

Enterprise Standards and Best Practices for IT Infrastructure

Lab Report

Lab 03 - Creating an Amazon RDS Database

W.A.L Sarathchandra

IT12142910

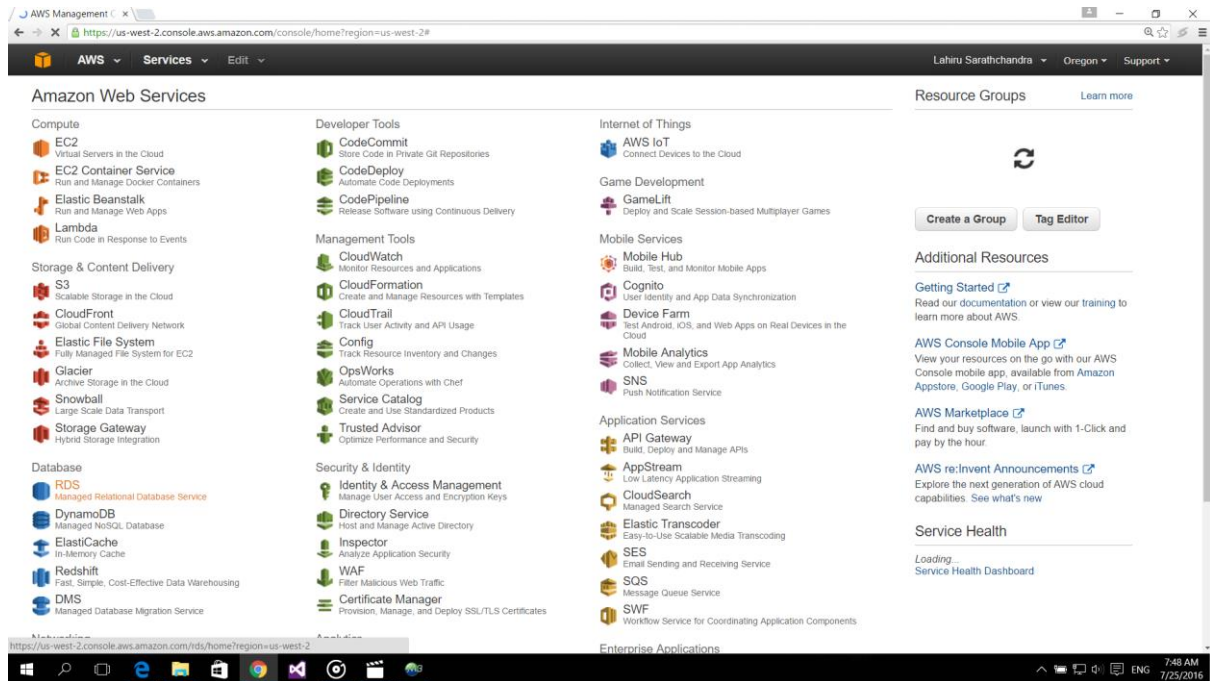
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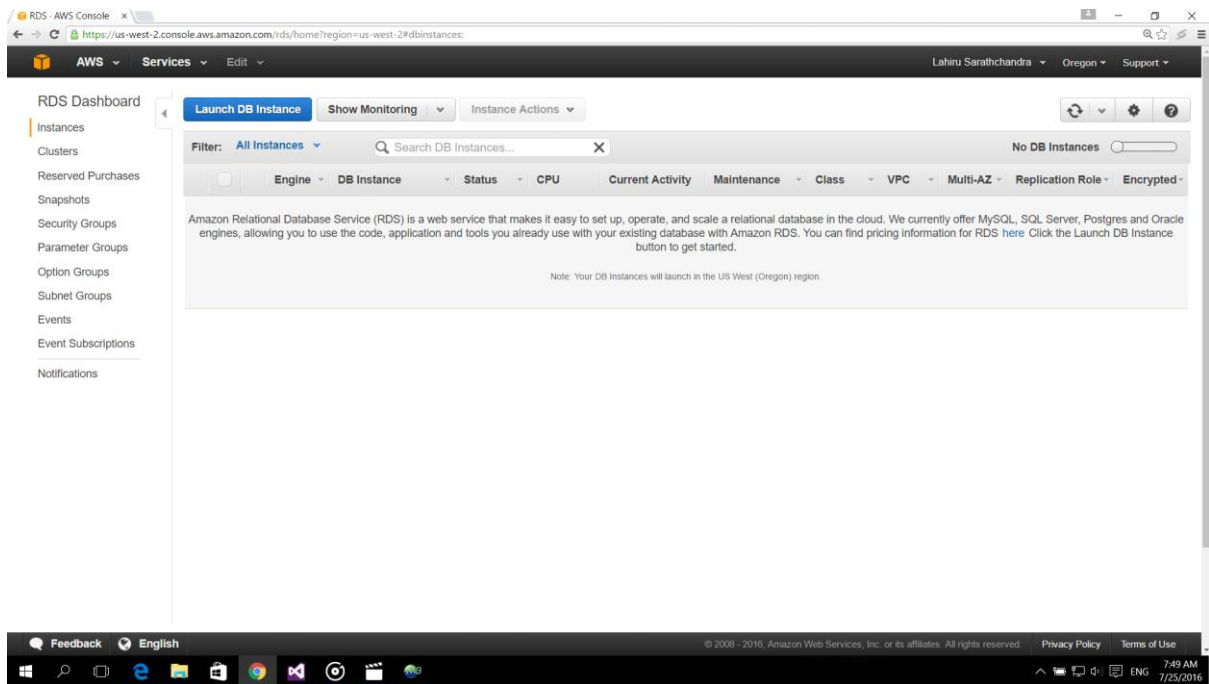
Creating an Amazon RDS Database

