



# SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4<sup>th</sup> Year 2<sup>nd</sup> Semester 2016

Lab Assignment 3

Installing MySQL in Cloud Amazon

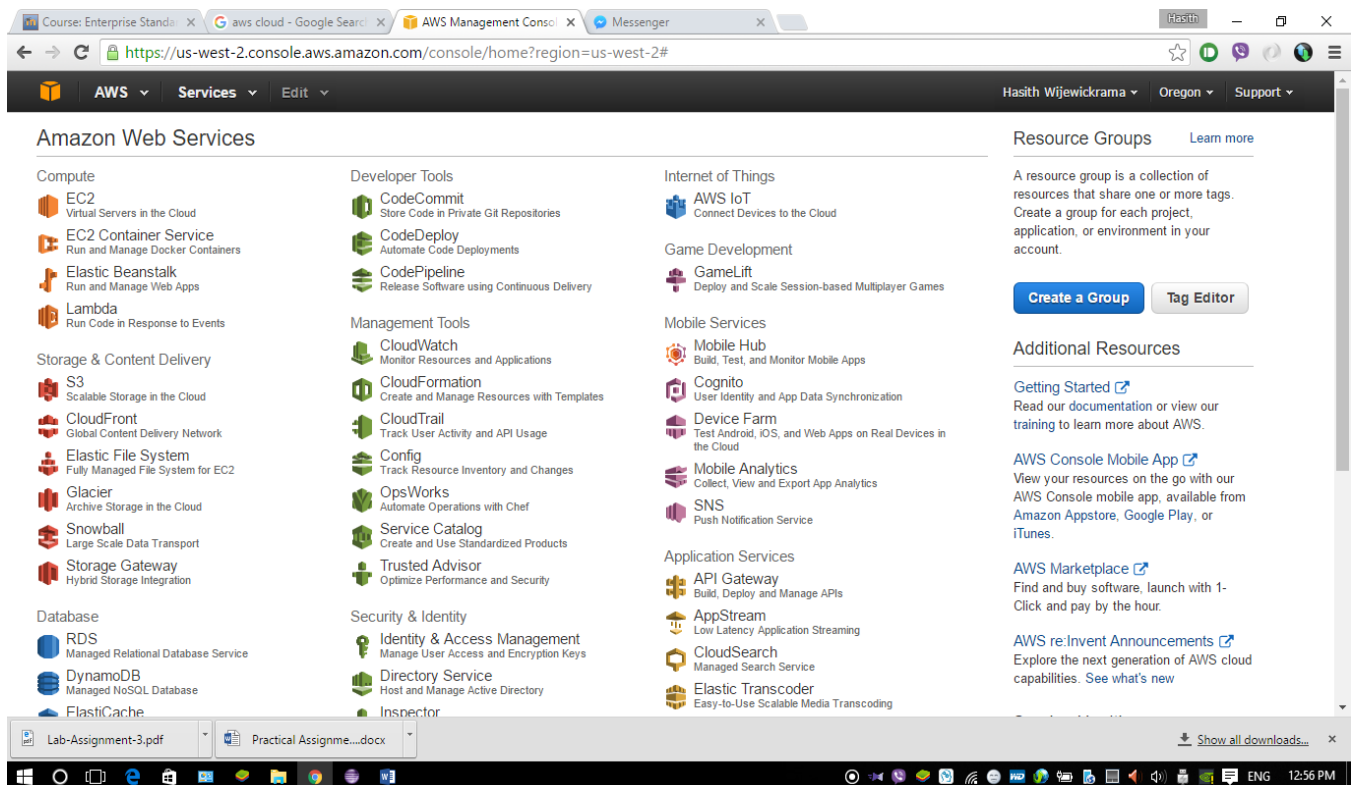
R.G.H.K.Wijewickrama

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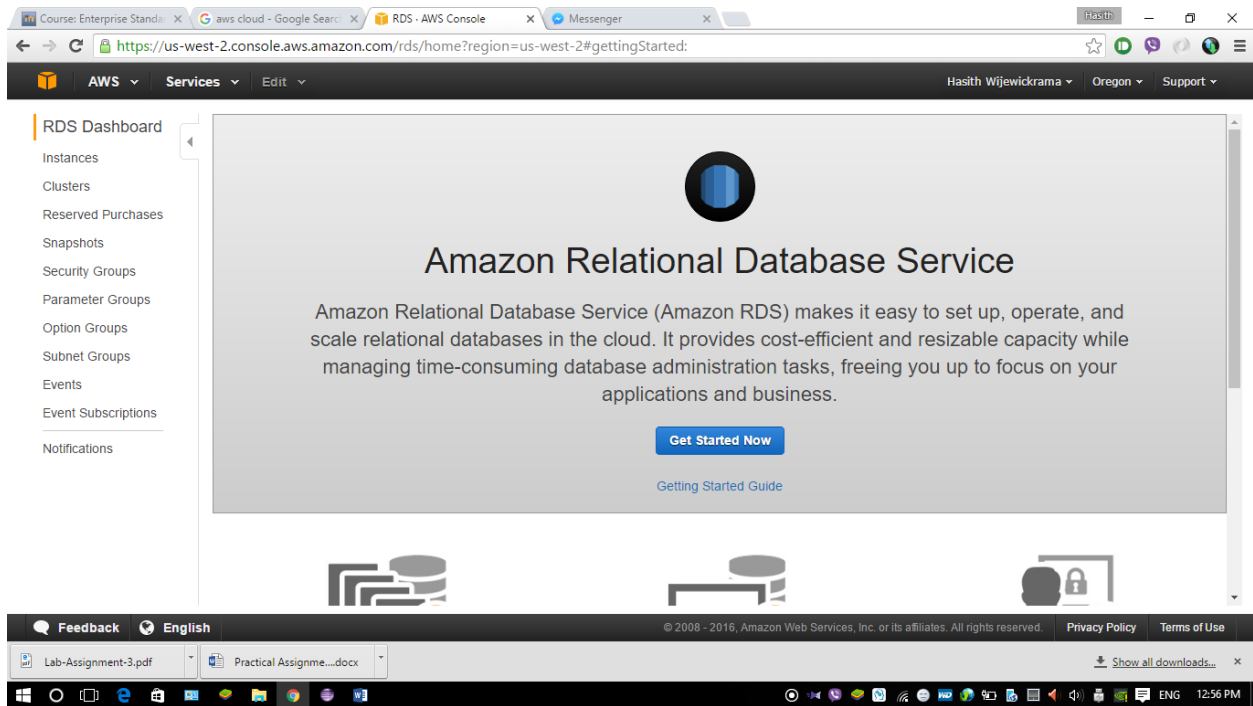
