SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

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Group Number: Week Day Group

Practical Session: WD Friday session

Practical Number : Lab 01

Date of Submission: 30.07.2016

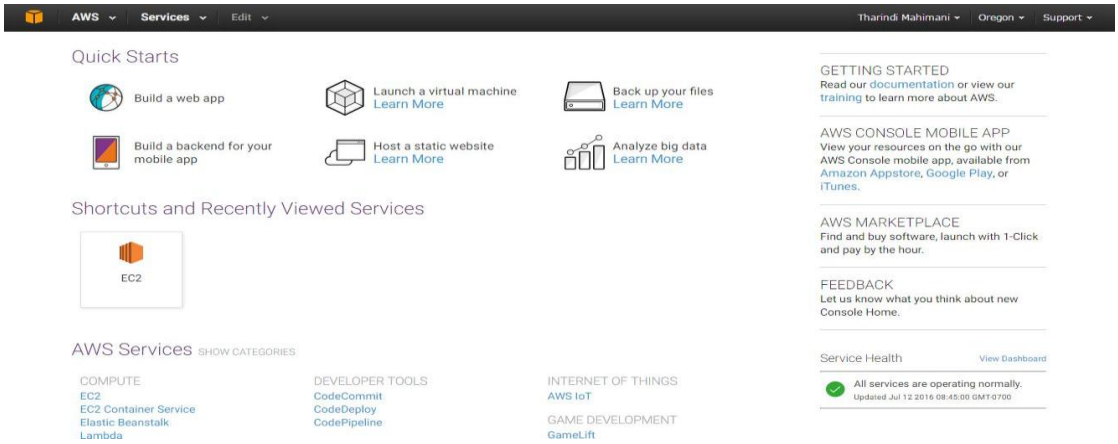
Date of Evaluation : _____

Evaluators Signature : _____

Introduction

This lab practical based on cloud computing. In this lab it suppose to create windows instance via Amazon Web Service (AWS).

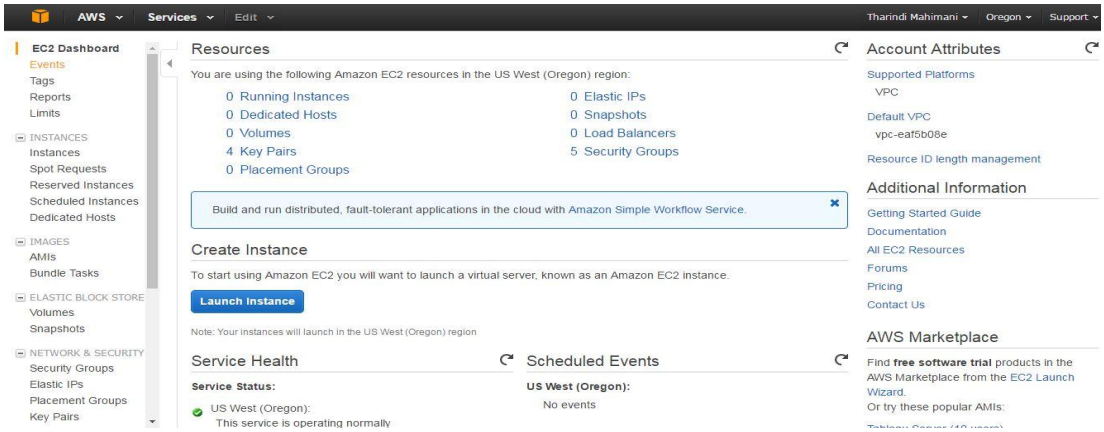
To do this practical first it have to create new account in Amazon Web Service (AWS). Then by using that created account log in to the AWS. After logged in it will appear window like below,



Step 01

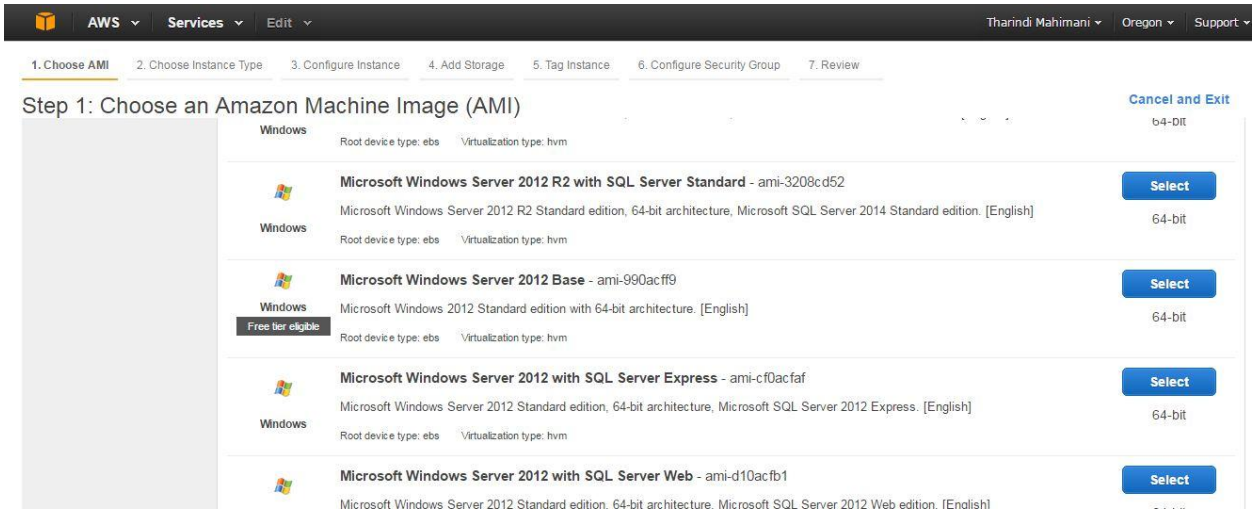
To create or launch windows instance from this window it must select EC2 Because to create OS instance software instances it uses the EC2 in AWS.

After selecting EC2 in this window it will appear window like below

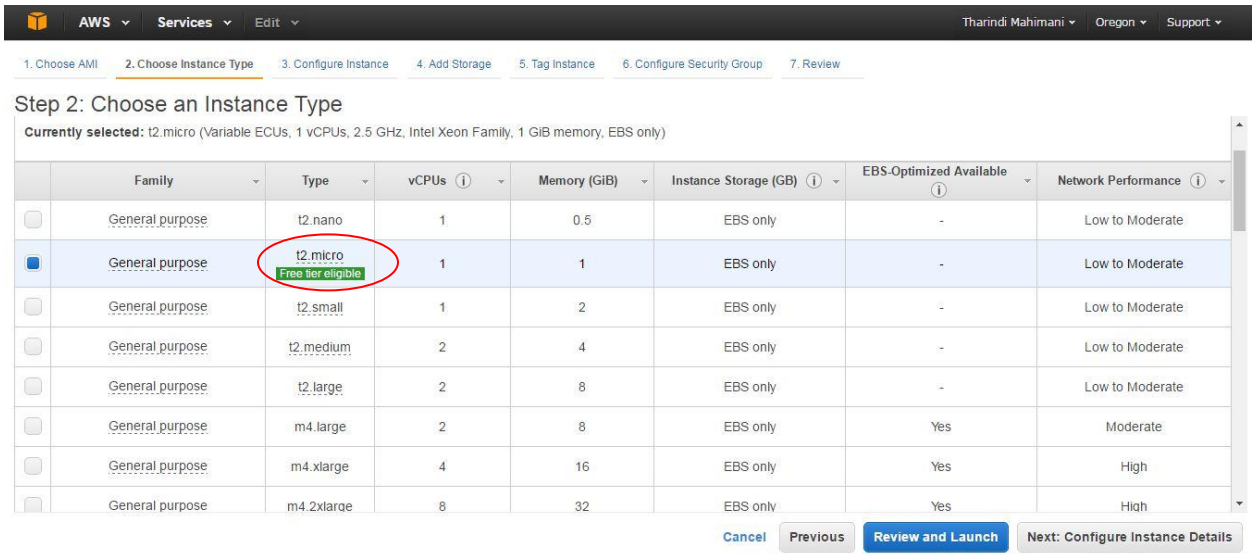


Step 02

In this window it must click on “Launch Instance ” button to launch the instance



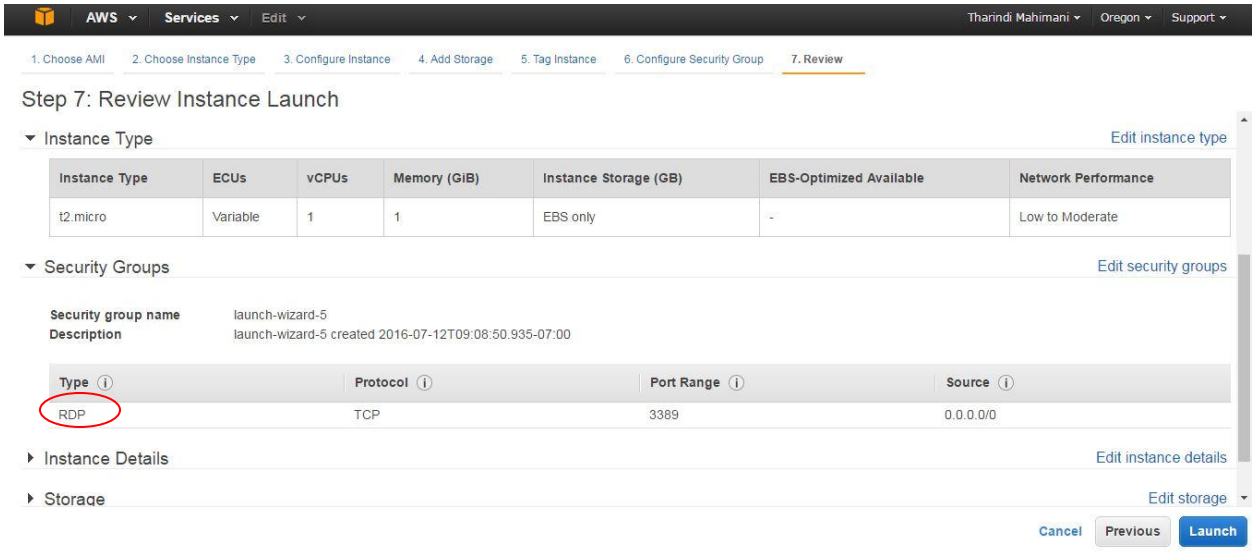
In this window it must select Windows free tire eligible one for the to launch the windows instance freely. After selecting this it will appear window like below



