Enterprise Standards and Best Practices for IT Infrastructure

Lab Report

Lab 03 - Creating an Amazon RDS Database

Amaranayake R.E-IT13069728

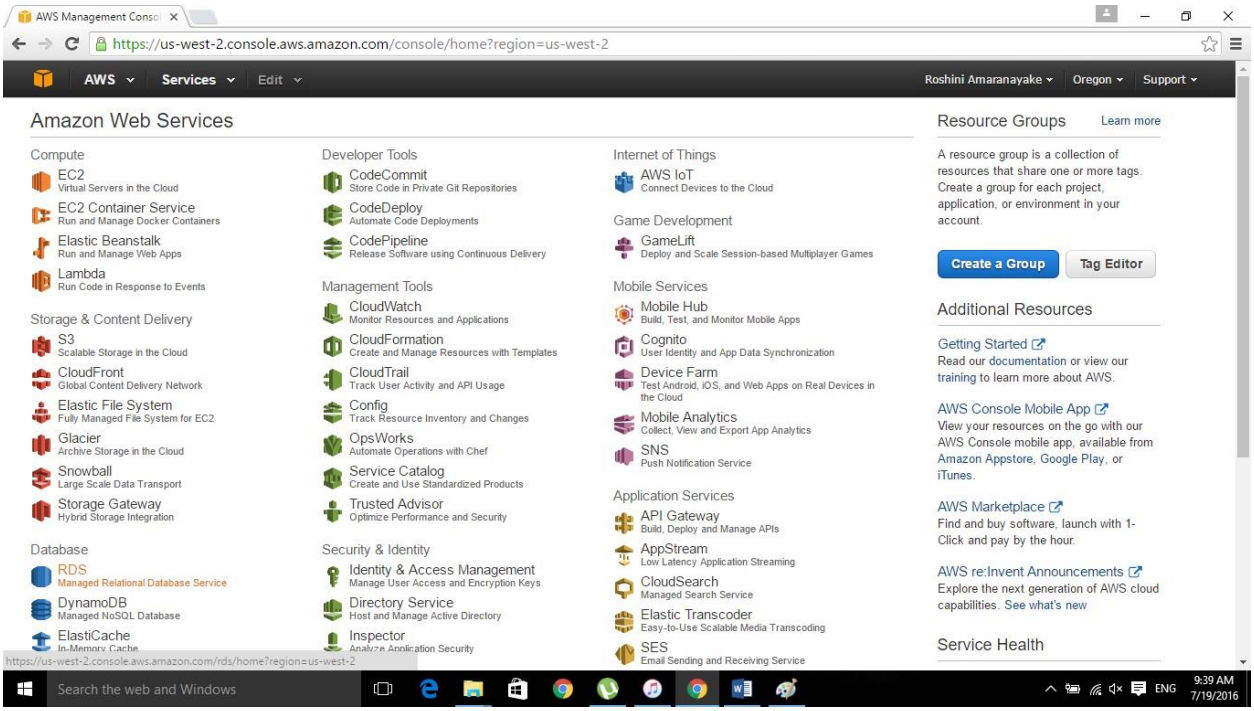
Sri Lanka Institute of Information Technology

B.Sc. Special (Honors) Degree in Information Technology

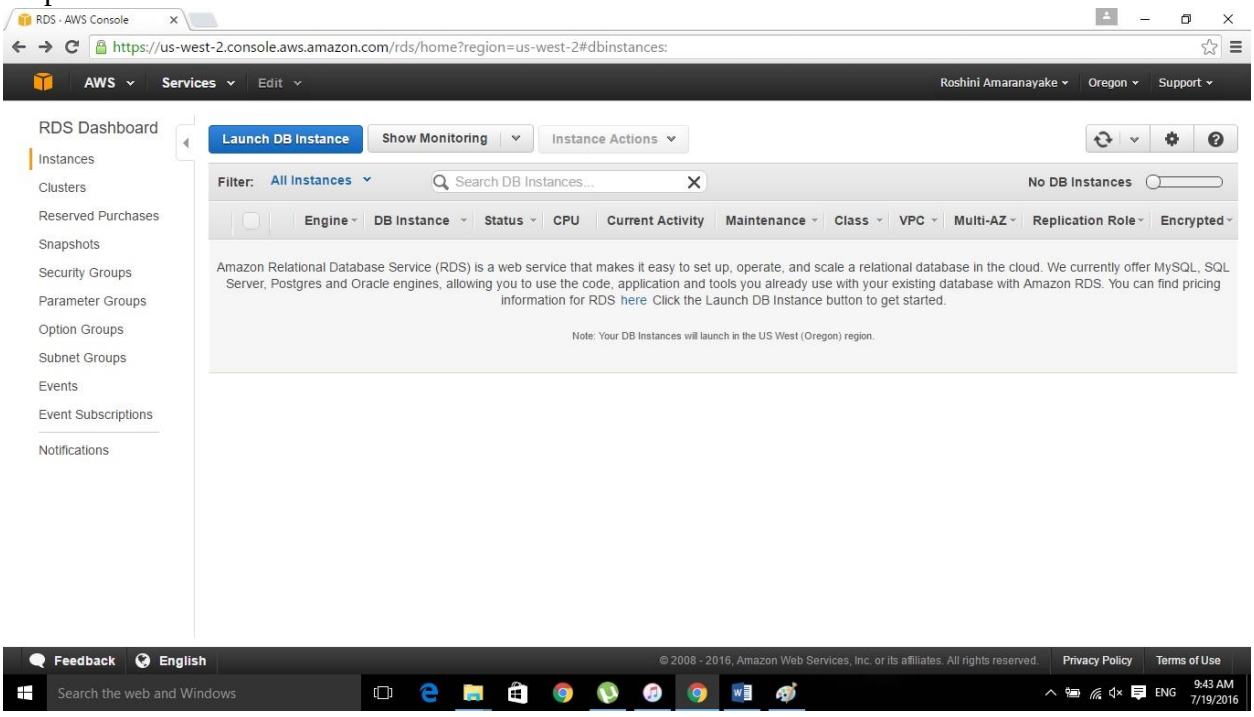
Specialized in Information Technology

Creating an Amazon RDS Database

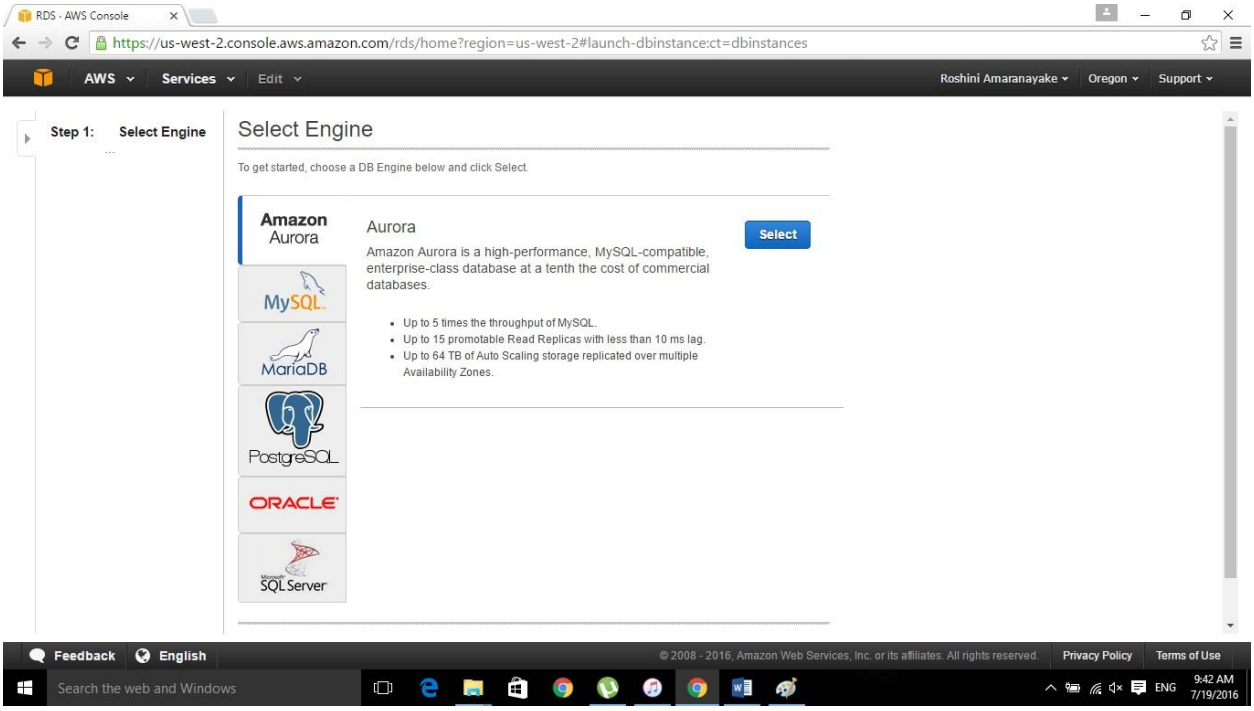
Step 01: Select RDS from Amazon Web Services. (Services -> RDS)



