

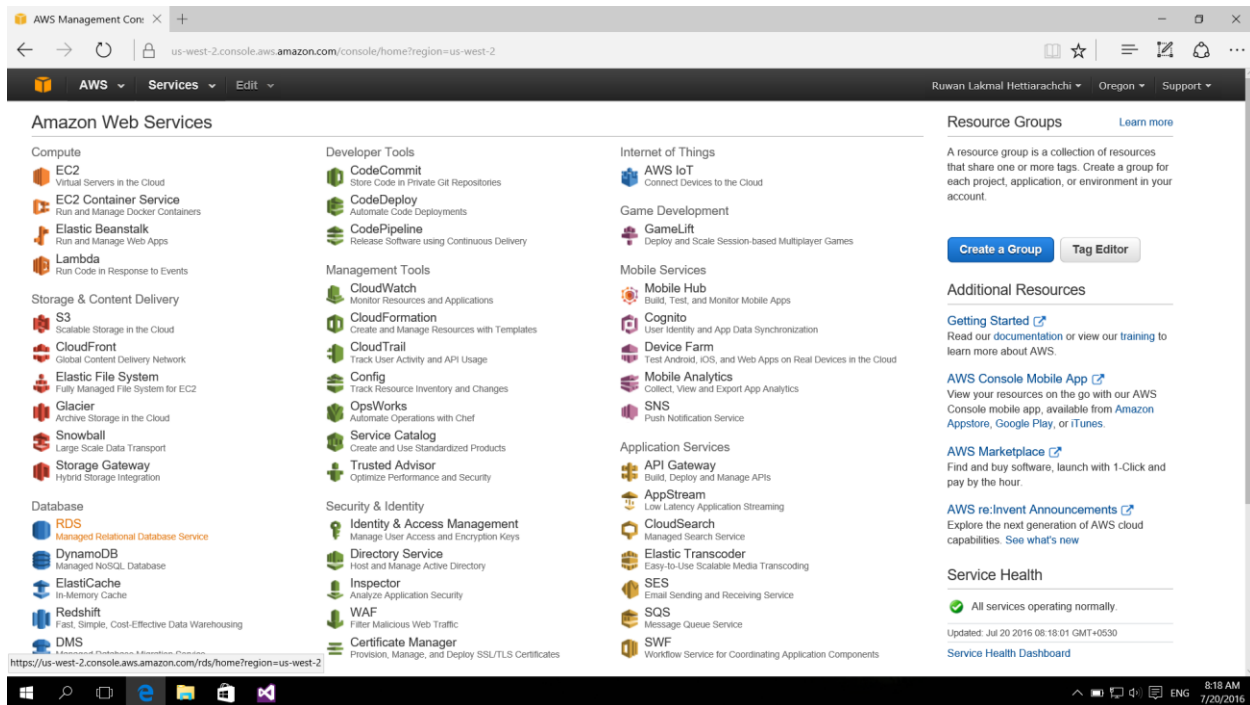
Enterprise Standards and Best Practices for IT Infrastructure

