SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2016

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SLIIT ID: IT13069032

Practical Session: WE Monday

Practical Number: Lab 1, Lab 2, Lab 3

Date of Submission: 30/07/2016

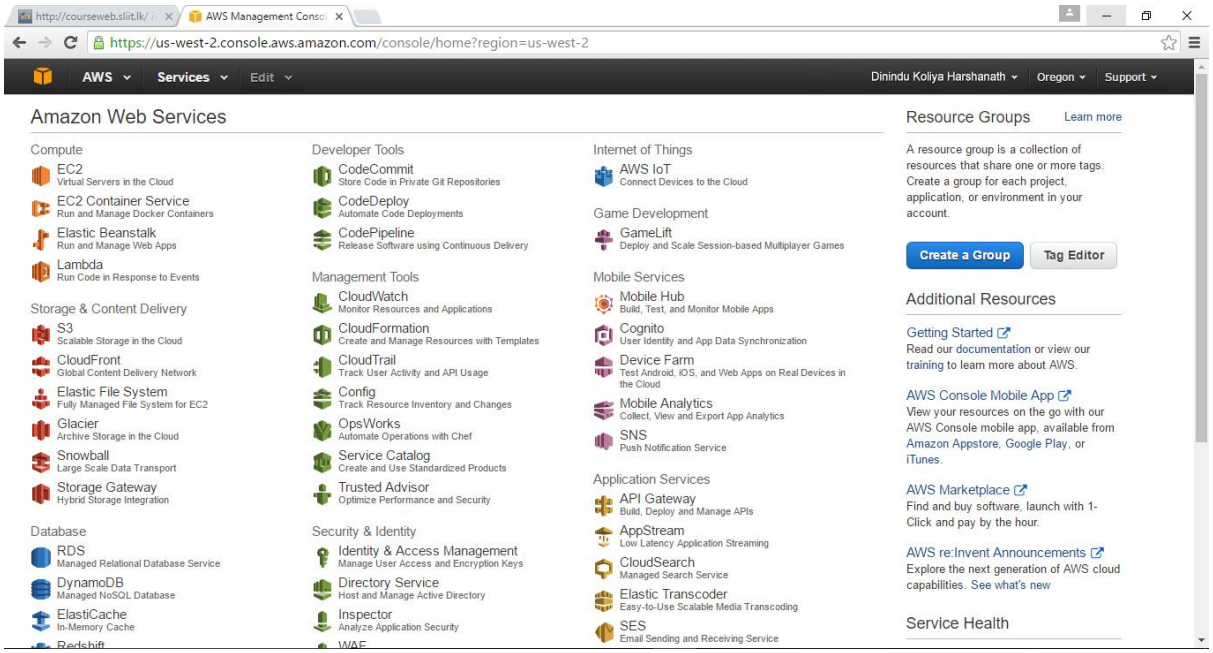
Date of Evaluation : _____

Evaluators Signature : _____

Creating an Amazon EBS - Backed Windows AMI

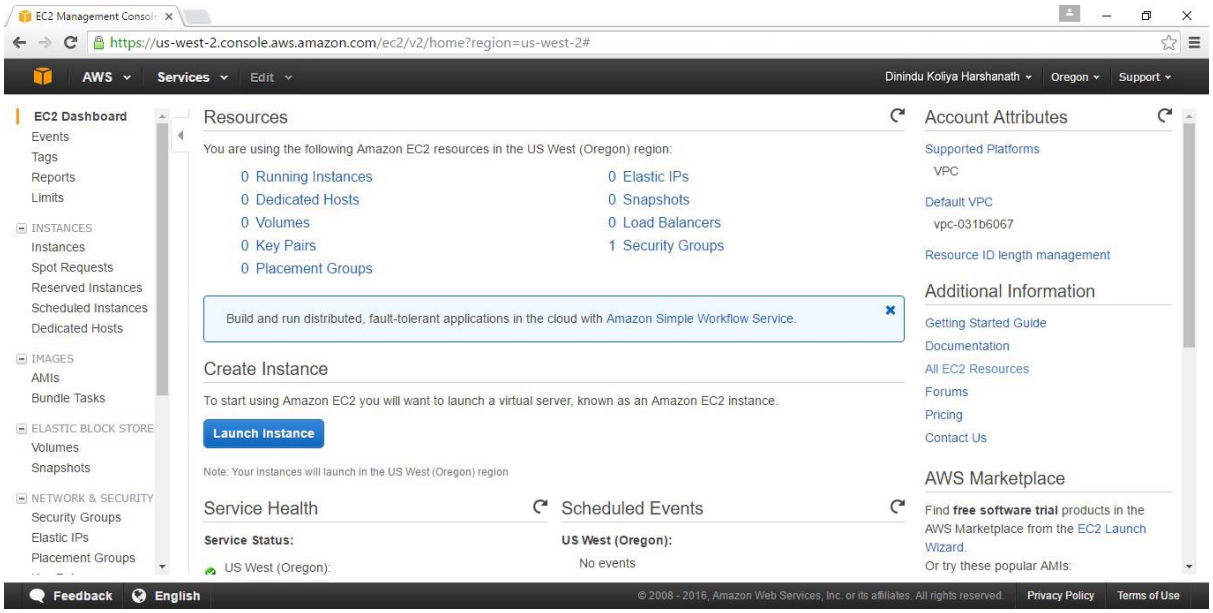
Step 01

Select EC2 web service (virtual server in cloud) from Amazon web servers.