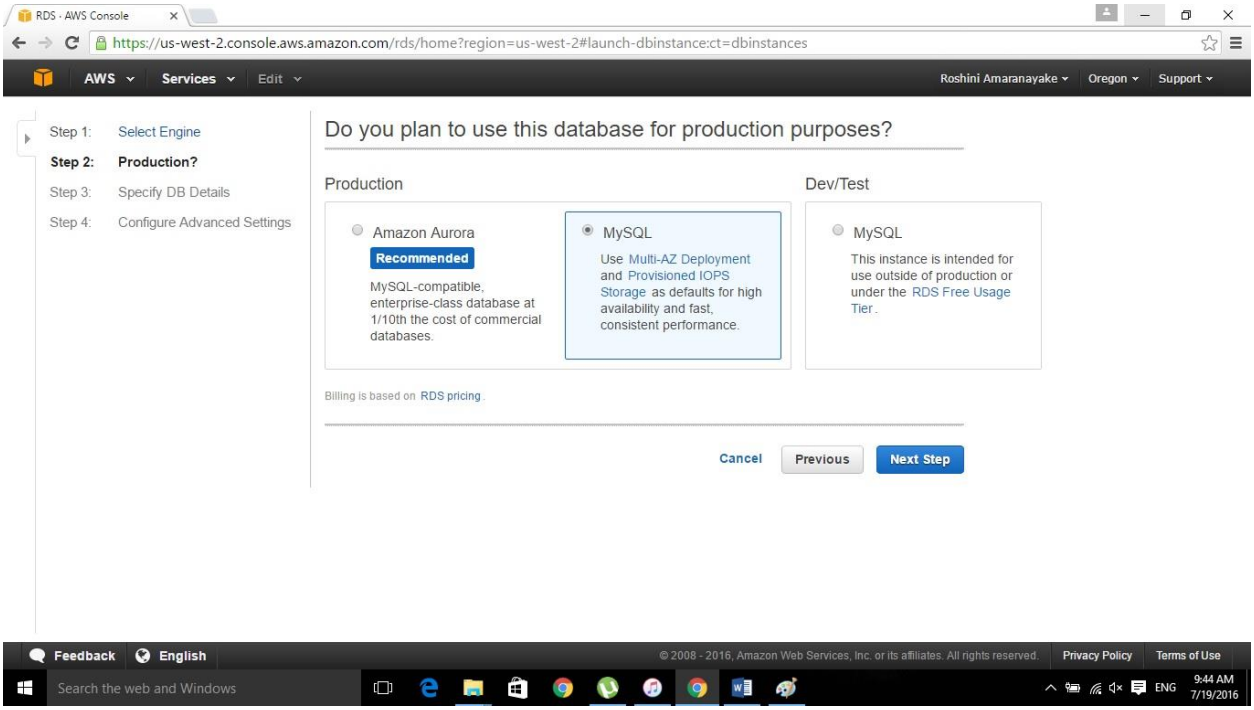
Step 02: Choose Instances from RDS Dashboard. Select Launch DB Instance.



Step 03: Choose MySQL from ‘Select Engine’ tab.



Step 04: Select MySQL under ‘Production’ category. Then proceed to next step



Step 05: Specify the DB details. (Instance Specifications and Settings)

License Model: general-public-license

DB Engine Version: 5.6.19a

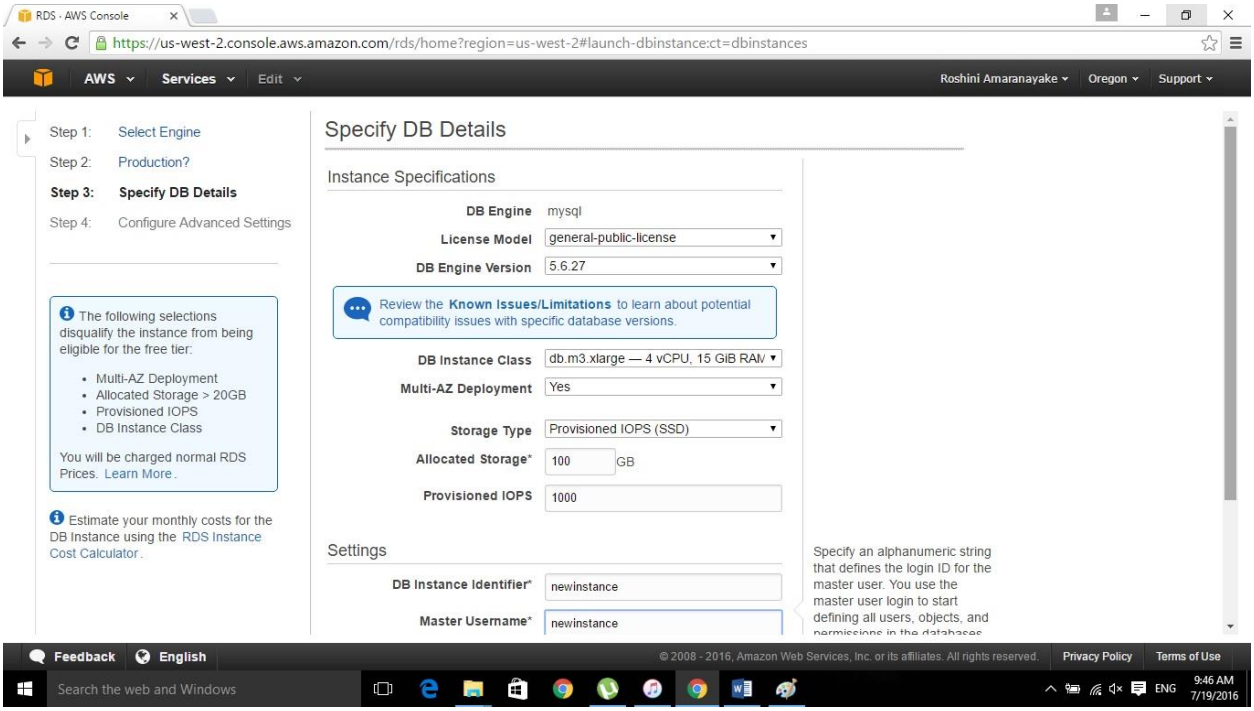
DB Instance Class: db.t2.micro – 1 vCPU, 1 GiB RAM