Weekday – IT

Here we are going to install mysql database in amazon cloud. So that we can remotely access to the database and store and retrieve values.

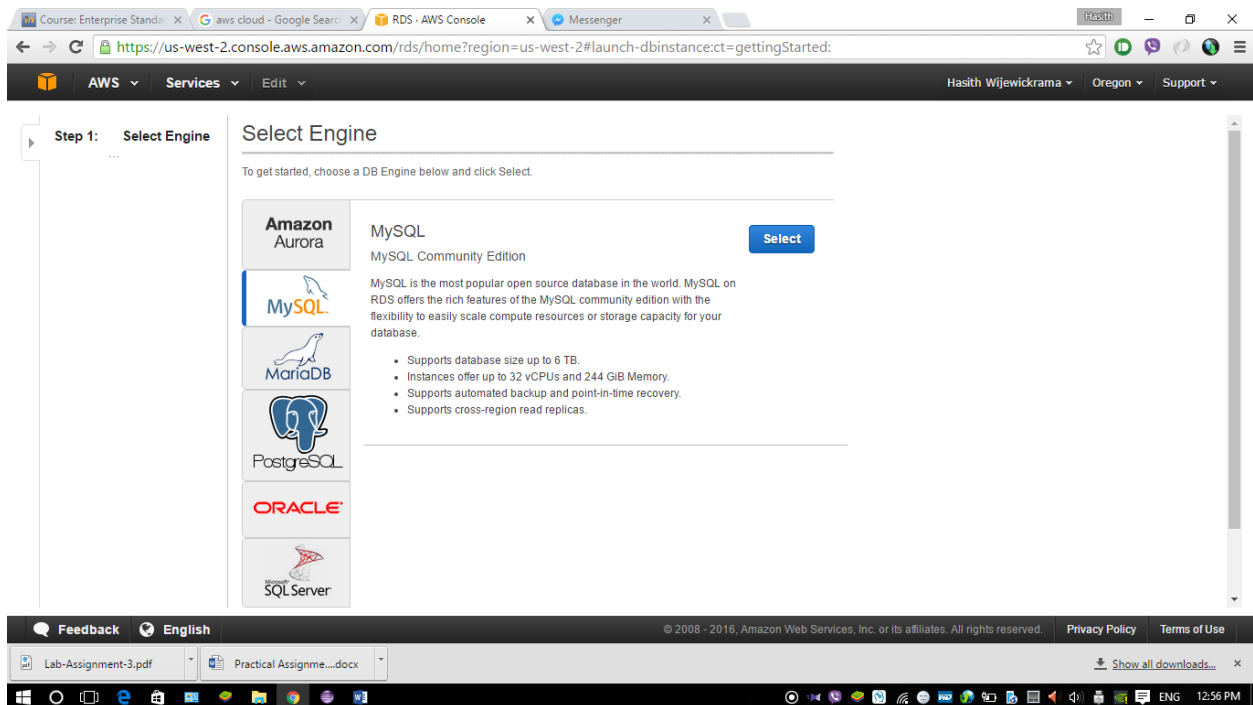
1. First of all login to your amazon account. From there select RDS under the Database category.