Step 02

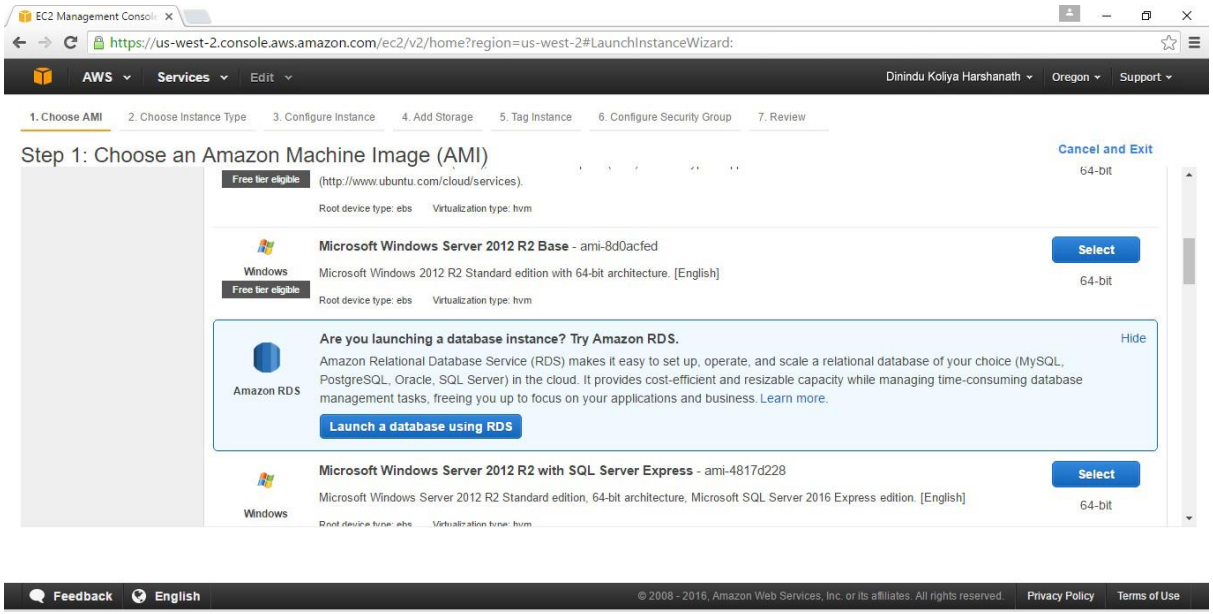
Select Launch Instance under Create Instance in main interface.



Step 03

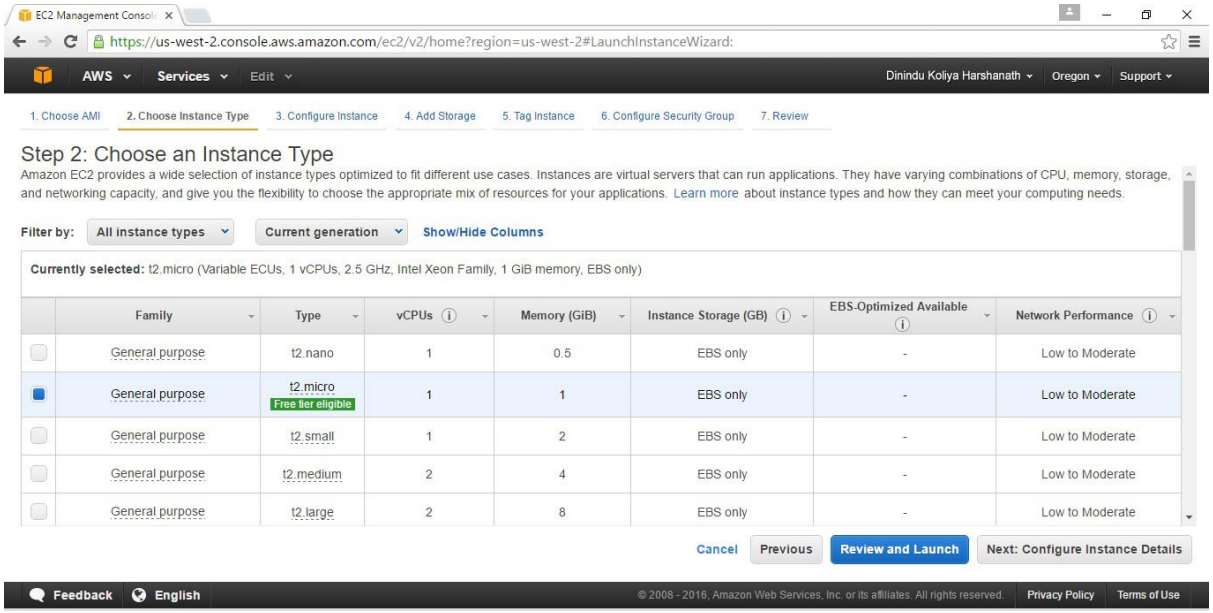
Choose an Amazon Machine image (AMI).