Lab 03 Report – Creating an Amazon RDS Database

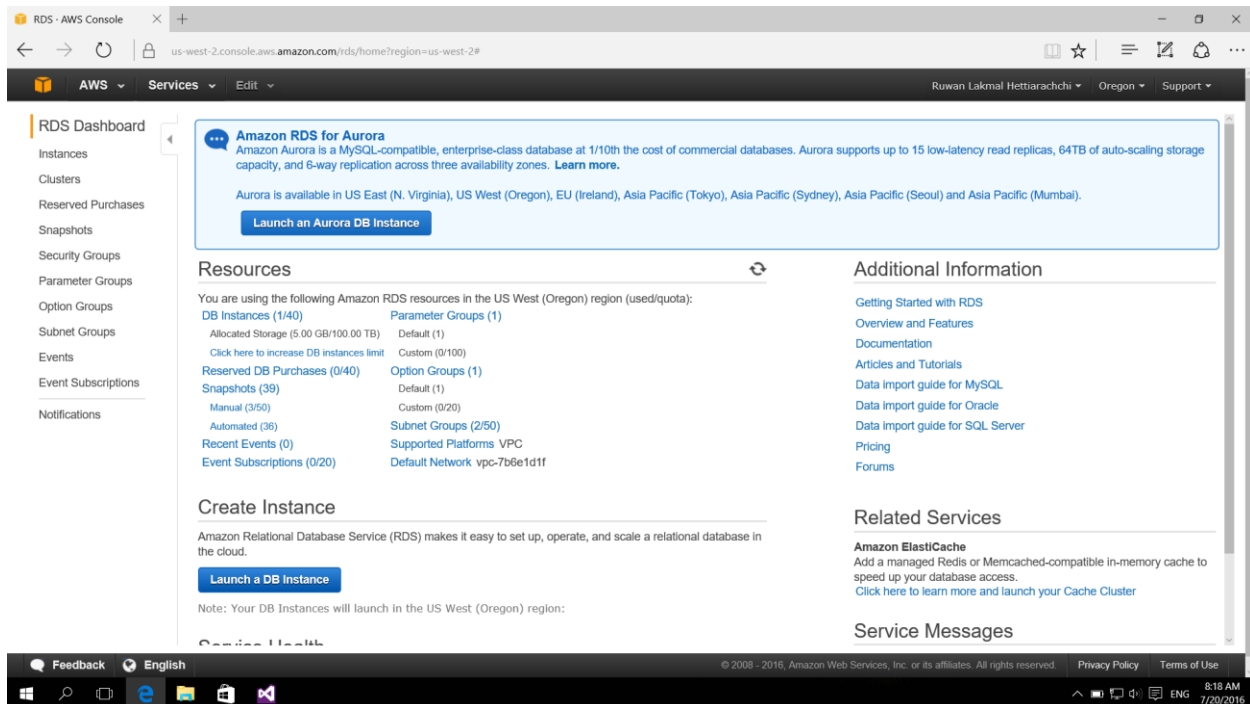
Hettiarachchi R.L. – IT13029500

Sri Lanka Institute of Information Technology
B.Sc. Special (Honors) Degree in Information Technology
Specialized in Information Technology

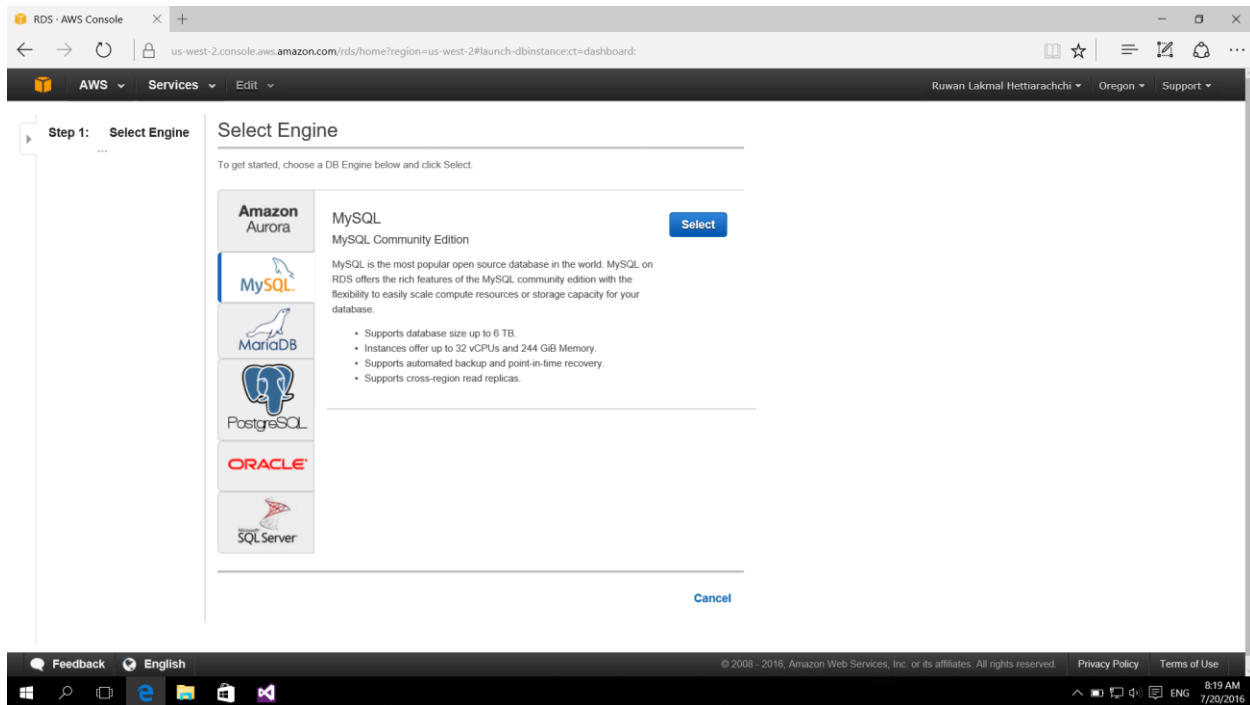
- Step 01: Select RDS from services.