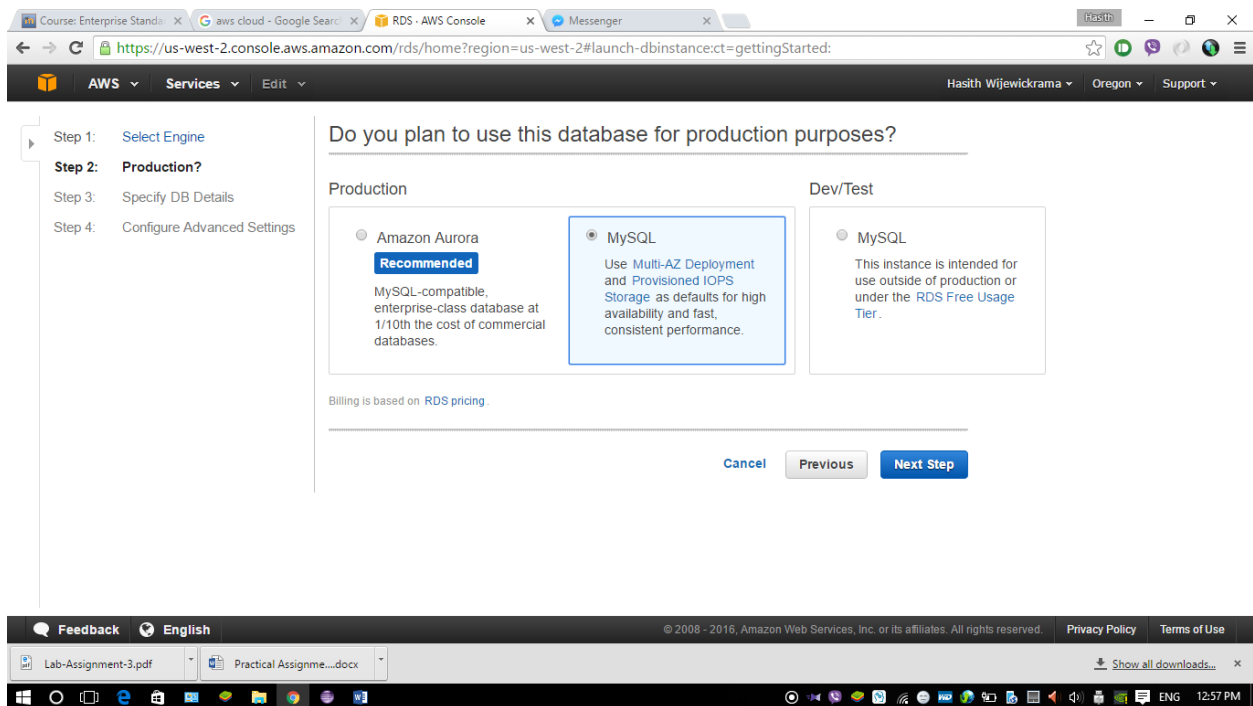
2. Click on Get Started Now to create the db instance.



