SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2016

Name: Madanayake P.S.

SLIIT ID: IT13122492

Group Number:

Practical Session: WD

Practical Number: Lab 3

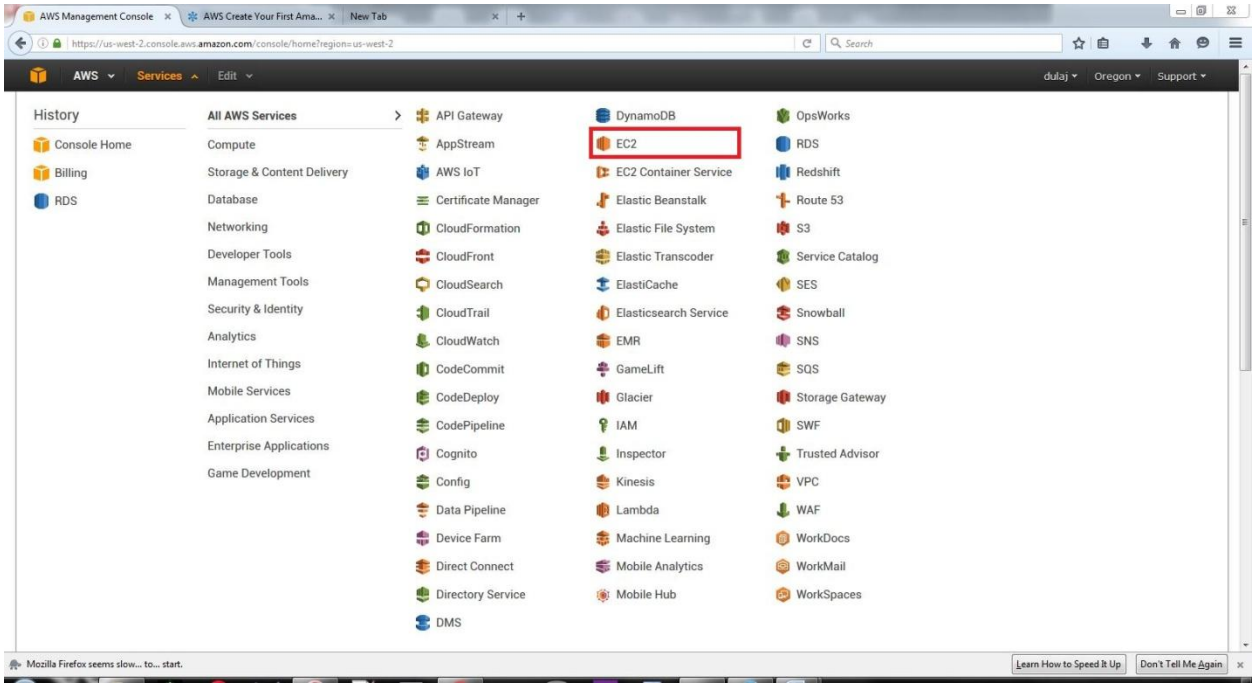
Date of Submission: 28-07-2016

Date of Evaluation : _____

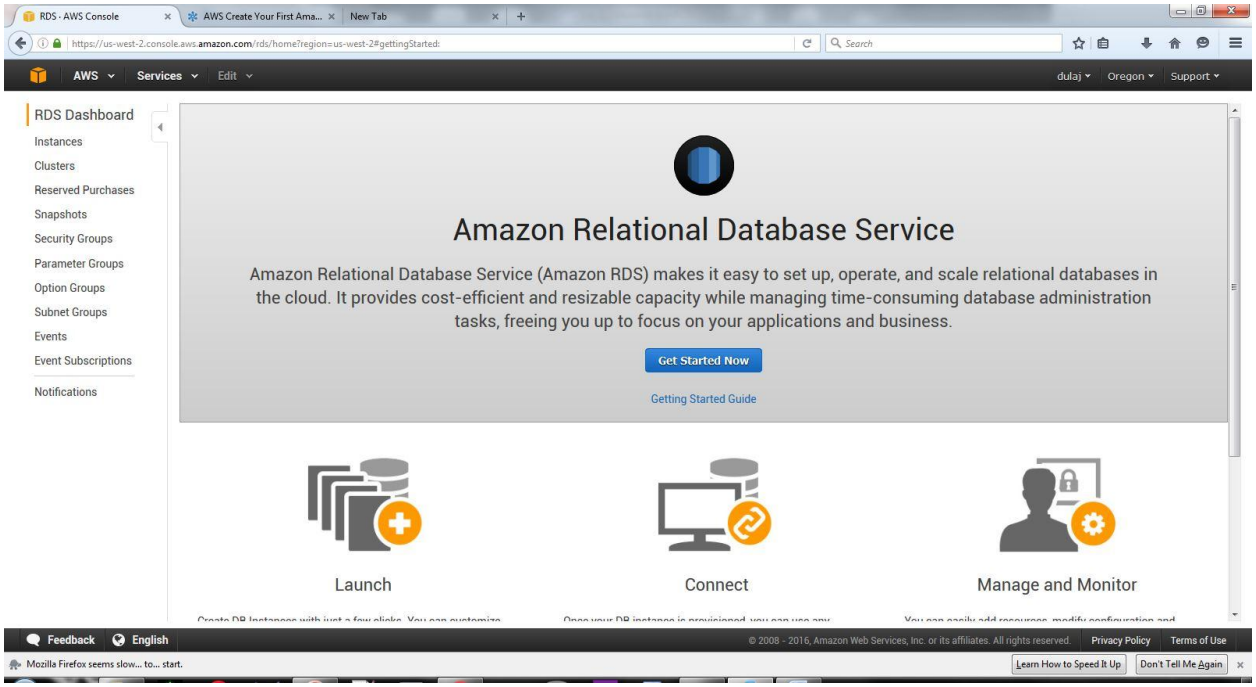
Evaluators Signature : _____

Step 1

On the console, click “RDS”.



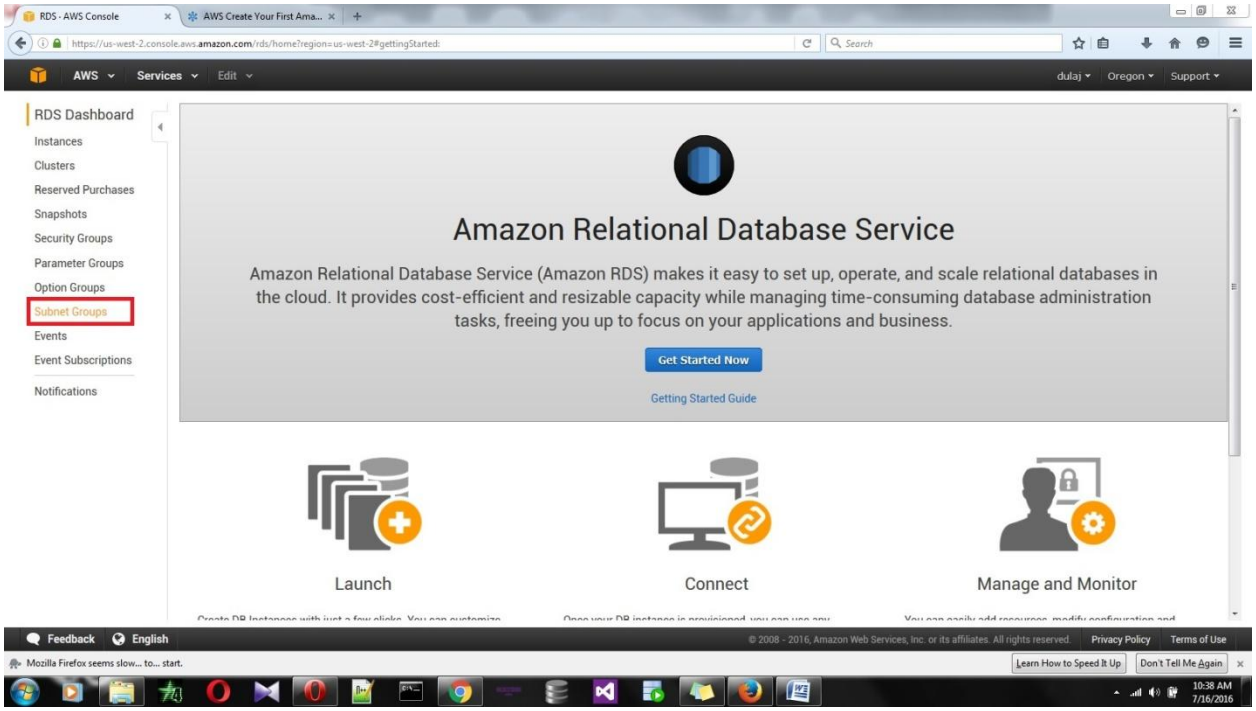
The following dashboard can be seen for the RDS.



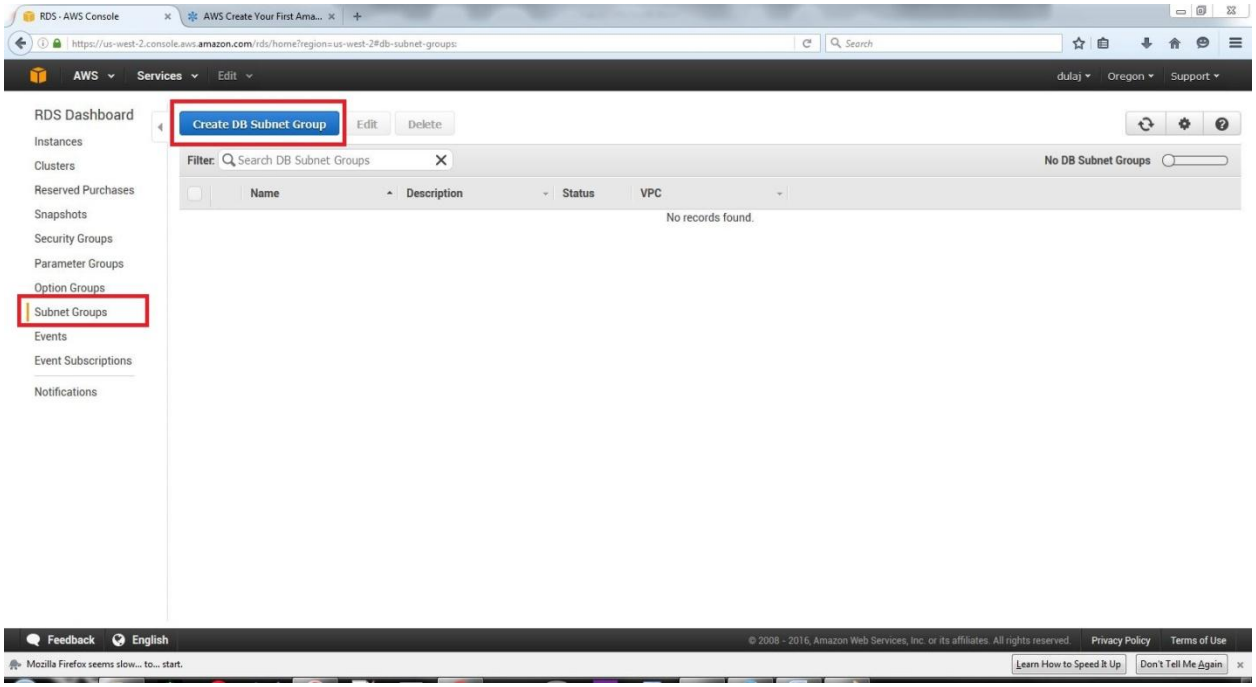
Step 2

Before configuring the actual RDS instance, we need to create a “Subnet Group”. Subnet is an IP range that allows us to group our resources based on security and operational needs.

To create a subnet group, click “Subnet Groups” in the dashboard menu.