In this window it must select the type and must configure the instance and must review. Type “should be t2.micro free tire eligible”

Step 03

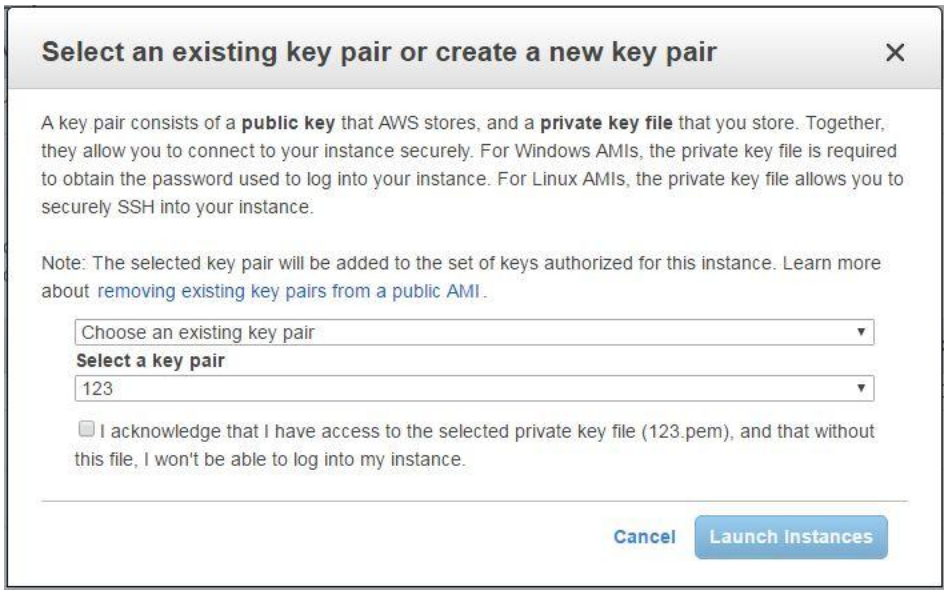
After reviewing and launch bellow window will display



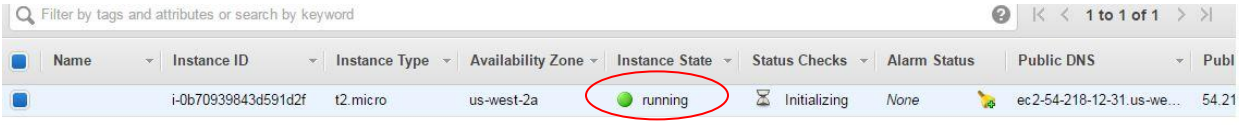
In here it willing to launch Windows instance because of that its type is will RDP

Step 04

After launching this window will appear window like this in here it must have to give key pairs to that form the drop menu it must have select the "create new Key Pair " and must provide Key pair name and after it must have to download the key pair. After downloading must launch the instance



Created instance will display like this

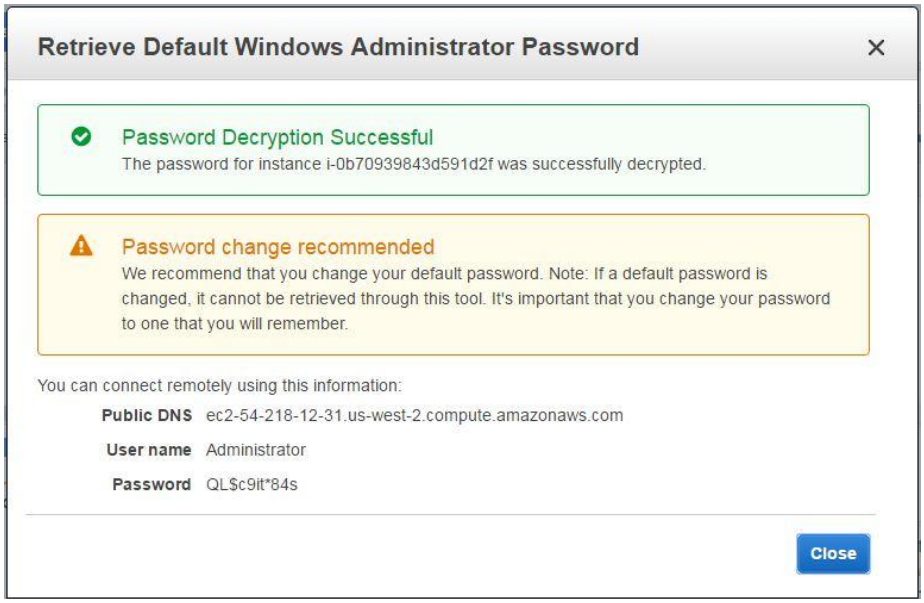


Now it is running instance

Step 05

Right click on the instance and "Get windows password " it will get window like below

from that choose file and decrypt the password via doing it will get user name and password.



Step 06

After the step 05 in the machine go to the remote desktop connection and provide the public IP address

After connecting it must provide the user name and password got previously

After providing user name and password it will display window like below you must select “yes” After it ,will be able to you to work in the newly created windows instance.

Conclusion

In this lab practical it launch the windows instance via AWS it successfully launch the. Before the leaving it must have terminate the launched instance.

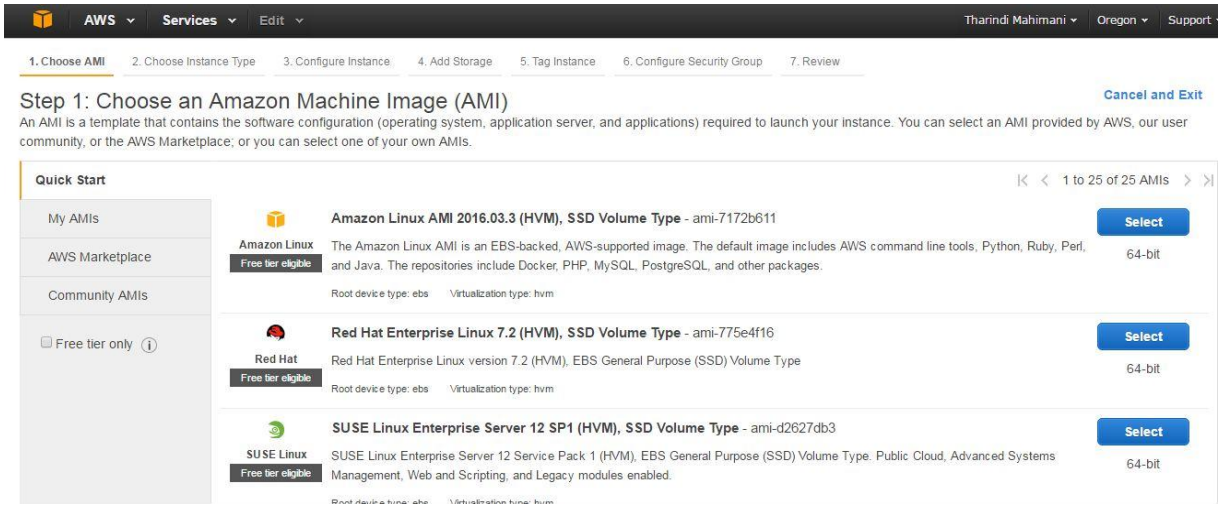
Lab 02 – Creating Linux Instance

Introduction

This lab practical based on cloud computing. In this lab it suppose to create Linux instance via Amazon Web Service (AWS).