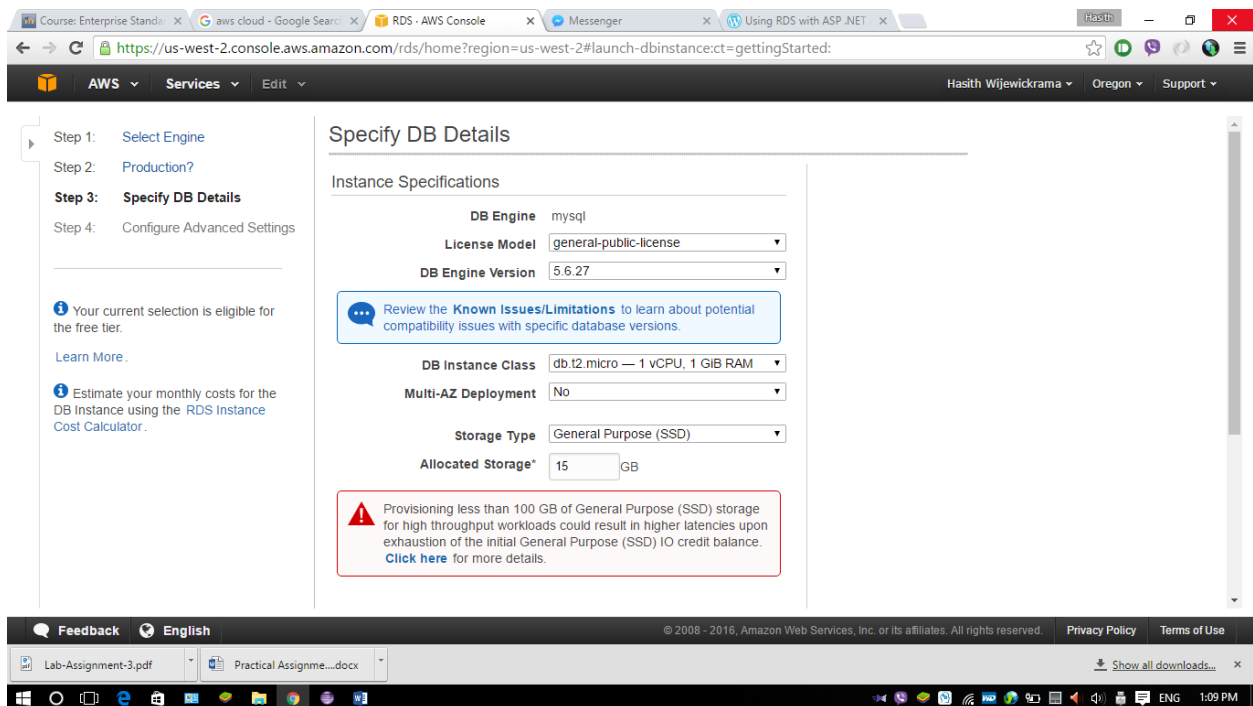
3. Select MySQL as the database engine.



#### 4. Select Mysql.



#### 5. Change the DB instance class, Allocated storage and other fields as mentioned below.



6. Fill the other details such as DB instance identifier, Master username, Password and continue.

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

AWS Services Edit

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

Multi-AZ Deployment: No

Storage Type: General Purpose (SSD)

Allocated Storage\*: 15 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\*: HasyMysql

Master Username\*: Hasithkaushan

Master Password\*: .....

Confirm Password\*: .....

Retype the value you specified for Master Password.

\* Required

Cancel Previous **Next Step**

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7. Choose the VPC Security Group as Create new security group and give a Database name under Database options. Do not change other options and then launch DB instance.

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

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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-a1c4bdc5)

Subnet Group: default

Publicly Accessible: Yes

Availability Zone: No Preference

VPC Security Group(s): Create new Security Group, default (VPC), launch-wizard-1 (VPC), launch-wizard-2 (VPC)