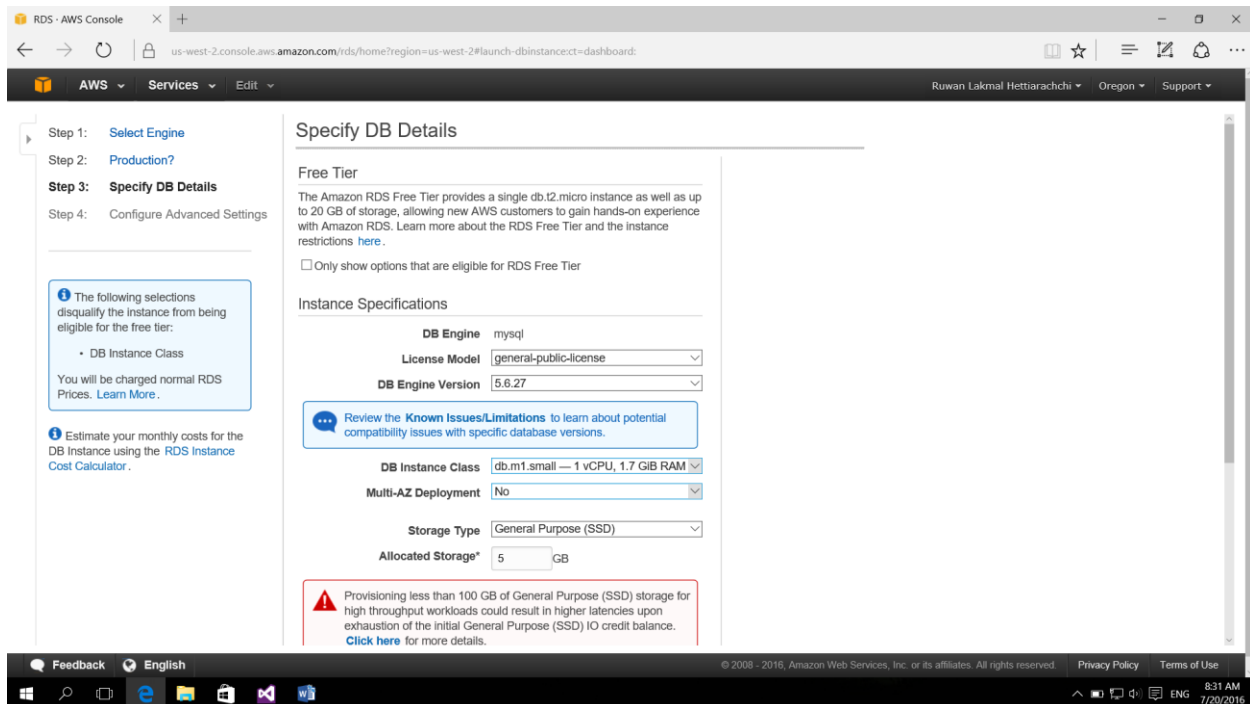
- Step 02: Go to the Instances from RDS Dashboard.



• Step 03: Select MySQL



• Step 04: Select MySQL Dev/Test version and proceed to next step.



- Step 05: Fill Instance Specification details

License Model: general-public

DB Engine Version: 5.6.27

DB Instance Class: db.m1.small – 1 vCPU, 1.7 GiB RAM

Multi-AZ Deployment: No

Storage Type: General Purpose (SSD)

Allocated Storage: 5GB

Provide DB Instance Identifier, Master Username and Master Password.

RDS - AWS Console

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=dashboard:

AWS Services Edit

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Step 1: [Select Engine](#)
Step 2: [Production?](#)
Step 3: Specify DB Details
Step 4: [Configure Advanced Settings](#)

The following selections disqualify the instance from being eligible for the free tier:

- DB Instance Class

You will be charged normal RDS Prices. [Learn More.](#)

Estimate your monthly costs for the DB Instance using the [RDS Instance Cost Calculator](#).

Specify DB Details

Free Tier

The Amazon RDS Free Tier provides a single db.t2.micro instance as well as up to 20 GB of storage, allowing new AWS customers to gain hands-on experience with Amazon RDS. Learn more about the RDS Free Tier and the instance restrictions [here](#).

☐ Only show options that are eligible for RDS Free Tier

Instance Specifications

DB Engine: mysql

License Model: [general-public-license](#)

DB Engine Version: [5.6.27](#)

[Review the Known Issues/Limitations to learn about potential compatibility issues with specific database versions.](#)

DB Instance Class: [db.m1.small — 1 vCPU, 1.7 GiB RAM](#)

Multi-AZ Deployment: [No](#)

Storage Type: [General Purpose \(SSD\)](#)

Allocated Storage*: [5](#) GB

Warning: Provisioning less than 100 GB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance. [Click here](#) for more details.

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RDS - AWS Console

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=dashboard:

Prices. Learn More.

Estimate your monthly costs for the DB Instance using the [RDS Instance Cost Calculator](#).

Review the Known Issues/Limitations to learn about potential compatibility issues with specific database versions.

DB Instance Class: **db.m1.small — 1 vCPU, 1.7 GiB RAM**

Multi-AZ Deployment: **No**

Storage Type: **General Purpose (SSD)**

Allocated Storage*: **5** GB

Warning: Provisioning less than 100 GB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance. [Click here](#) for more details.

Settings

DB Instance Identifier*: **EsbiLab3**

Master Username*: **ruwan**

Master Password*: *********

Confirm Password*: *********

Retype the value you specified for Master Password.

* Required

[Cancel](#) [Previous](#) [Next Step](#)

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• Step 06: Configure Advanced Settings.

Give a Database Name and enter 0 for Backup Retention Period. Then click 'Launch DB Instance'

RDS - AWS Console

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=dashboard:

Step 1: Select Engine

Step 2: Production?

Step 3: Specify DB Details

Step 4: Configure Advanced Settings

Configure Advanced Settings

Network & Security

VPC*: **Default VPC (vpc-7b6e1d1f)**

Subnet Group: **default**

Publicly Accessible: **Yes**

Availability Zone: **No Preference**

VPC Security Group(s): **Create new Security Group**

Database Options

Database Name: **lab3_db**

Note: if no database name is specified then no initial MySQL database will be created on the DB Instance.