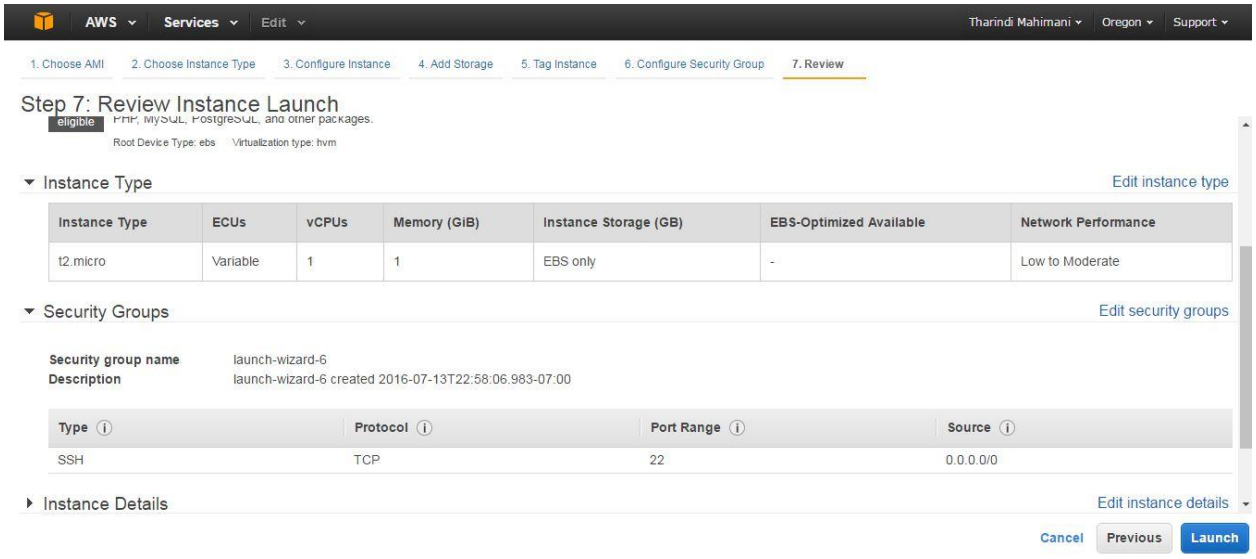
To do this practical first it have to logged in to via account that created in previous practical Amazon Web Service (AWS). Then same as first few steps in previous practical must select EC2 to launch the instance. As before it must select free tire eligible "Amazon Linux " or free tire eligible "Red Hat " for launch the Linux instance.

In here I had selected "Amazon Linux " form below window



Step 01

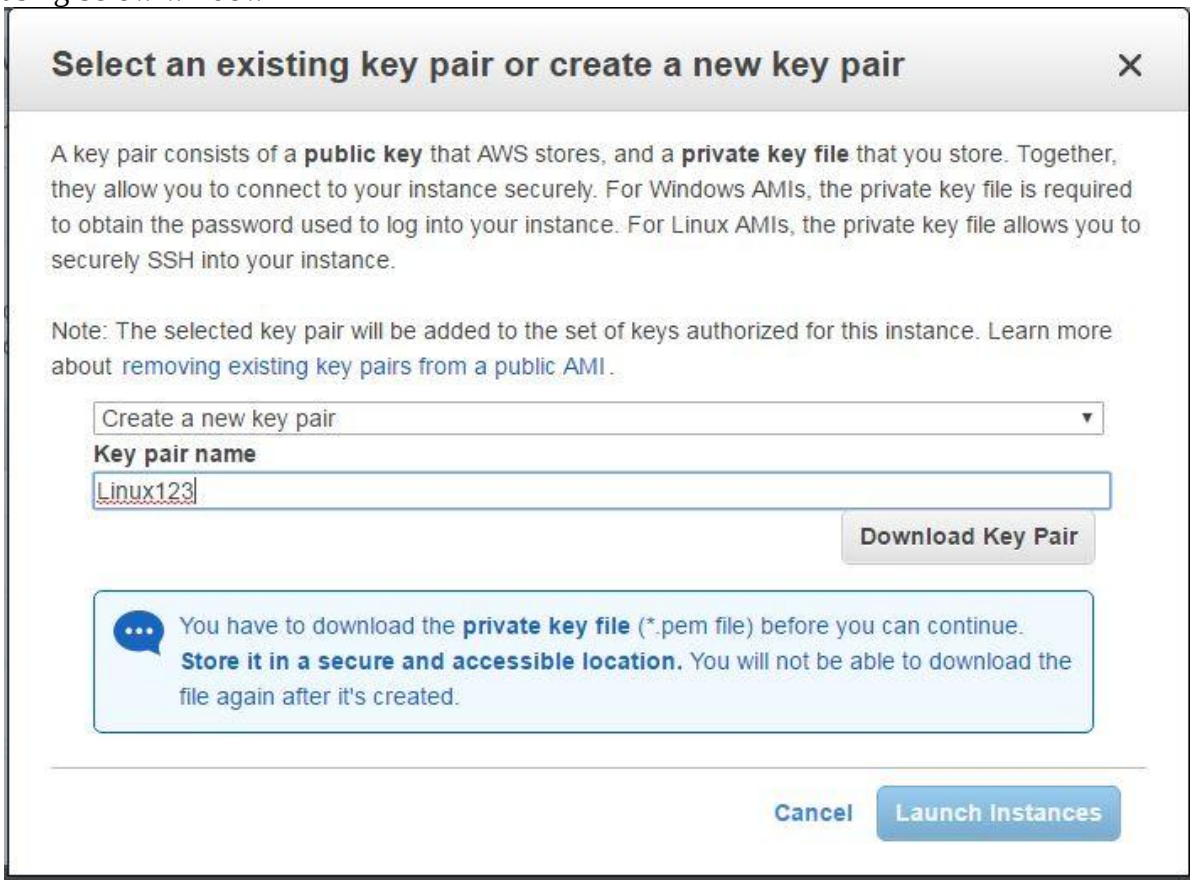
After selecting the one we need then it can review and the it can be launch after this step it will sappier window like below



In here it willing to launch Linux instance because of that its type is will SSH. In previous practical it launch the windows instance so their type is appear as RDP.

Step 02

Like previous practical in here also need to create new key pair for Linux instance it can do by using below window



After providing the key pair it must download the key pair and then launch the instance.

Step 03

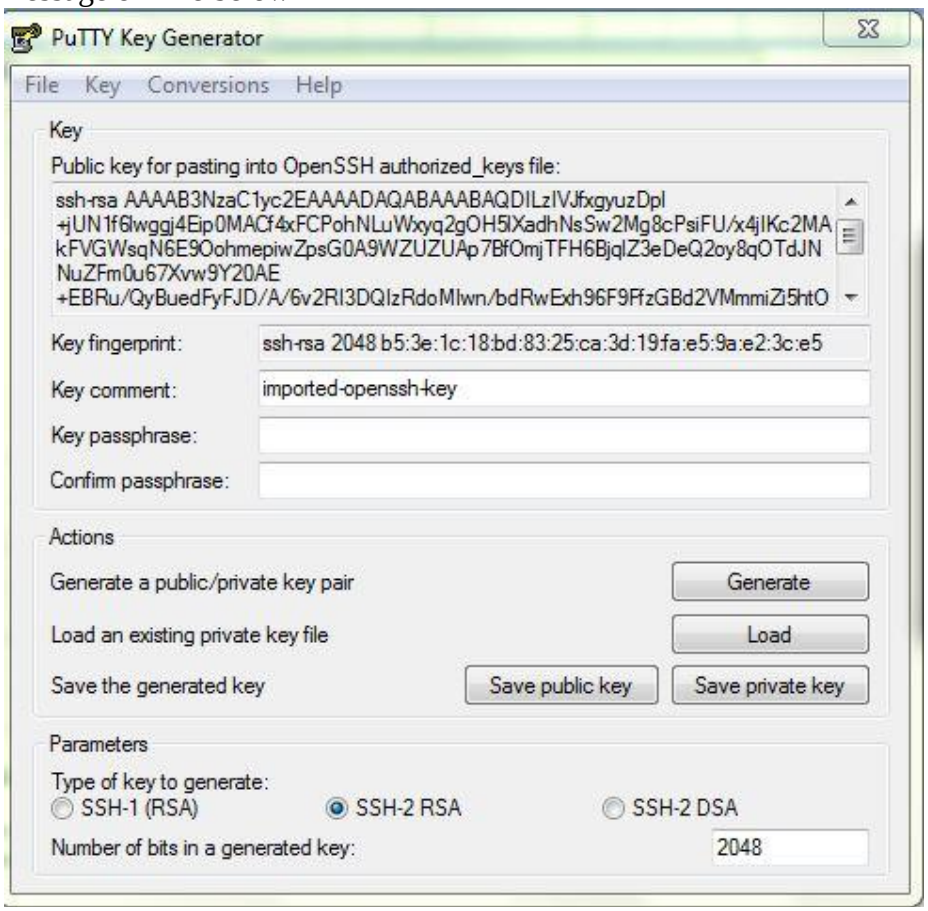
After launching the instance it can view the instance it will display the window like below and instance state in running.

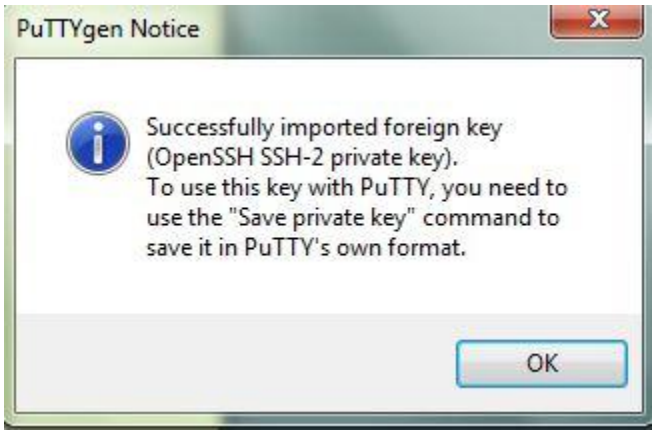
Step 04

After the instance launching and it is on running state to work towards in created instance it must do some other things to do it must decrypt the password to do that it must have download another two software “PUTTY Gen” and the “PUTTY’

In here it use the PUTTY Gen software to decrypt the password in .pem format to .ppk format because to PUTTY software it can only understand .ppk formt.