(Select Microsoft windows Server 2012 R2 Base)



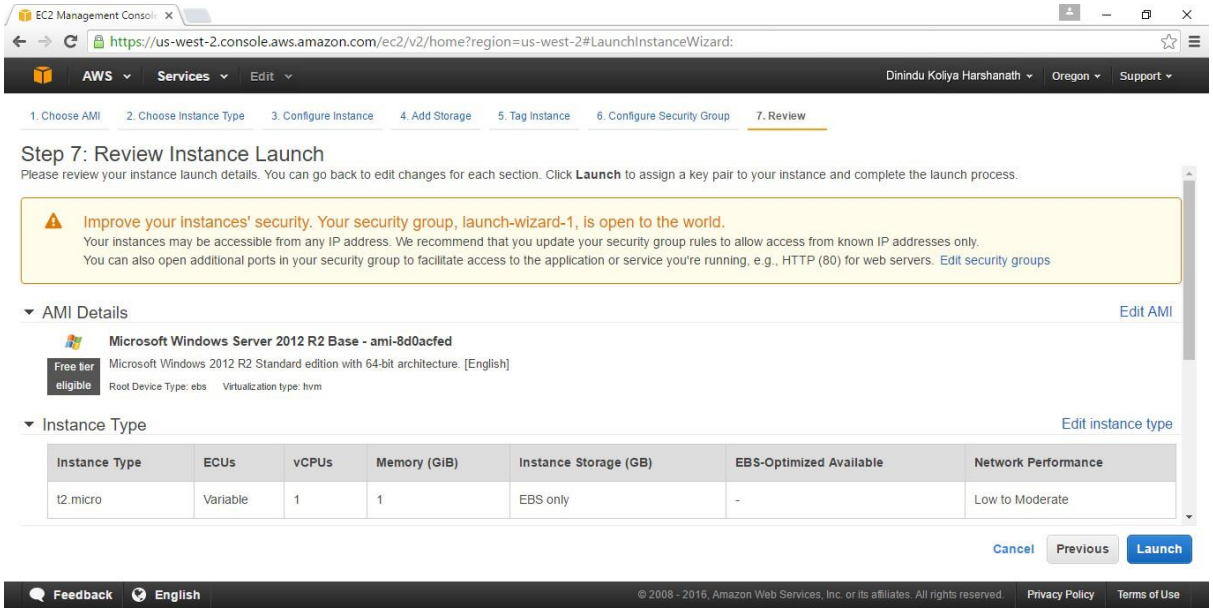
Step 04

Choose an Instance type. (Free instance)



Step 05

Review Instance Launch.

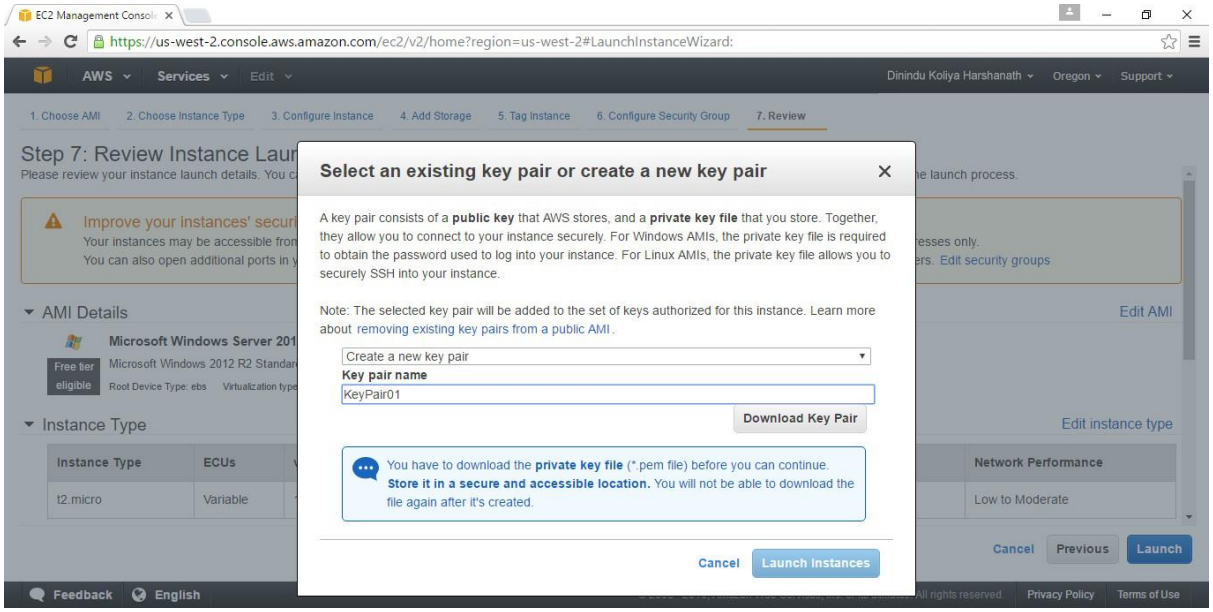


Step 06

After launch there is popup box which is to select an existing key pair or create new key pair.