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

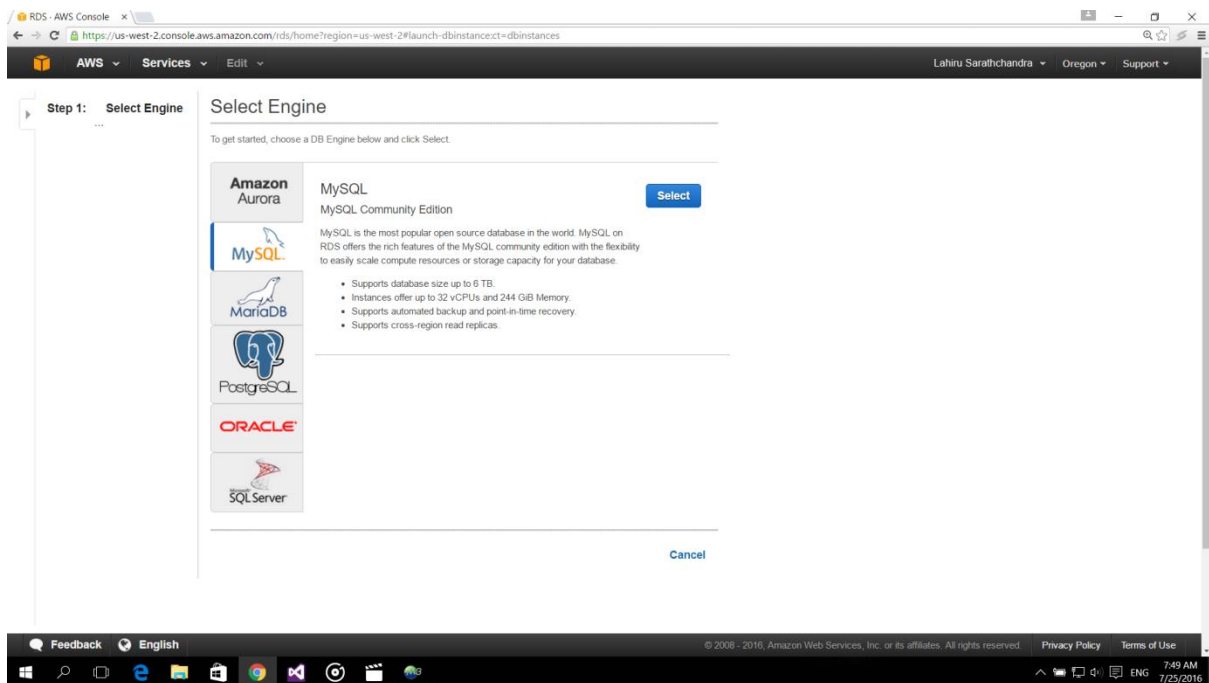


Step 02: Choose Instances from RDS Dashboard.

Select Launch DB Instance.