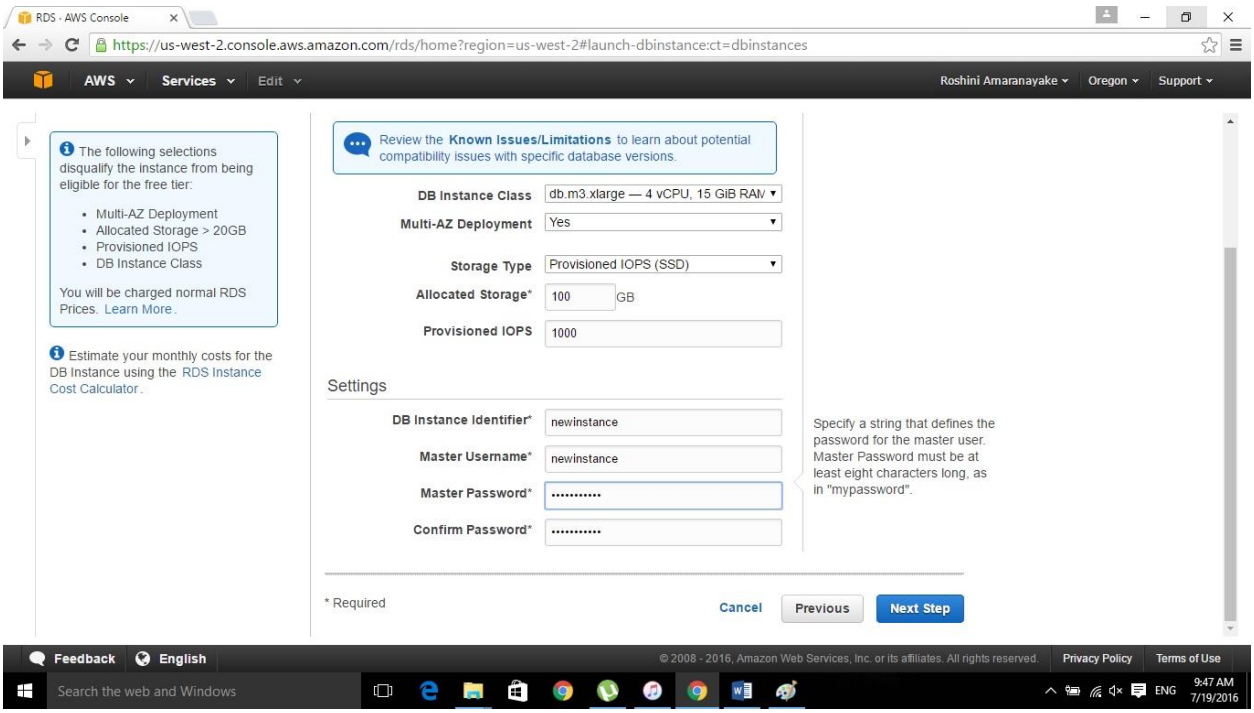
Multi-AZ Deployment: No

Storage Type: General Purpose (SSD)

Allocated Storage: 15 GB

Provide a DB instance identifier, a master username and a master password.

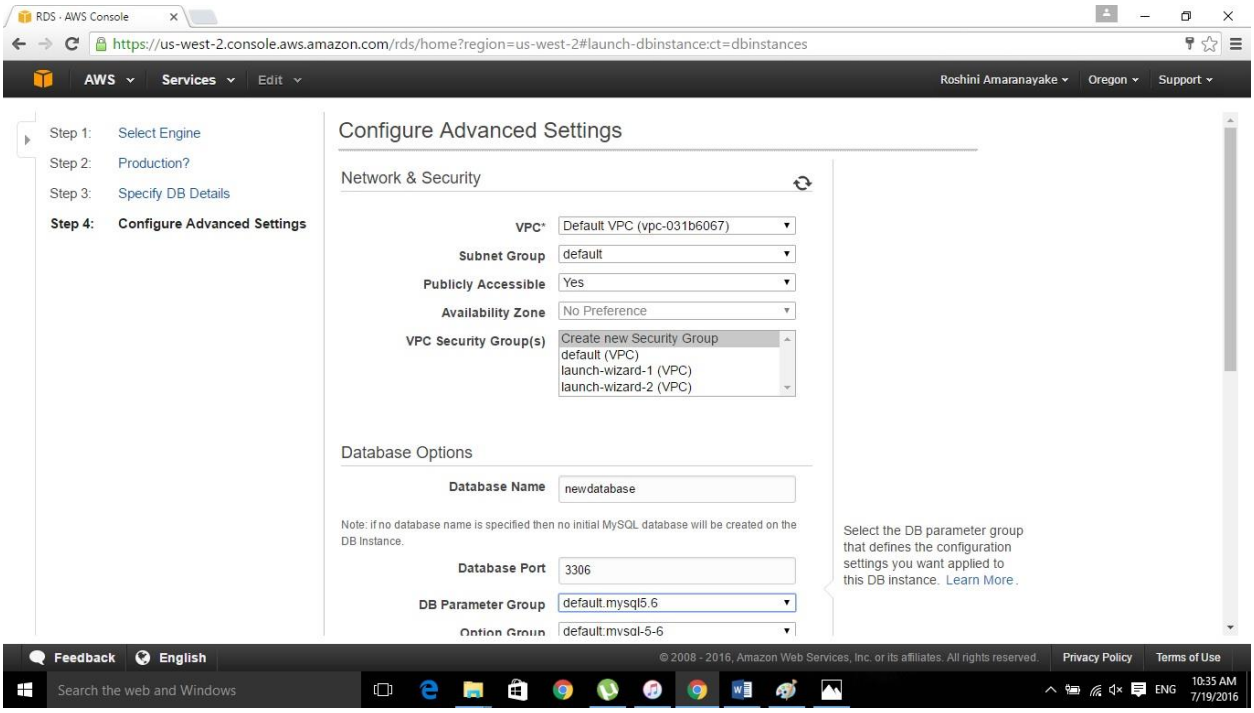

RDS - AWS Console
https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=dbinstances
AWS
Services
Edit
Roshini Amaranayake
Oregon
Support
Step 1: Select Engine
Step 2: Production?
Step 3: Specify DB Details
Step 4: Configure Advanced Settings
The following selections disqualify the instance from being eligible for the free tier:
Multi-AZ Deployment
Allocated Storage > 20GB
Provisioned IOPS
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
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.m3.xlarge — 4 vCPU, 15 GiB RAM
Multi-AZ Deployment Yes
Storage Type Provisioned IOPS (SSD)
Allocated Storage* 100 GB
Provisioned IOPS 1000
Settings
DB Instance Identifier* newinstance
Master Username* newinstance
Specify an alphanumeric string that defines the login ID for the master user. You use the master user login to start defining all users, objects, and
Feedback
English
© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.
Privacy Policy
Terms of Use
Search the web and Windows
ENG
9:46 AM
7/19/2016