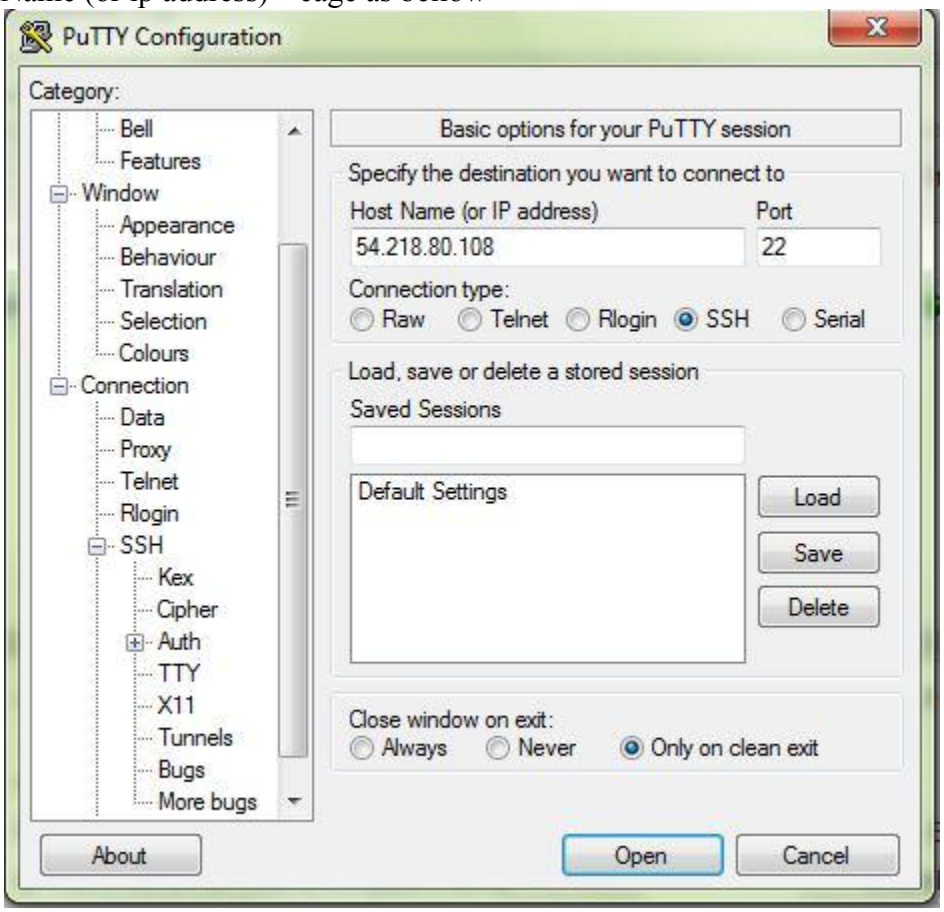
This is the view of PUTTY Gen soft ware form this it must load the key pair we download previously
After successfully loaded the key pair it will change this window like bellow and will display message ox like below



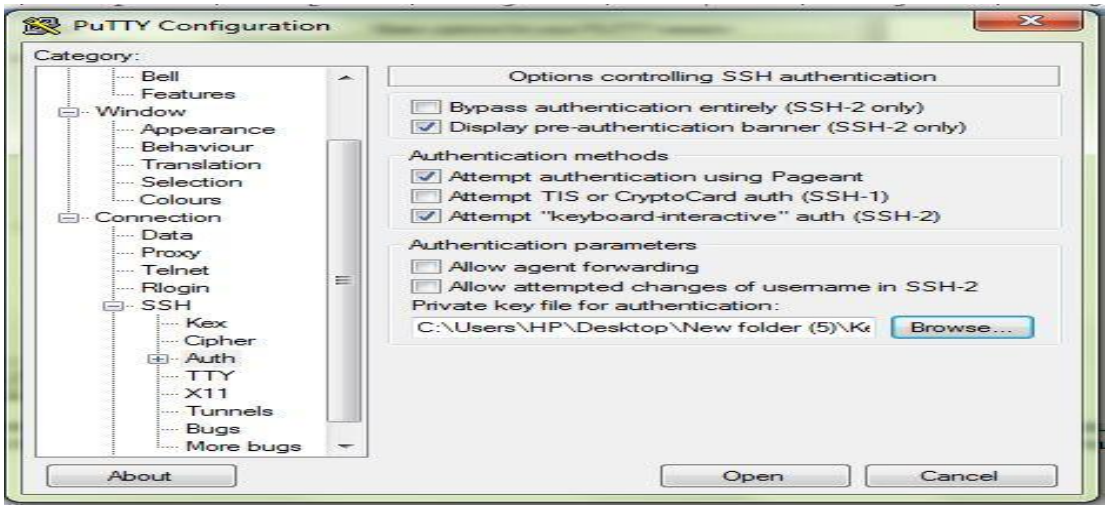


Step 05

Then it must open the PUTTY soft ware in that it must provide the public IP address to “Host Name (or ip address)” cage as bellow

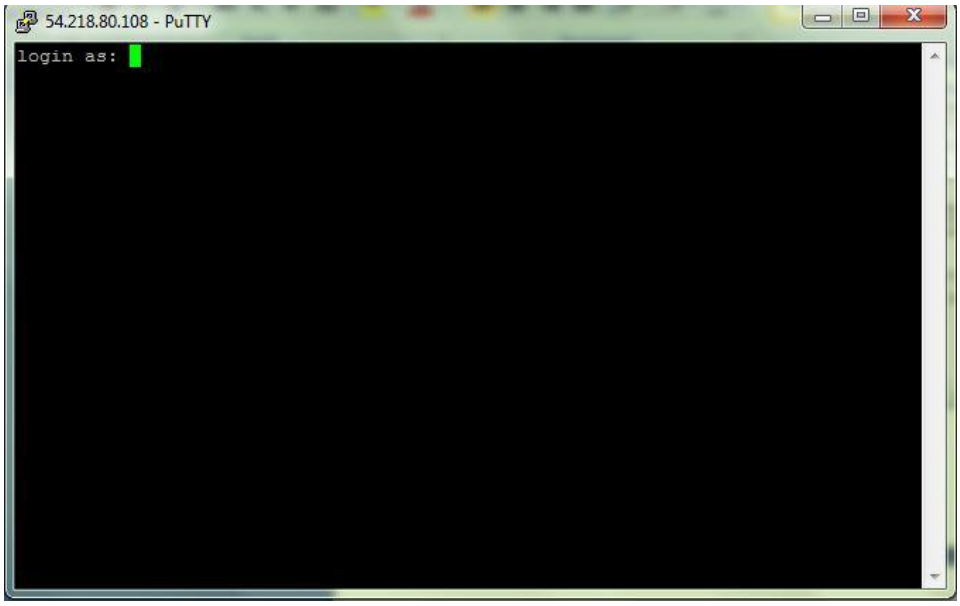


Then extract the “SSH” and navigate to the “Auth” authentication function form that it must brows the path to the decrypted key pair which we decrypted by using PUTTY Gen software.

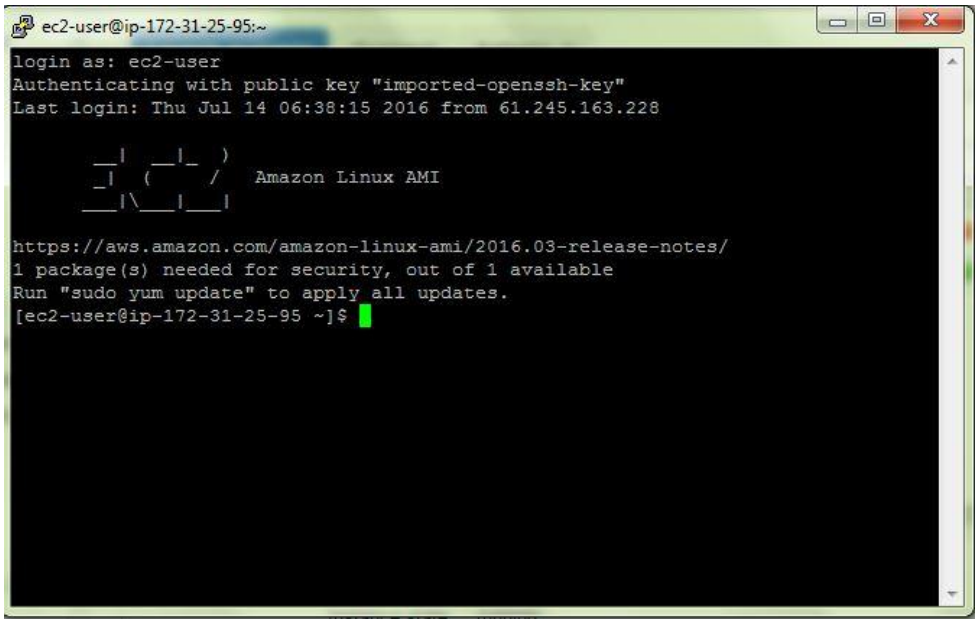


Step 06

After browsing the path then open it will display window like below



To this window it must provide “ec2-user ” as given in the AWS manual. After providing the user name as “ec2-user ” it will appear the Linux instance to do work that we want. It will look like below.