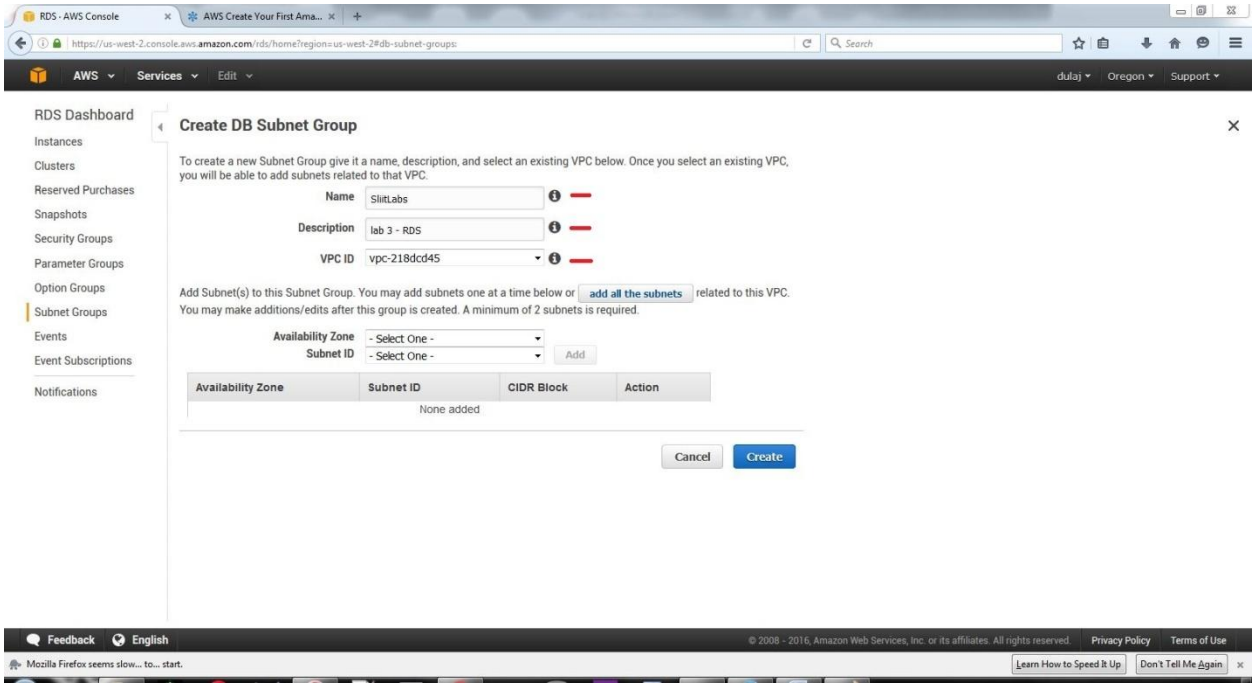


Under the “Subnet groups”, click “Create DB Subnet Group”.

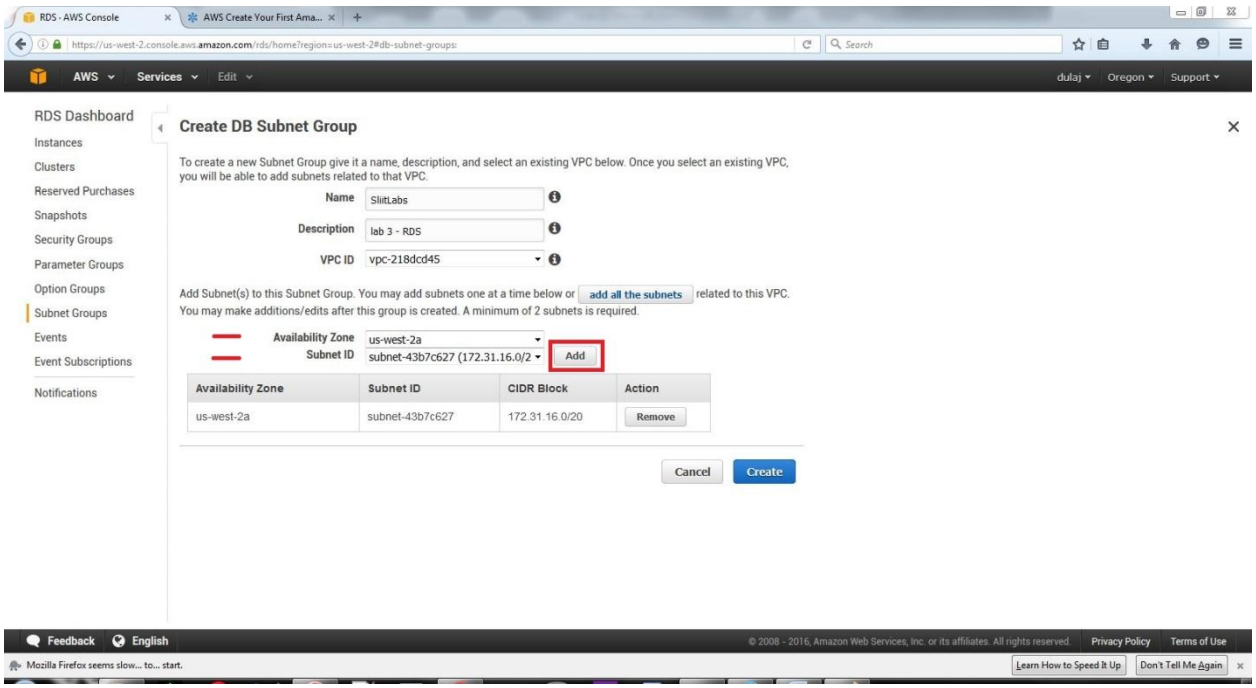


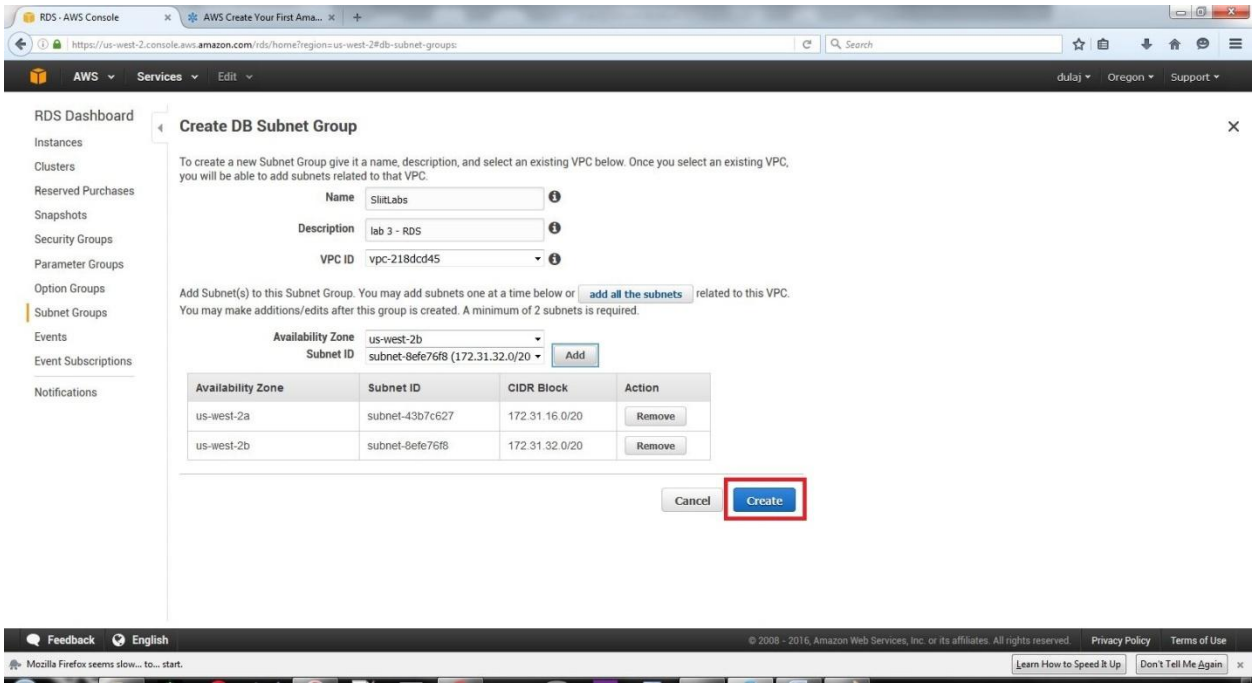
Fill the required information as follows.

- **Name:** `SliitLabs`
- **Description:** `lab 3 - RDS`
- **VPC ID:** `select the available one`



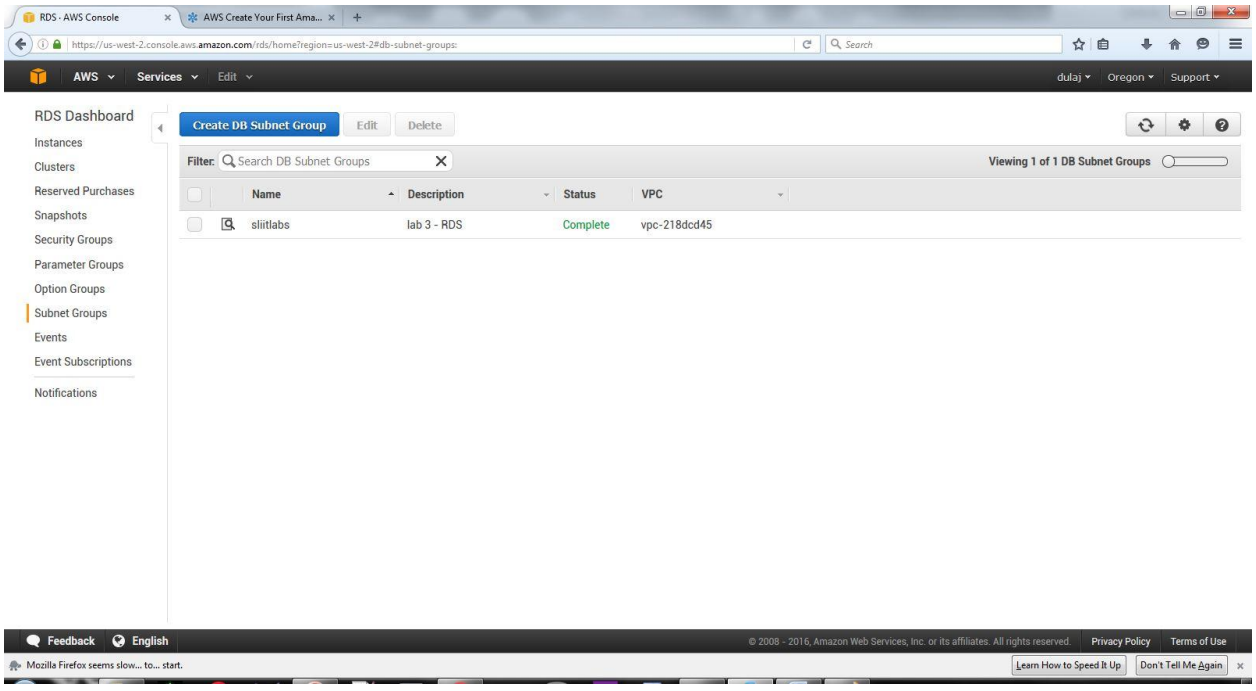
Once you have entered the above information, add at least 2 subnets to the group.





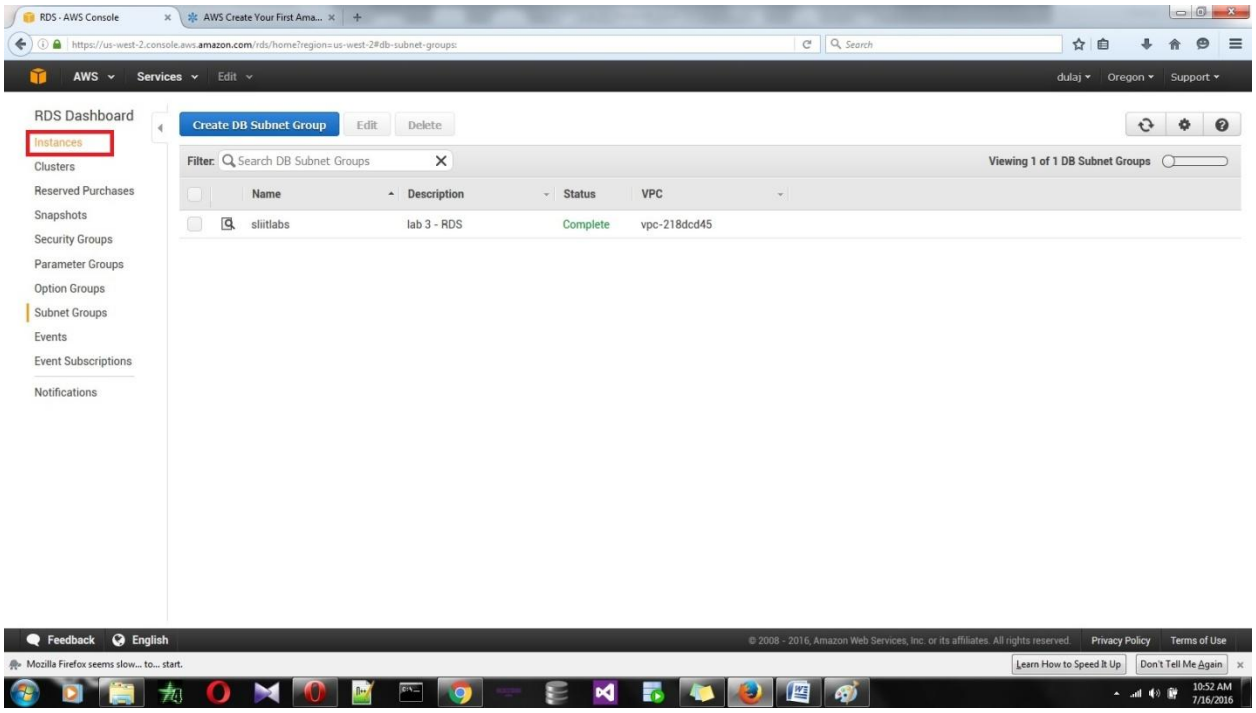
Now click “Create”.

