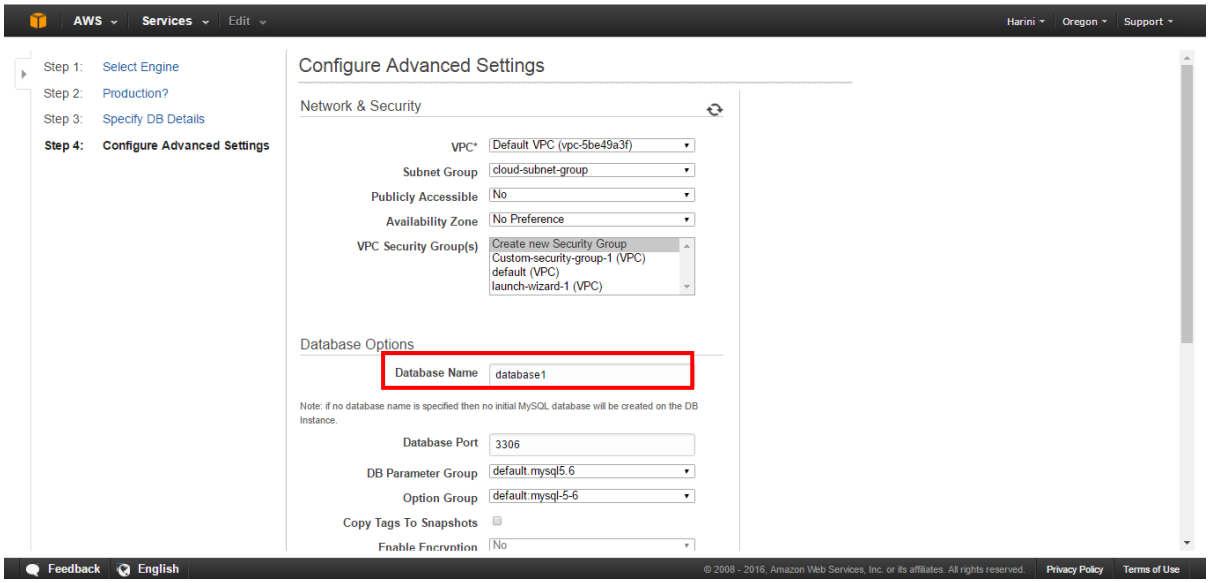



## Step 8: Configure Advanced Settings

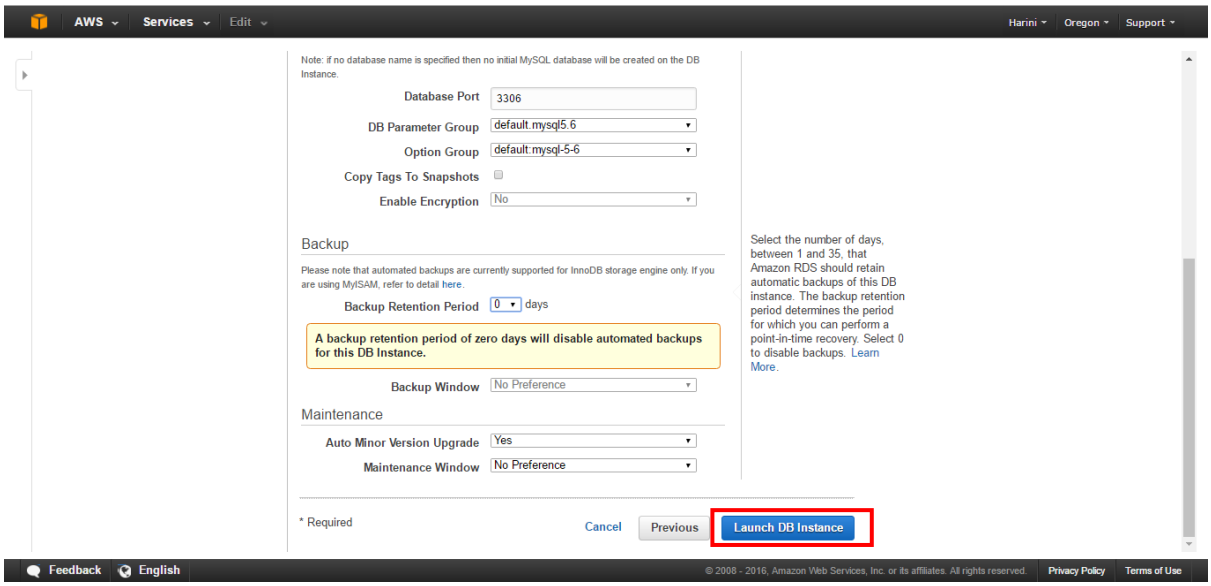
Choose the created **Subnet Group**. (Cloud-subnet-group)