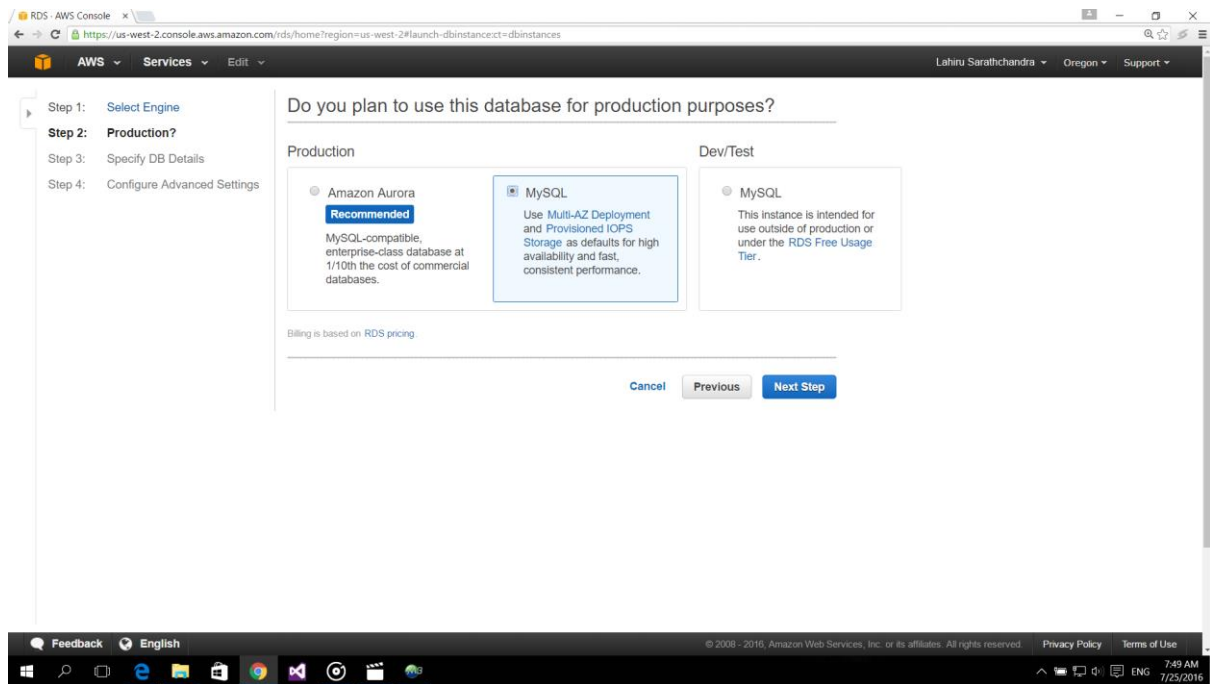


Step 03: Choose MySQL from 'Select Engine' tab.



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

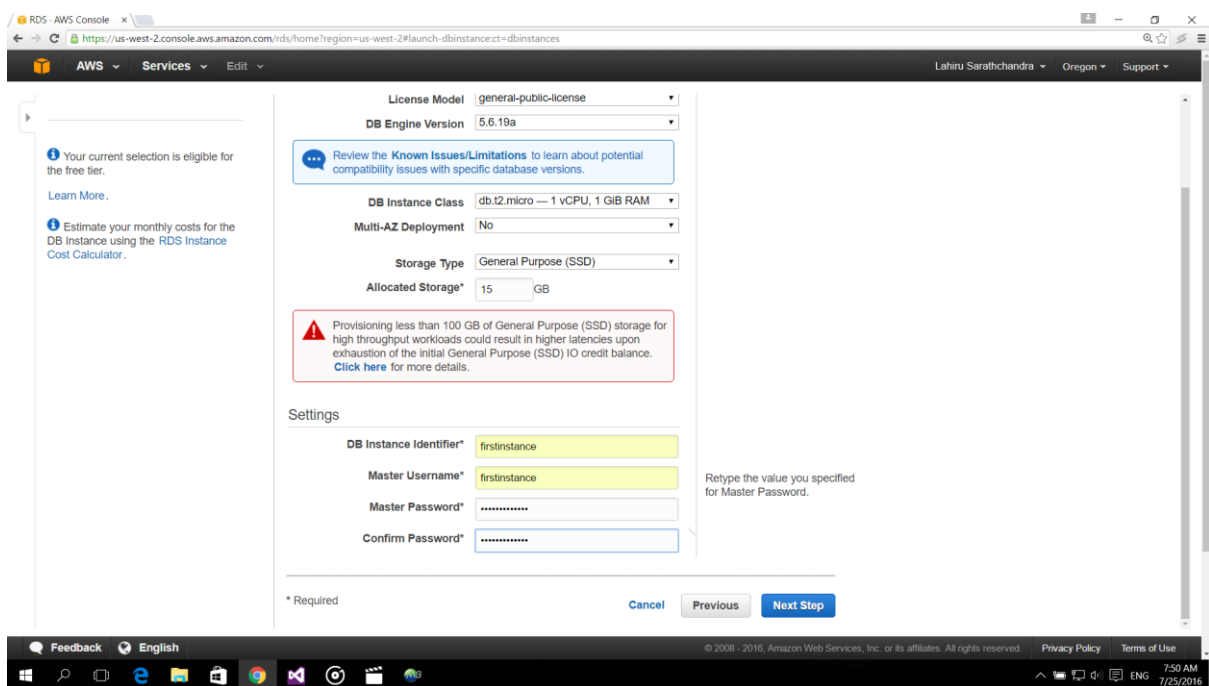
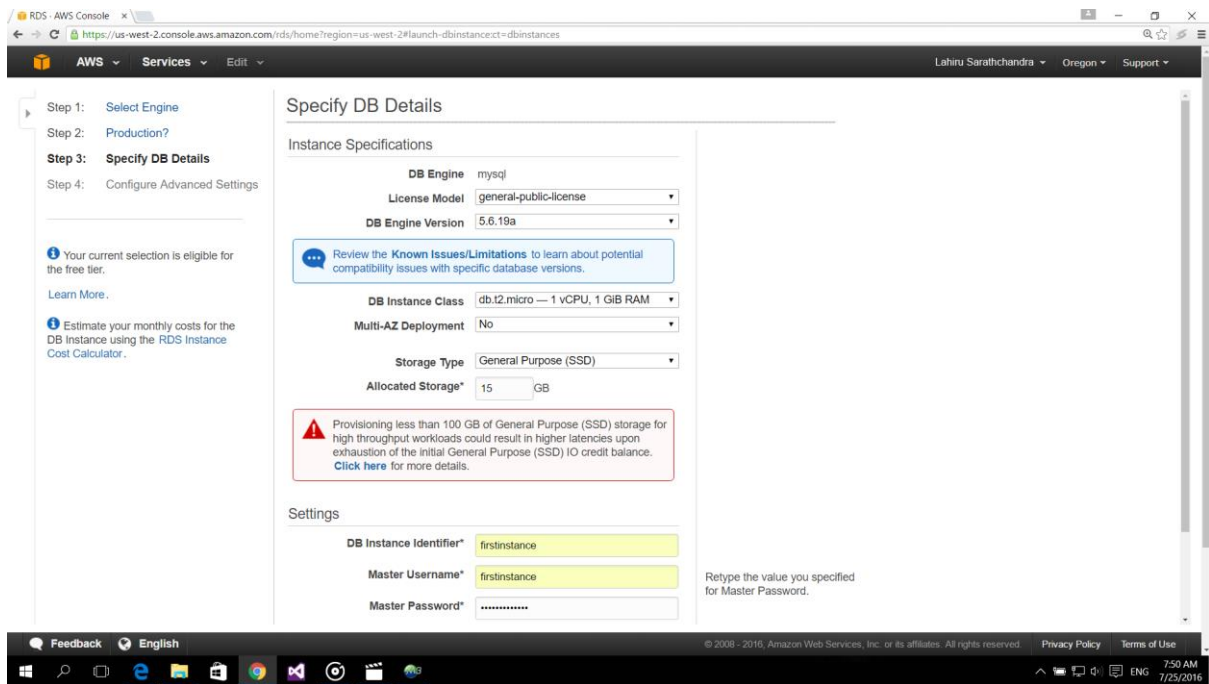
DB Instance Class: db.t2.micro – 1 vCPU, 1 GiB RAM

