Enterprise Standards and Best Practices for IT Infrastructure

Lab 3 – Creating an Amazon RDS database

Sri Lanka Institute of Information Technology

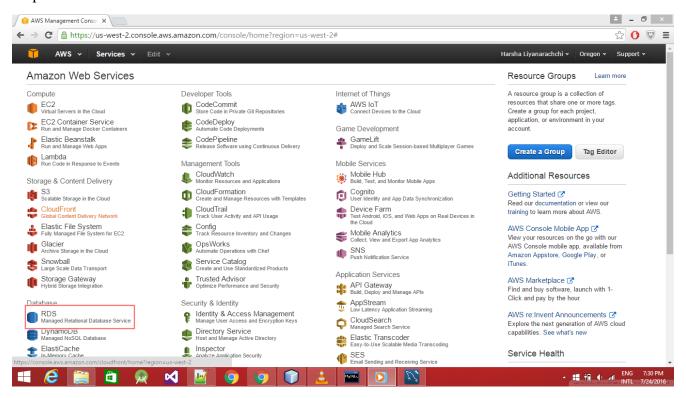
B.Sc. Special (Honors) Degree in Information Technology

Specialized in Information Technology

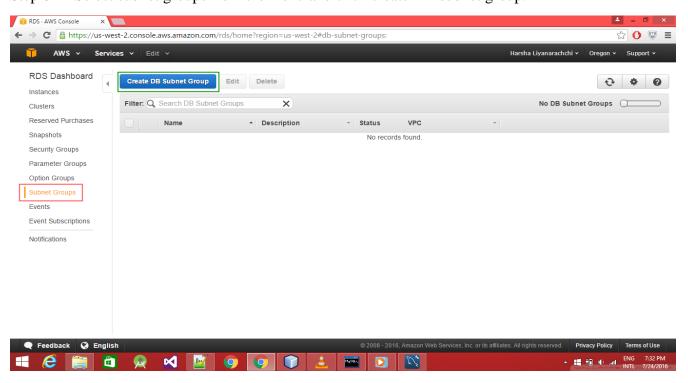
Liyanarachchi H.P - IT13119836

Create an Amazon RDS database

Step 01 – Select RDS from the Amazon Web Services Console.