Database Port: **3306**

DB Parameter Group: **default:mysql5.6**

Option Group: **default:mysql-5-6**

Copy Tags To Snapshots: ☐

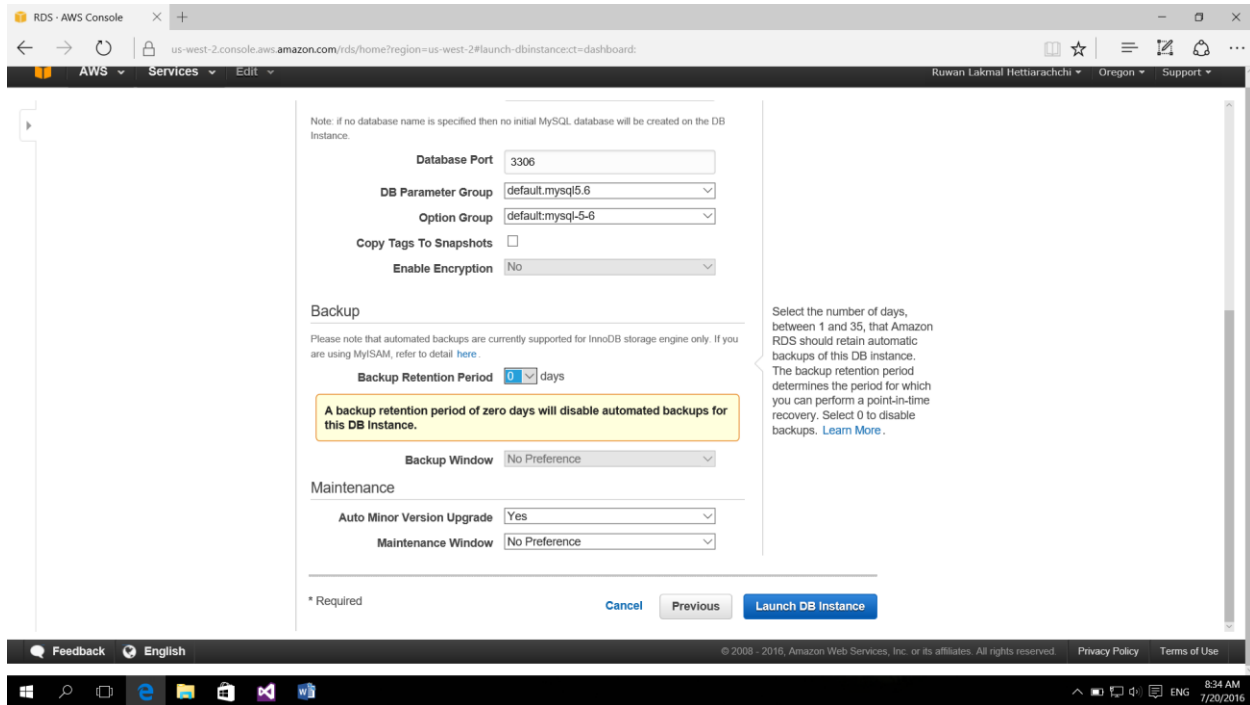
Enable Encryption: **No**

Specify a string of up to 64 alpha-numeric characters that define the name given to a database that Amazon RDS creates when it creates the DB instance, as in "mydb". If you do not specify a database name, Amazon RDS does not create a database when it creates the DB instance.