After a few seconds the created subnet group will be available to be used.

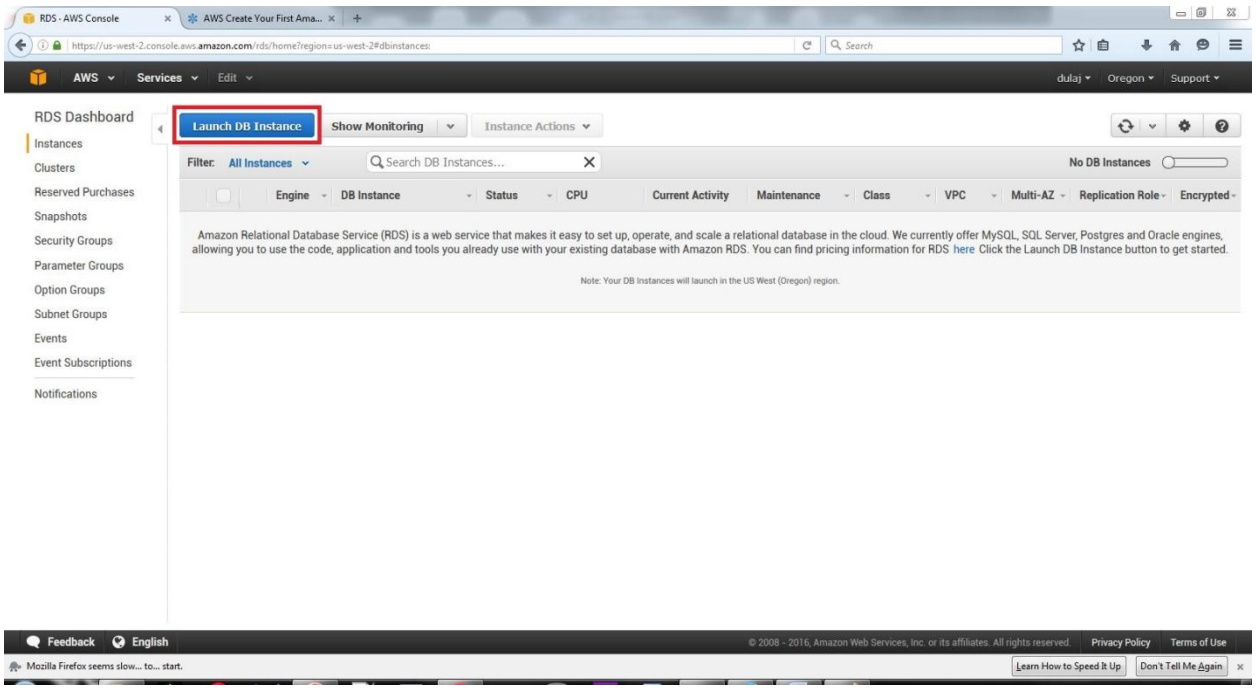


Step 3

Now that we have created a subnet group, lets create a RDS instance. Go to “Instances” in the RDS dashboard.

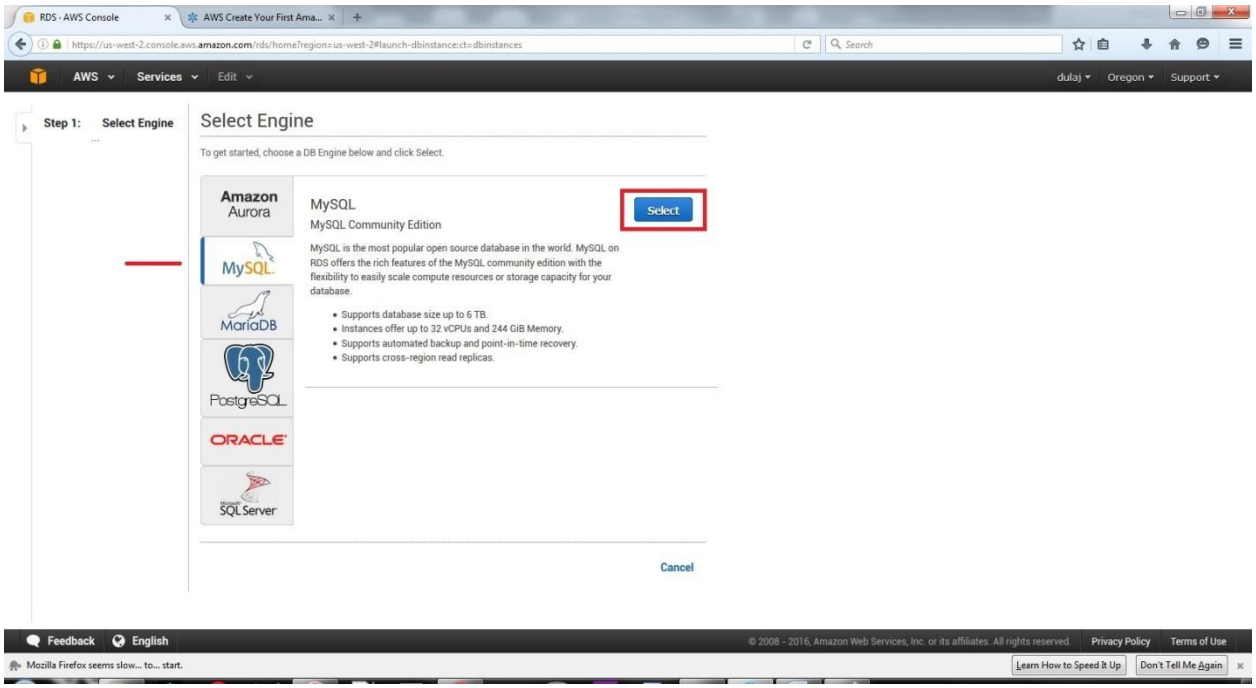


Click “Launch DB Instance”.



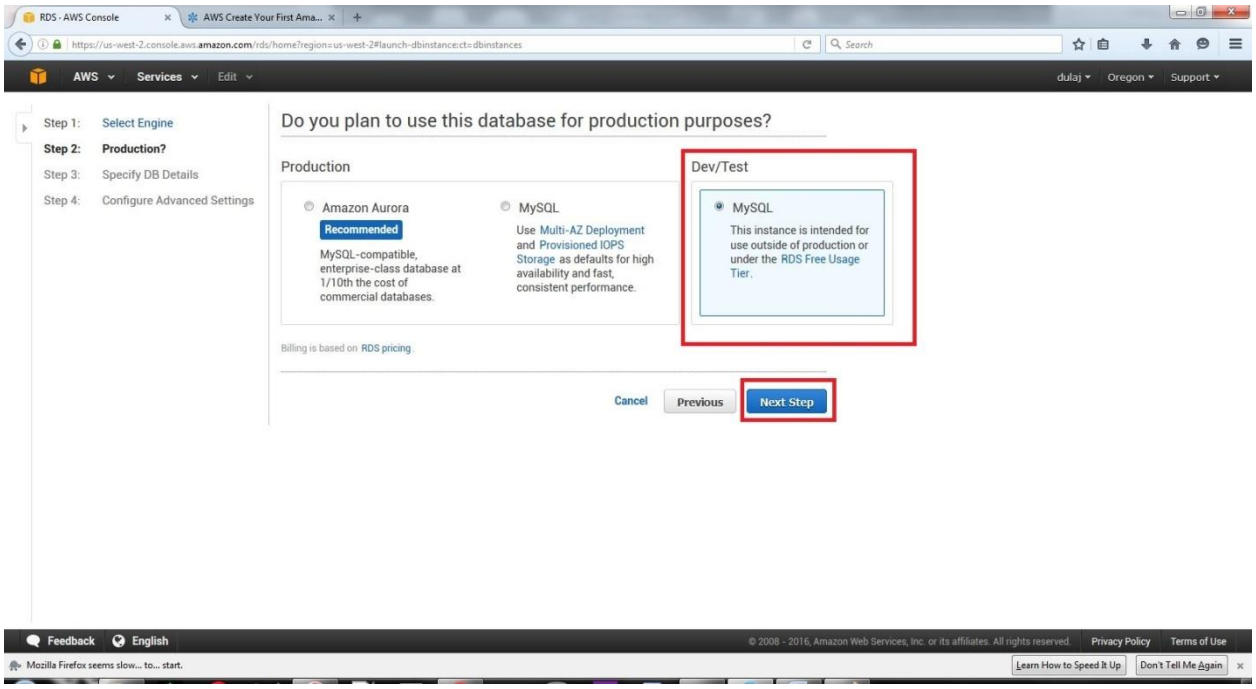
Step 4

In the resulting form, we need to define the database engine. Here we use a MySQL database engine. Select “MySQL” and click “Select”.