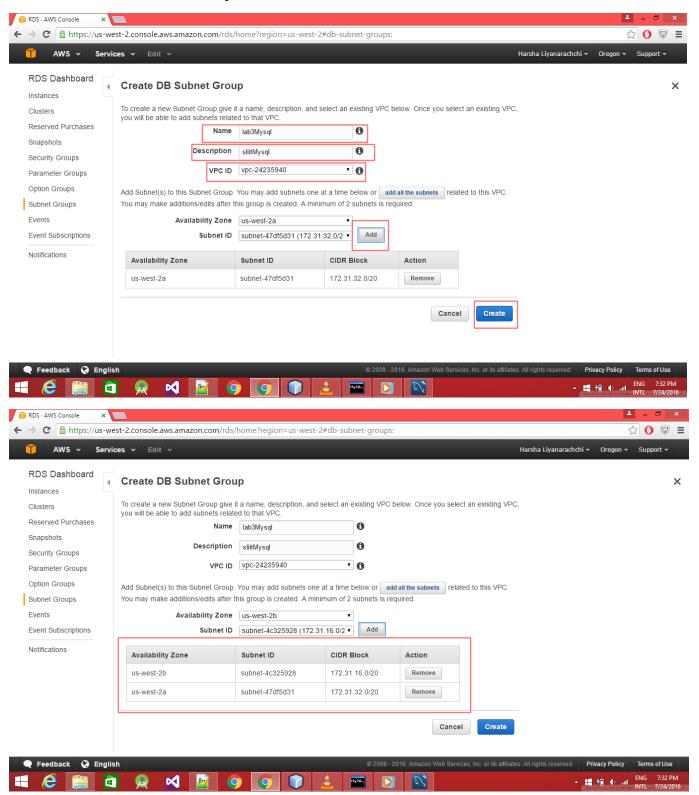


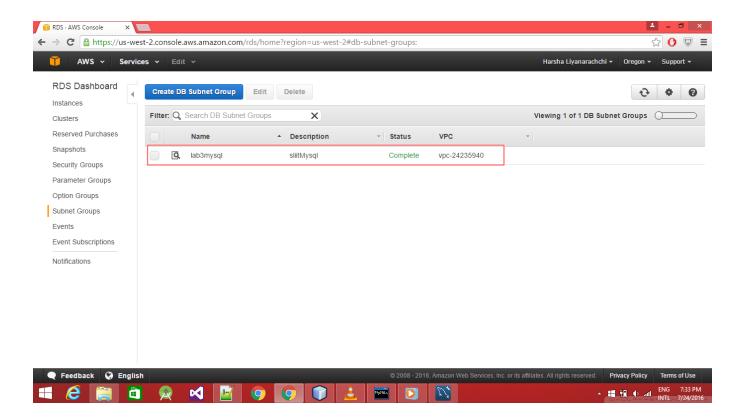
Step 02 – Select subnet groups from the menu and click create DB subnet group.



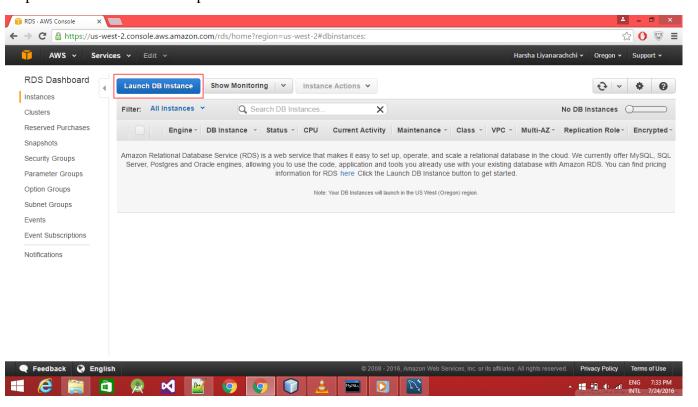
Step 03 – Fill the create DB subnet group form and VPC ID select the available one.

At least minimum two subnets required.

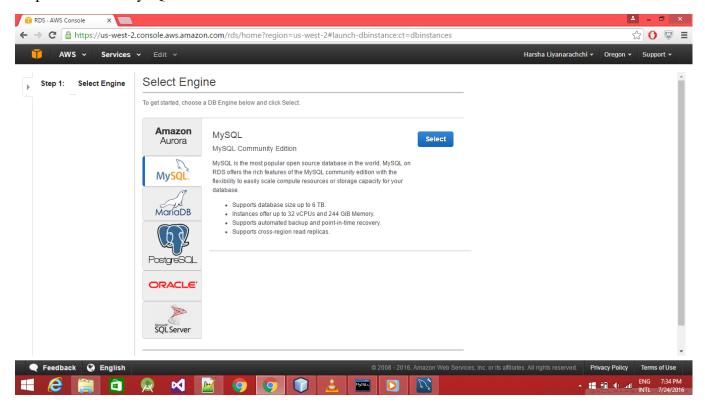




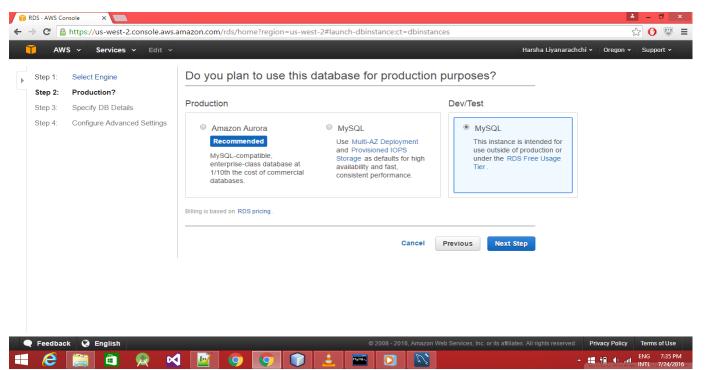
Step 04 – Click the Instance option from side menu and then click the create DB instance.