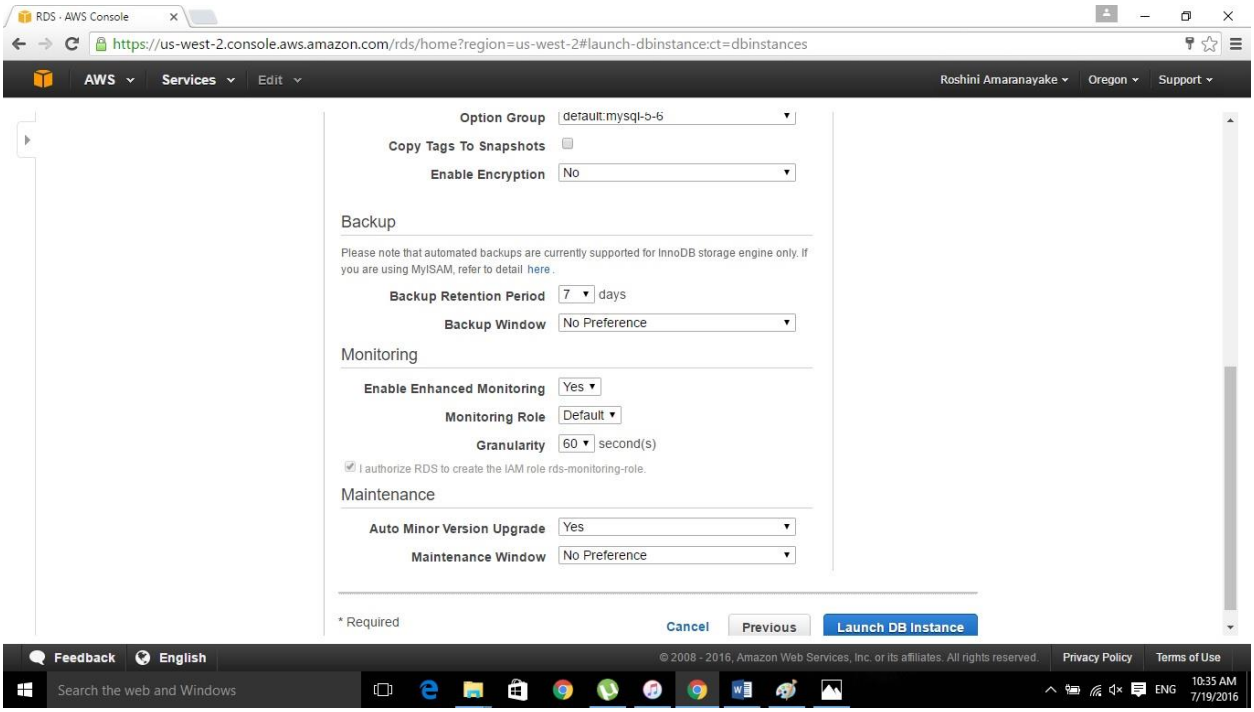

RDS - AWS Console
https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=dbinstances
AWS
Services
Edit
Roshini Amaranayake
Oregon
Support
The following selections disqualify the instance from being eligible for the free tier:
Multi-AZ Deployment
Allocated Storage > 20GB
Provisioned IOPS
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.
Review the Known Issues/Limitations to learn about potential compatibility issues with specific database versions.
DB Instance Class db.m3.xlarge — 4 vCPU, 15 GiB RAM
Multi-AZ Deployment Yes
Storage Type Provisioned IOPS (SSD)
Allocated Storage* 100 GB
Provisioned IOPS 1000
Settings
DB Instance Identifier* newinstance
Master Username* newinstance
Master Password* ••••••••••
Confirm Password* ••••••••••
Specify a string that defines the password for the master user. Master Password must be at least eight characters long, as in "mypassword".
* Required
Cancel
Previous
Next Step
Feedback
English
© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.
Privacy Policy
Terms of Use
Search the web and Windows
ENG
9:47 AM
7/19/2016

Step 06: Give a database name in ‘Configure Advanced Settings’ tab. (Database Options)

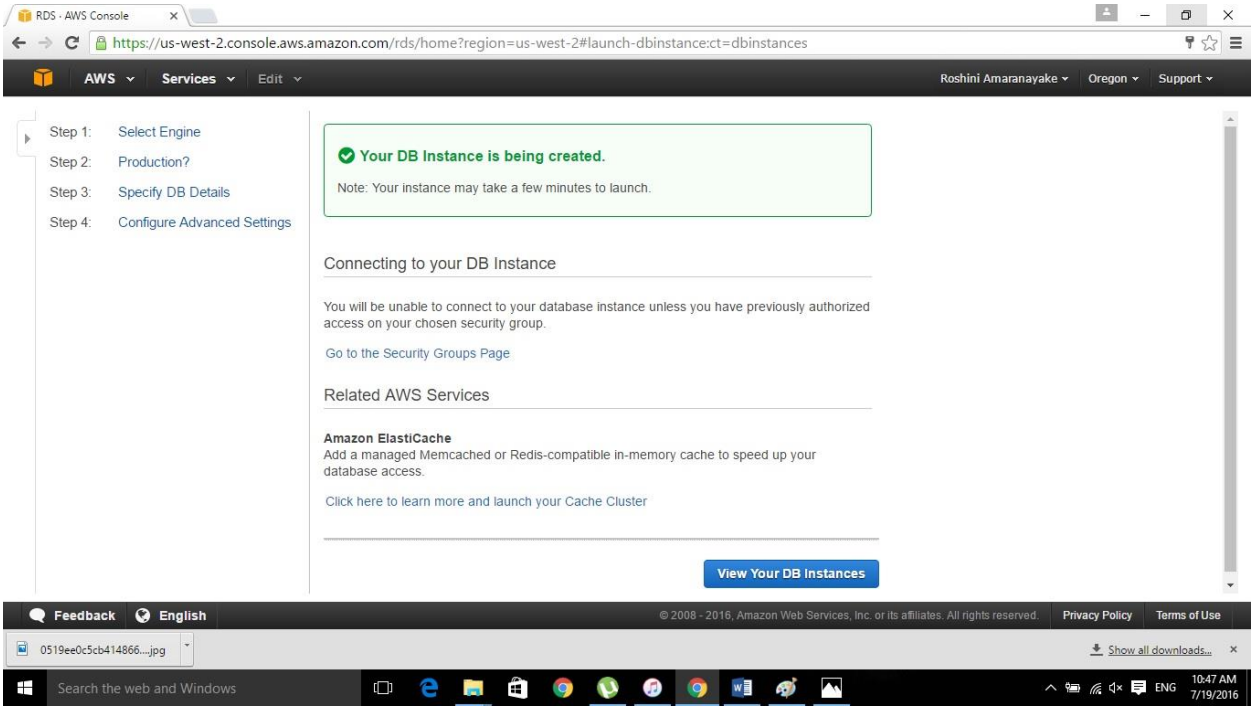
Choose ‘No’ in Enable Enhanced Monitoring. (Monitoring)

Click ‘Launch DB Instance’.