Choose **Publicity Accessible** as **No.**

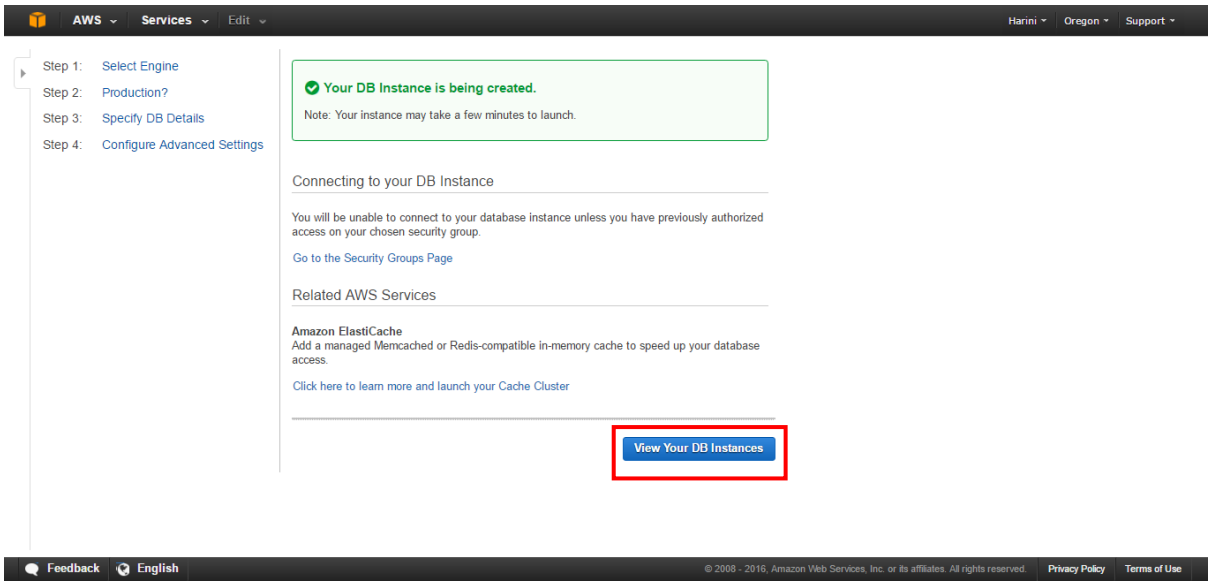
Type a **Database name.** (database1)



Select **Launch DB Instance**.