Multi-AZ Deployment: No

Storage Type: General Purpose (SSD)

Allocated Storage: 15 GB

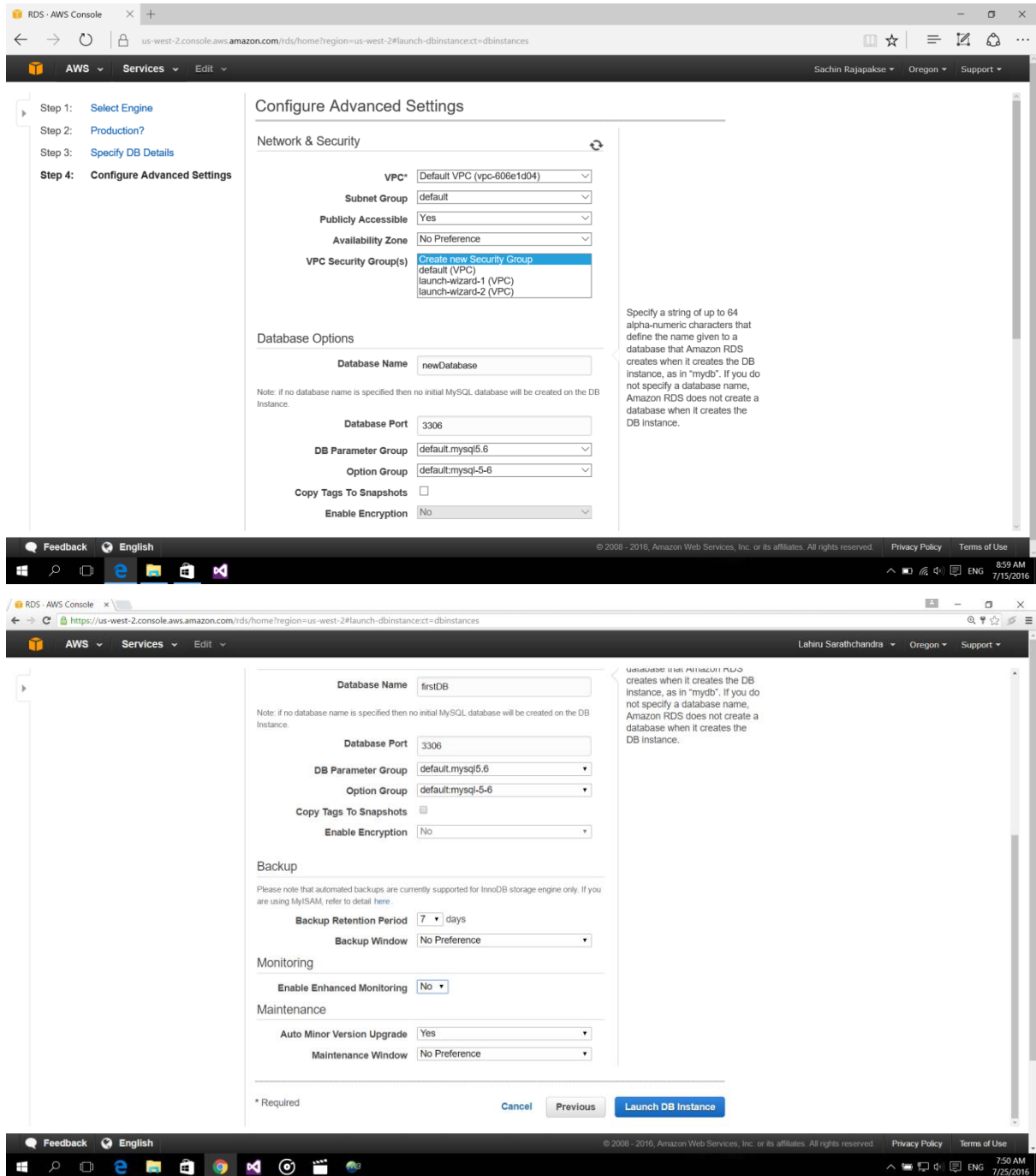
Provide a DB instance identifier, a master username and a master password.