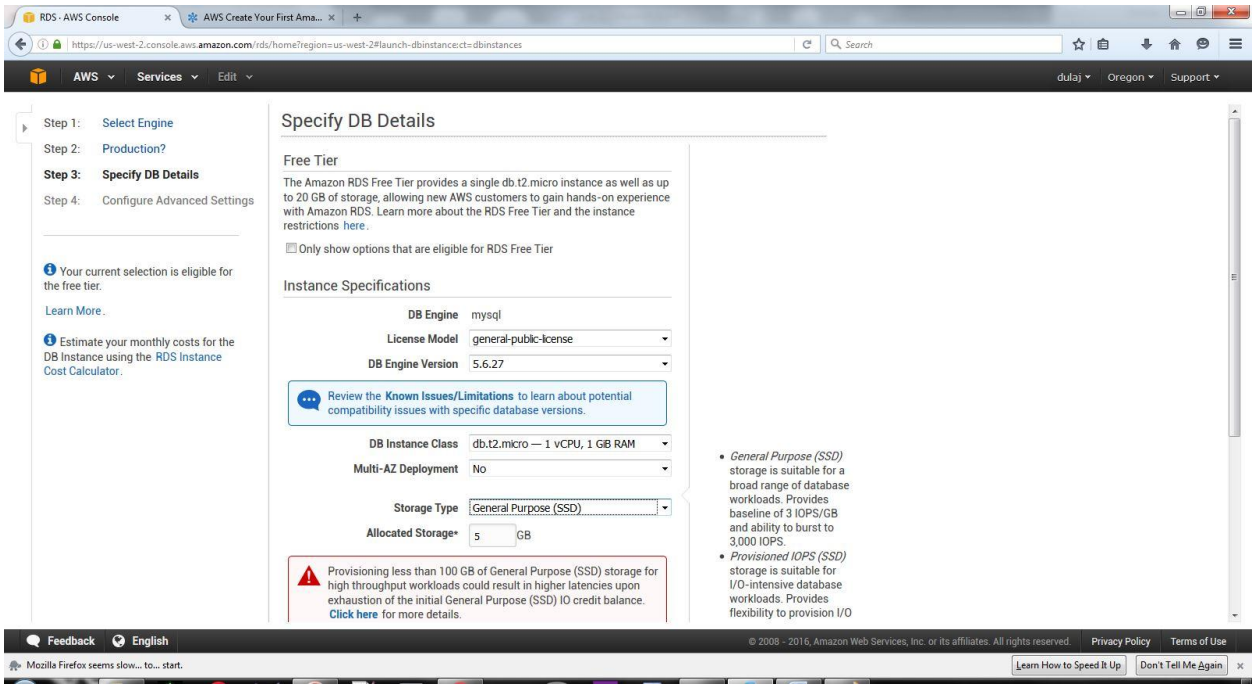
Step 5

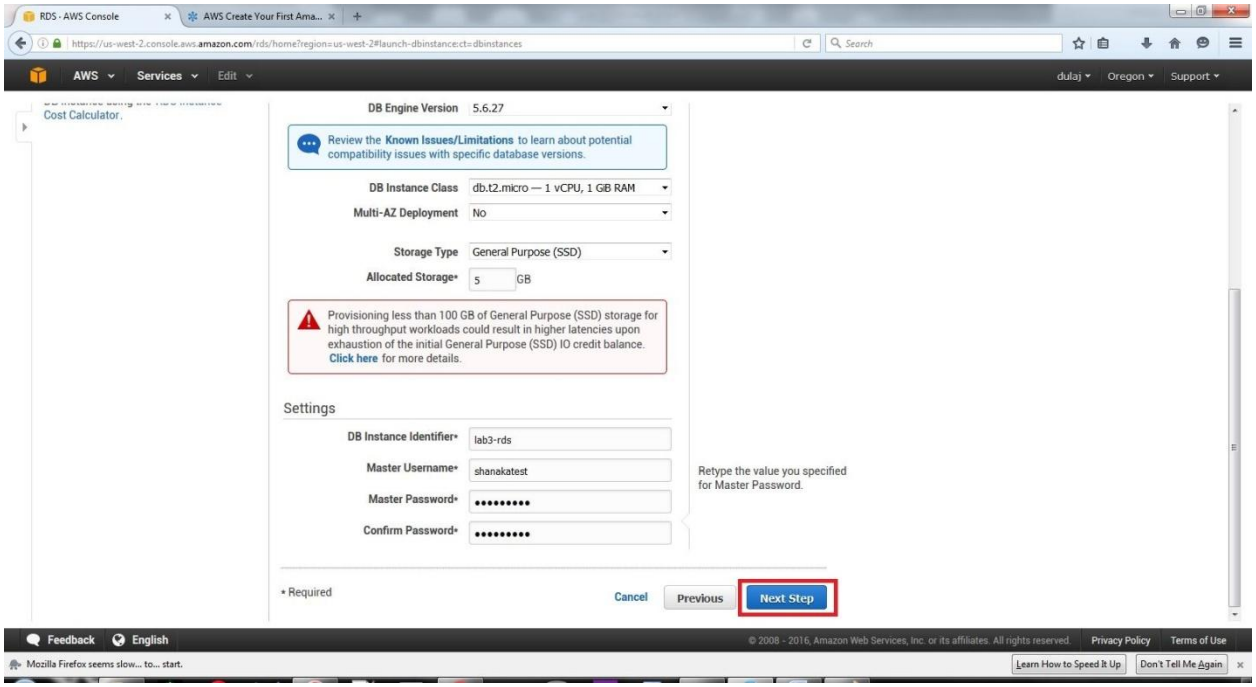
At the next form we will be asked whether the database would be used as a production database or not. Since we use this as a test, select “MySQL” under “Dev/Test” and click “Next Step”.



Step 6

At the next step, we will be asked the basic configuration for the database instance. Provide the necessary information as follows.

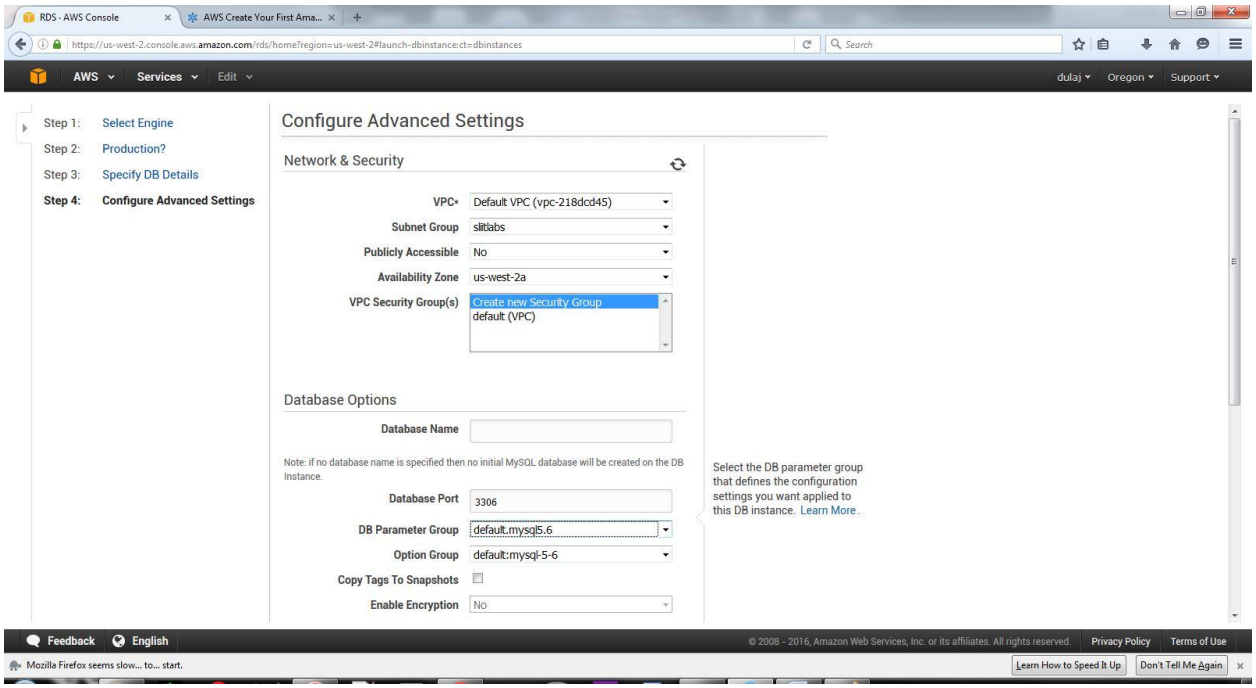


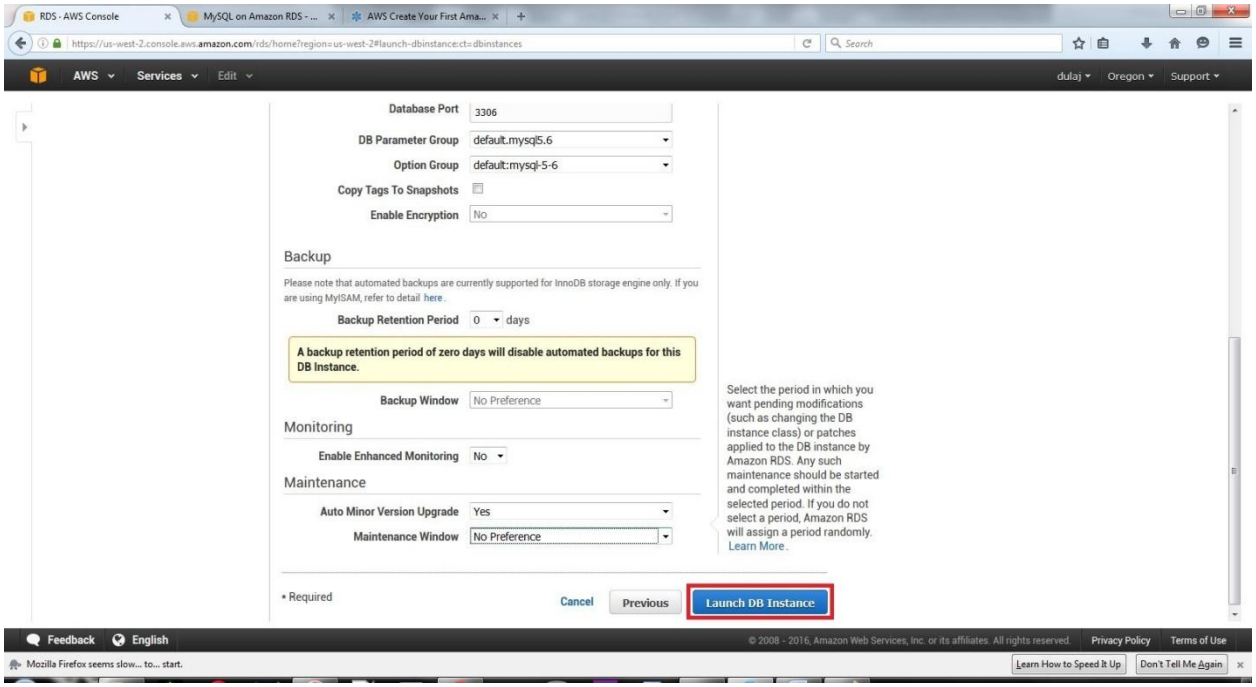


Click “Next Step”.

Step 7

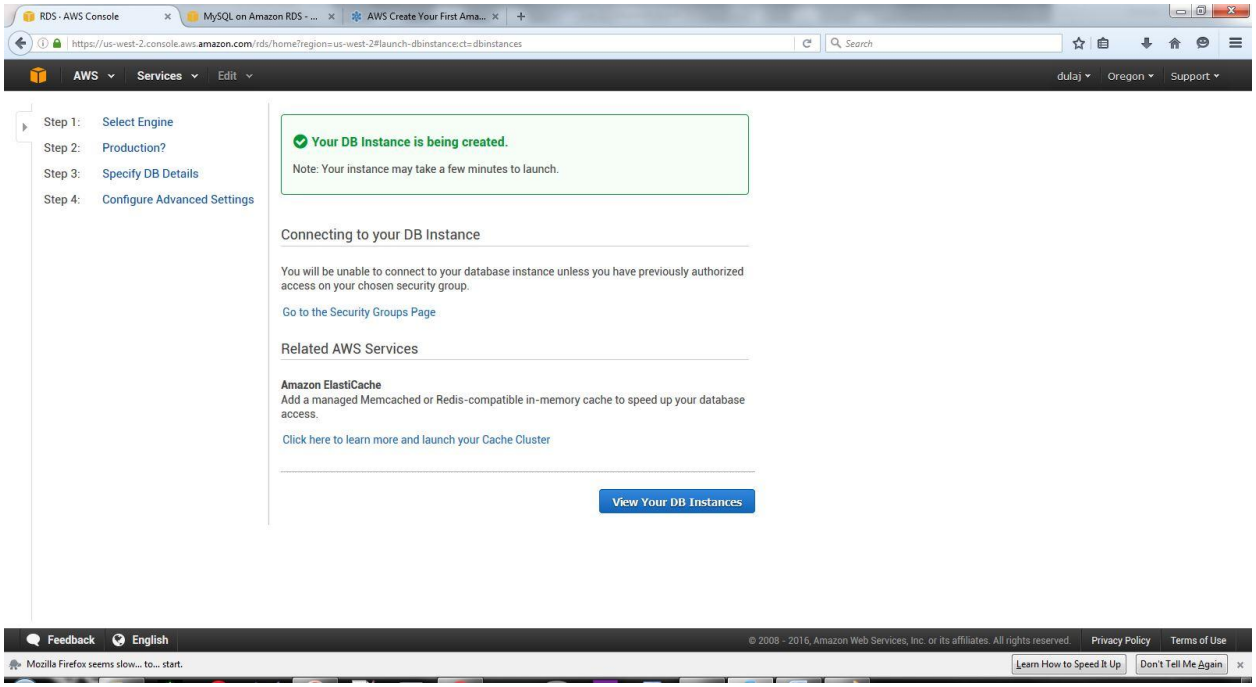
After the basic instance configuration, we will be asked advanced configuration. Enter the following information.