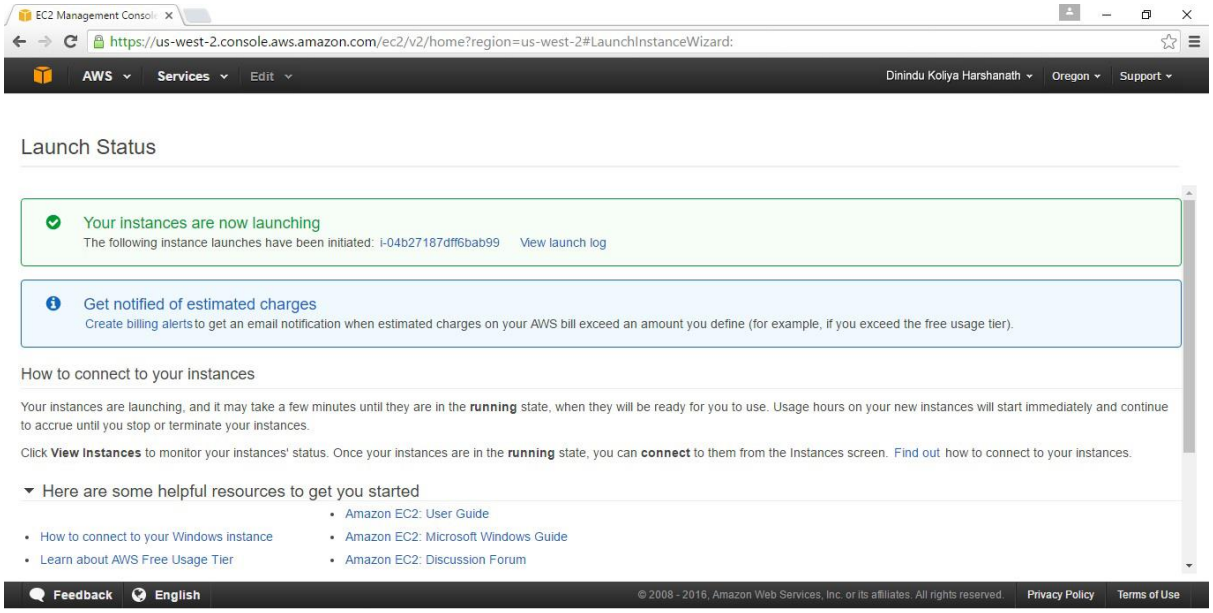
Select new key pair and download the key pair.

After downloading the key pair click Launch Instance.



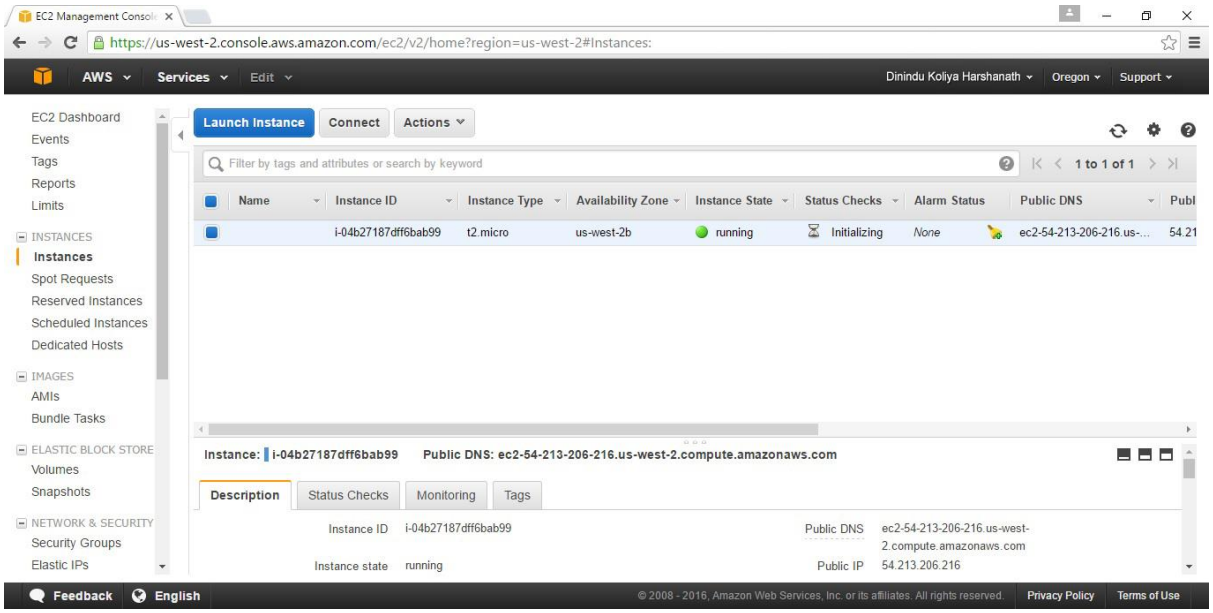
Step 07

View instance after launching.