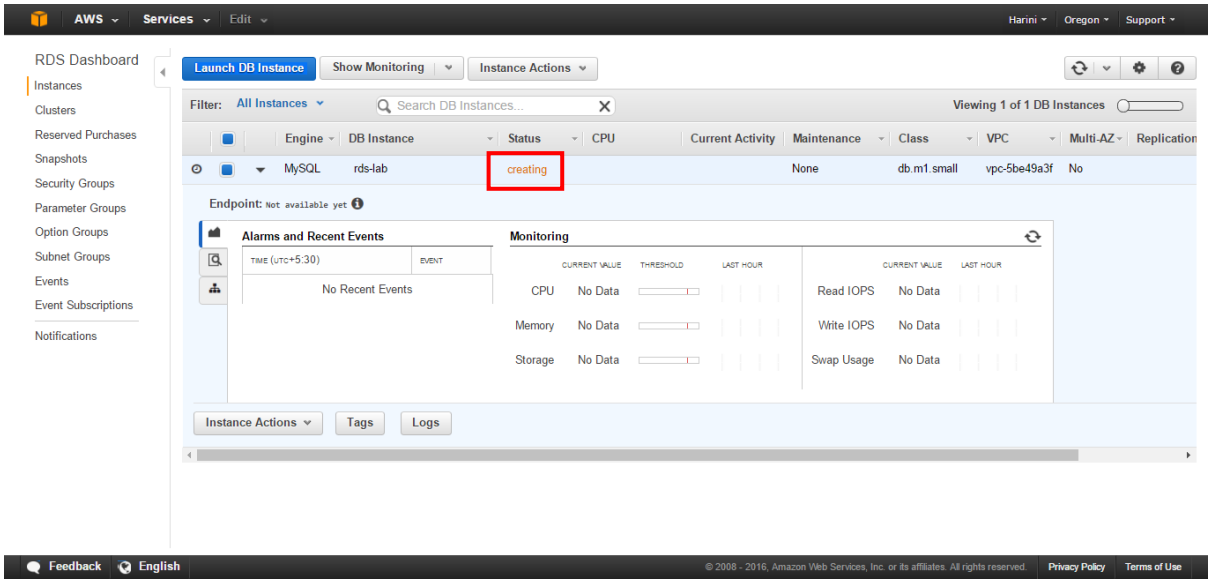


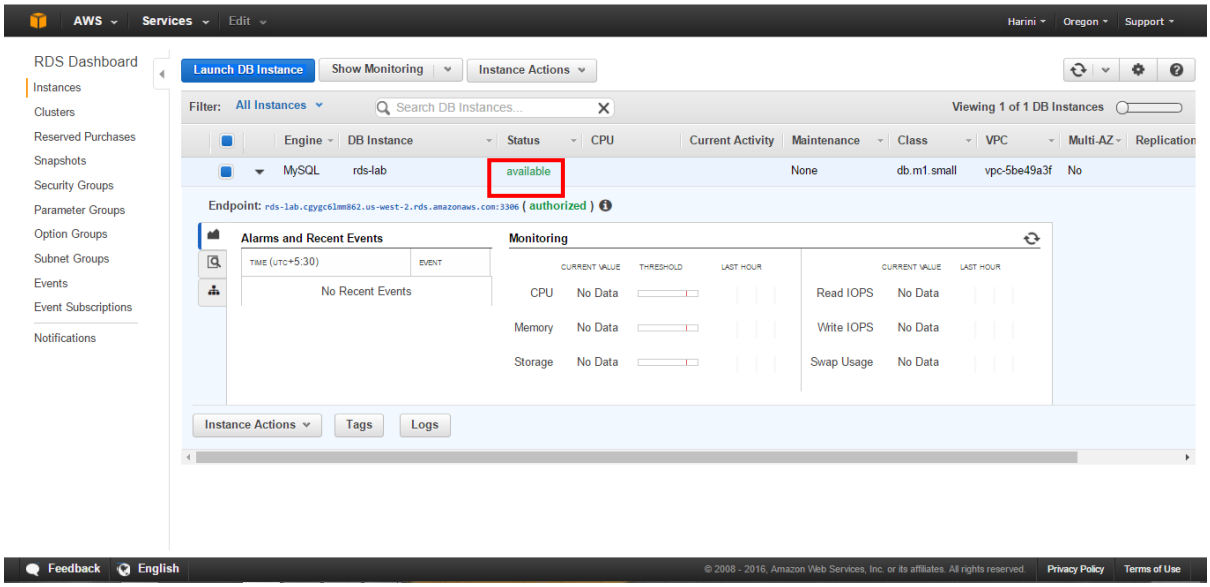

Step 9: Choose **View Your DB Instances** after launching.



Step 10: View the status of the instance on the Instances windows.

It takes time for an instance to launch. When launching an instance, the initial state is **creating**. After the instance starts, the state changes to **available**.