**Database Options**

Database Name: HasyDB

Database Port: 3306

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

**Connection Information**

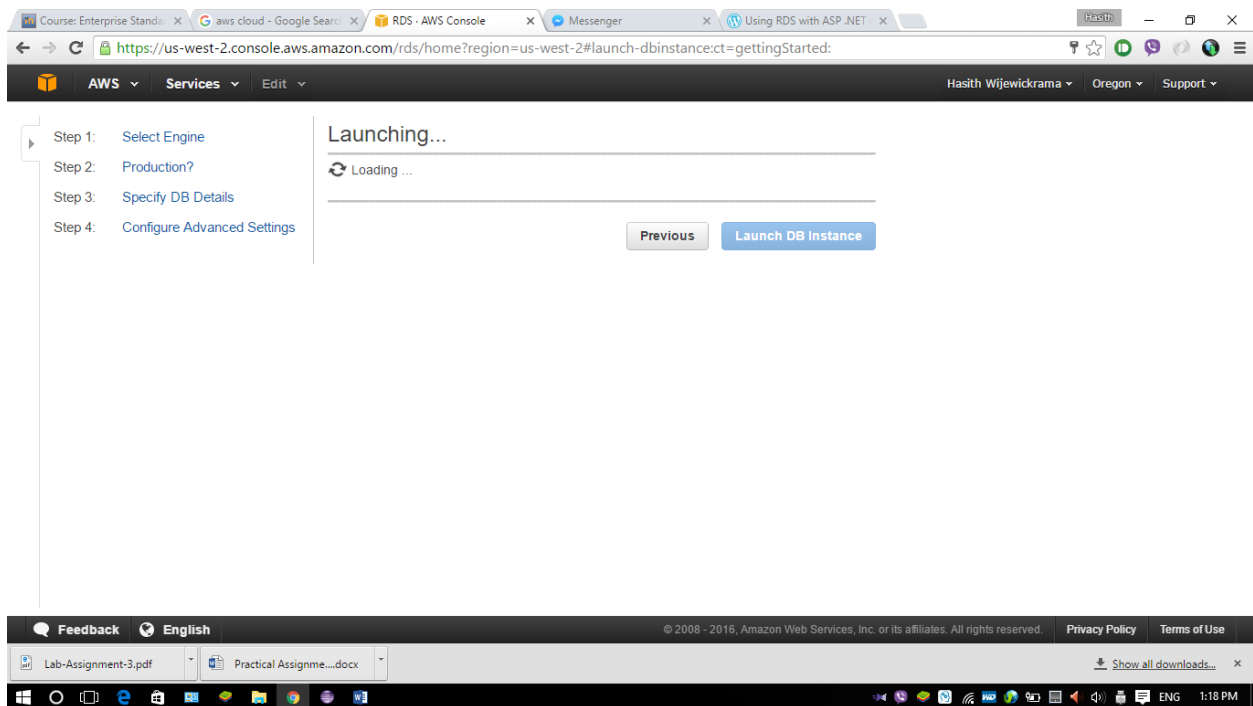
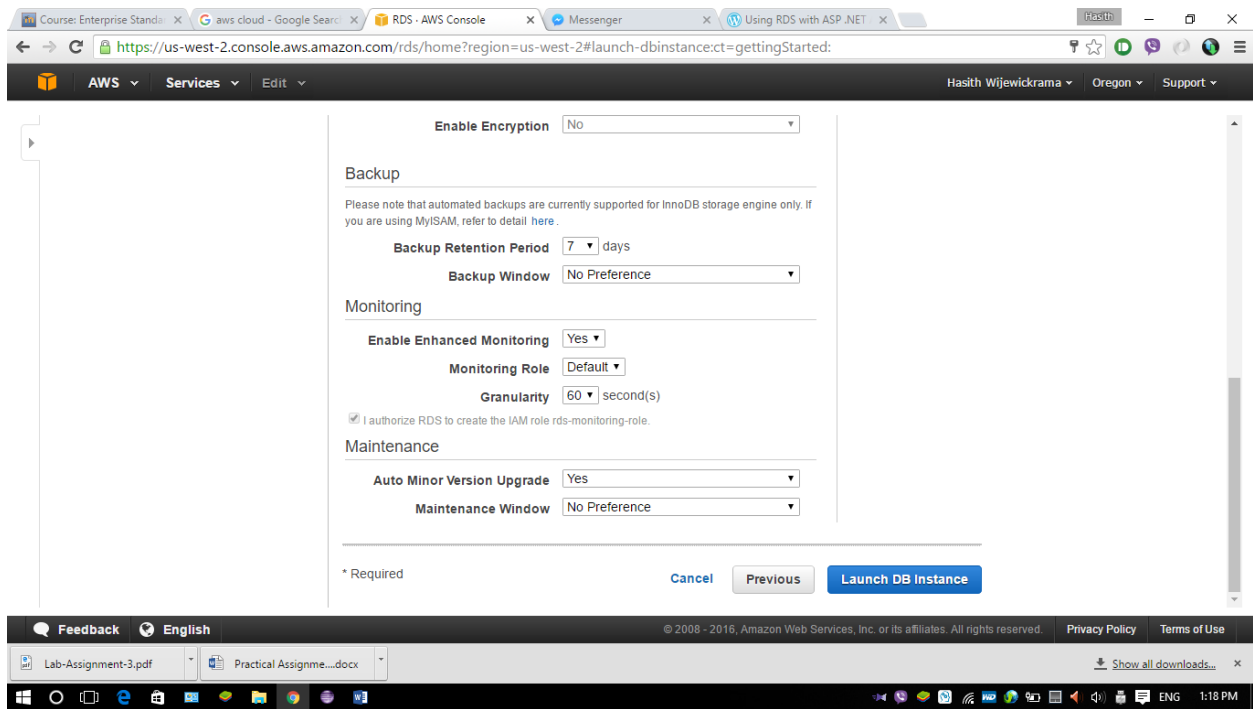
Security Group Rules: A security group allowing your current IP address (175.157.111.198) to connect