Step 05 – Select MySQL from the database selection list.



Step 06 – Tick the Dev/Test MySQL option in specify DB detail and click NEXT step button as shown in the figure below.



Step 07 – Configure the DB setting of MySQL server deployment as below and click Next Step button.

• License Model: general-public-license

• DB Engine Version: select the latest one

• DB Instance Class: db.t2.micro

• Multi-AZ Deployment: No

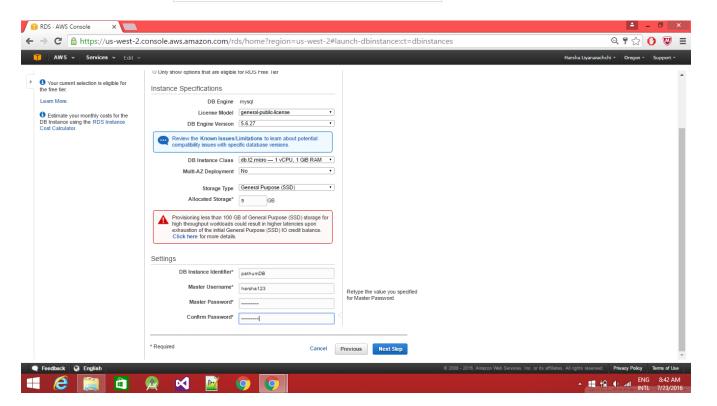
• Storage Type: General Purpose (SSD)

Allocated Storage: 5GB

• DB Instance Identifier: any name

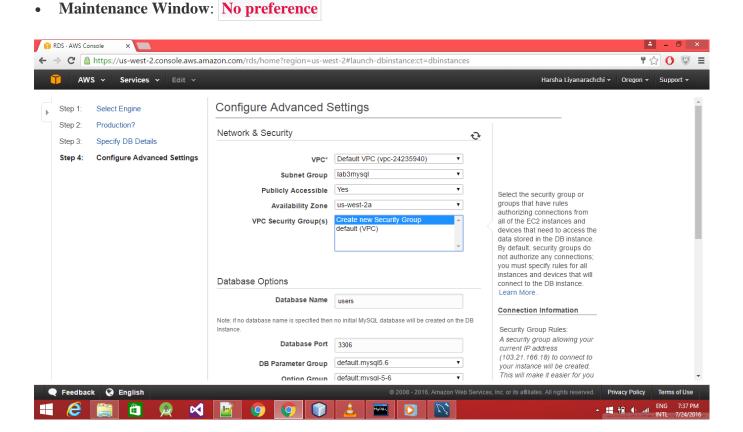
• Master Username: any user name

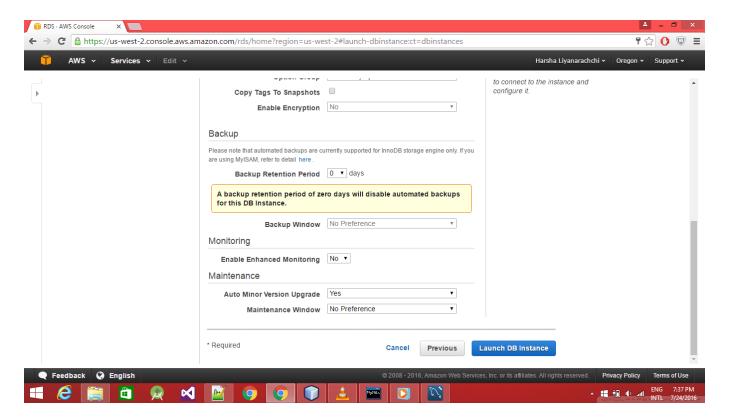
• Master Password: password with more than 8 characters