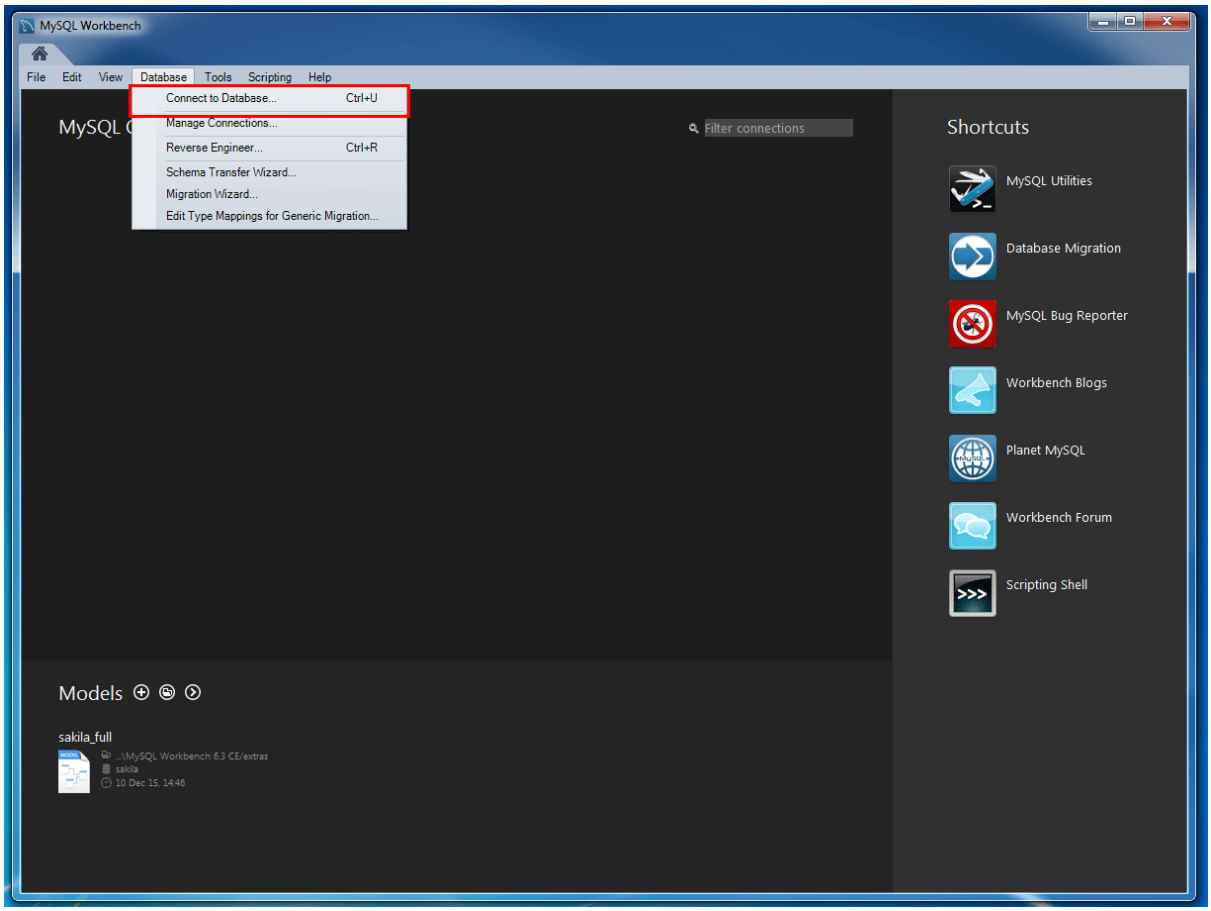



## 2. Connect to the MySQL Database

Once the database instance is created, it is possible to connect to a database on the DB instance using any standard SQL client. This step use **MySQL Workbench** SQL client.

Step 1: Launch the MySQL Workbench application.