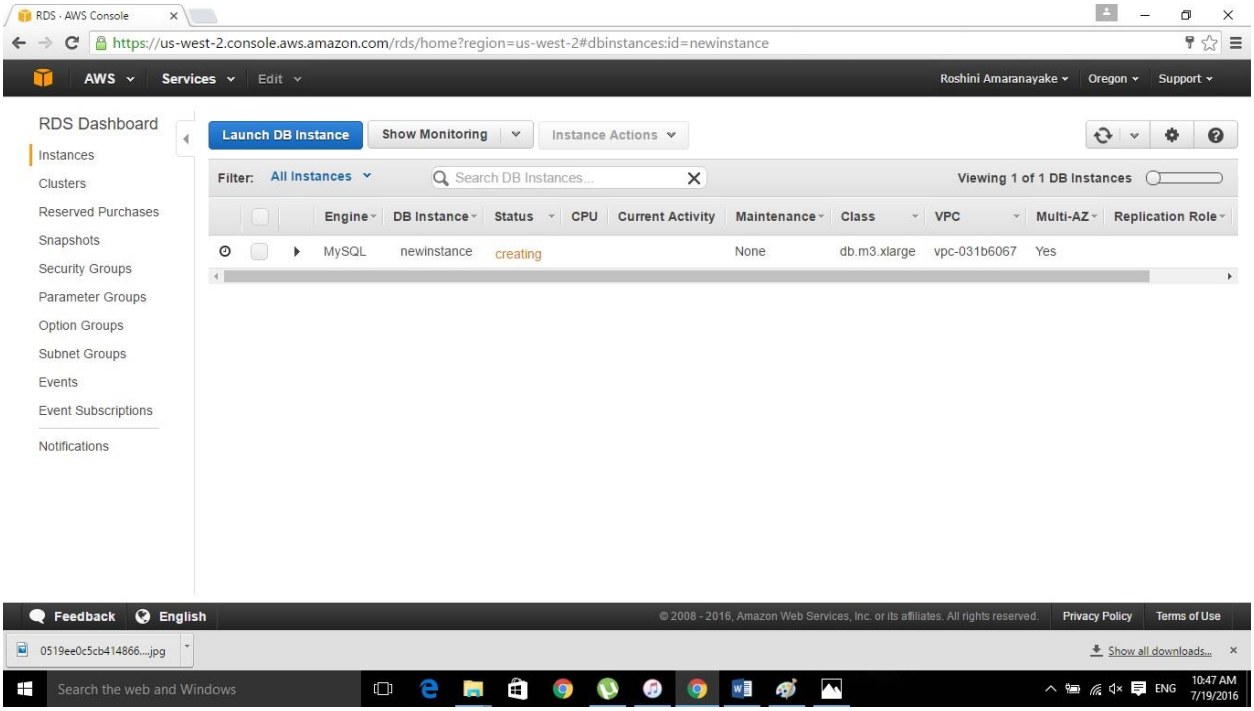


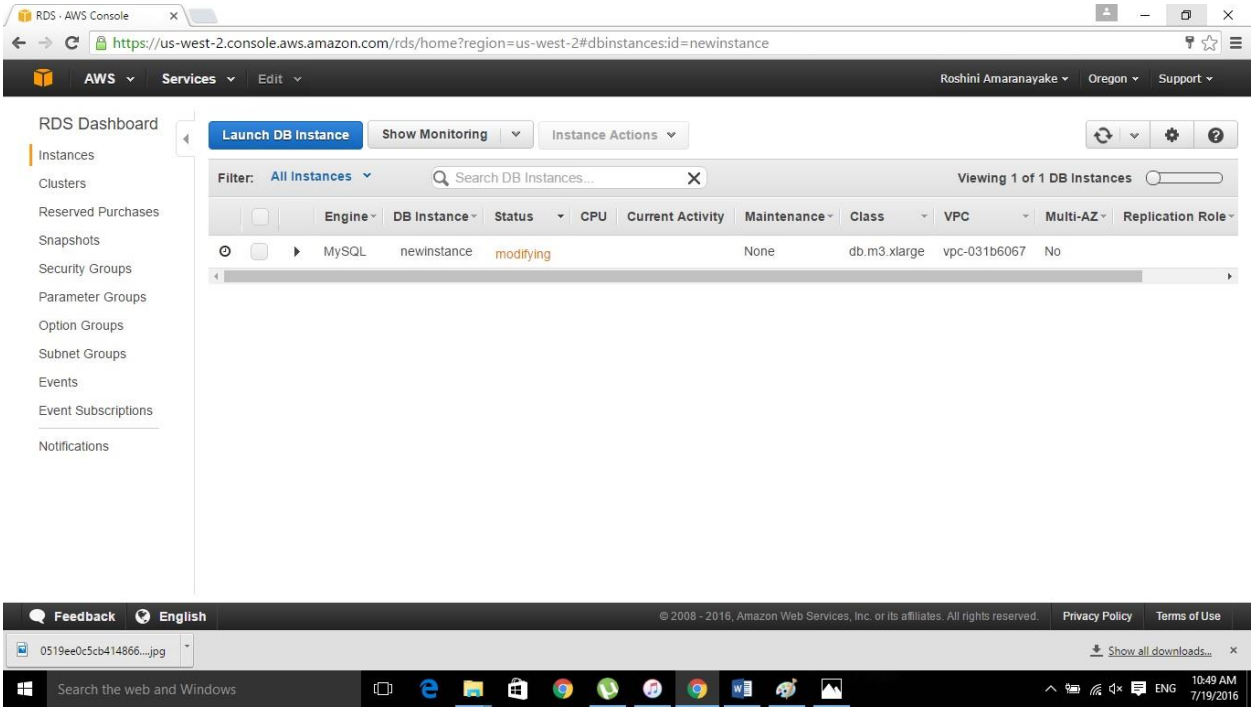
Step 07: Click ‘View Your DB Instances’ from next window.