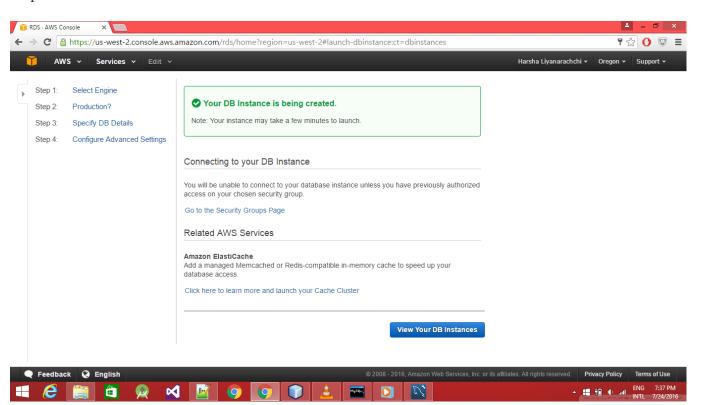
Step 08 - Configure the Advanced DB setting of MySQL server deployment as below and click Launch DB Instance.

VPC: select the available one
Subnet Group: lab3mysql
Publicly Accessible: No
Availability Zone: us-west-2a
VPC Security Group(s): Create new Security Group
Database Name: any name
Database Port: 3306
DB Parameter Group: default
Option Group: default
Enable Encryption: No
Backup Retention Period: 0 days
Backup Window: No preference
Auto Minor Version Upgrade: Yes



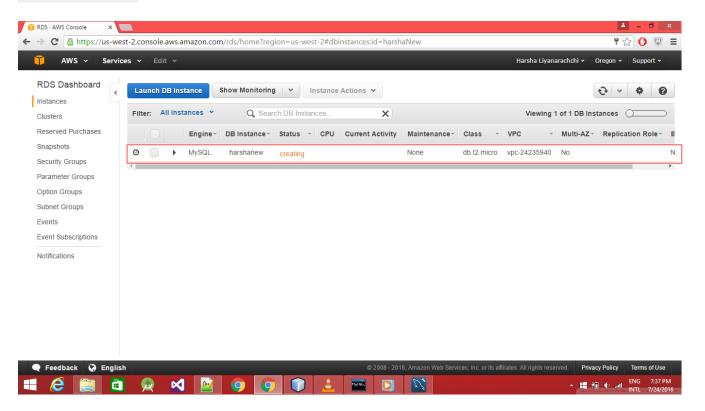


Step 09 – Click the View Your DB Instance button.

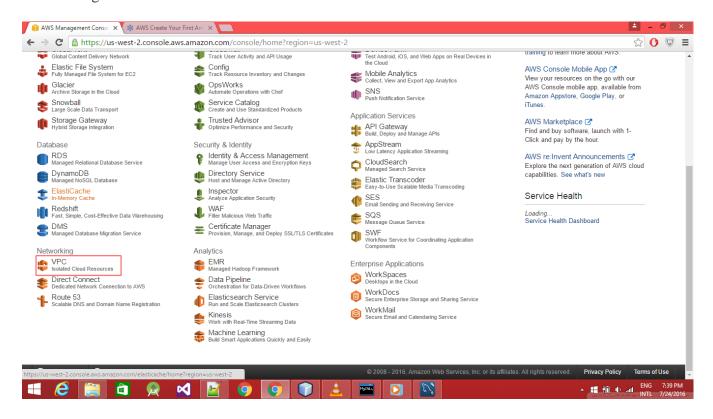


Step 10 – Again click Instances in side menu and then can see the created DB instance.