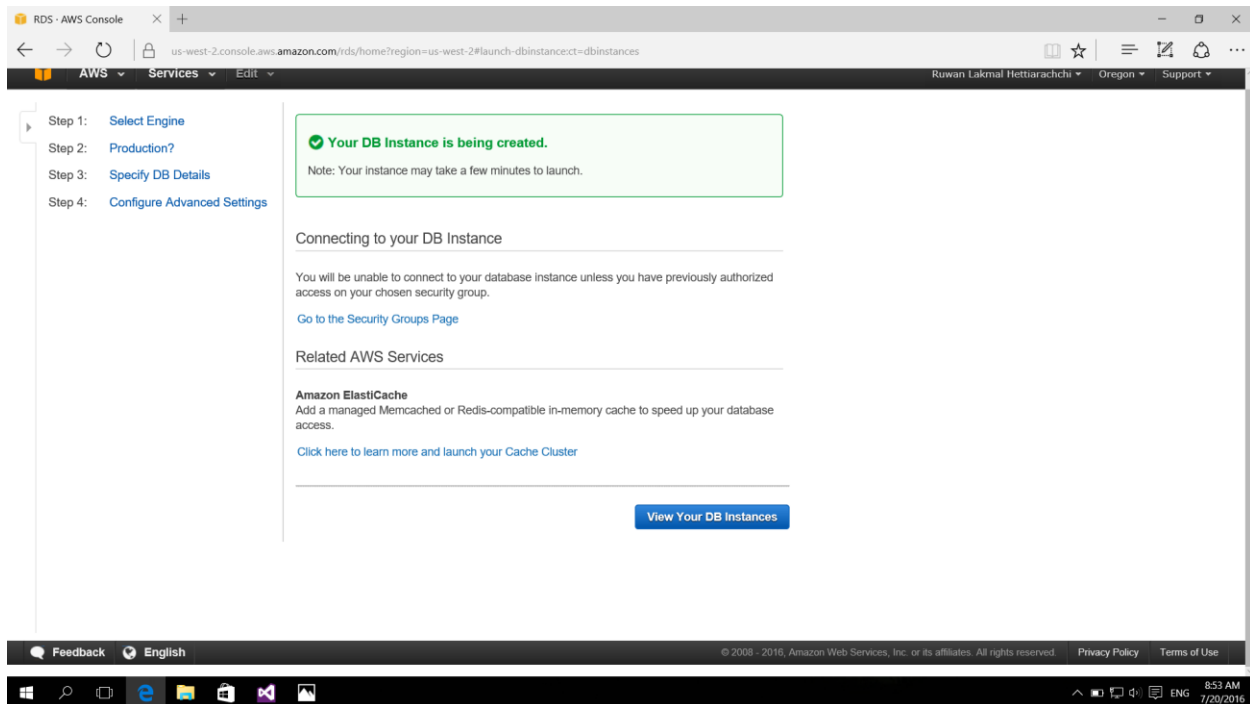
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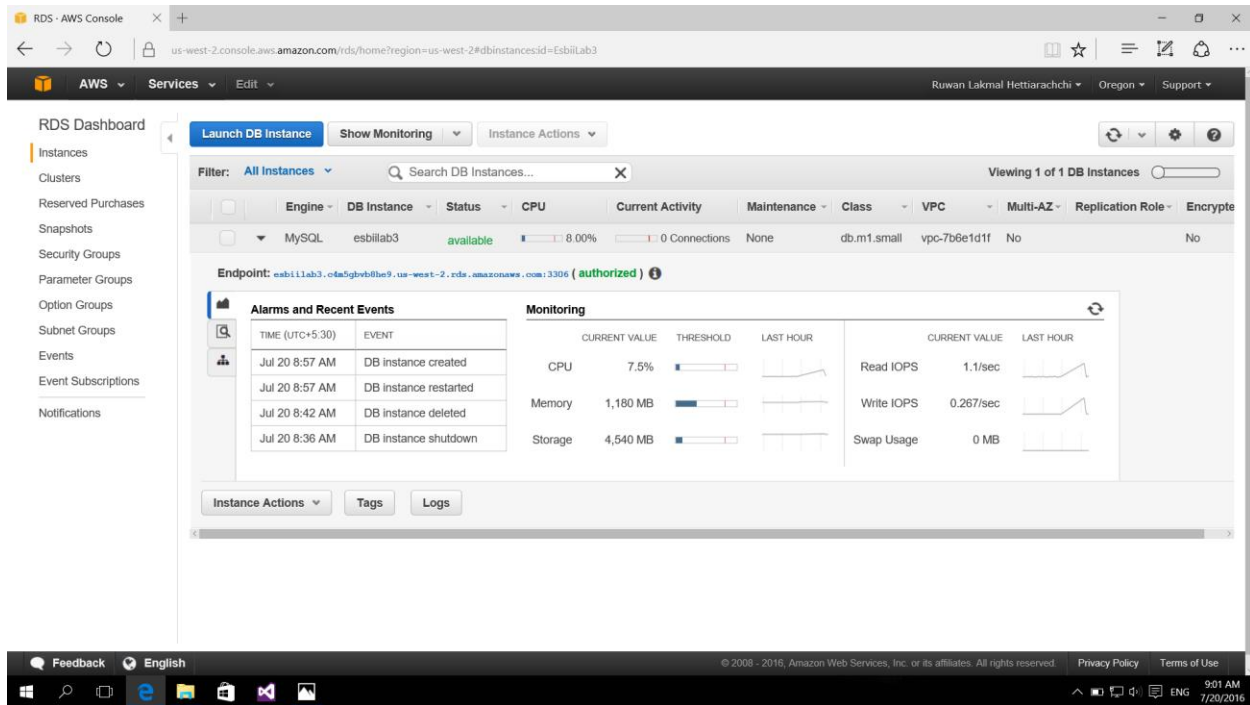