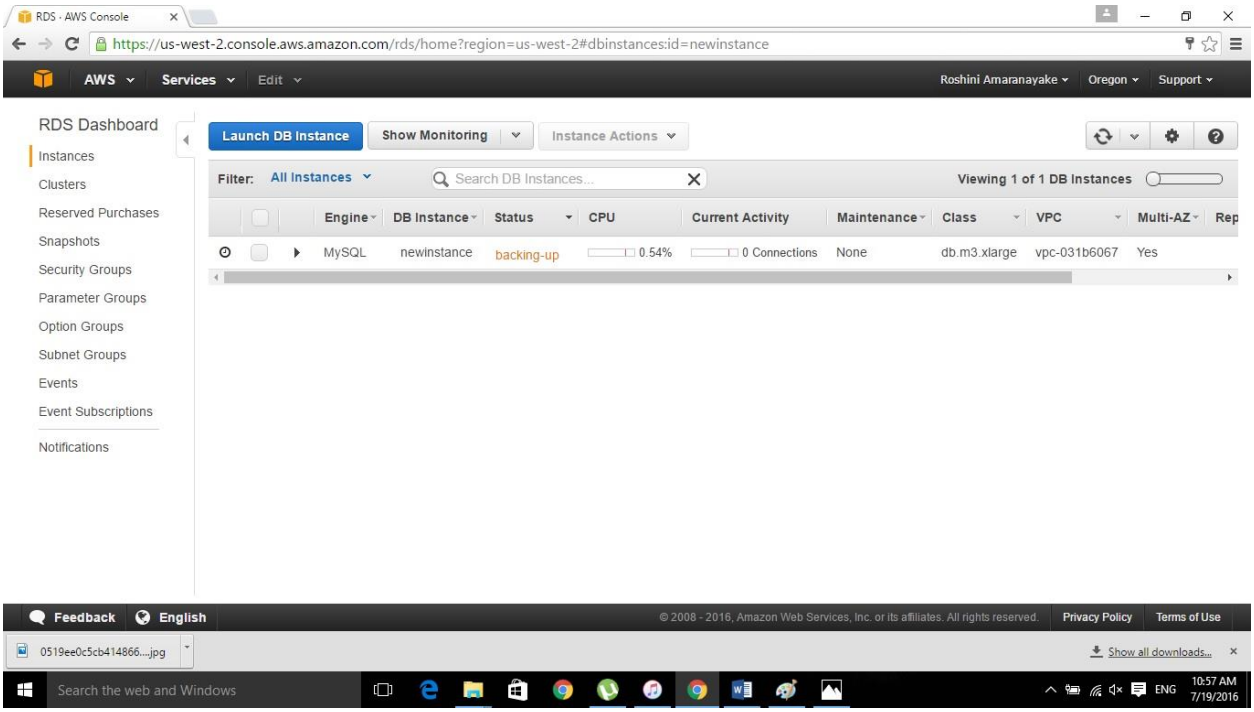


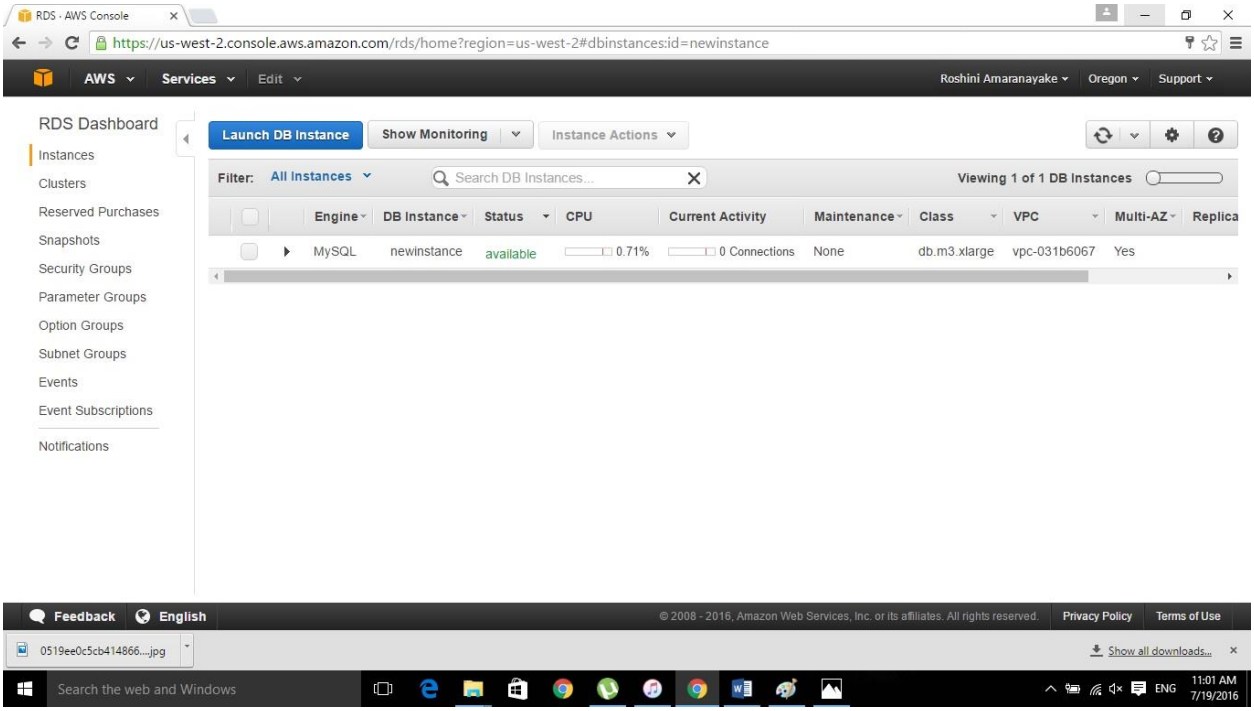
Step 08: Wait until the instance status change to ‘available’ from ‘creating’.

(creating ->modifying -> backing-up -> available)

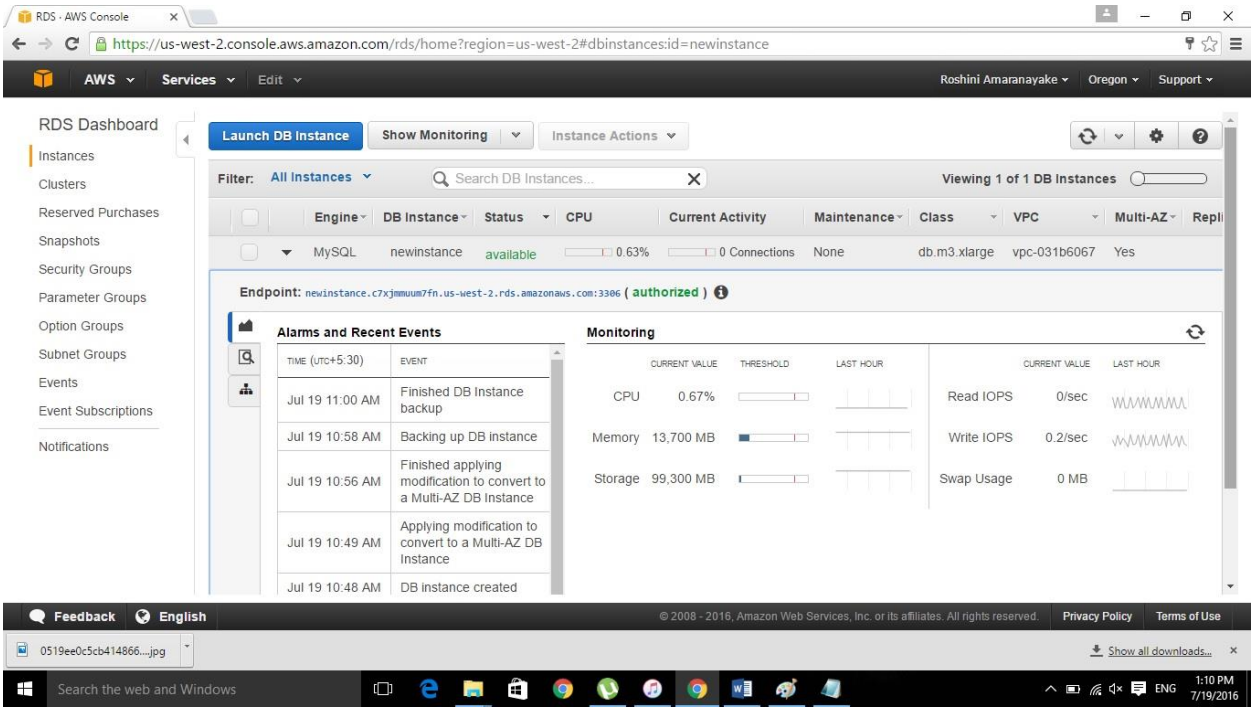



RDS · AWS Console
https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=newinstance
AWS
Services
Edit
Roshini Amaranayake
Oregon
Support
RDS Dashboard
Instances
Clusters
Reserved Purchases
Snapshots
Security Groups
Parameter Groups
Option Groups
Subnet Groups
Events
Event Subscriptions
Notifications
Launch DB Instance
Show Monitoring
Instance Actions
Filter: All Instances
Search DB Instances...
Viewing 1 of 1 DB Instances
Engine
DB Instance
Status
CPU
Current Activity
Maintenance
Class
VPC
Multi-AZ
Replication Role
MySQL
newinstance
modifying
None
db.m3.xlarge
vpc-031b6067
No
Feedback
English
© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.
Privacy Policy
Terms of Use
0519ee0c5cb414866....jpg
Show all downloads...
Search the web and Windows
ENG
10:49 AM
7/19/2016


RDS · AWS Console
https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=newinstance
AWS
Services
Edit
Roshini Amaranayake
Oregon
Support
RDS Dashboard
Instances
Clusters
Reserved Purchases
Snapshots
Security Groups
Parameter Groups
Option Groups
Subnet Groups
Events
Event Subscriptions
Notifications
Launch DB Instance
Show Monitoring
Instance Actions
Filter: All Instances
Search DB Instances...
Viewing 1 of 1 DB Instances
Engine
DB Instance
Status
CPU
Current Activity
Maintenance
Class
VPC
Multi-AZ
Rep
MySQL
newinstance
backing-up
0.54%
0 Connections
None
db.m3.xlarge
vpc-031b6067
Yes
Feedback
English
© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.
Privacy Policy
Terms of Use
0519ee0c5cb414866....jpg
Show all downloads...
Search the web and Windows
ENG
10:57 AM
7/19/2016