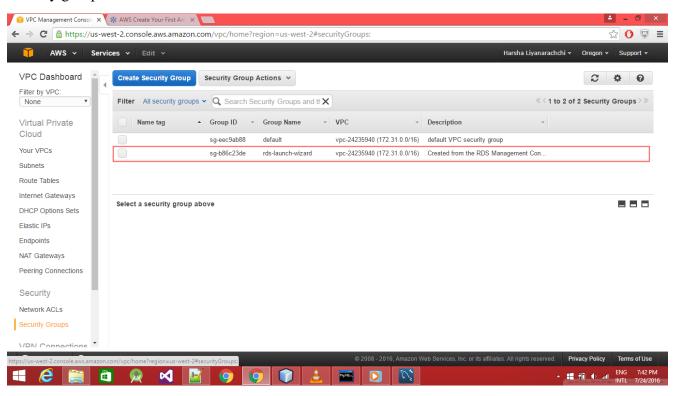
Note - RDS instance creation requires **up to 10 minutes** for completion. Wait until its status becomes *available*



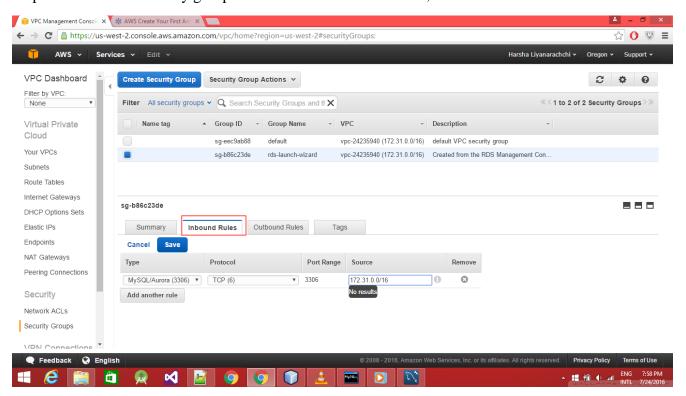
Step 11 – Setup Security group rules for connecting to the RDS instance. Select VPC service from management console.



Step 12 - In the navigation pane, click Security Groups. Locate and click the rds-launch-wizard security group.



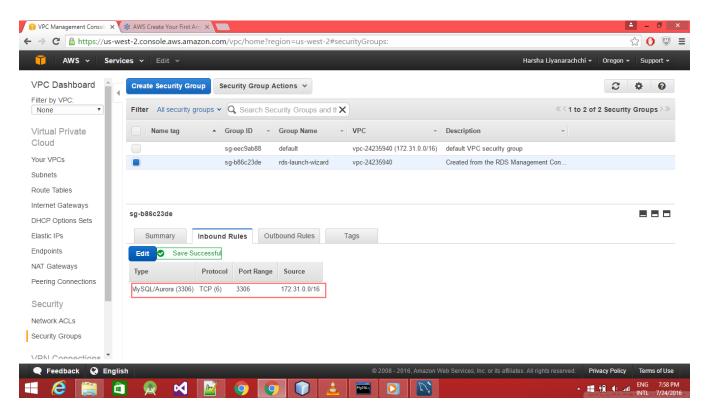
Step 13 - Click the security group and On the Inbound Rules tab, click Edit.



Step 14 – Fill the rule with following details and save the rule.