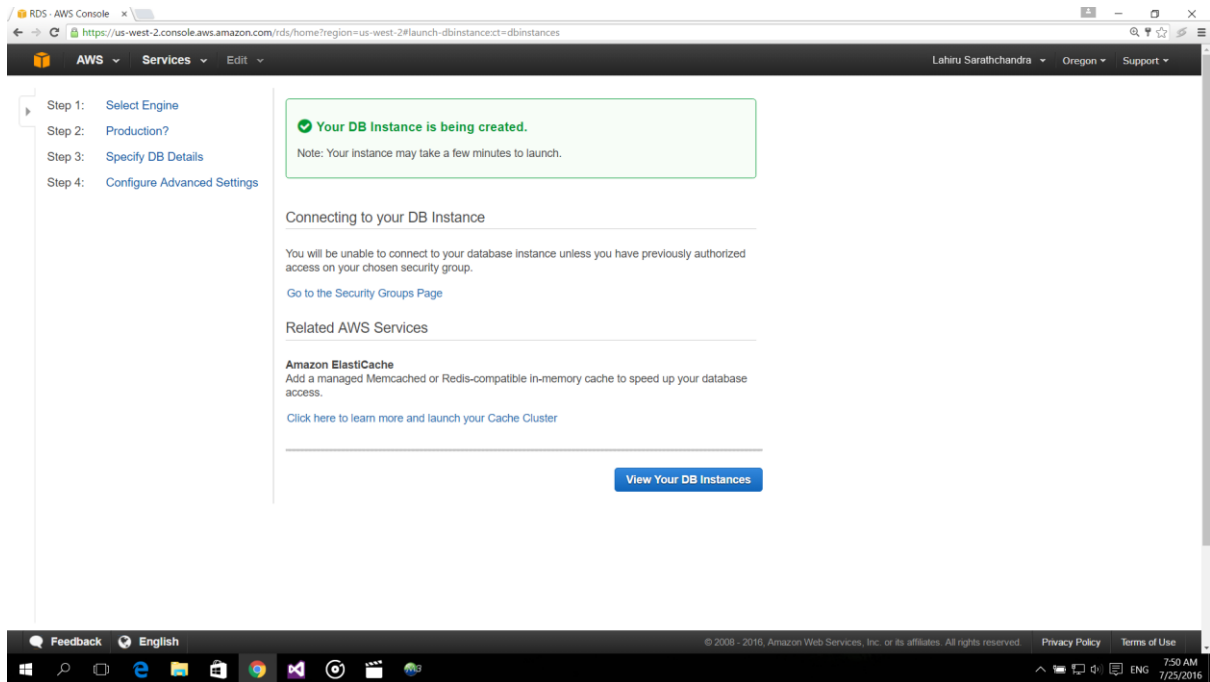
Step 06: Give a database name in 'Configure Advanced Settings' tab. (Database Options)

Choose 'No' in Enable Enhanced Monitoring. (Monitoring)