Cancel Previous **Next Step**

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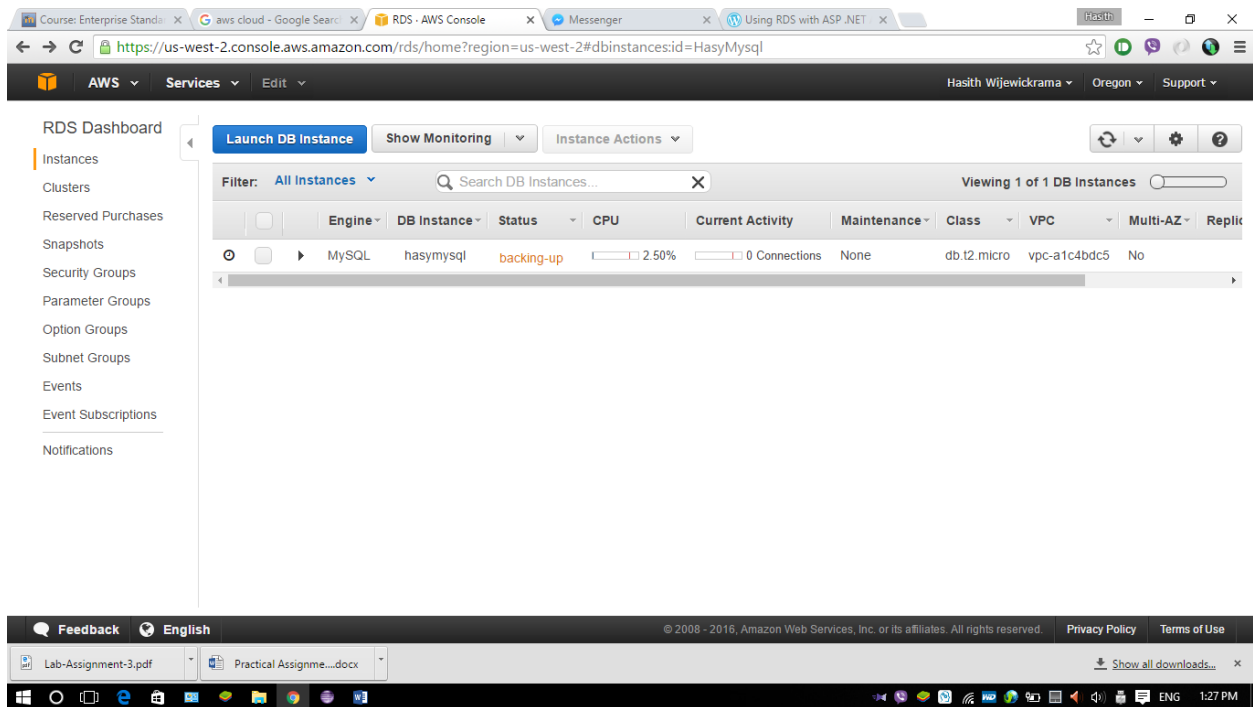


## 8. Now your DB instance is created in the amazon cloud.

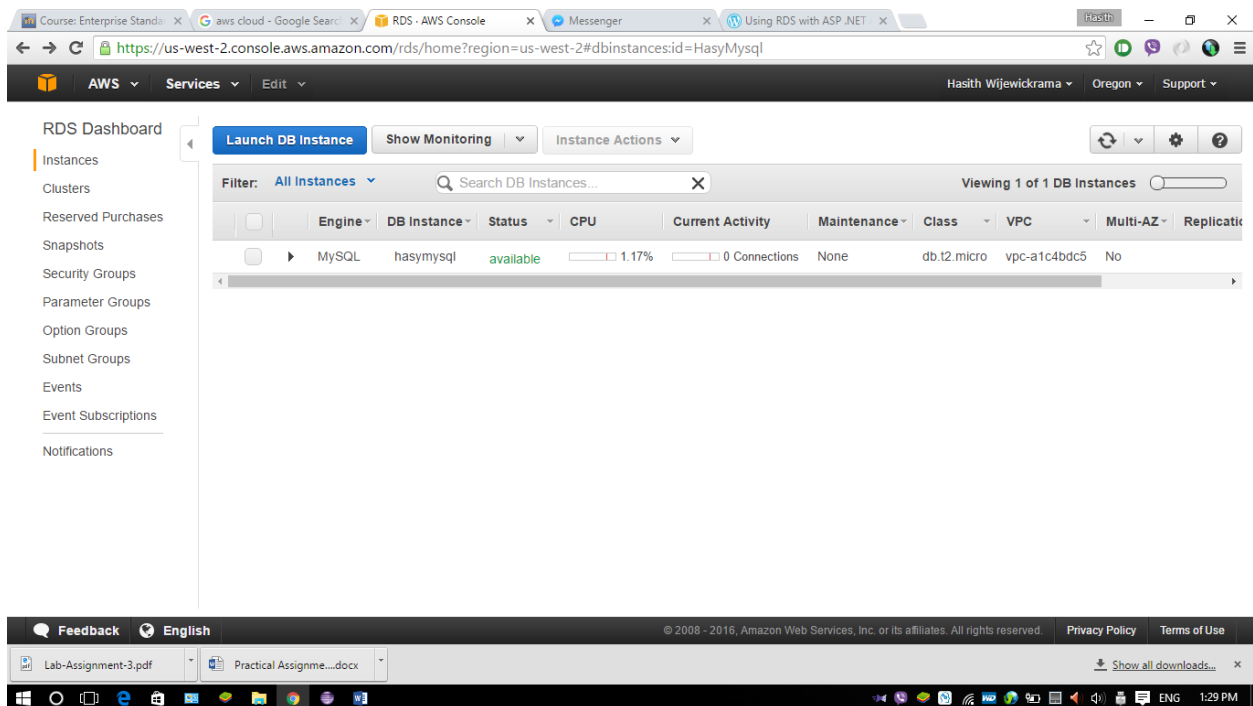
The screenshot shows the AWS RDS console in the 'us-west-2' region. The left sidebar lists steps: Step 1: Select Engine, Step 2: Production?, Step 3: Specify DB Details, and Step 4: Configure Advanced Settings. The main content area displays a green success message: 'Your DB Instance is being created.' with a note: 'Note: Your instance may take a few minutes to launch.' Below this, there is a section 'Connecting to your DB Instance' with a warning that access is required and a link to 'Go to the Security Groups Page'. Another section 'Related AWS Services' promotes 'Amazon ElastiCache' with a link to learn more and launch a cache cluster. A 'View Your DB Instances' button is at the bottom right of the main content area. The footer shows the AWS logo, feedback, language (English), copyright (© 2008 - 2016), and links to Privacy Policy and Terms of Use.