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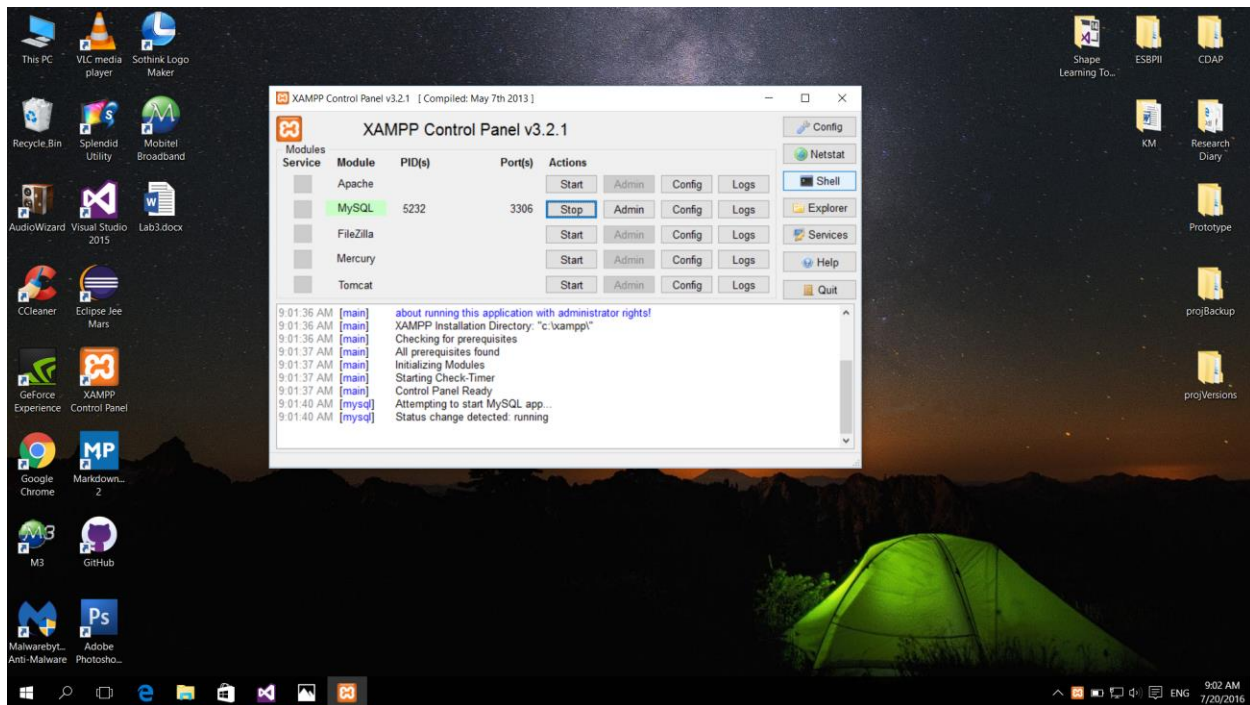
- Step 07: Click 'View Your DB Instances'