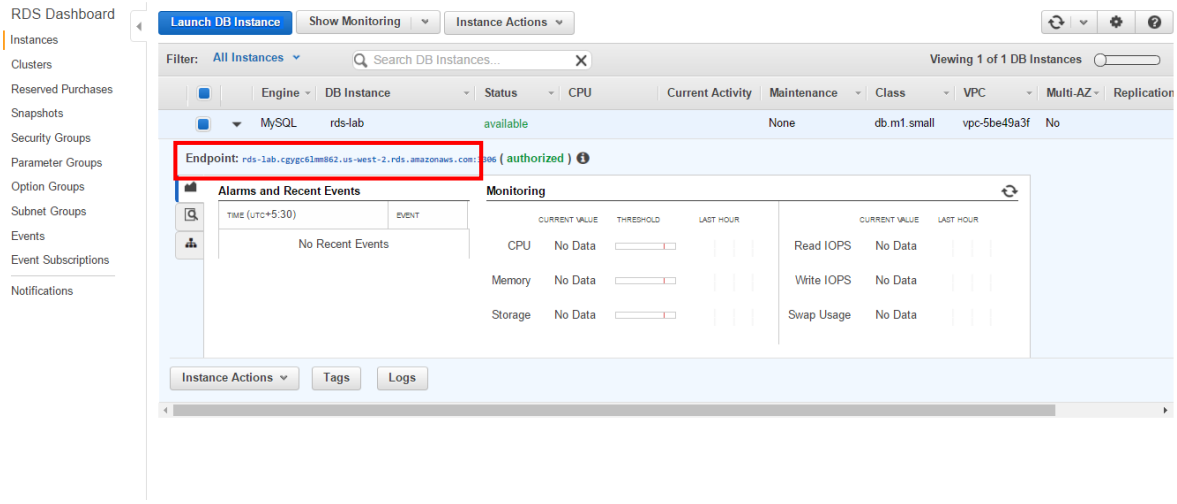
Go to **Database**, then select **Connect to Database** from the Database menu bar.



Step 2: Connect to database

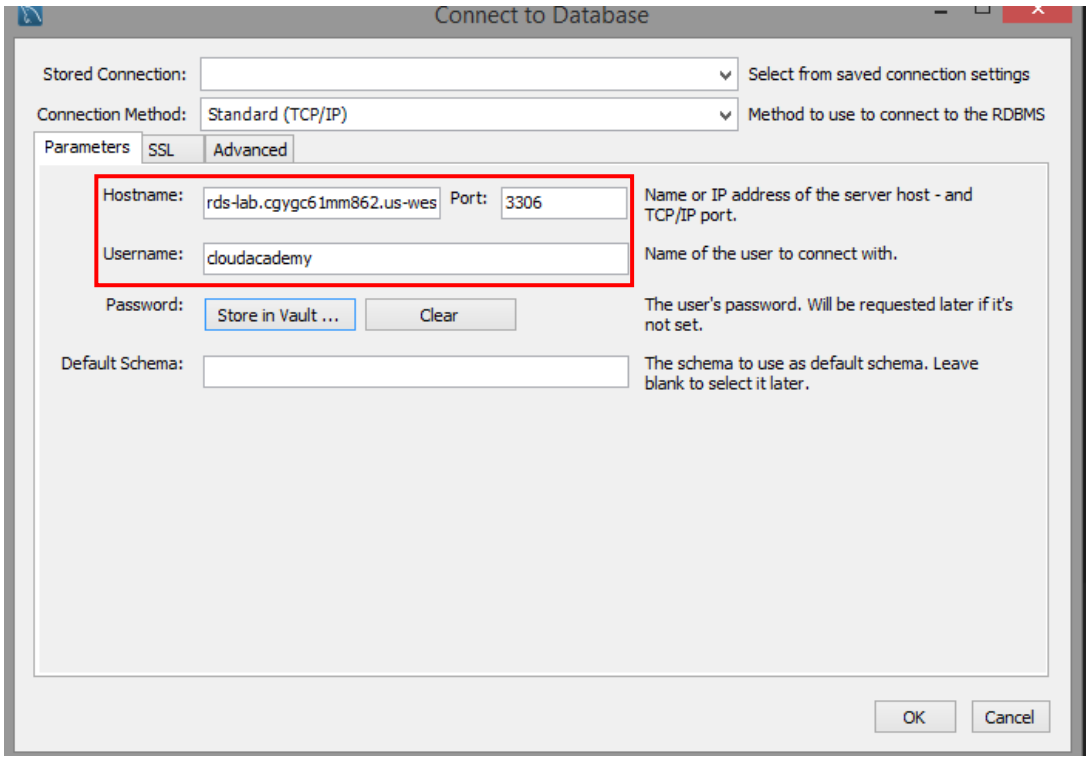
**Hostname** is the Endpoint value of the created DB instance.