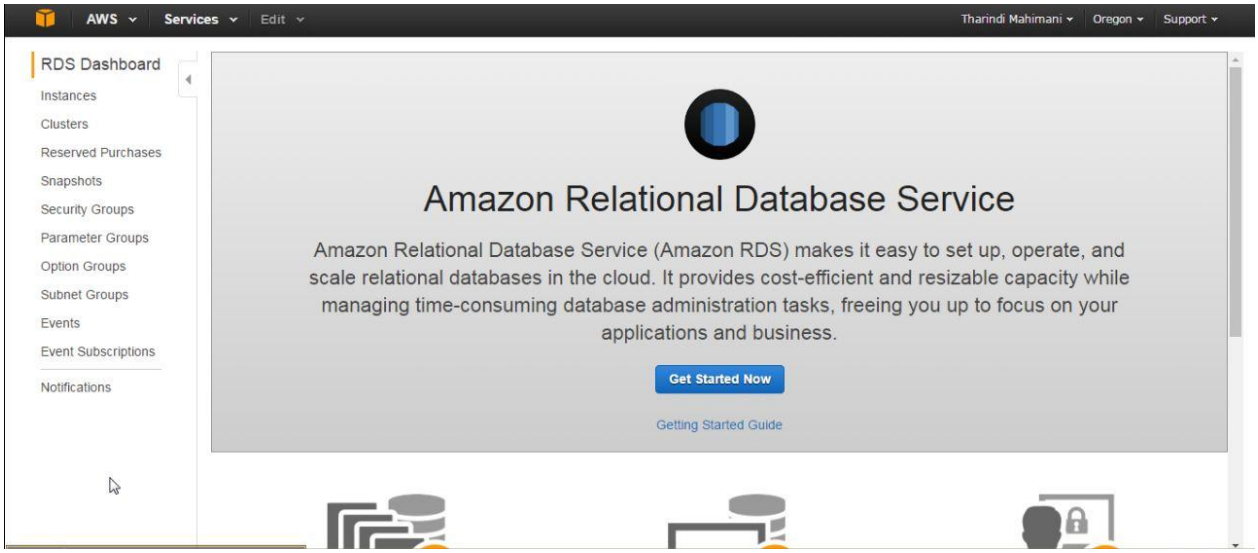
In this lab practical it launch the Linux instance via AWS it successfully launch the.
Before the leaving it must have terminate the launched instance.

Lab -03 Creating Data Base Instance

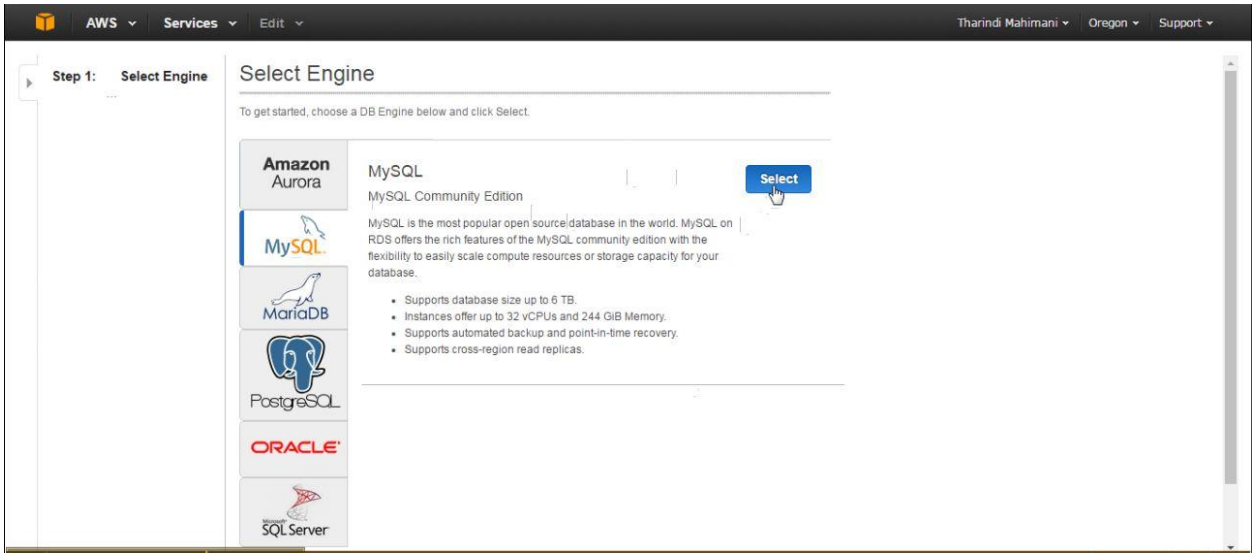
Introduction

This lab practical based on cloud computing. In this lab it suppose to create DB instance via Amazon Web Service (AWS).

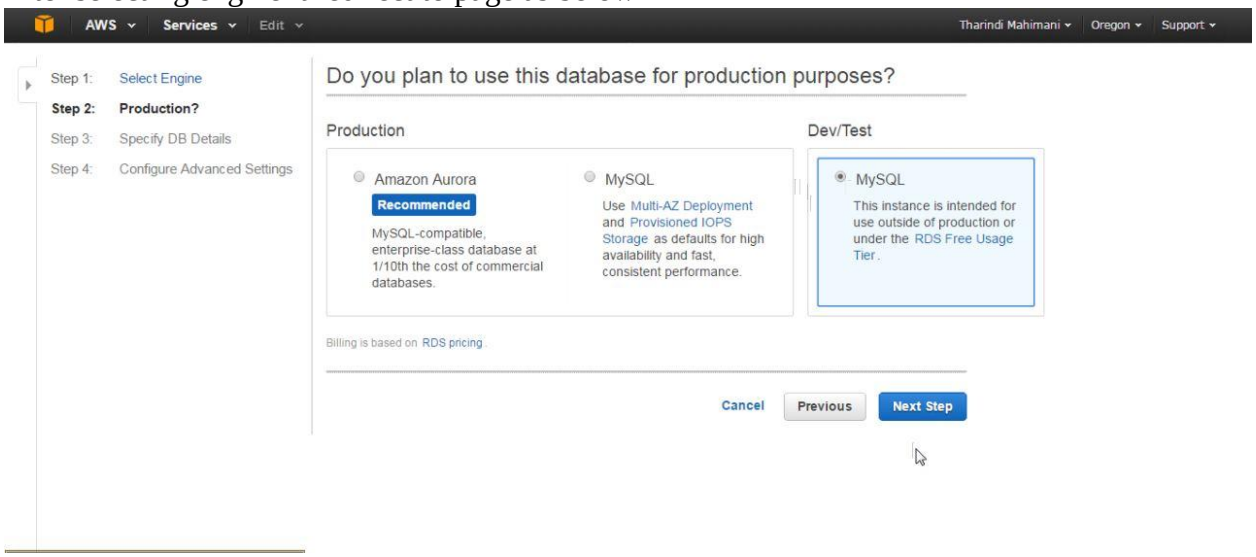
To do this practical first it have to logged in to via account that created in previous practical Amazon Web Service (AWS). Then same as first few steps in previous practical must select RDS to launch the instance. As before it must select free tire eligible or free tire eligible phase must be select.
In here I had selected "RDS Dashboard " form below window



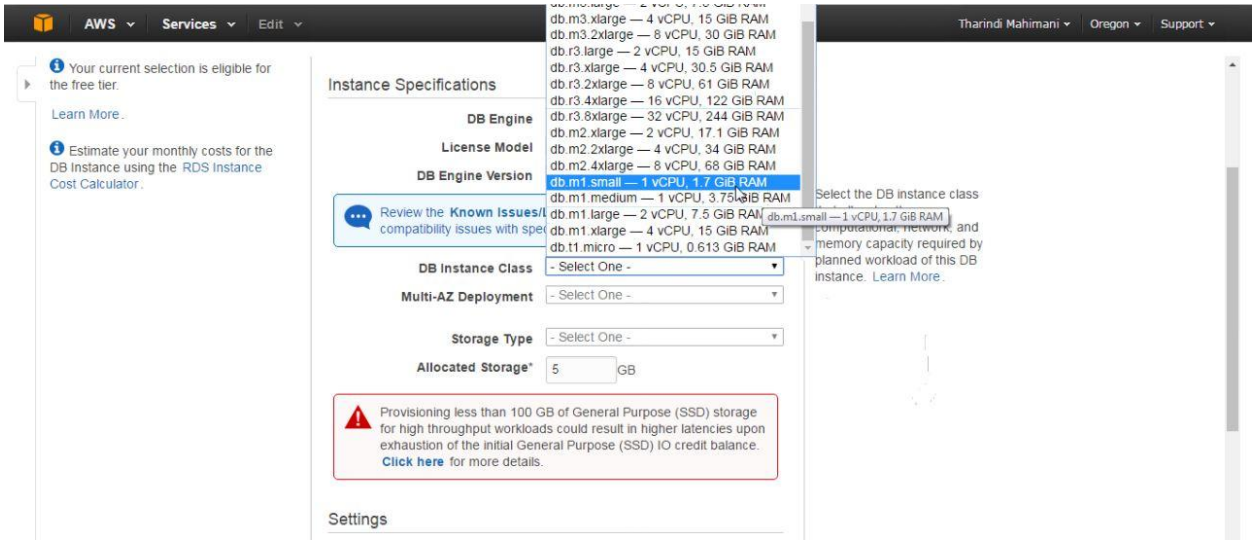
After getting this window it must click on " Get Start Now" after doing it redirect to the below window