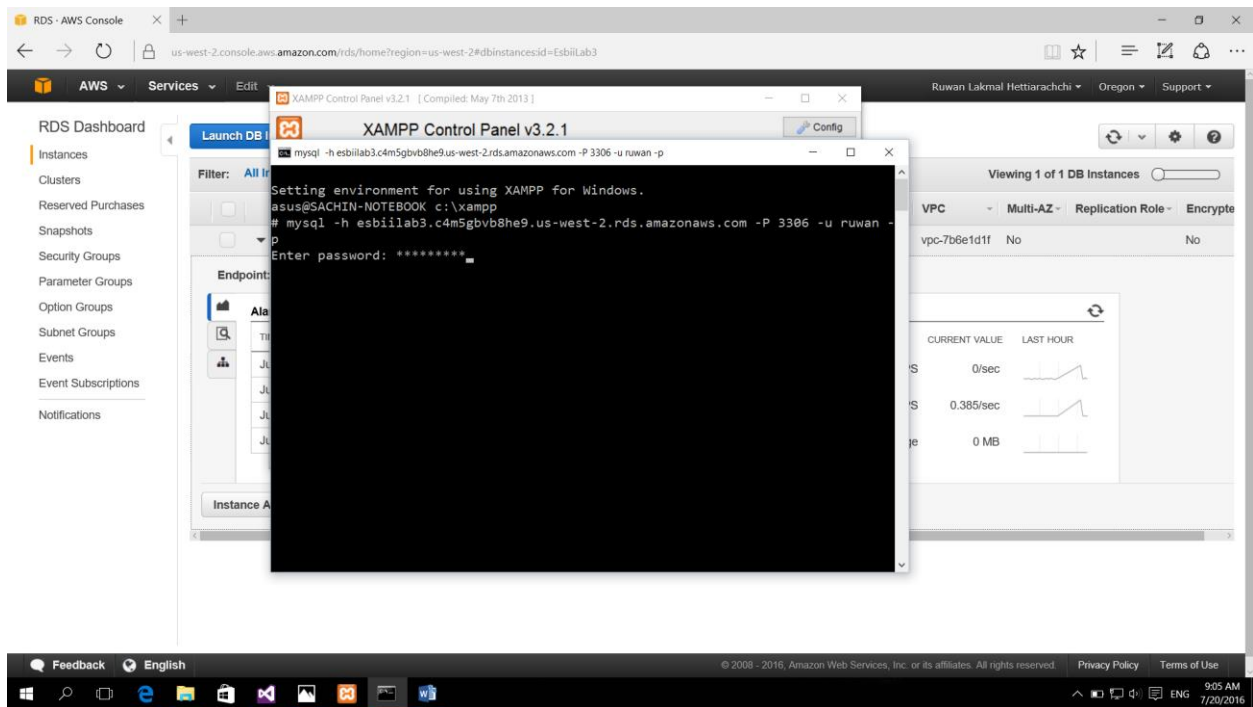
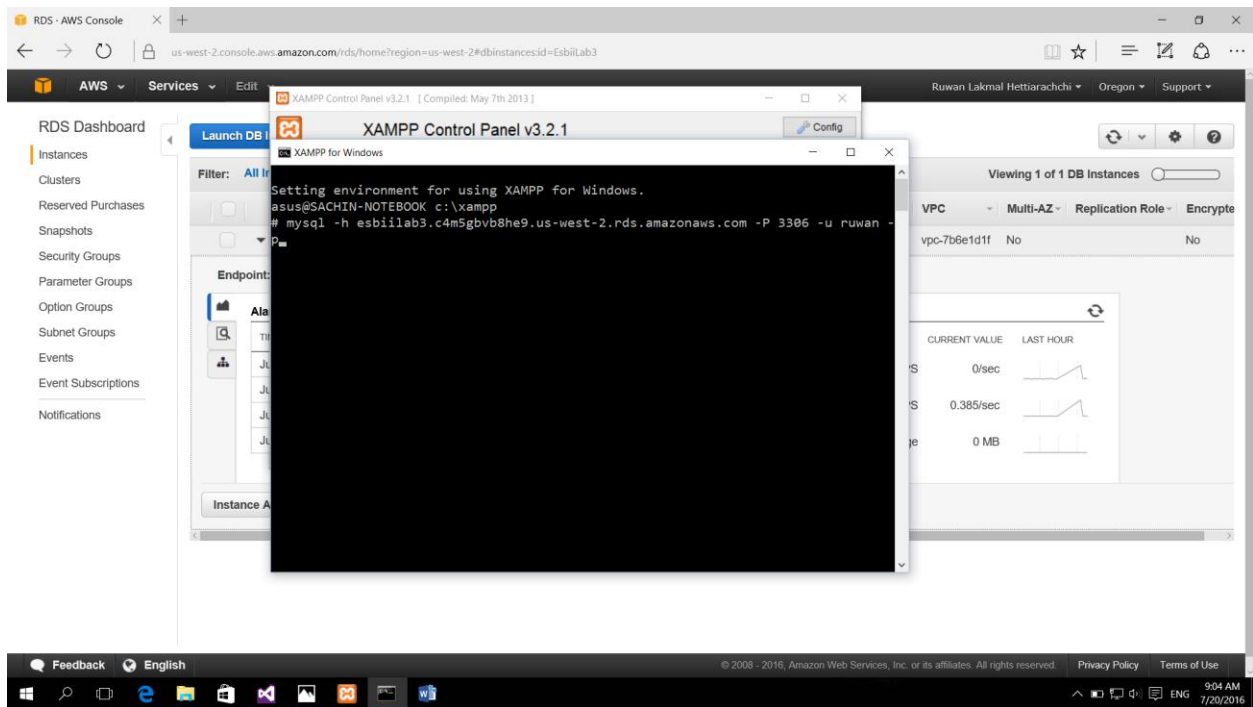
- Step 08: Wait until the Status change to available. Then expand the instance to get the Endpoint. Copy the Endpoint without port number.