(rds-lab.cgygc61mm862.us-west-2.rds.amazonaws.com)

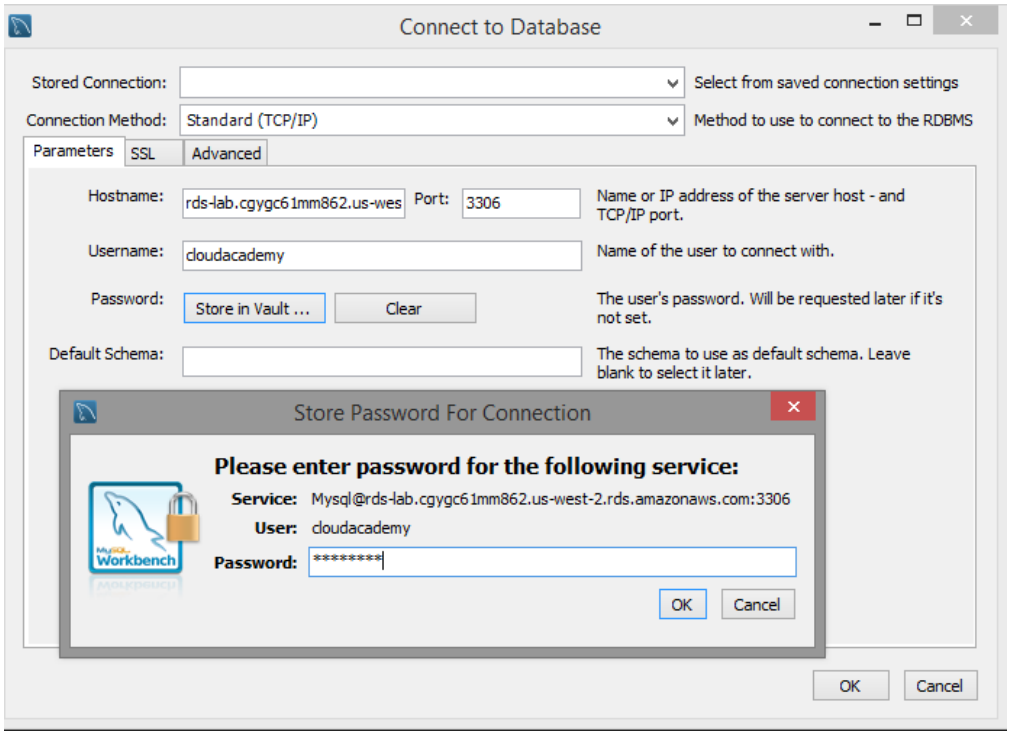


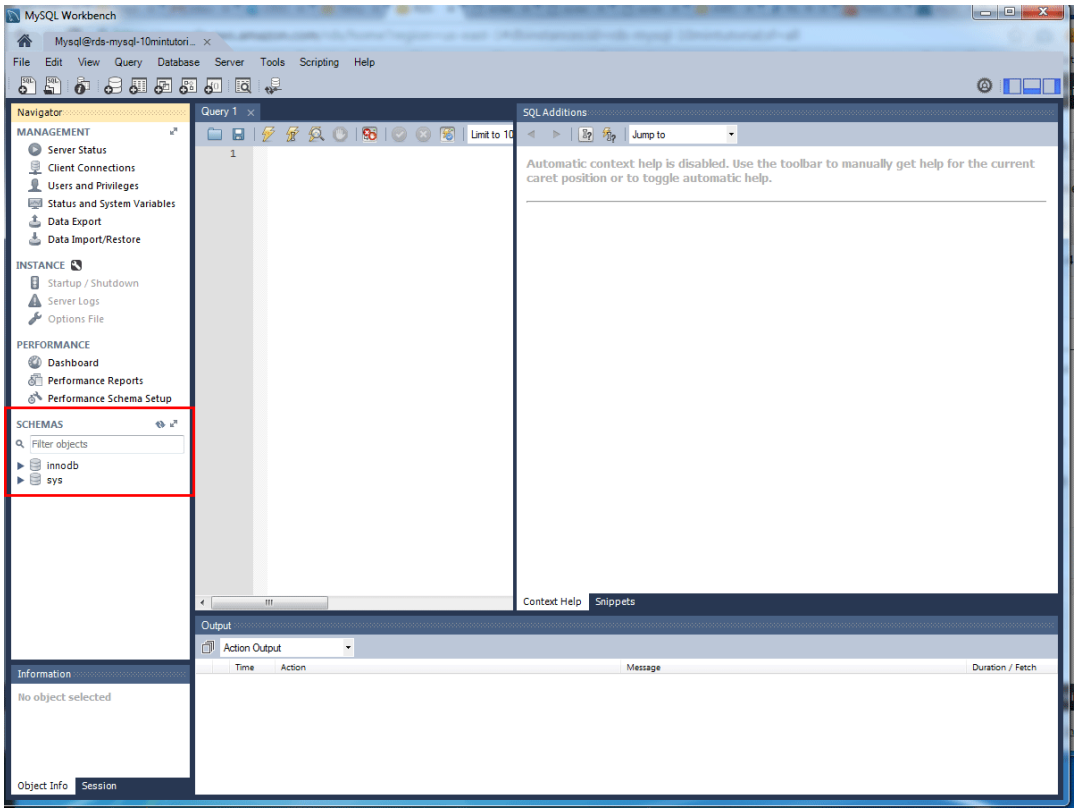

**Port**: the default value should be **3306**.