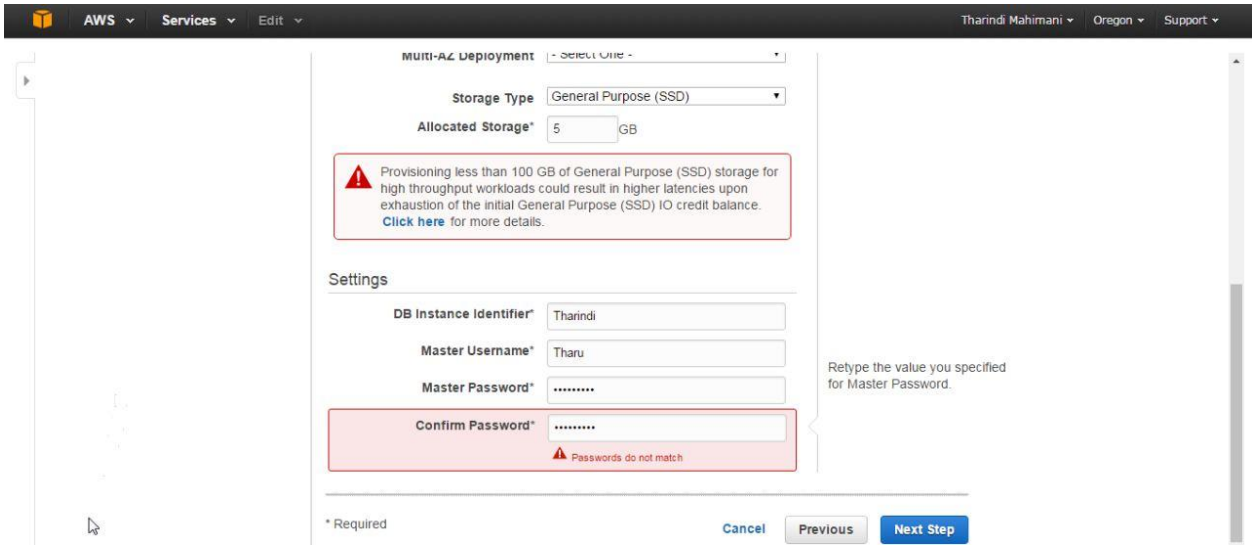


From this in this lab It suppose to create My SQL instance because of that it must select the My SQL Engine as above
After selecting engine it redirect to page as below

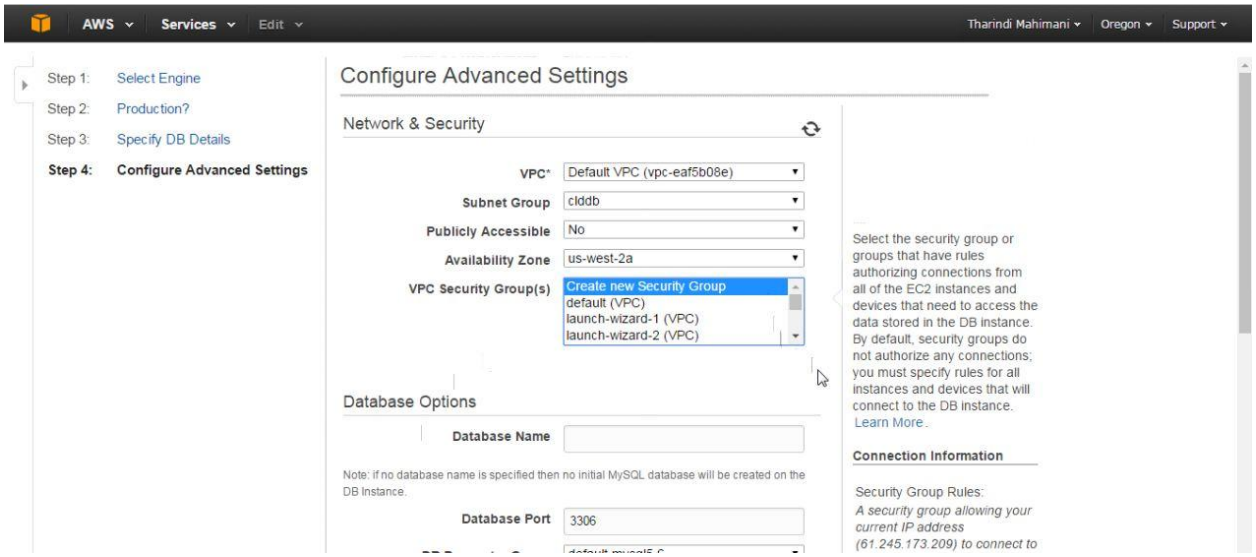


In here it have to have select the production in here it select the My SQL production after selecting production it must specify Data Base details from following window

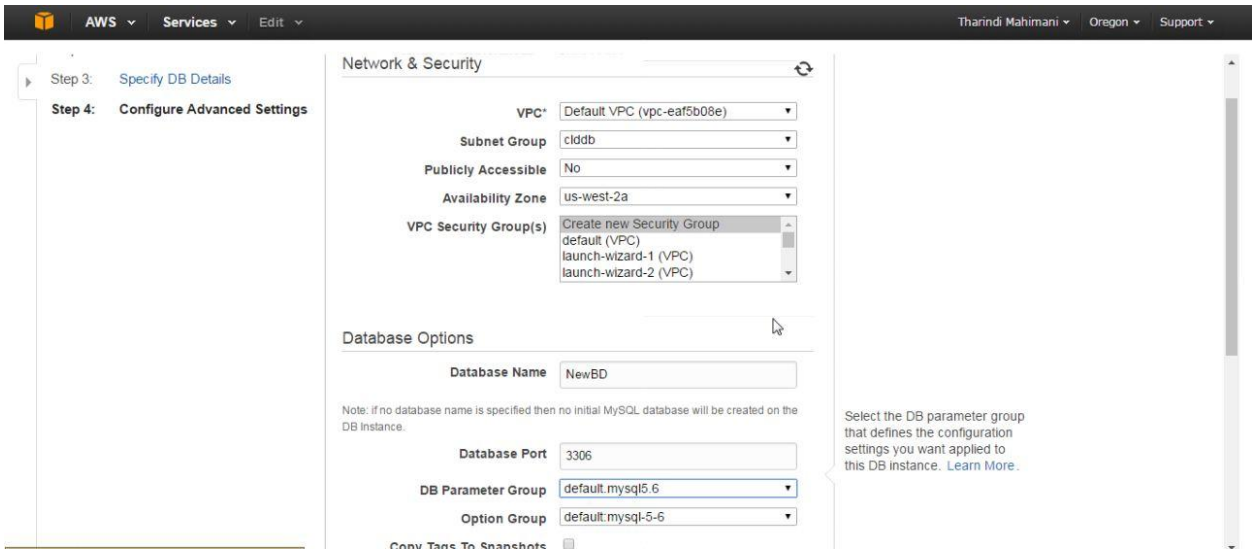




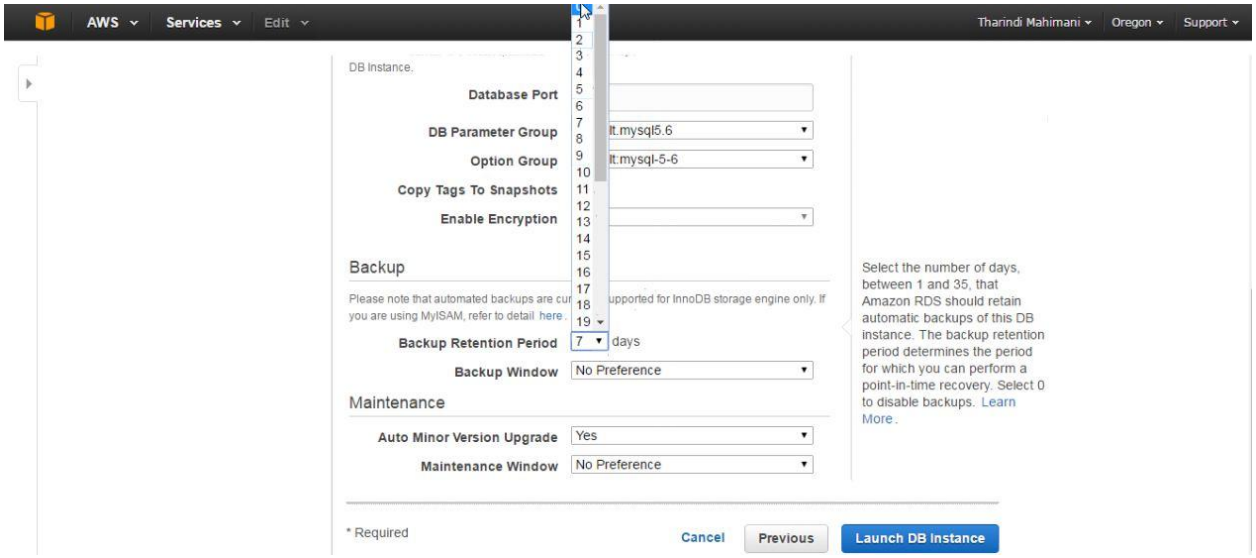
From above window it must configure the Data base details as "DB instance class ". and from second window it must adjust setting as mention above. After done all this it must set the security and the advanced settings of Data Base because security is a key pillar of a Data Base.
It use below window to configure Security.