## 9. You can view created DB instance.

The screenshot shows the AWS RDS console with the 'Launch DB Instance' button highlighted. The left sidebar lists various RDS resources: Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups, Events, Event Subscriptions, and Notifications. The main content area displays a table of DB instances. The table has columns: Filter (All Instances), Search DB Instances..., Viewing 1 of 1 DB Instances, and a table with columns: Engine, DB Instance, Status, CPU, Current Activity, Maintenance, Class, VPC, Multi-AZ, Replication Role, and E. The table contains one instance: MySQL, hasmysql, creating, None, db.t2.micro, vpc-a1c4bdc5, No, and N. The footer shows the AWS logo, feedback, language (English), copyright (© 2008 - 2016), and links to Privacy Policy and Terms of Use.

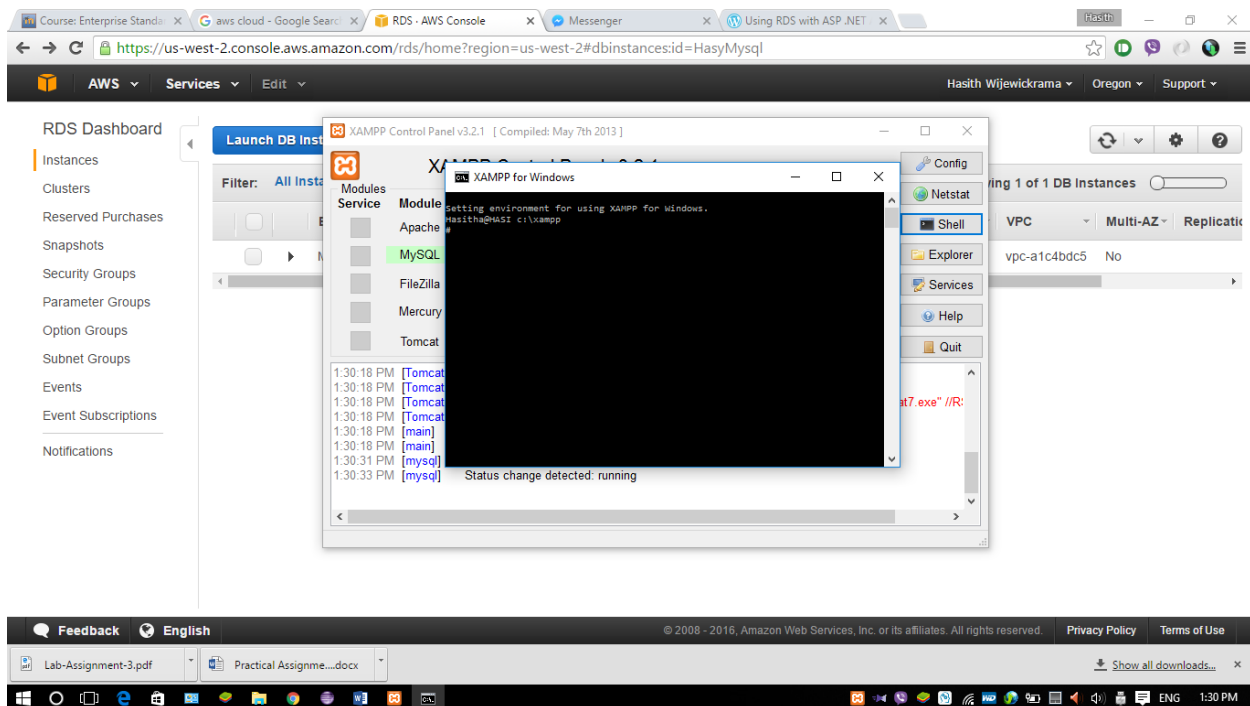
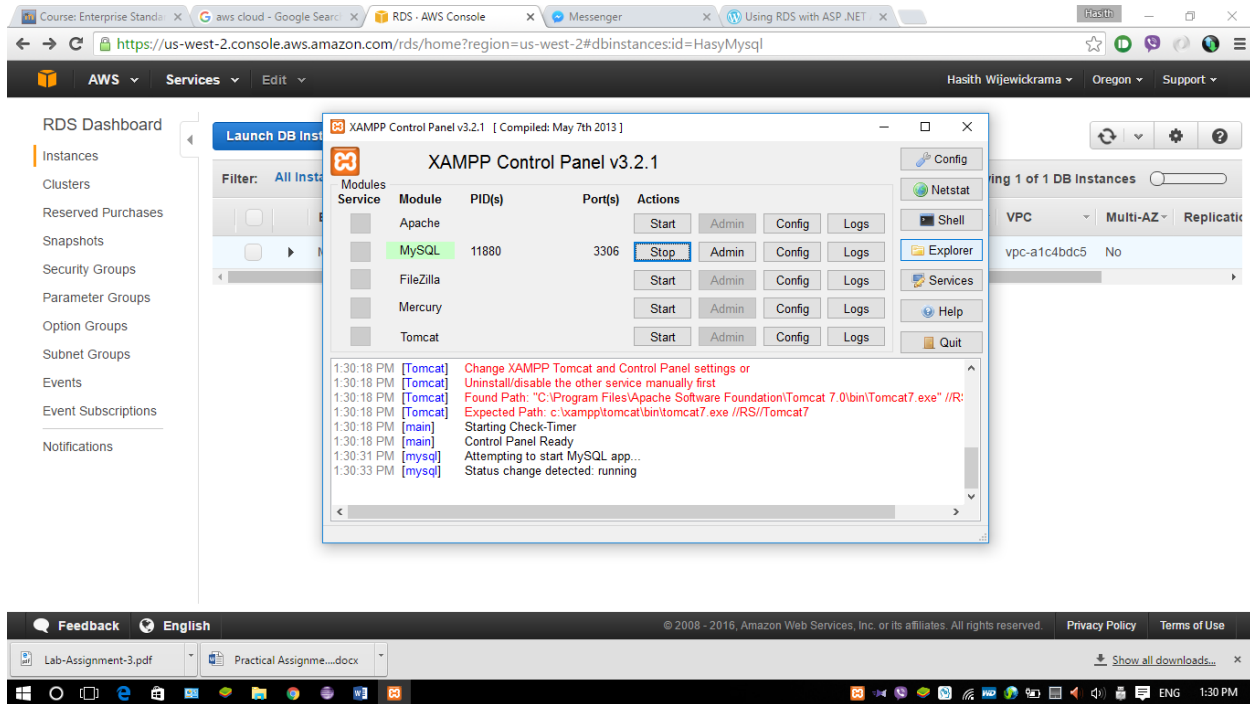