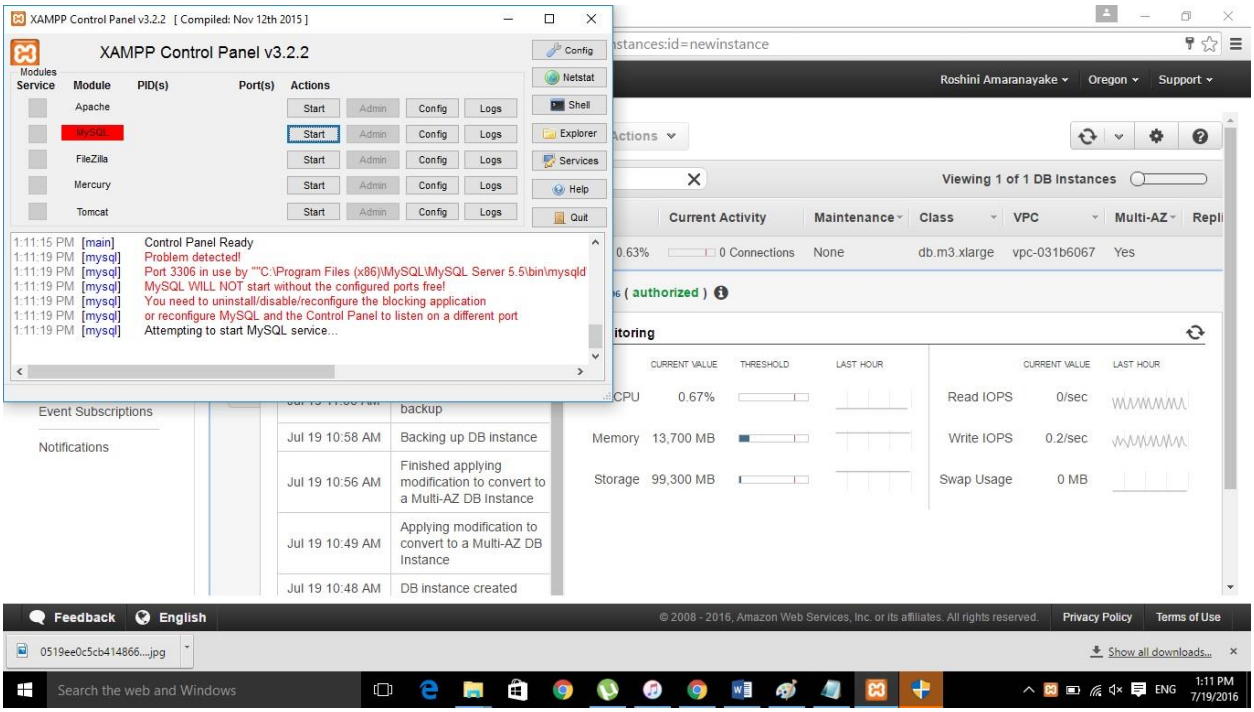


Step 09: Expand the instance to view Endpoint. Copy the Endpoint without the port number.



Step 10: Open XAMPP Control Panel.

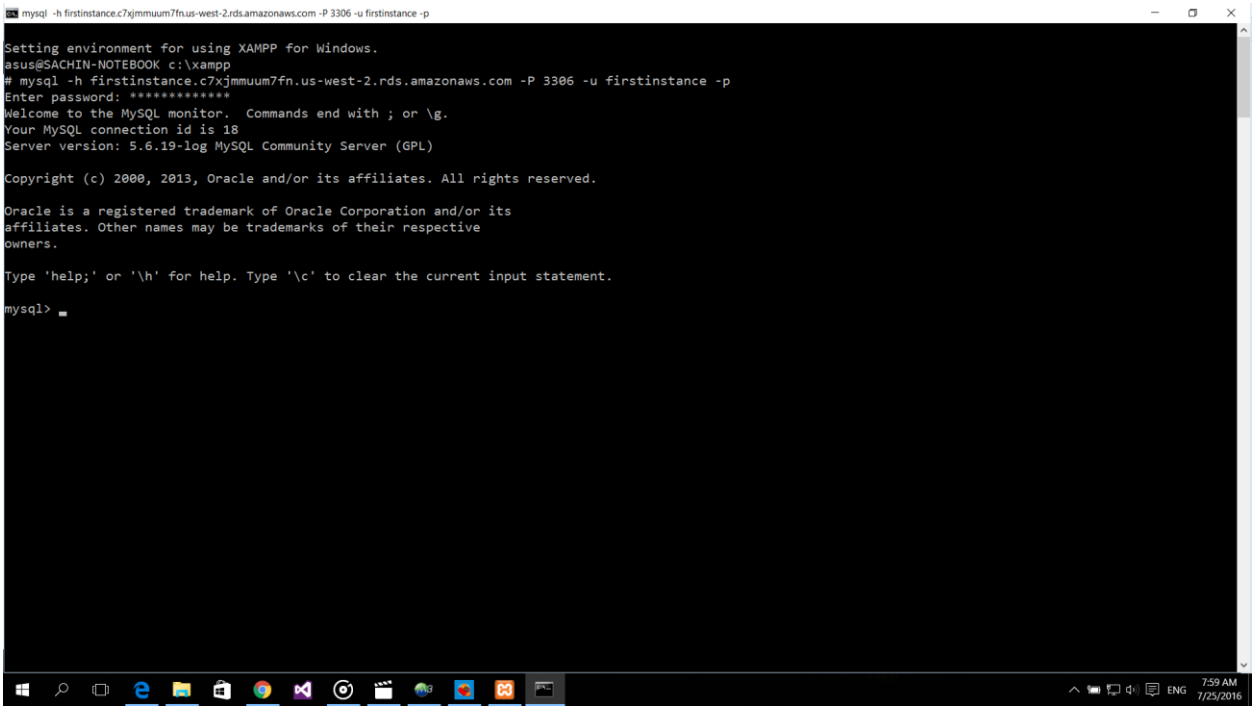
Start MySQL.



Step 11: Go to the Shell in XAMPP Control Panel.

Type the command. (mysql -h <endpoint> -P <portnumber> -u <instancename> -p)

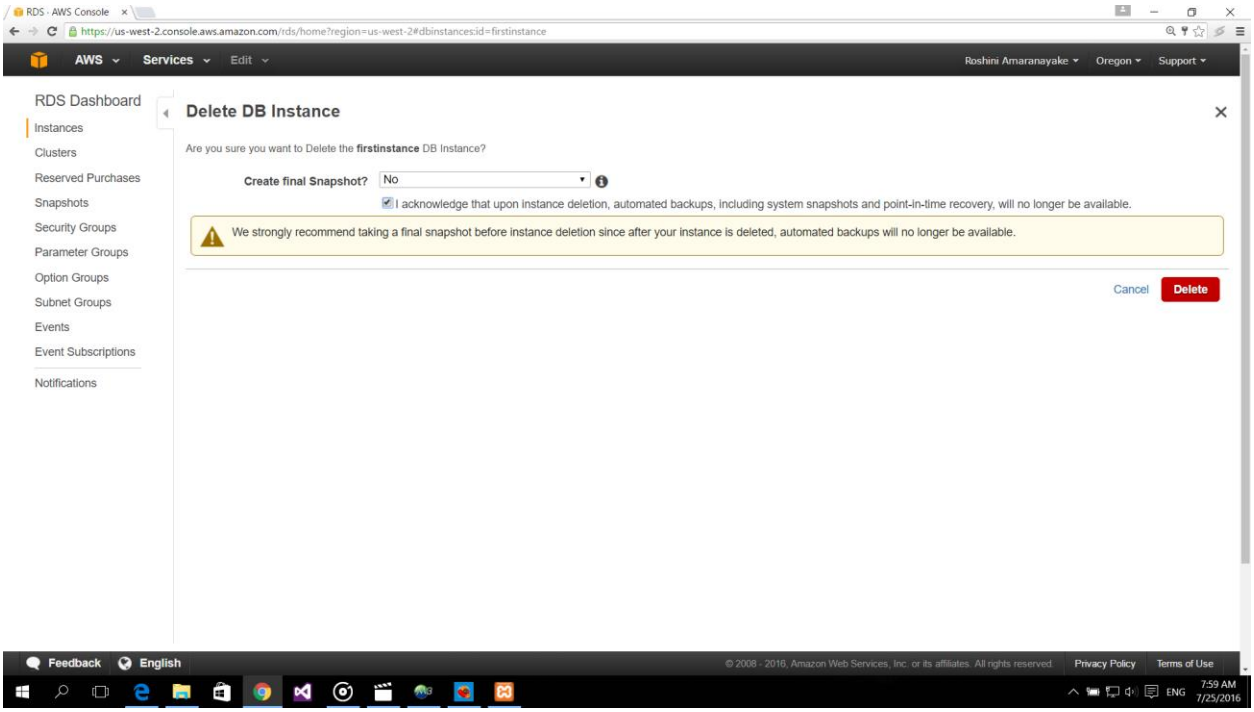
Enter master password.