**Username**: Type in the Master Username created for the Amazon RDS database.



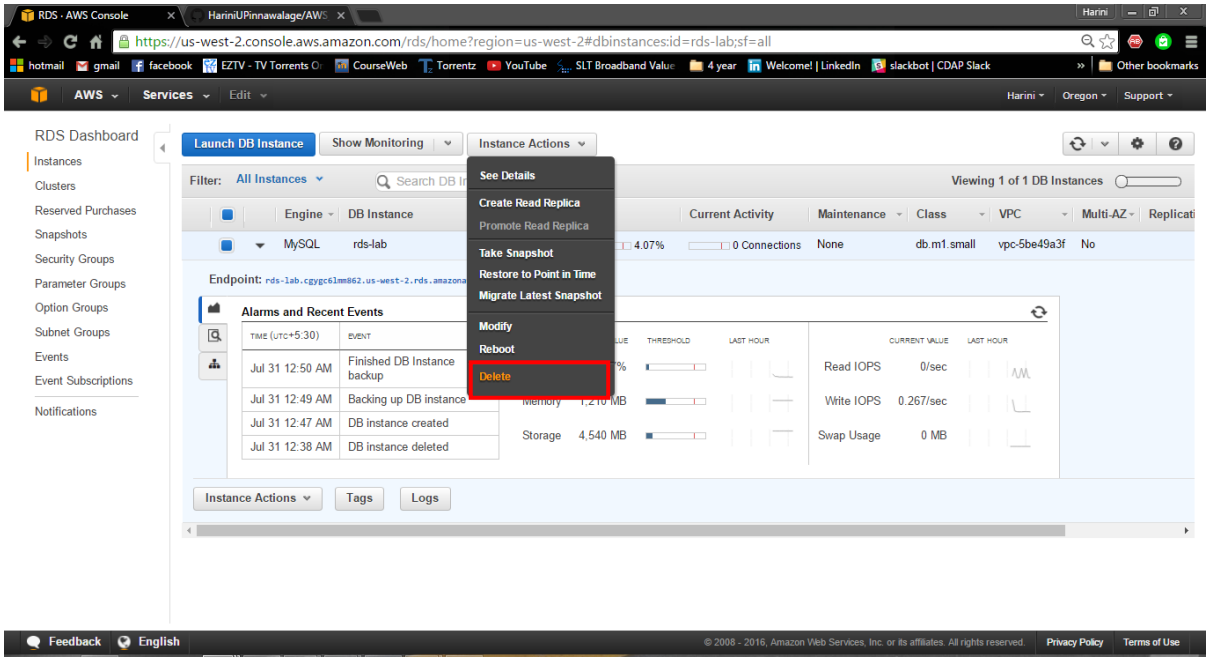
Step 3: Enter the password used while creating the Amazon RDS database.