10. Now it is ready to work.





11. In order to the transactions with the DB here I am going to use XAMPP. So open the xampp and start the mysql service. Then open shell.



12. Copy down the Mysql endpoint to connect to the DB.

The screenshot shows the AWS RDS console interface. The top navigation bar includes the AWS logo, 'Services', 'Edit', and user information 'Hasith Wijewickrama'. The left sidebar lists various RDS resources like 'Instances', 'Clusters', 'Reserved Purchases', etc. The main content area displays the details for a MySQL instance named 'hasymysql'. The instance is in the 'available' state with a CPU usage of 1.19% and 0 connections. The endpoint is 'hasymysql.cassyh8m83mq.us-west-2.rds.amazonaws.com:3306 (authorized)'. Below the instance details, there are sections for 'Alarms and Recent Events' and 'Monitoring'. The 'Alarms and Recent Events' section shows a list of events: 'Finished DB Instance backup', 'Backing up DB instance', 'DB instance created', and 'DB instance restarted'. The 'Monitoring' section shows various metrics like CPU, Memory, Storage, Read IOPS, Write IOPS, and Swap Usage.

13. Type the following command in the shell and enter the previously created password. Now you can successfully connect with the database using Xampp and do any transactions.

This screenshot is similar to the previous one, showing the AWS RDS console. Overlaid on top of the console is a terminal window. The terminal window shows the command 'mysql -h hasymysql.cassyh8m83mq.us-west-2.rds.amazonaws.com -u Hasitha -p' being executed. The output of the command is 'Setting environment for using XAMPP for Windows.' followed by 'mysql>' indicating a successful connection to the MySQL database. The terminal window also shows the command 'mysql -h hasymysql.cassyh8m83mq.us-west-2.rds.amazonaws.com -p 3306 -u Hasitha -p' being executed, and the output 'mysql>' indicating a successful connection.