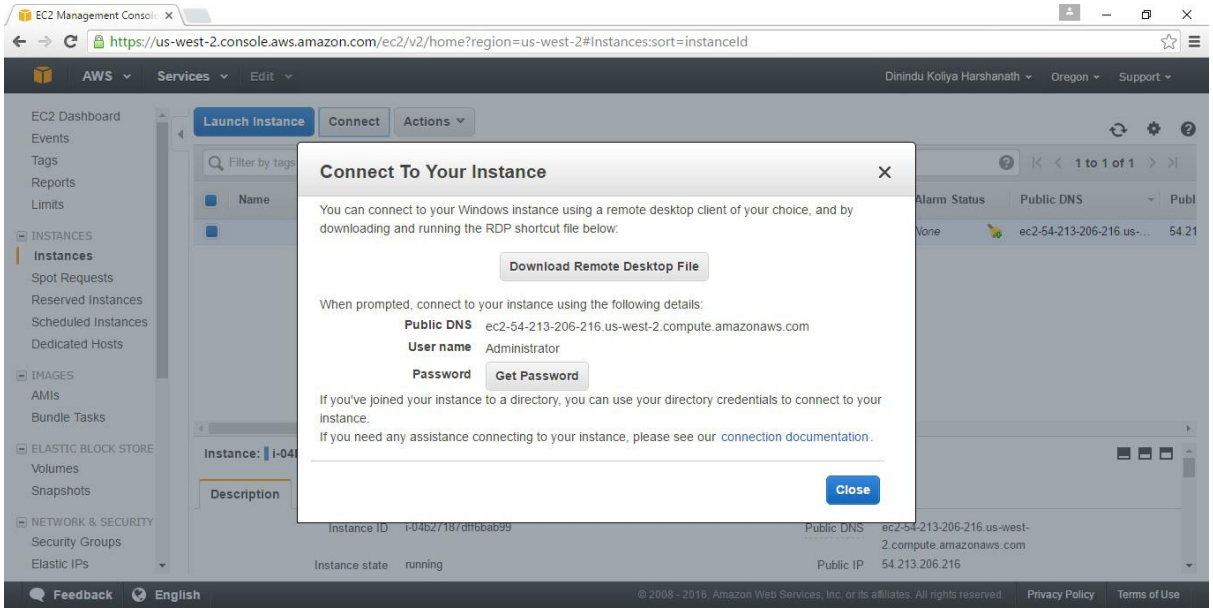
Step 08

Select the created instance and then connect.



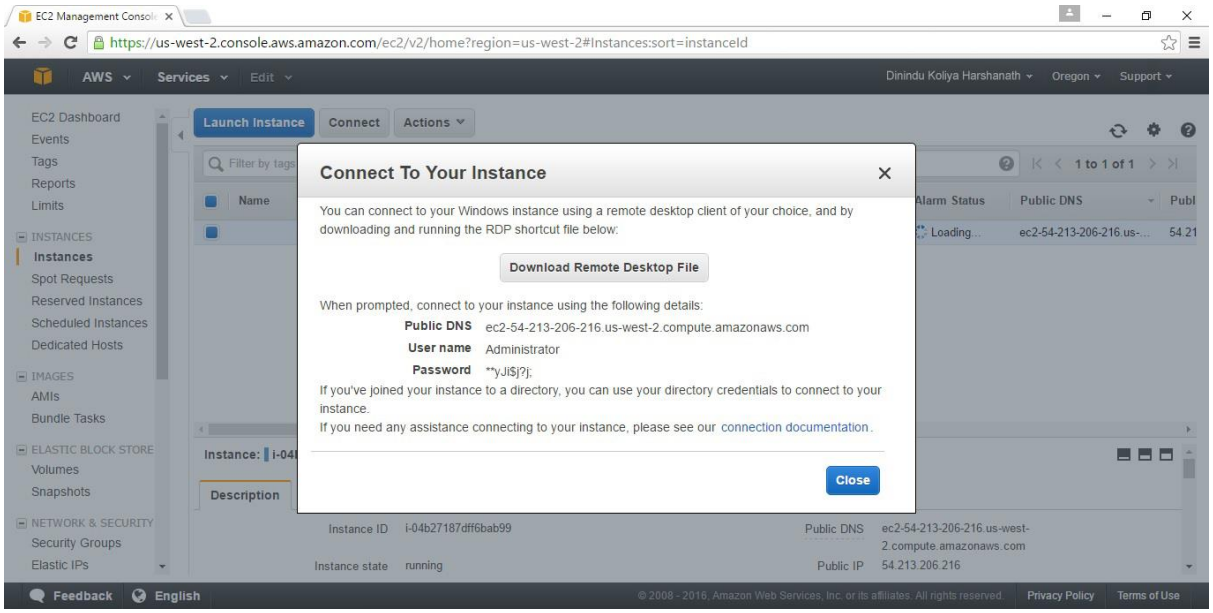
Step 09

Get a password from Connect to Your Instance window.