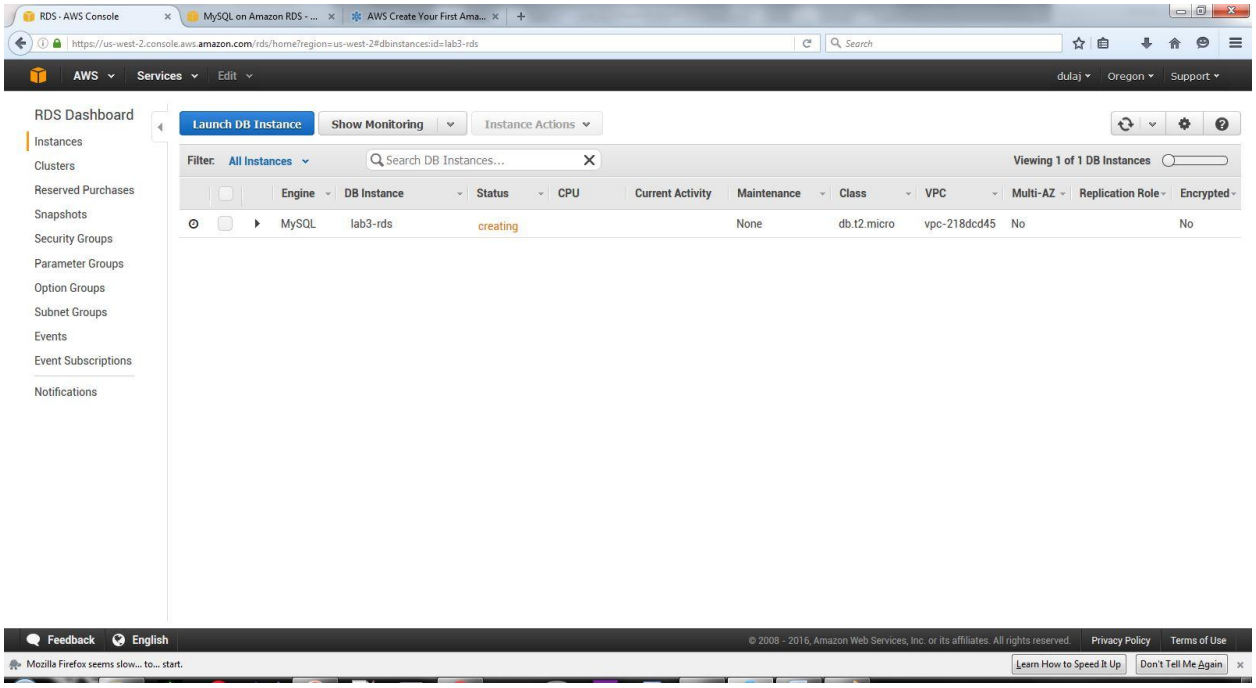


Click “Launch DB Instance”.

After the successful creation of the instance, the following message can be seen.

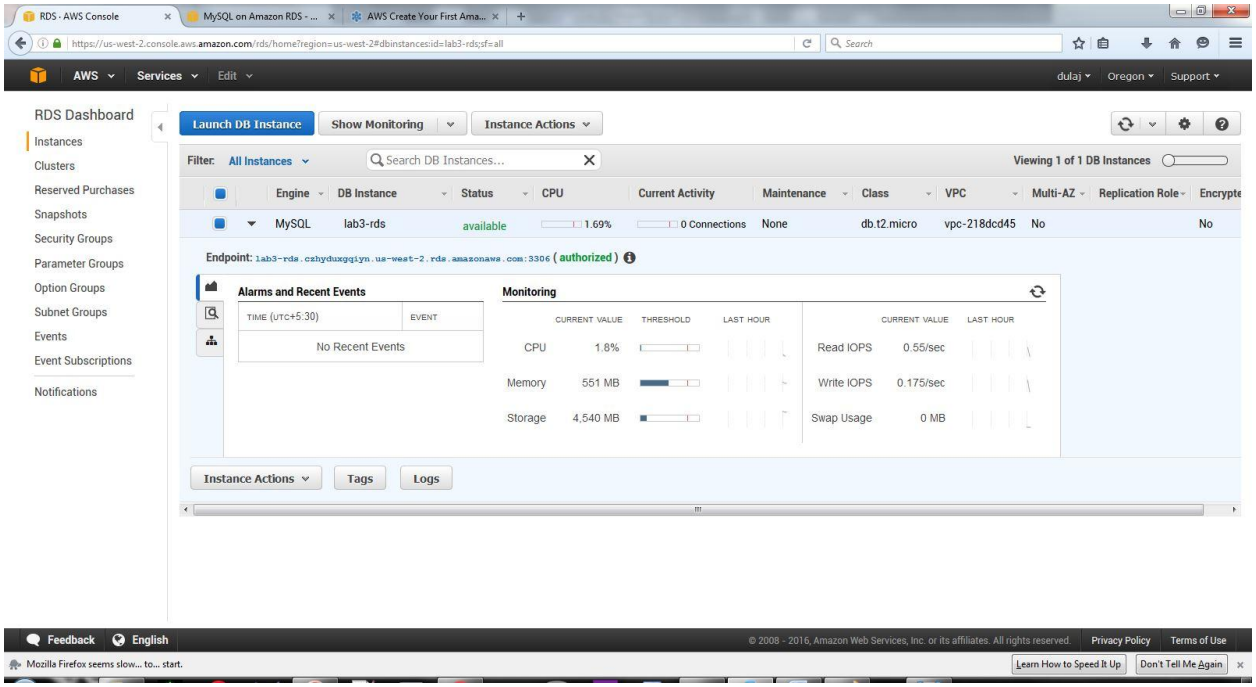


By clicking “View Your DB Instances”, we can see the DB instances that we have created.



Here we can see the newly created instance’s status as “Creating”. For the instance to be available, it may take up to 10 minutes.

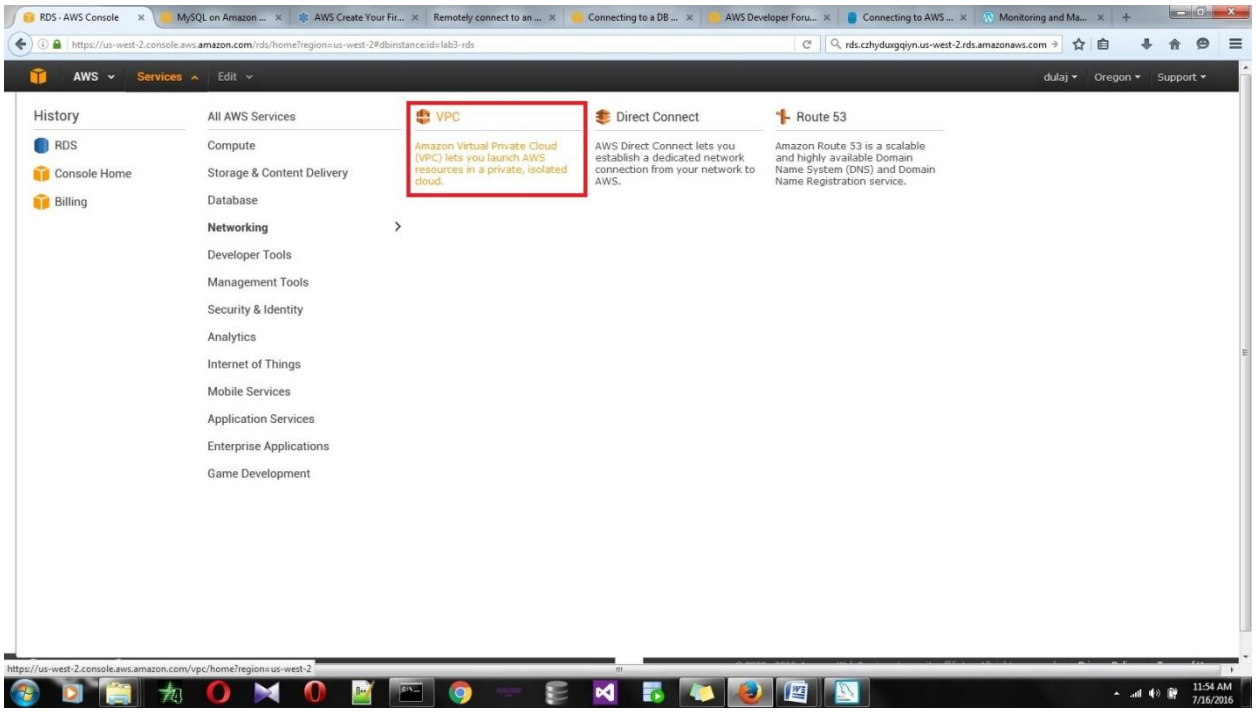
When the instance is available to use, the following can be seen.



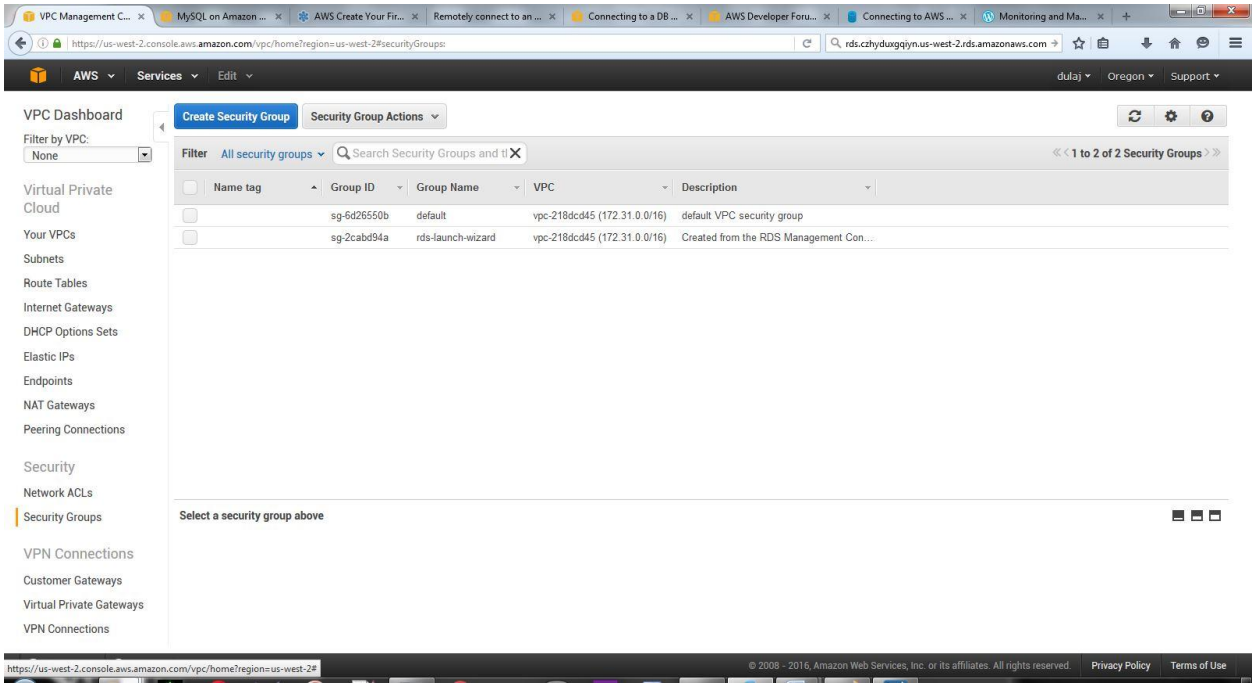
Step 8

In order to use the created RDS instance, we need to add an inbound rule to the VPC Security Group created during the RDS instance creation.

From the services, select “VPC” under “Networking”.