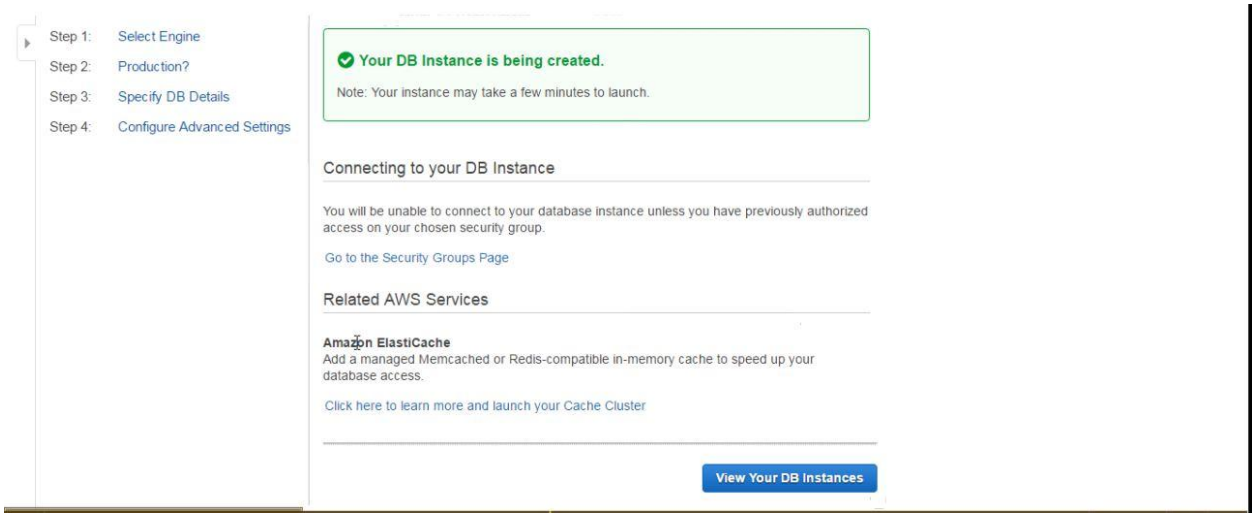
After setting up some security it must set the Data Base options as below,



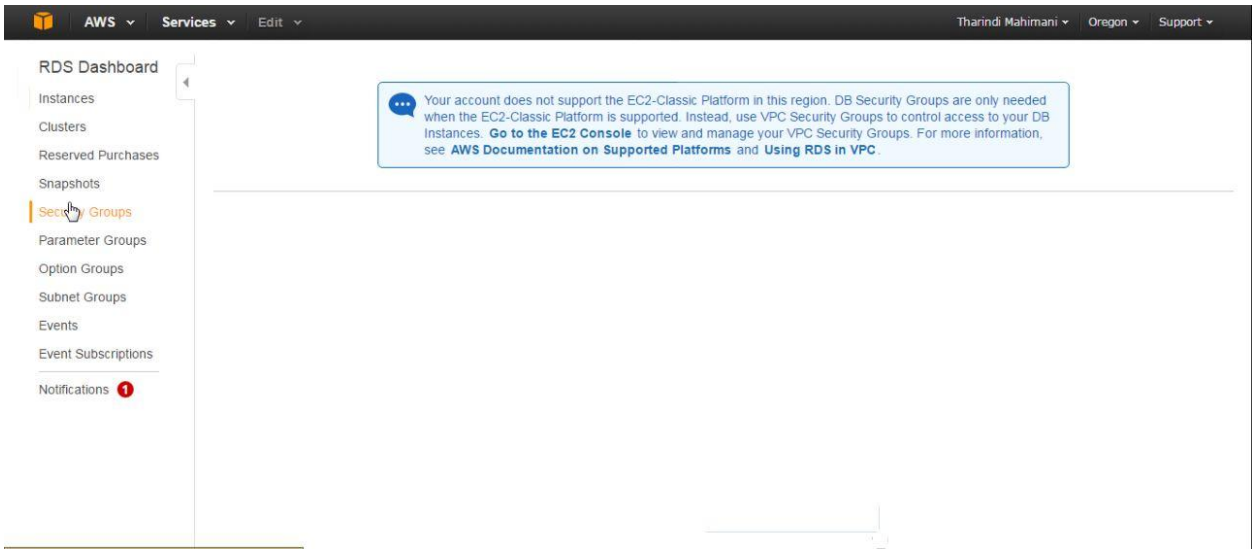
Then it Must have to set Backup as well in here Backup Retention Period is get more important in this if we select period we have to pay for it so it must have keep in mid it must select "0" as value of Backup Retention Period.



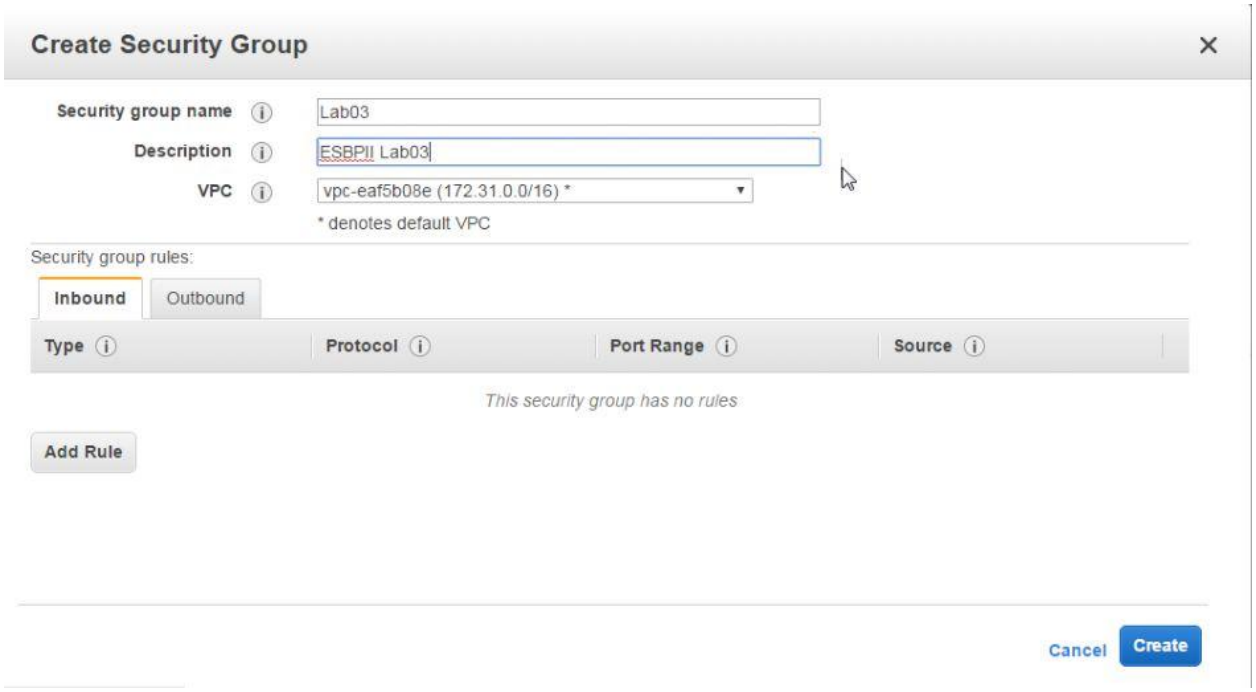
After following the steps mention above it will get successful massage as below



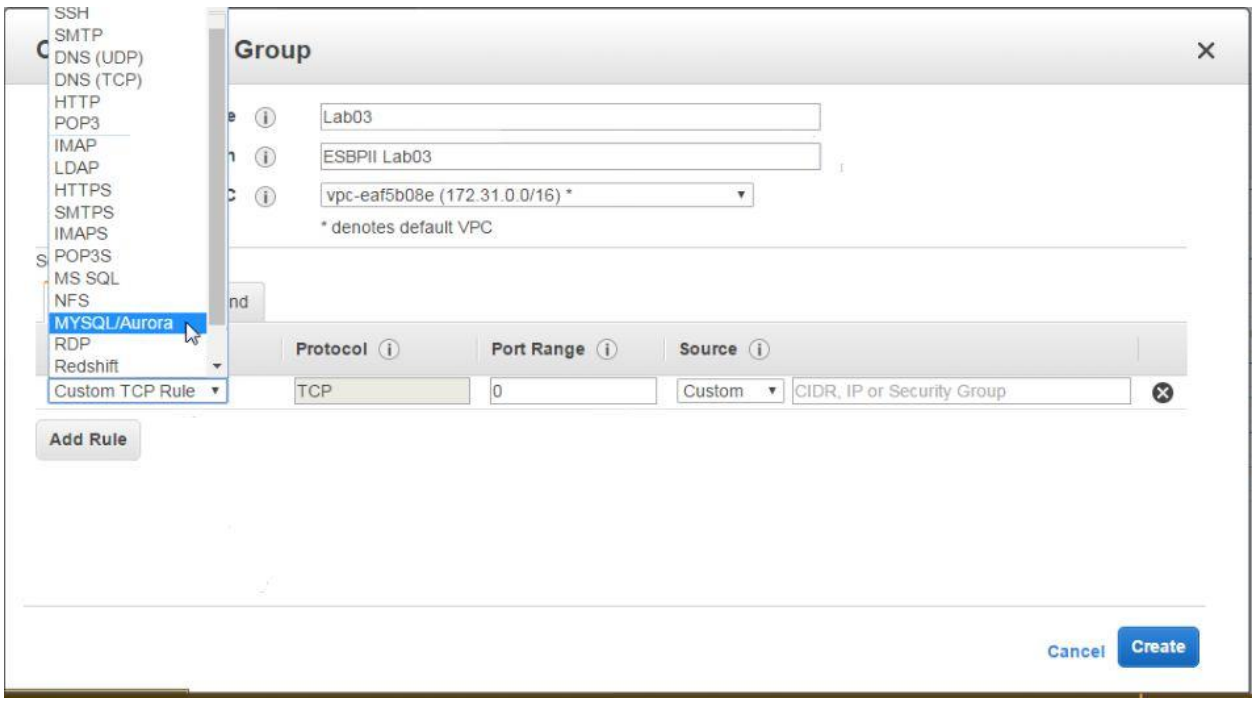
After successfully lunched DB Instance it must look for security groups. It must create security group for the created DB Instance. To do that again it must go to the RDS dashboard and select Security Groups.