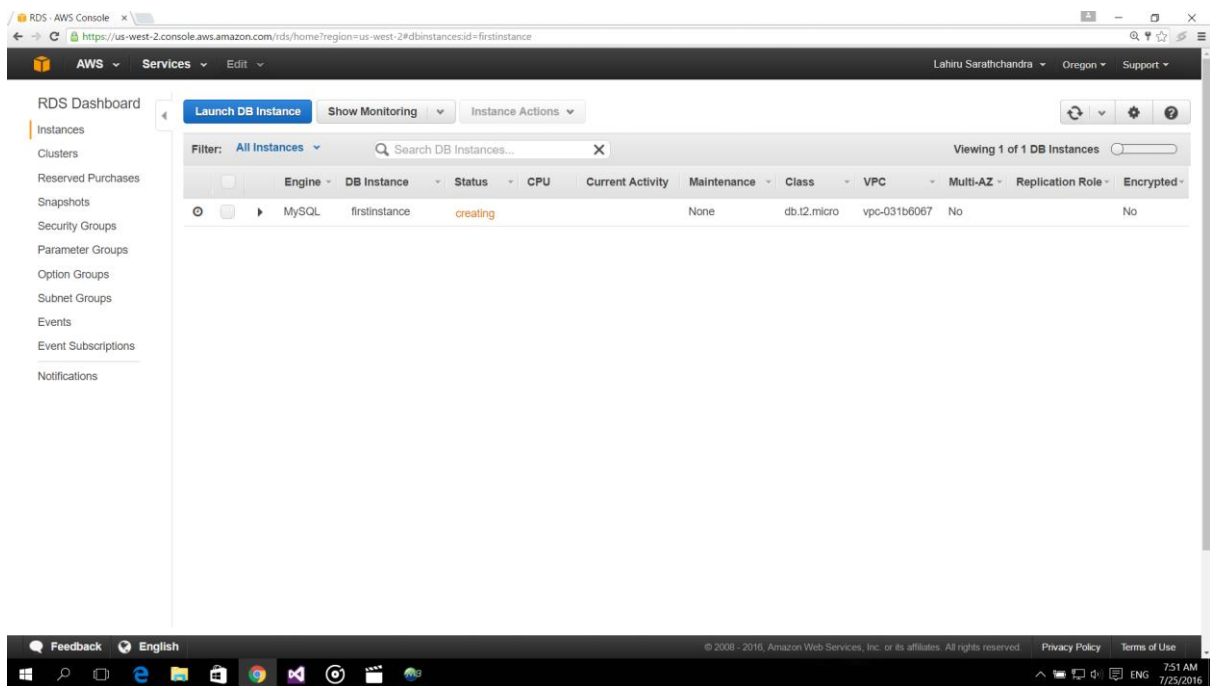
Click 'Launch DB Instance'.



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



Step 08: Wait until the instance status change to 'available' from 'creating'.
(creating -> backing-up -> available)



RDS · AWS Console

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

AWS Services Edit

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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	Encrypted
<input type="radio"/>	MySQL	newinstance	backing-up			None	db.t2.micro	vpc-606e1d04	No		No

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RDS · AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstancesid=firstinstance

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RDS Dashboard

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- Parameter Groups
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- Subnet Groups
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Launch DB Instance Show Monitoring Instance Actions

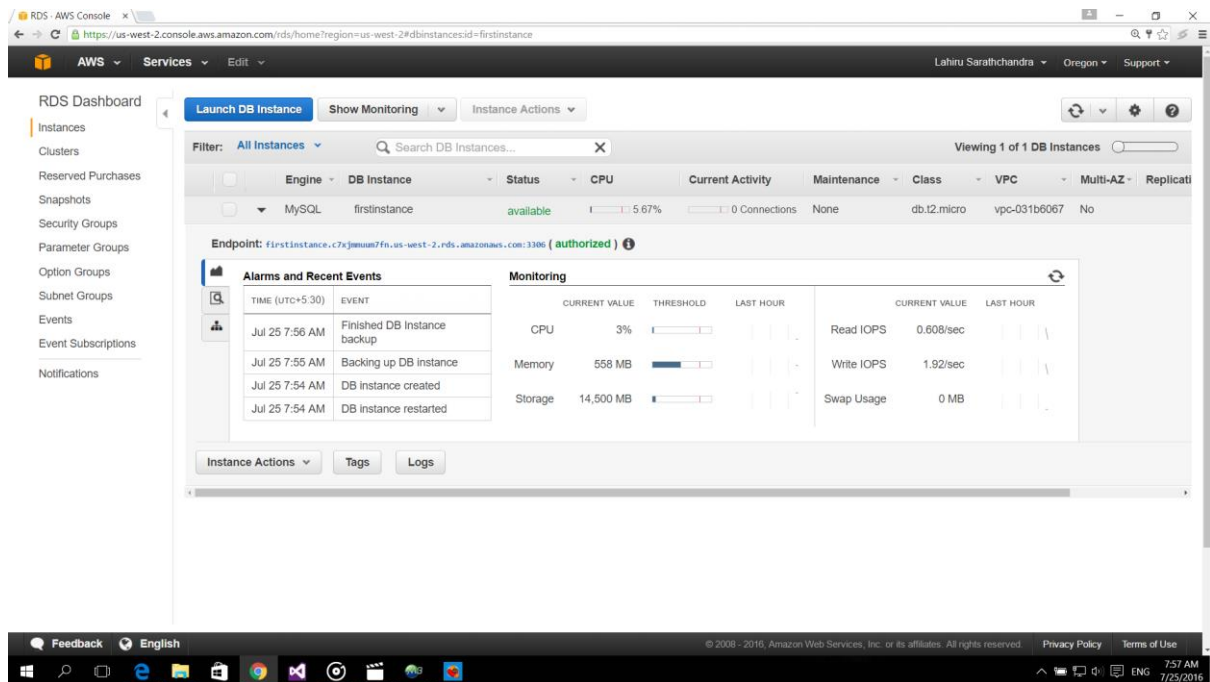
Filter: All Instances Search DB Instances... Viewing 1 of 1 DB Instances

	Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication Role	Encrypted
<input type="radio"/>	MySQL	firstinstance	backing-up			None	db.t2.micro	vpc-031b6067	No		No

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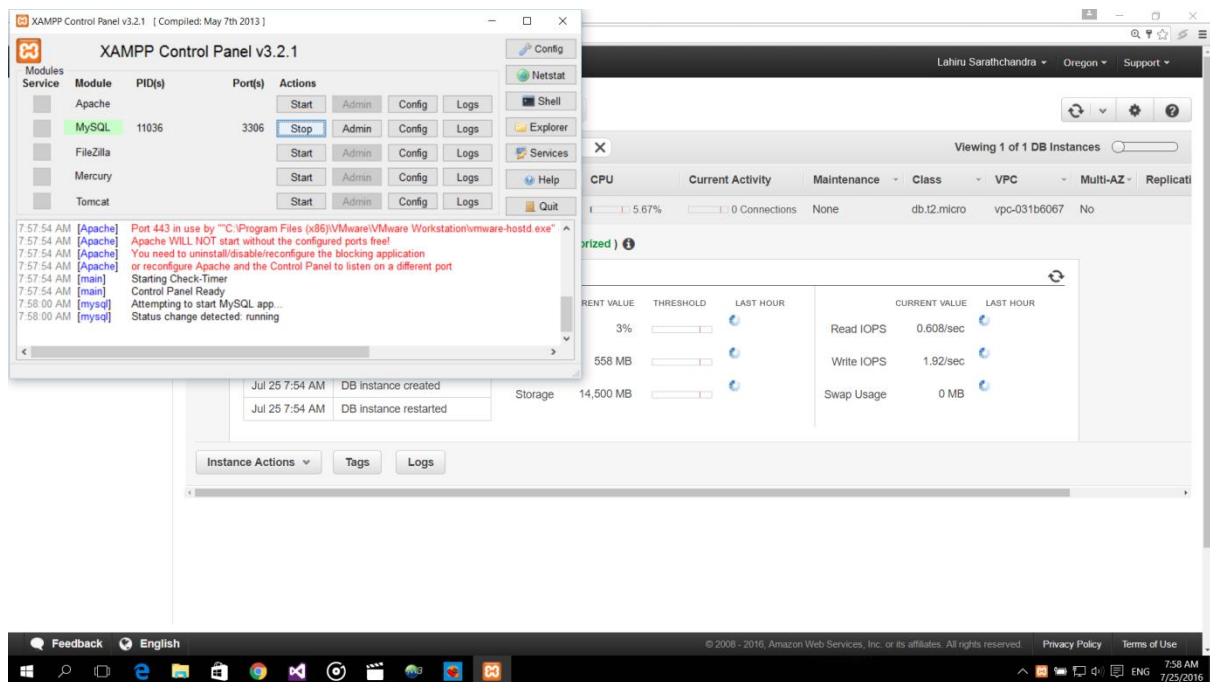
Step 09: Expand the instance to view Endpoint.

Copy the Endpoint without the port number.



Step 10: Open XAMPP Control Panel.

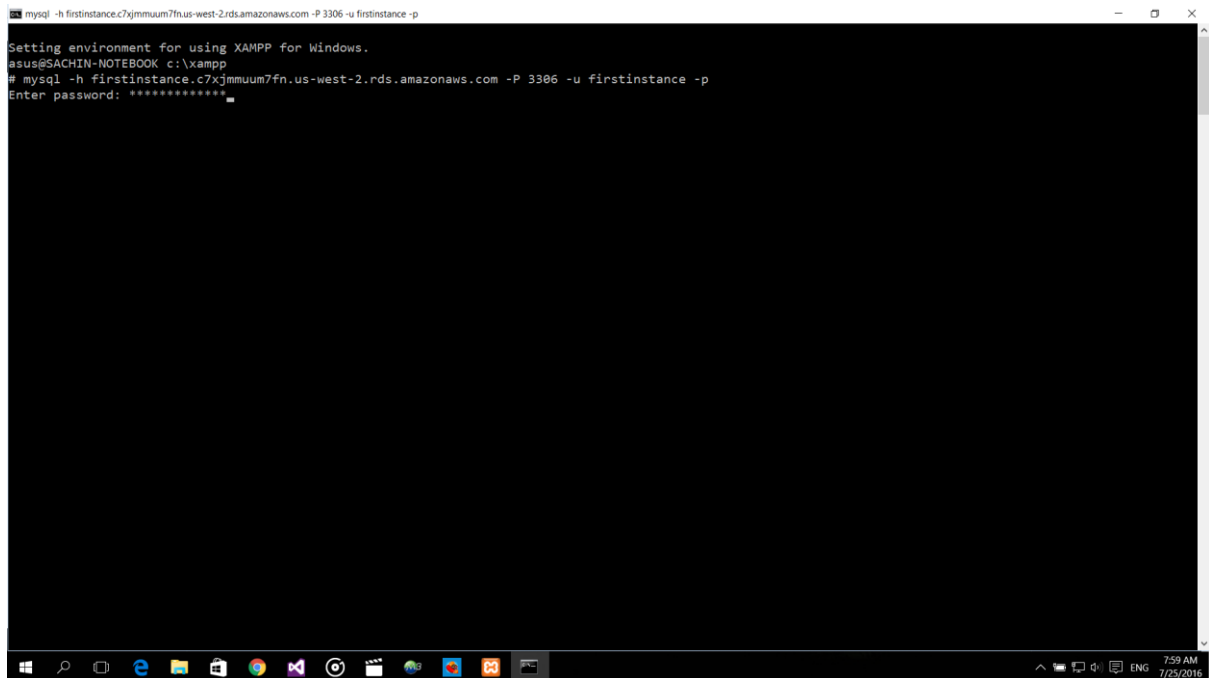
Start MySQL.