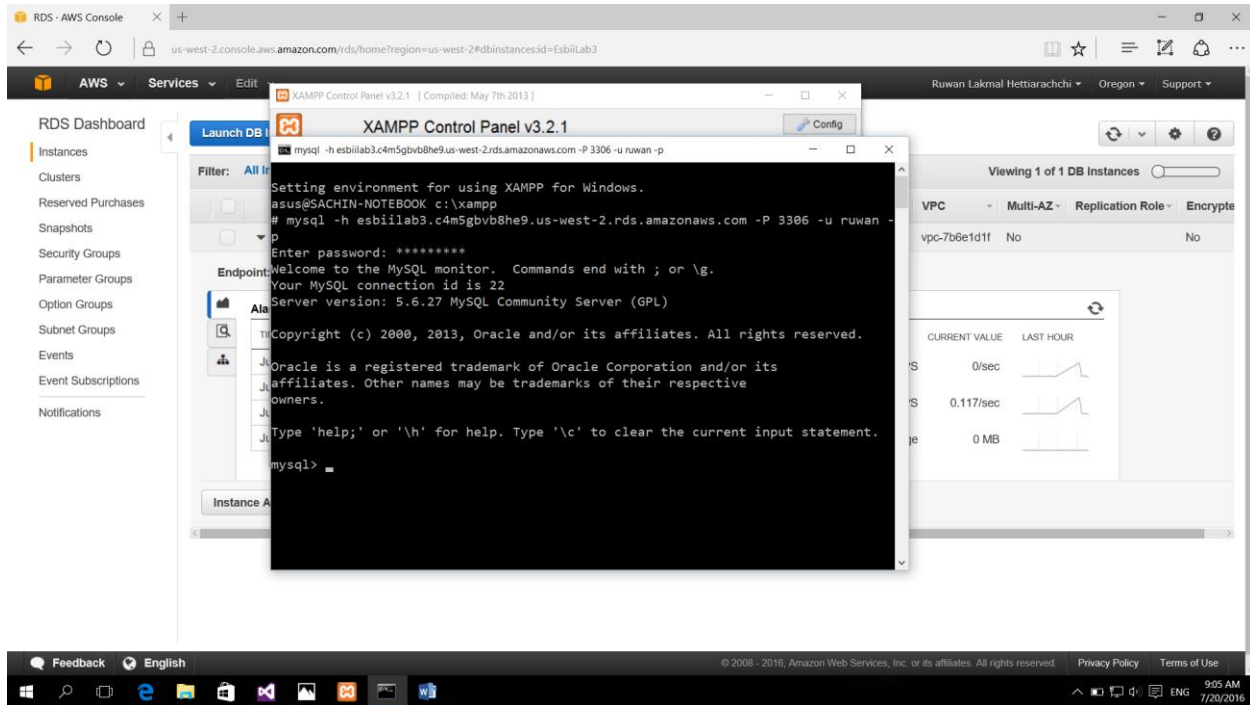


- Step 09: Open XAMPP Control Panel and start MySQL.

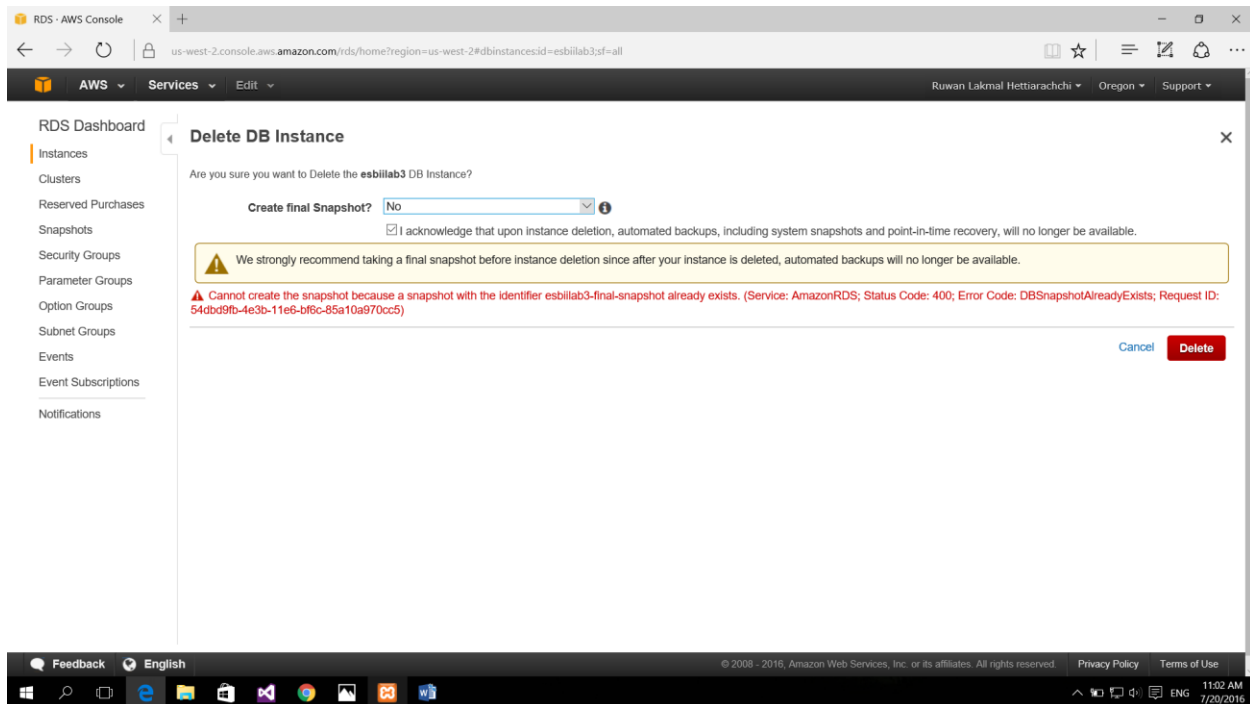


- Step 10: Open the Shell in XAMPP Control Panel and type the following command 'mysql -h <endpoint> -P 3306 -u <masterusername> -p' and enter the master password.





• Step 11: Delete the created DB Instance



RDS · AWS Console

us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstancescf=all

AWS

Services

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RDS Dashboard

Instances

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Launch DB Instance

Show Monitoring

Instance Actions

Filter: All Instances

Search DB Instances...

No DB Instances

Engine

DB Instance

Status

CPU

Current Activity

Maintenance

Class

VPC

Multi-AZ

Replication Role

Encrypted

Amazon Relational Database Service (RDS) is a web service that makes it easy to set up, operate, and scale a relational database in the cloud. We currently offer MySQL, SQL Server, Postgres and Oracle engines, allowing you to use the code, application and tools you already use with your existing database with Amazon RDS. You can find pricing information for RDS [here](#). Click the Launch DB Instance button to get started.

Note: Your DB Instances will launch in the US West (Oregon) region.

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