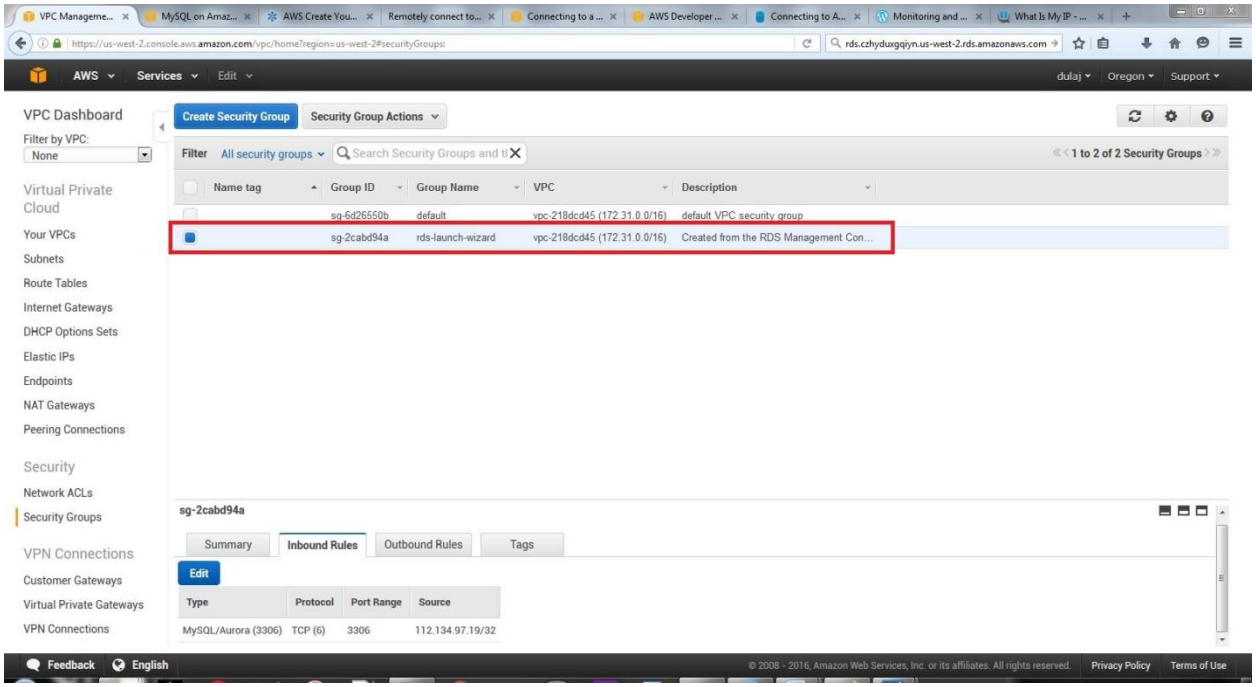


Now select “Security Groups” under the VPC Dashboard. The following page appears.

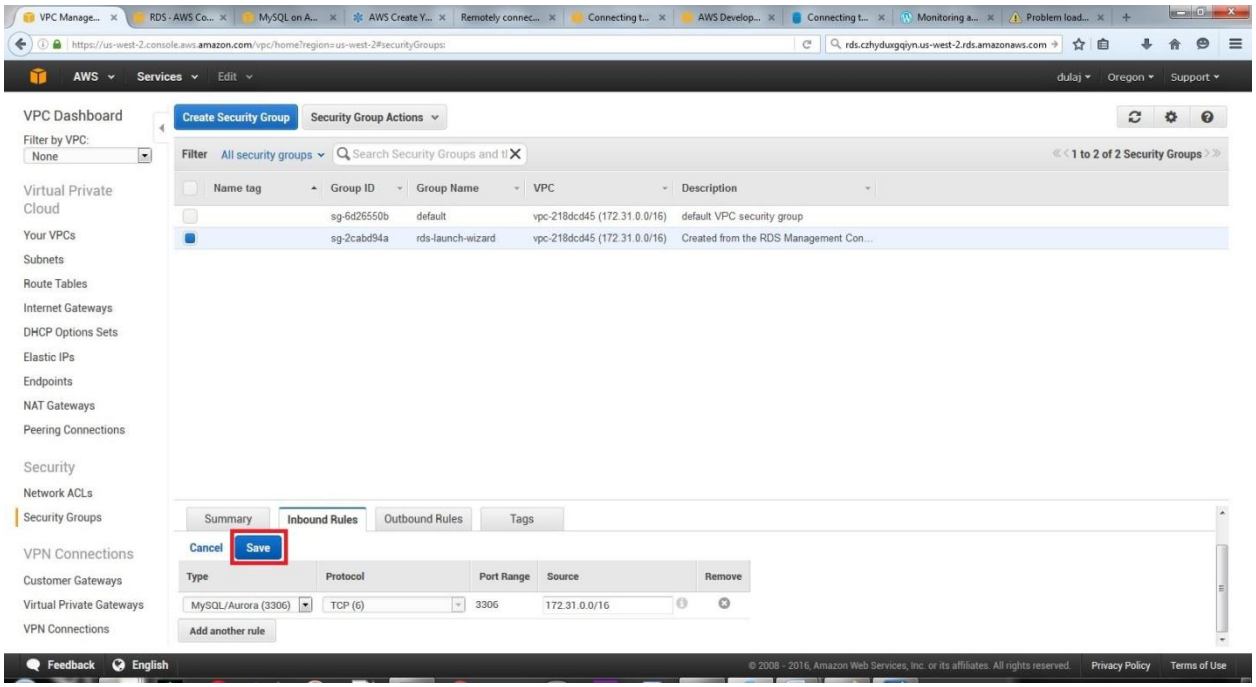


Click “rds-launch-wizard”.

On the “Inbound rules”, click “Edit”.



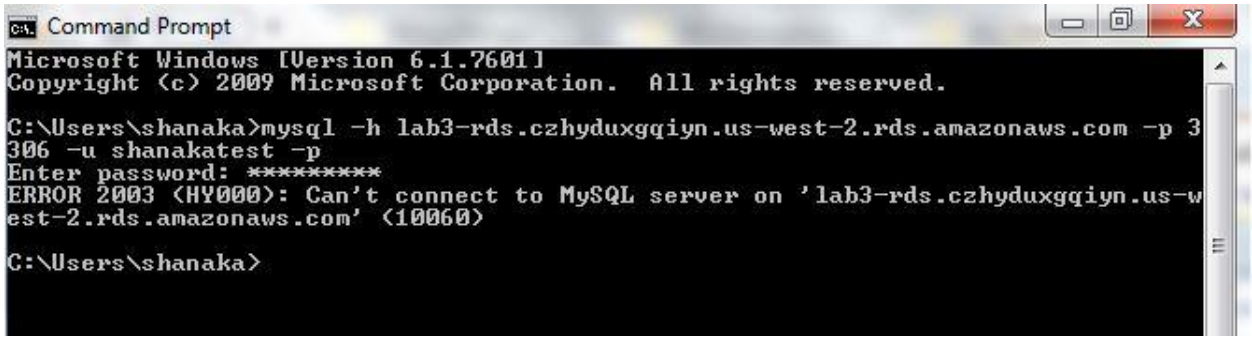
Change the “Source” to 172.31.0.0/16. Click “Save”.



Step 9

Lets try connecting to the MySQL instance that we have created. Type the following command in the format,

```
mysql -h <endpoint> -P 3306 -u <mymasteruser> -p
```

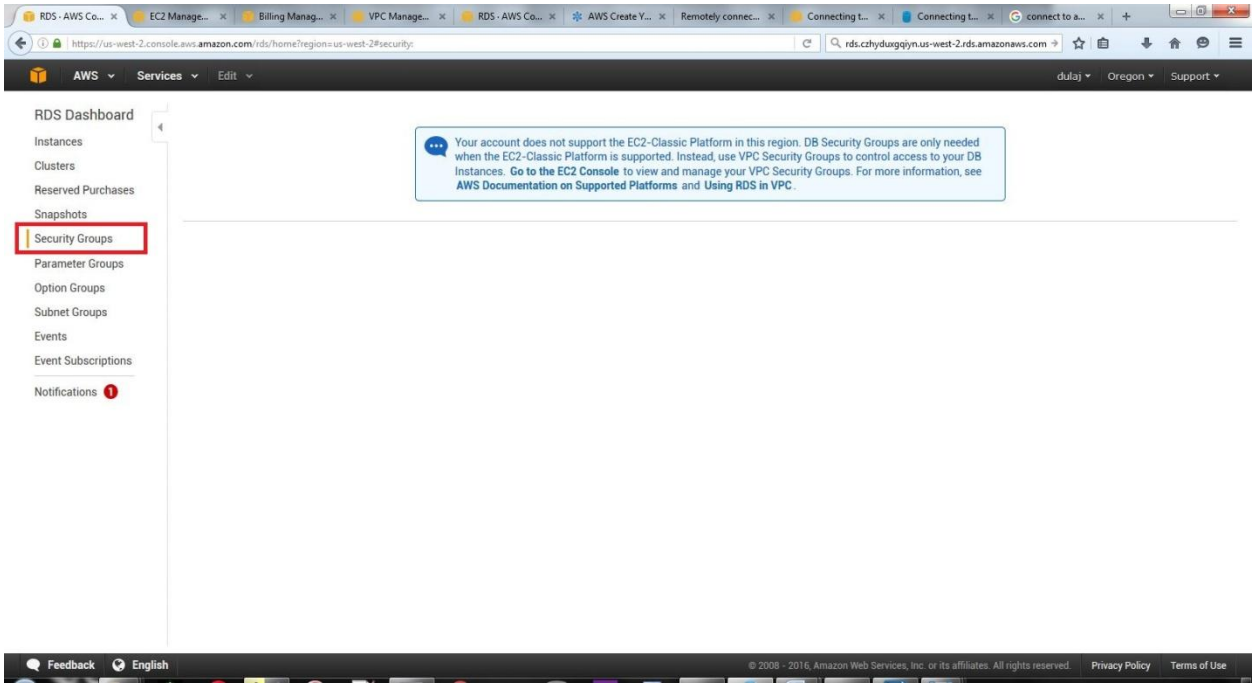


Here we got an error indicating a failure trying to connect to the MySQL instance.

The solution for this error is that we need to create a Security Group.

Step 10

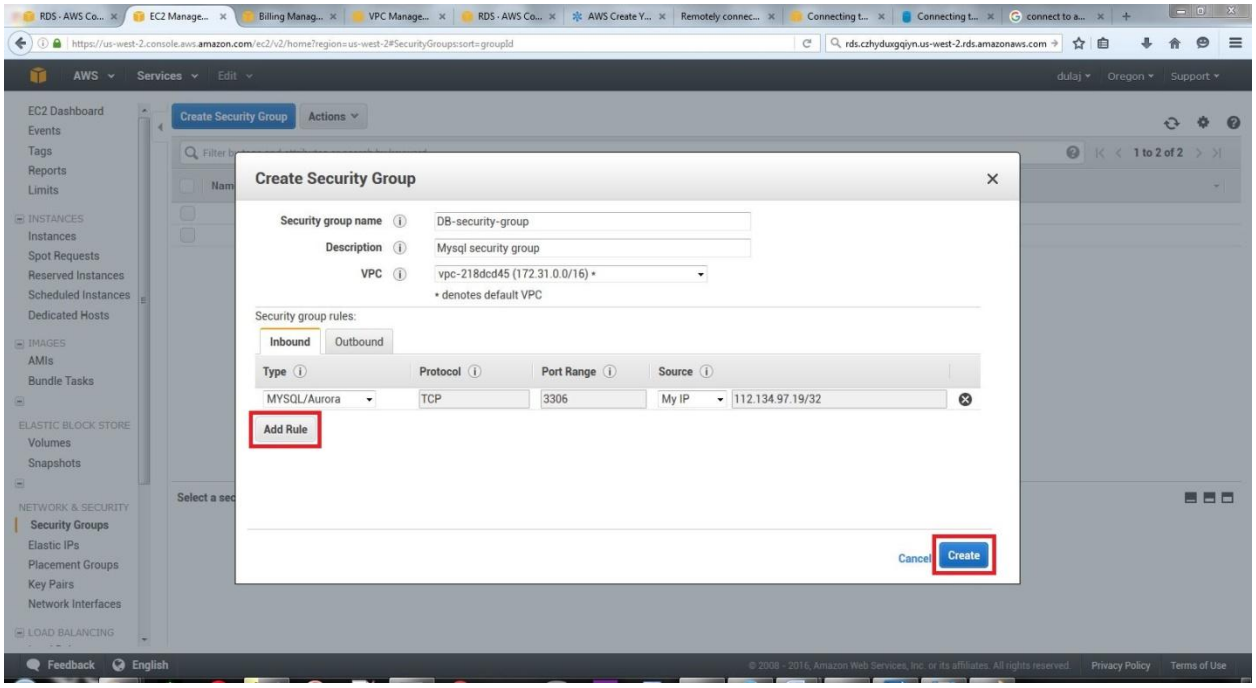
Lets create a security group from “Security Groups” under RDS panel. Click “Go to The EC2 Console”.



Click “Create Security Group”. Enter the required information.