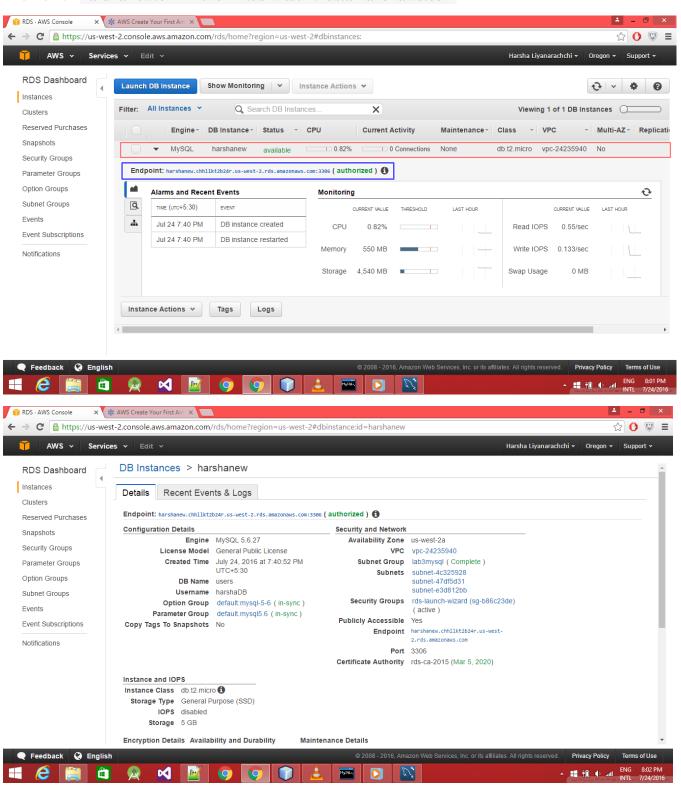
Type: MYSQLProtocol: TCPPort: 3306

• **Source**: 172.31.0.0/16



Step 15 – Connect to RDS and create a database table. Expand DB instance and copy the endpoint without port number.

End Point - harshanew.chhllkt2b24r.us-west-2.rds.amazonaws.com

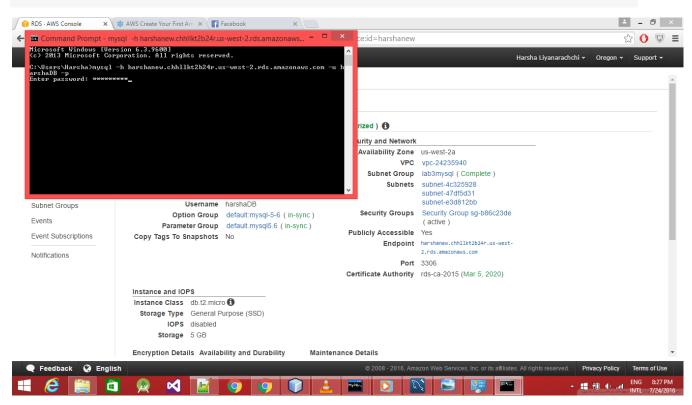


Step 16 – Set up MySQL to run in command line in local machine and type this command in console.

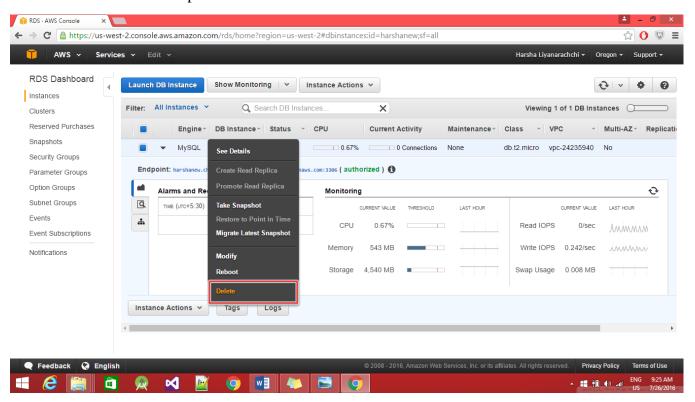
(mysql -h <endpoint> -P <port number> -u <instance name> -p)

Enter your master password

Ex - mysql -h harshanew.chhllkt2b24r.us-west-2.rds.amazonaws.com -u harshaTest -p *******



Step 17 – After finished with the DB instance, Can delete the instance by click on the DB instance and select Delete option from the menu as shown below.



Choose "No" for Create final Snapshot and click the delete button to delete the DB instance.