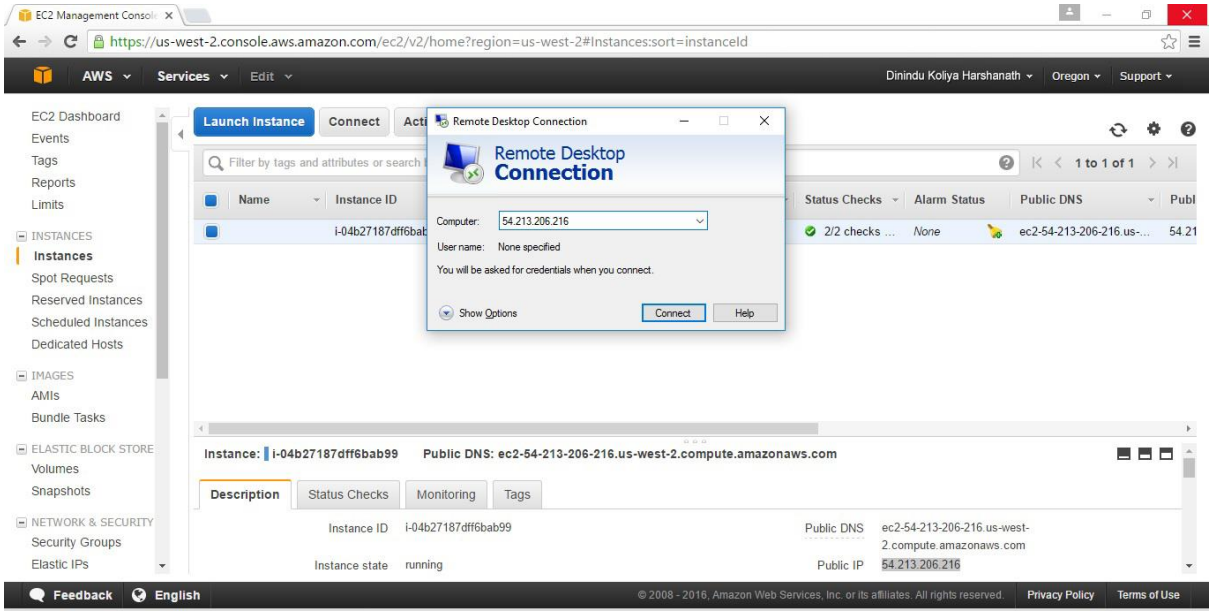
Step 10

Decrypt the password. Note down the user name and the decrypted password.



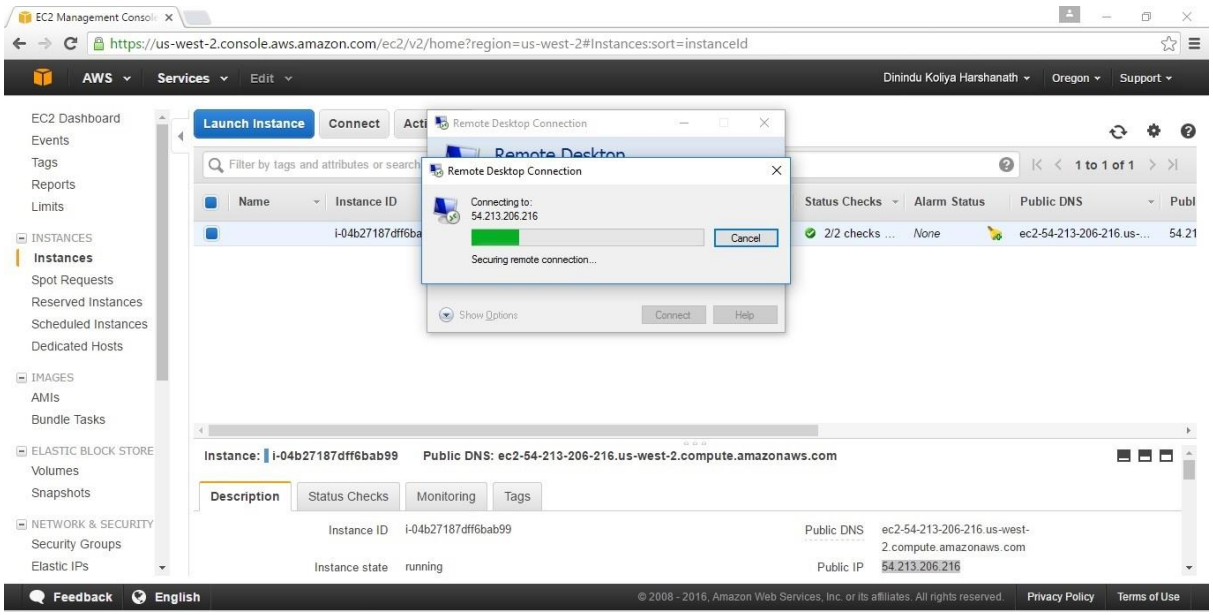
Step 11

Open Remote Desktop Connection. Provide the public IP of the launched instance.