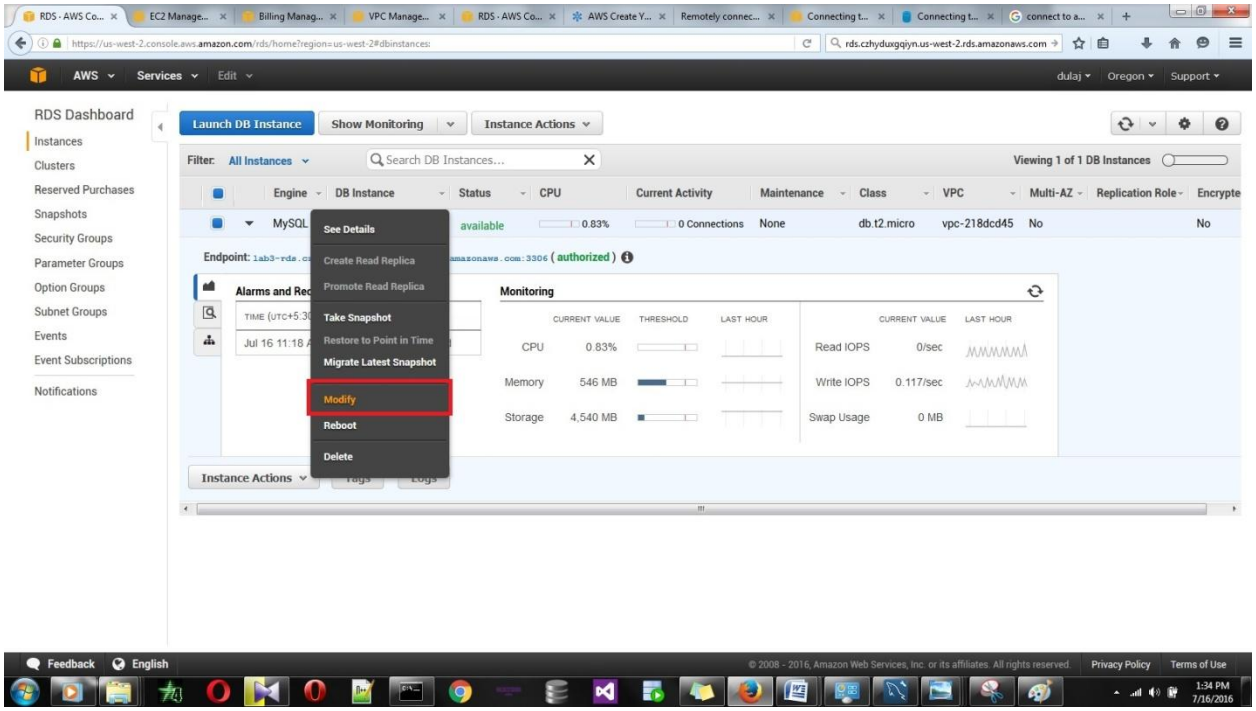
NOTE: make sure to select the correct VPS we defined for the RDS instance creation.

Click “Add Rule”. Select “MySQL” as the type and the IP address for the source. Click “Create”.

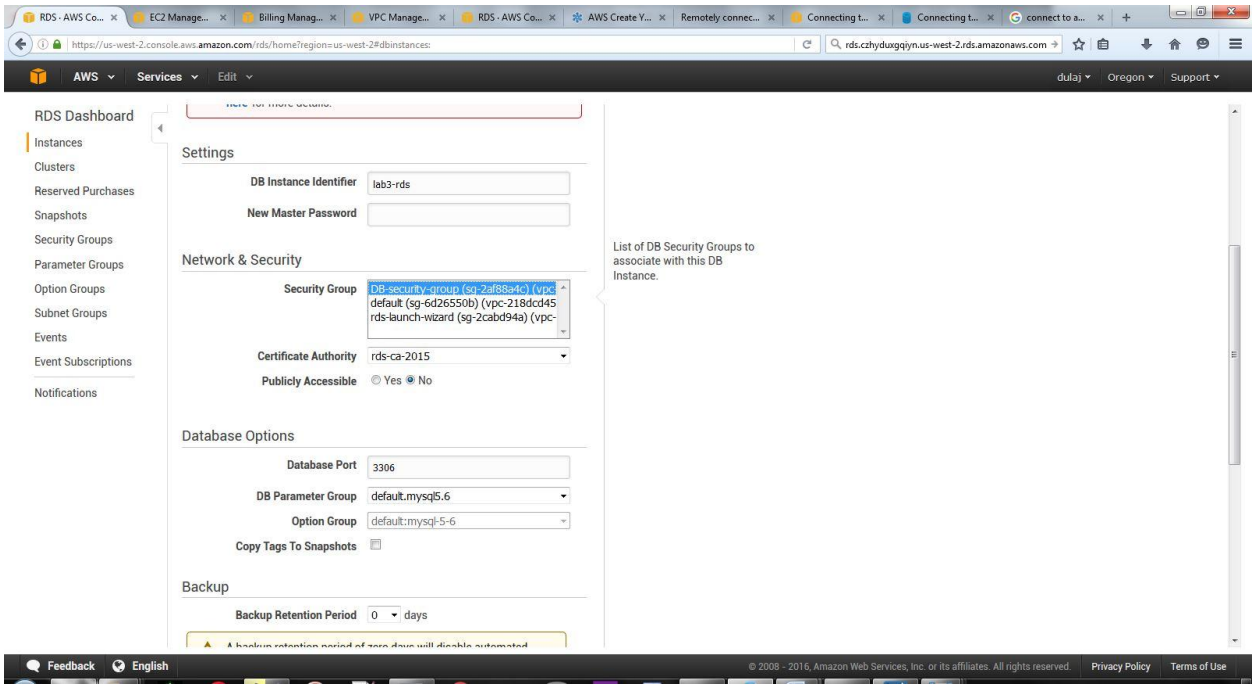


Step 11

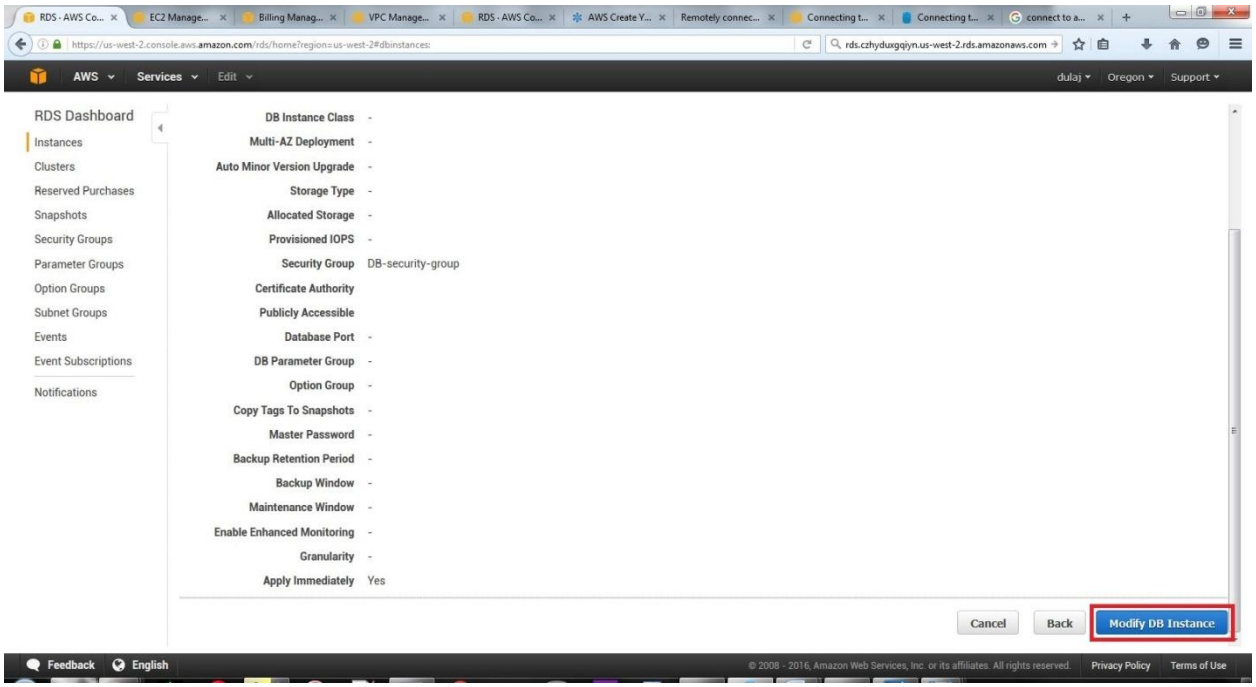
Now go to the RDS instance we created, right click the instance and click “Modify”.



Now select the new Security Group we have created in “Security Group” under “Network & Security”.



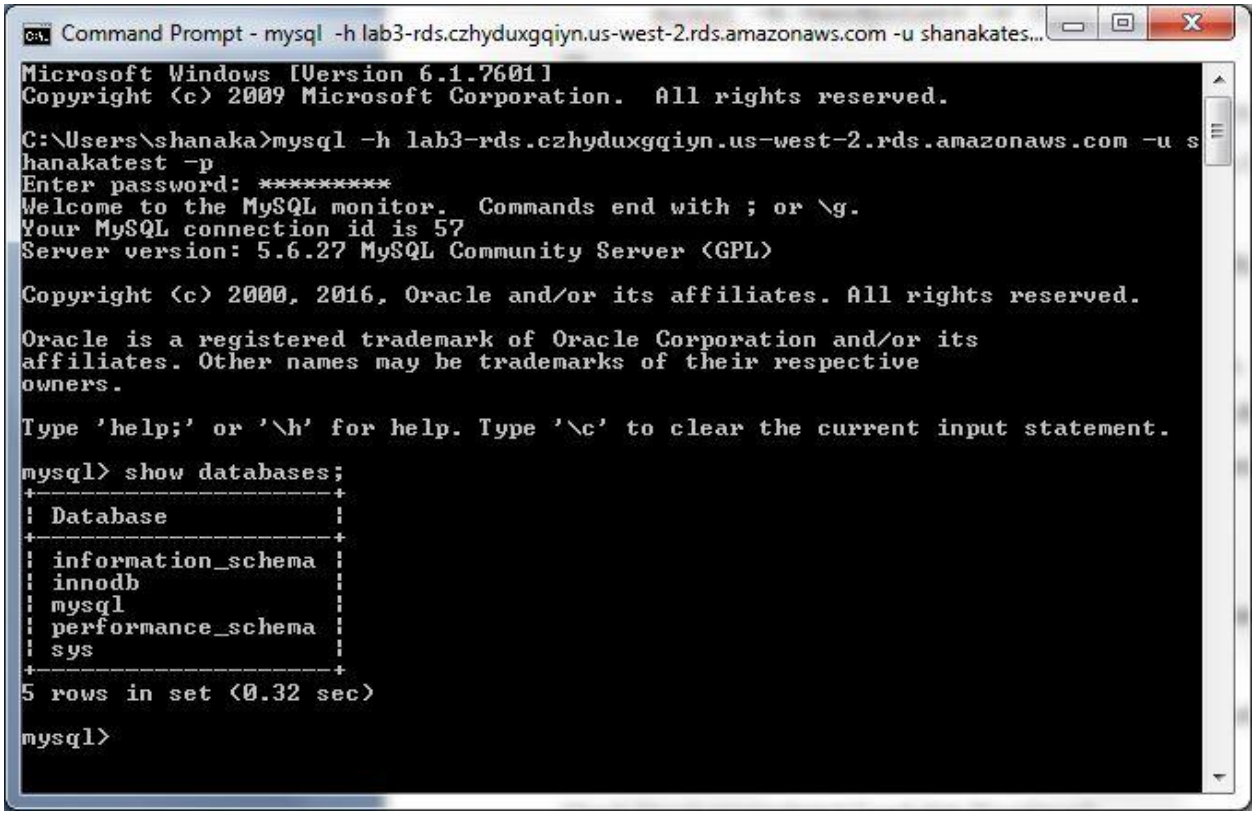
Check “Apply Immediately” and click “Continue”.



Click “Modify DB Instance”.