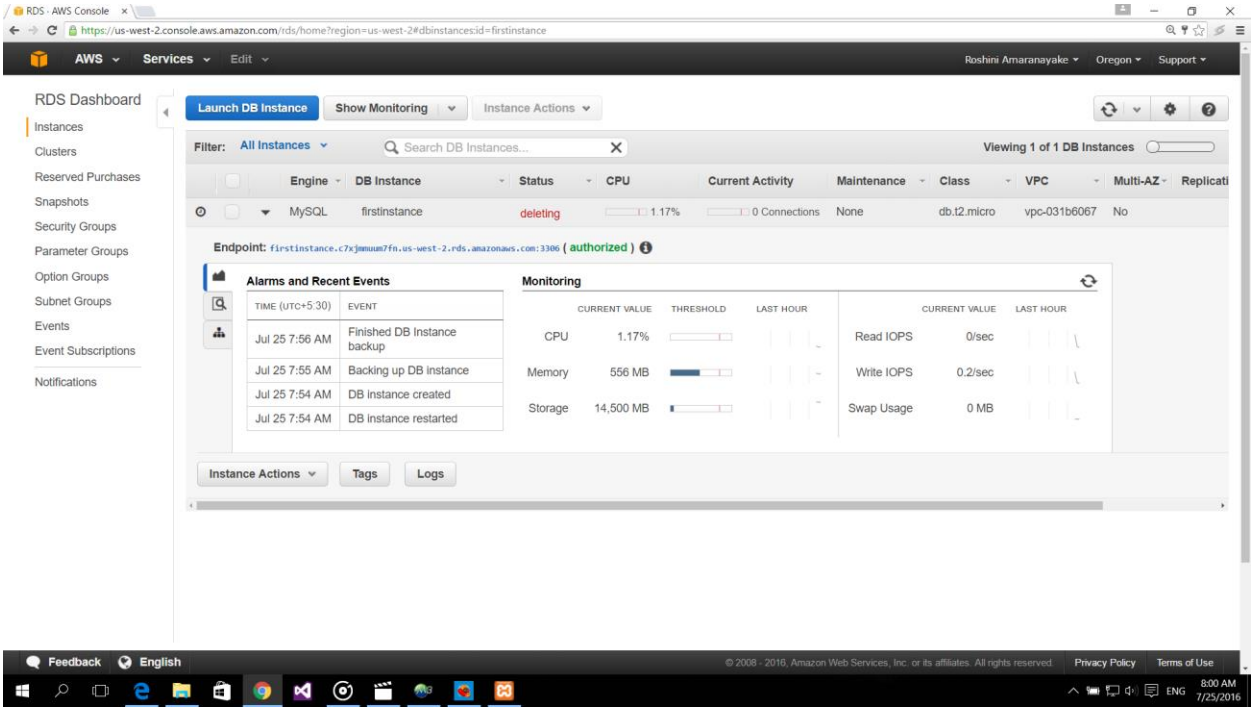


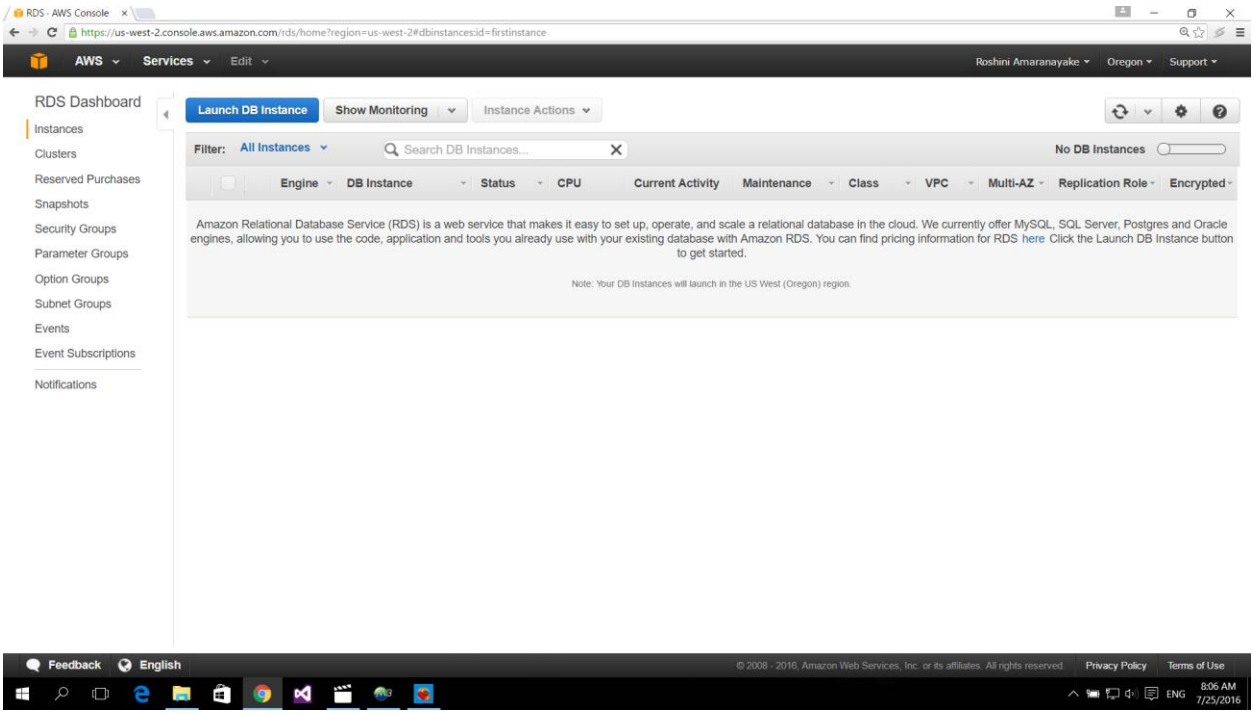
Step 12: Delete the created DB instance. (Instance Actions -> Delete)

Choose ‘No’ in Create final Snapshot.

Confirm delete by clicking ‘Delete’.






RDS - AWS Console
https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=firstinstance
AWS
Services
Edit
Roshini Amaranayake
Oregon
Support
RDS Dashboard
Instances
Clusters
Reserved Purchases
Snapshots
Security Groups
Parameter Groups
Option Groups
Subnet Groups
Events
Event Subscriptions
Notifications
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.
Feedback
English
© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.
Privacy Policy
Terms of Use
ENG
8:06 AM
7/25/2016