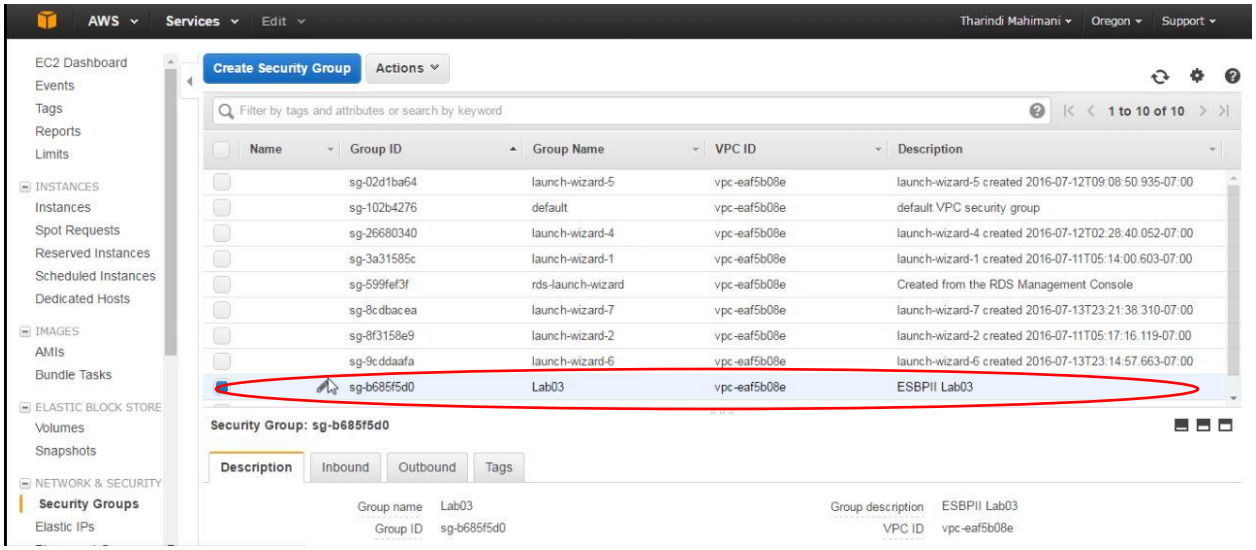
Then form their it can create security groups as below,



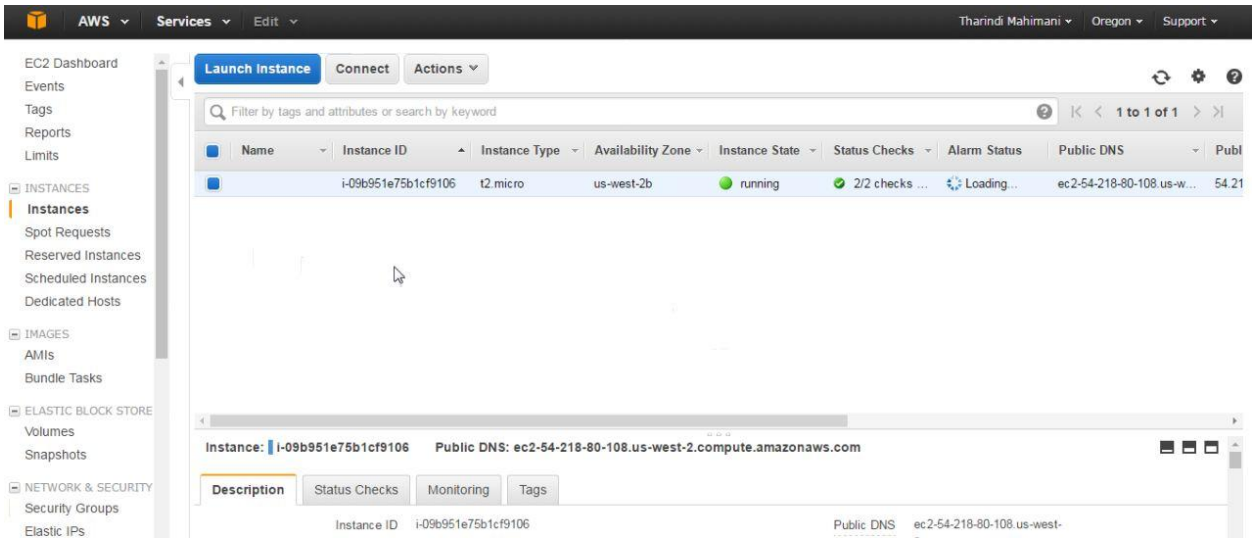
Ater giving relevant details, as Security Group Name, Description it must Click on "Add Rule"



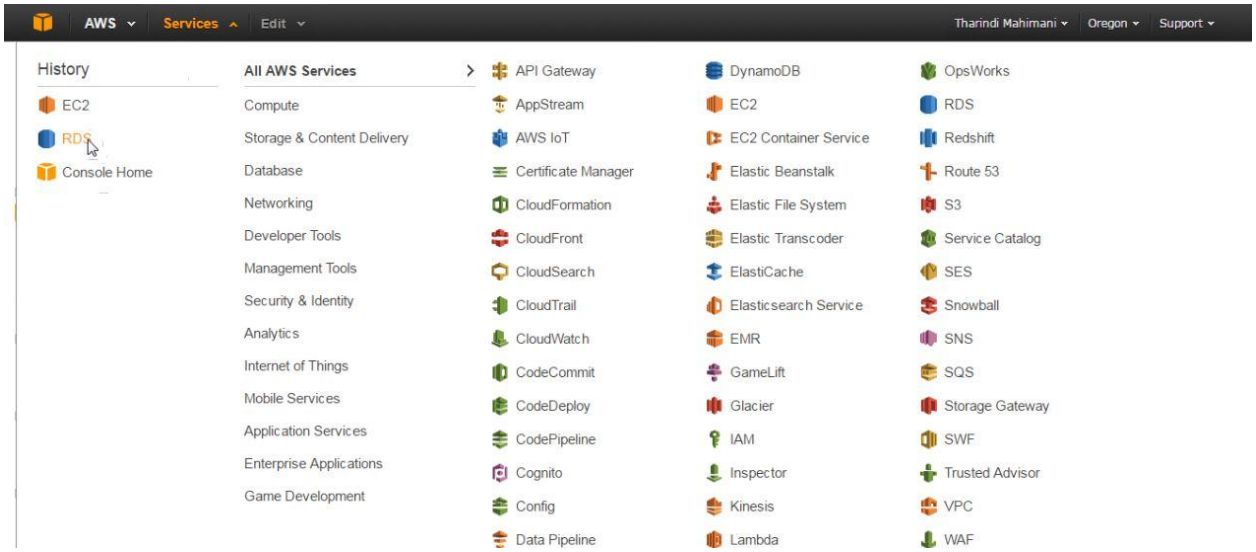
In here it must select Type as "MYSQL/Aurora" then it can create after creating the security group it Can look as below



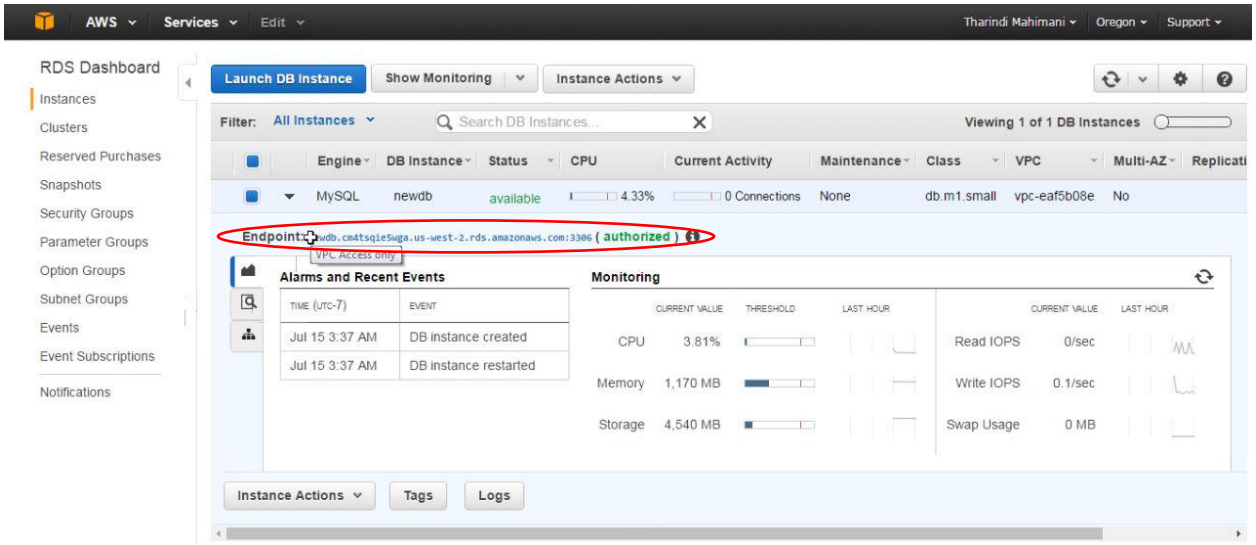
Then It have to go to the instance and check on it



Now in here the DB instance in running state. Then go to the Services and select RDS



From their it can get a look for DB instance which we crated before in detail,



After completing the process it get a key in end point .By using that key it can Connecting to a Database on a DB Instance Running the MySQL Database Engine. To do that process it must have MY SQL work bench on your machine.