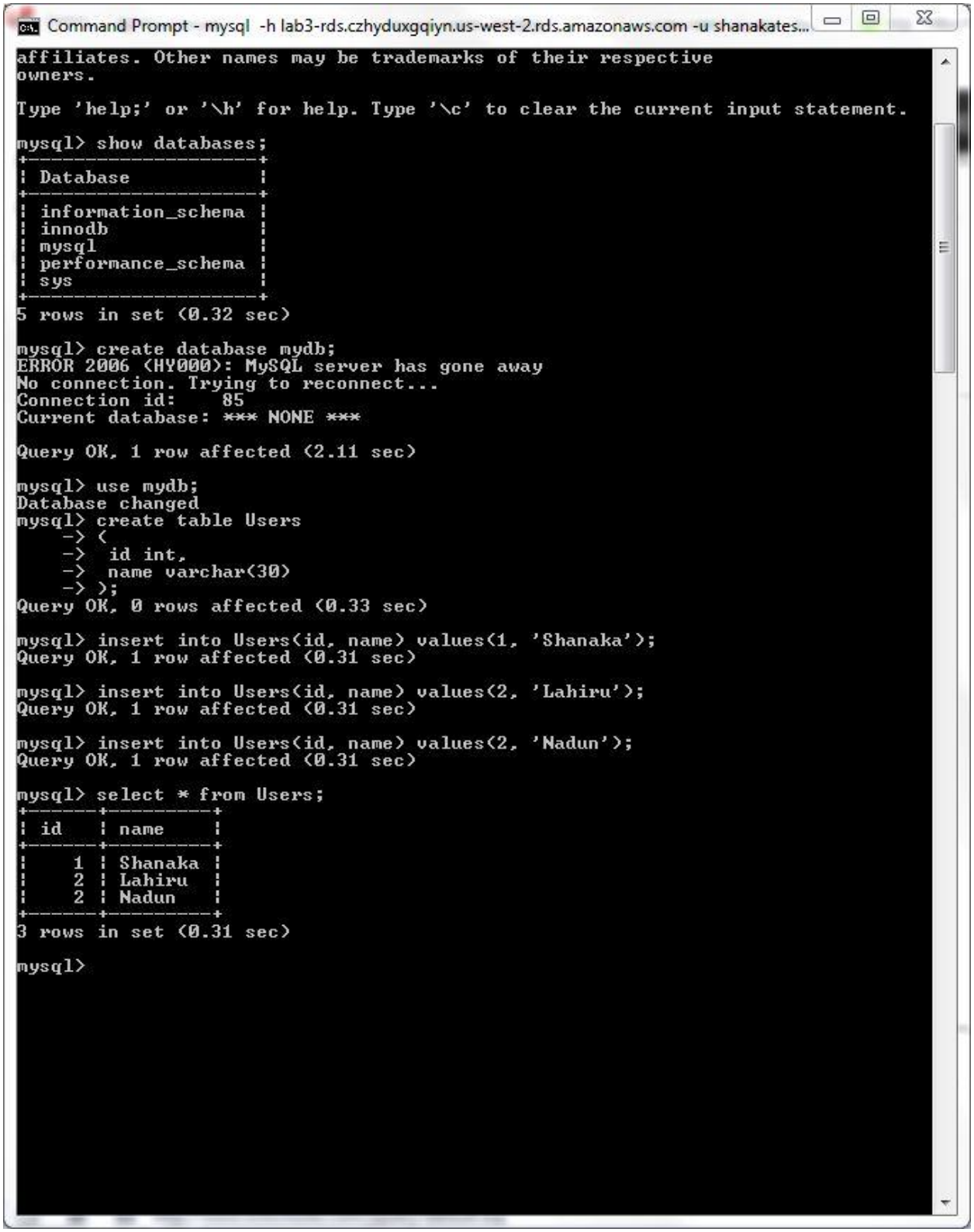
Step 12

Lets connect again to the MySQL database instance.



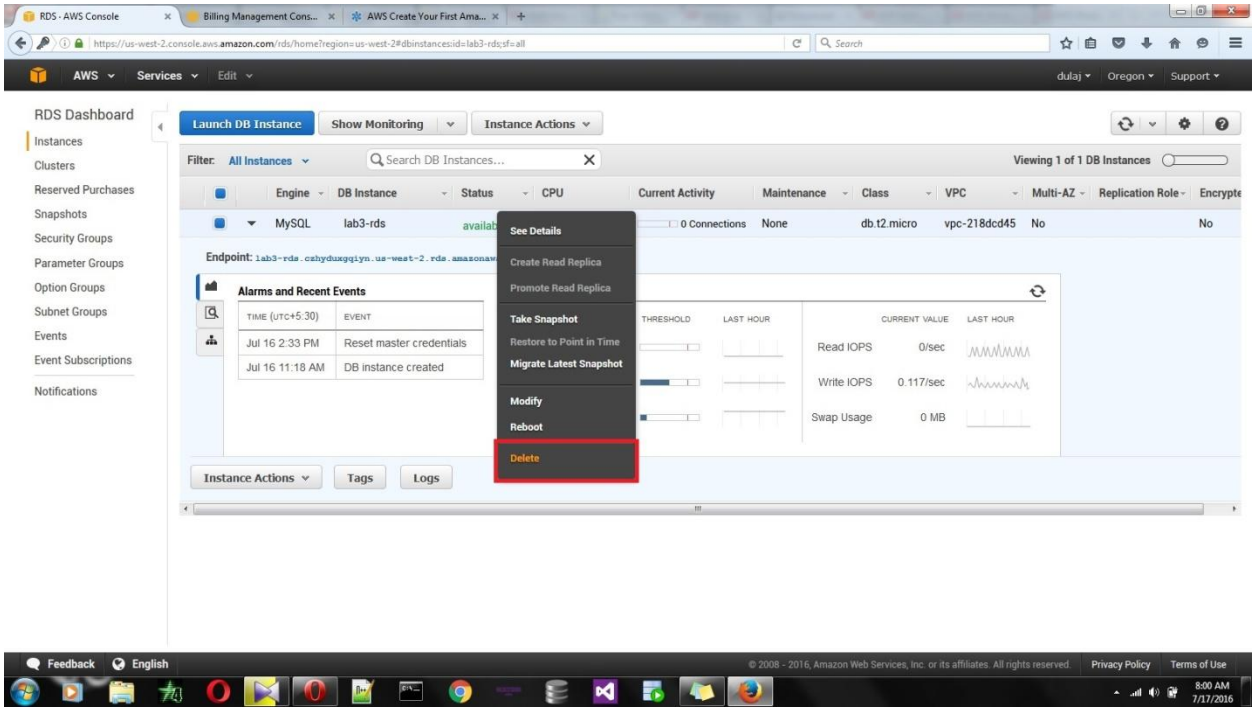
Step 13

Lets test the created database by creating a database and adding some records to it.

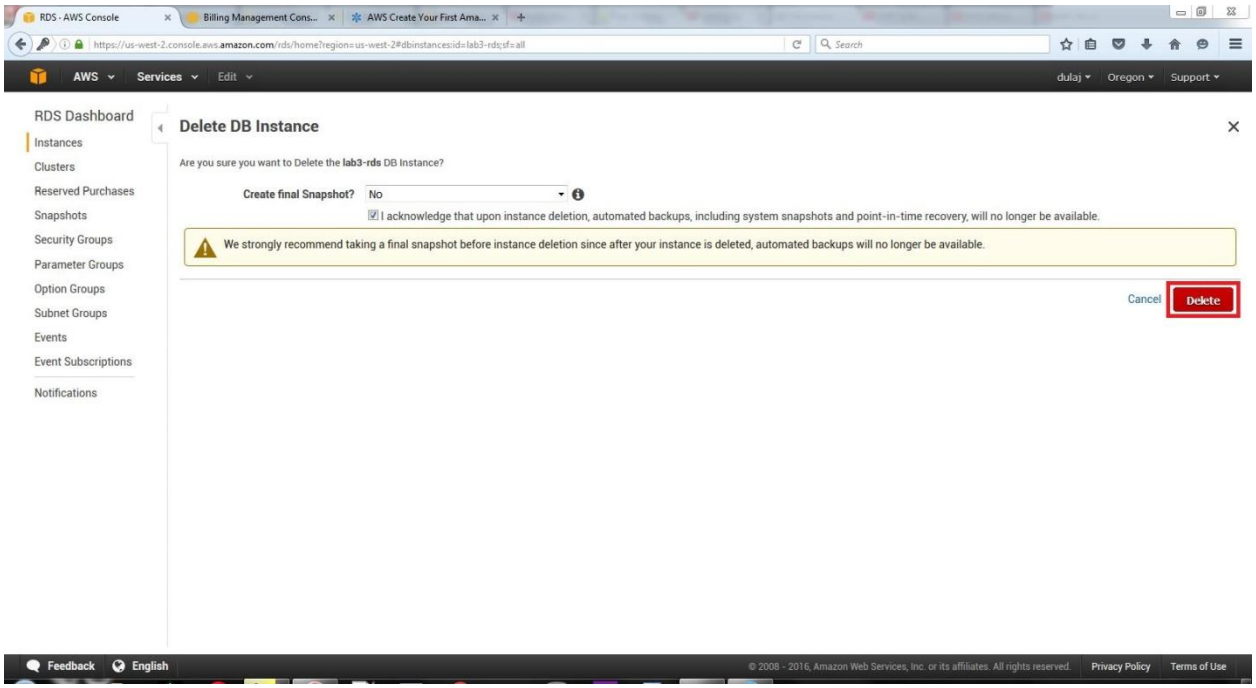


Step 14

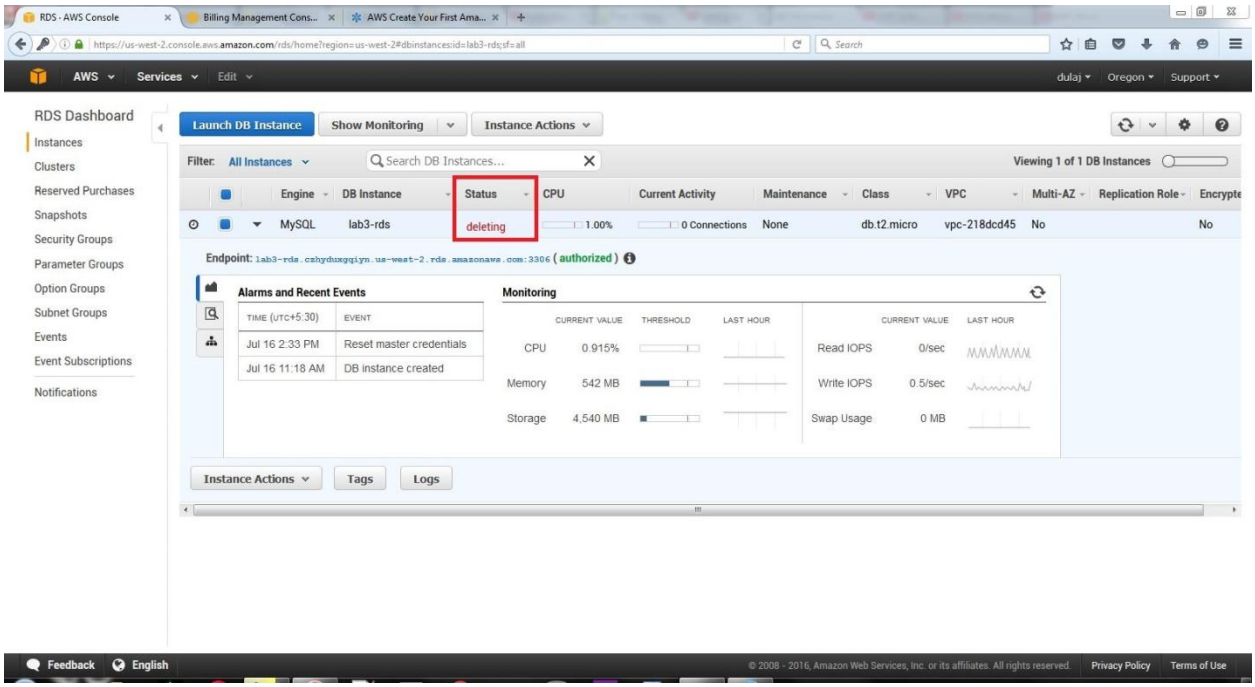
To remove the RDS instance, right click on the instance and click “Delete”.



You will need to confirm the deletion of the instance. Click “Delete” on “Delete DB Instance”.



Under instance tab, you can see the “Status” of the instance as “*deleting*”.



****End of Assignment 3****