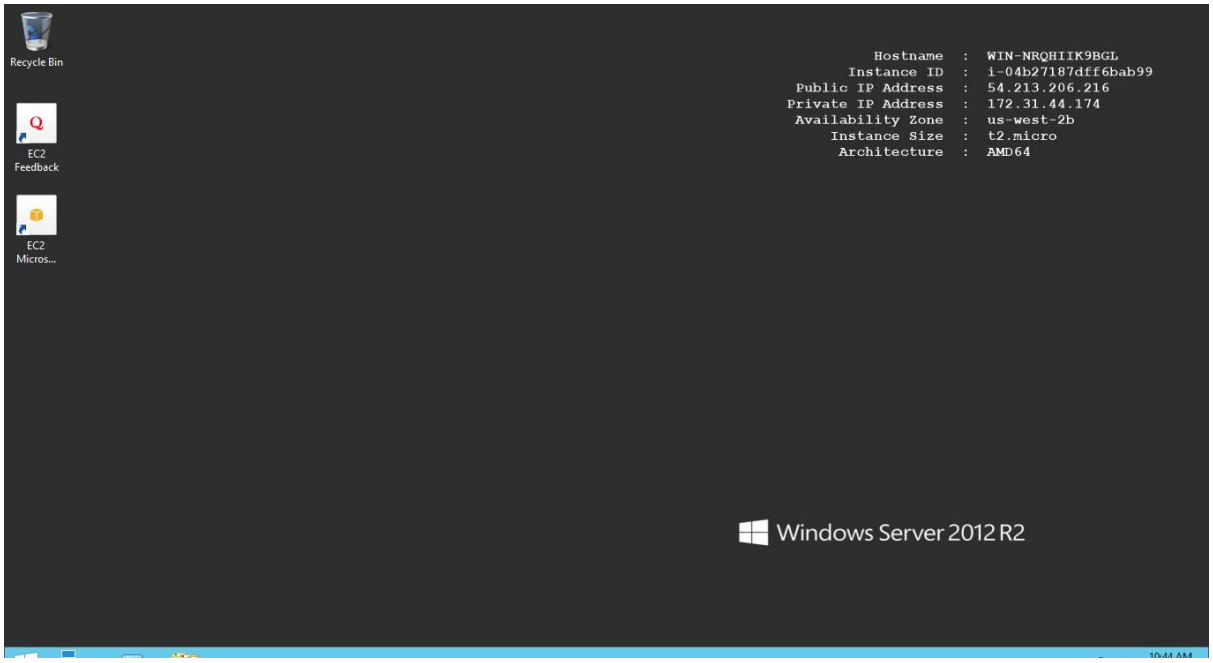
Step 12

Connect to the created instance.



Step 13

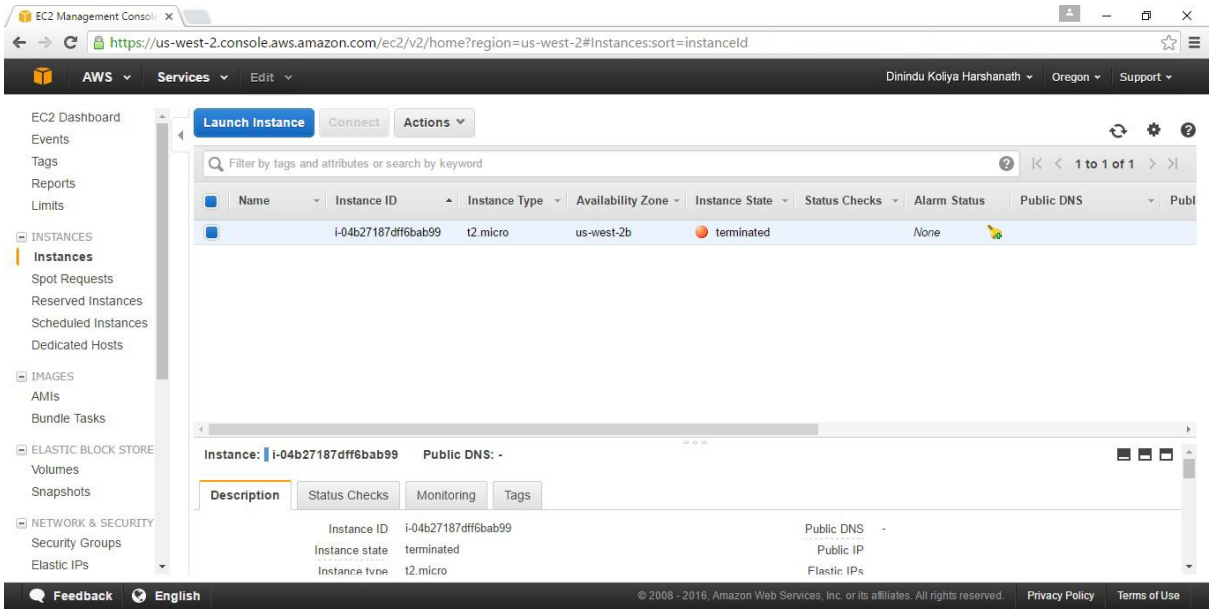
Log in to Windows Server 2012 R2 using the given user name and the decrypted password.