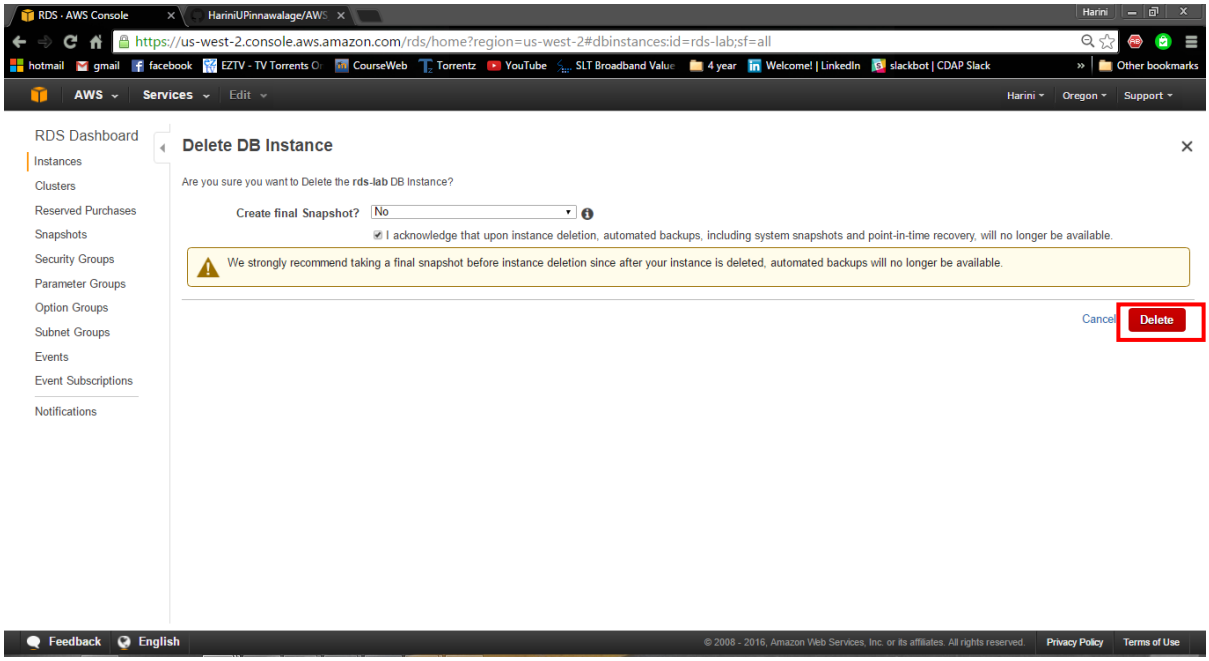
## 3. Delete the DB Instance

Step 1: Select **Instance Actions** and select **Delete**.




Step 2: It prompts to create a final snapshot.

Select **No**, check the acknowledgment box, and select **Delete**.



Step 3: Deleting the DB Instance may take time. After the instance is deleted, it remains visible on the console for a short while, and then the entry is deleted.