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

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

Enter master password.



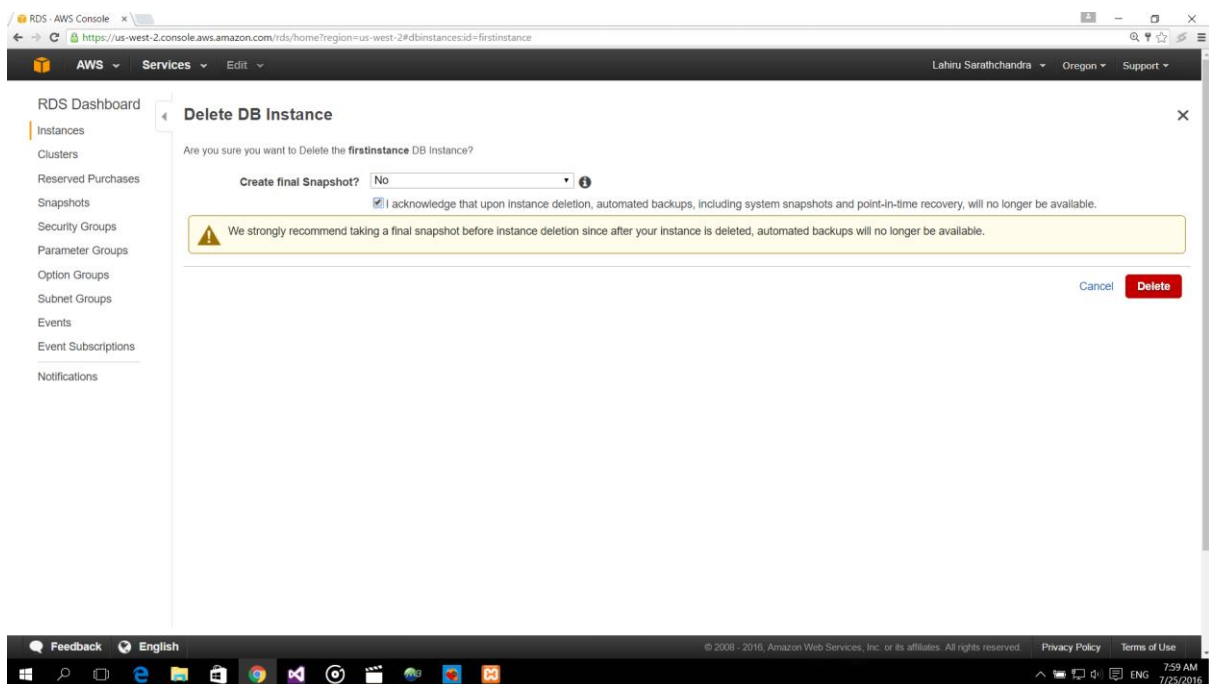
```
mysql -h firstinstance.c7xjmmu7fn.us-west-2.rds.amazonaws.com -P 3306 -u firstinstance -p

Setting environment for using XAMPP for Windows.
asus@SACHIN-NOTEBOOK c:\xampp
# mysql -h firstinstance.c7xjmmu7fn.us-west-2.rds.amazonaws.com -P 3306 -u firstinstance -p
Enter 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#instancesid=firstinstance

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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	Replica
MySQL	firstinstance	deleting	1.17%	0 Connections	None	db.t2.micro	vpc-031b6067	No	No

Endpoint: firstinstance.c7xjmuu7fn.us-west-2.rds.amazonaws.com:3306 (authorized)

Alarms and Recent Events

TIME (UTC+5:30)	EVENT
Jul 25 7:56 AM	Finished DB Instance backup
Jul 25 7:55 AM	Backing up DB Instance
Jul 25 7:54 AM	DB Instance created
Jul 25 7:54 AM	DB Instance restarted

Monitoring

	CURRENT VALUE	THRESHOLD	LAST HOUR
CPU	1.17%		
Memory	556 MB		
Storage	14,500 MB		
Read IOPS	0/sec		
Write IOPS	0.2/sec		
Swap Usage	0 MB		

Instance Actions Tags Logs

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RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#instancesid=firstinstance

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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.

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