Step 14

Right click on the created server instance and terminate it from the instance state.

(Right click on instance -> Instance State -> Stop)

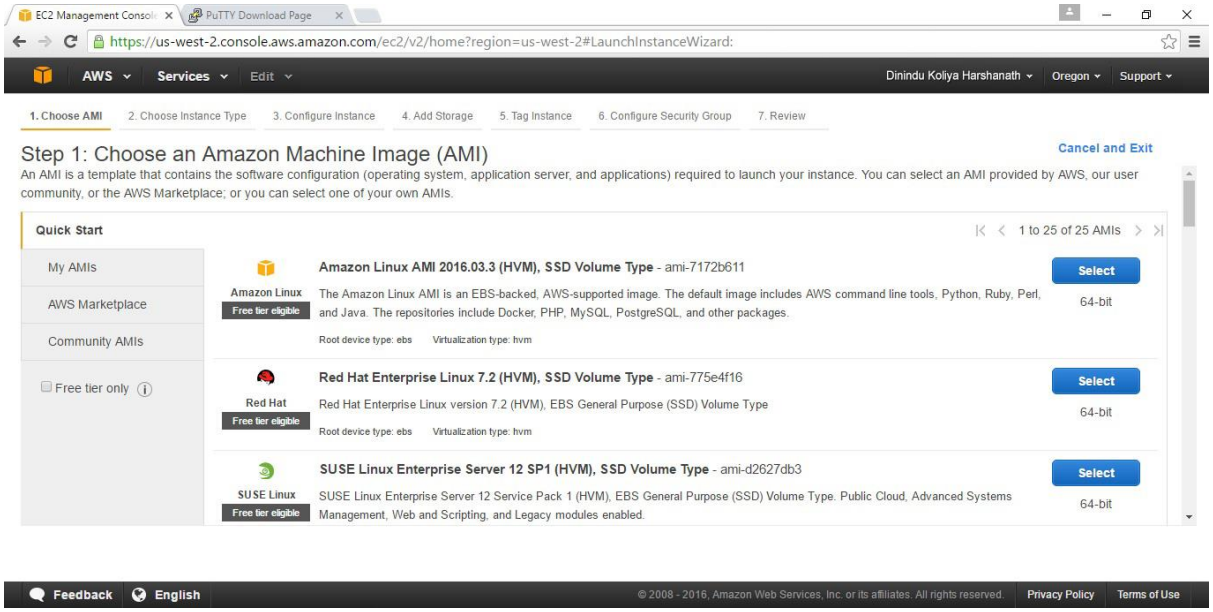


Creating an Amazon EBS-Backed Linux AMI

Step 01

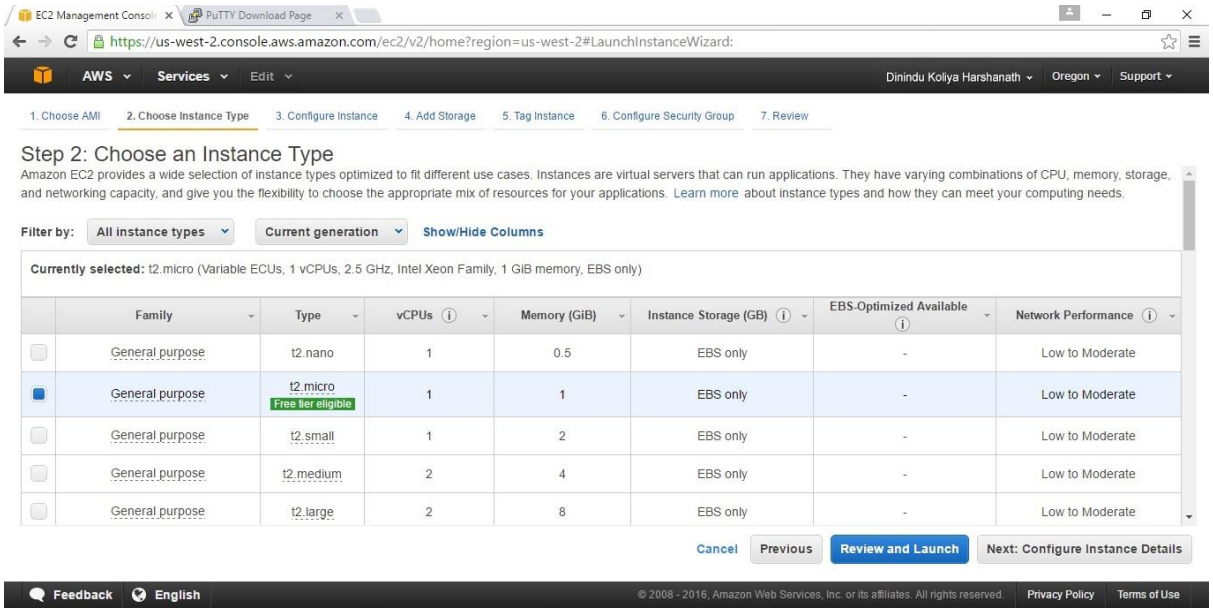
Choose an Amazon Machine Image (AMI).

Select Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type



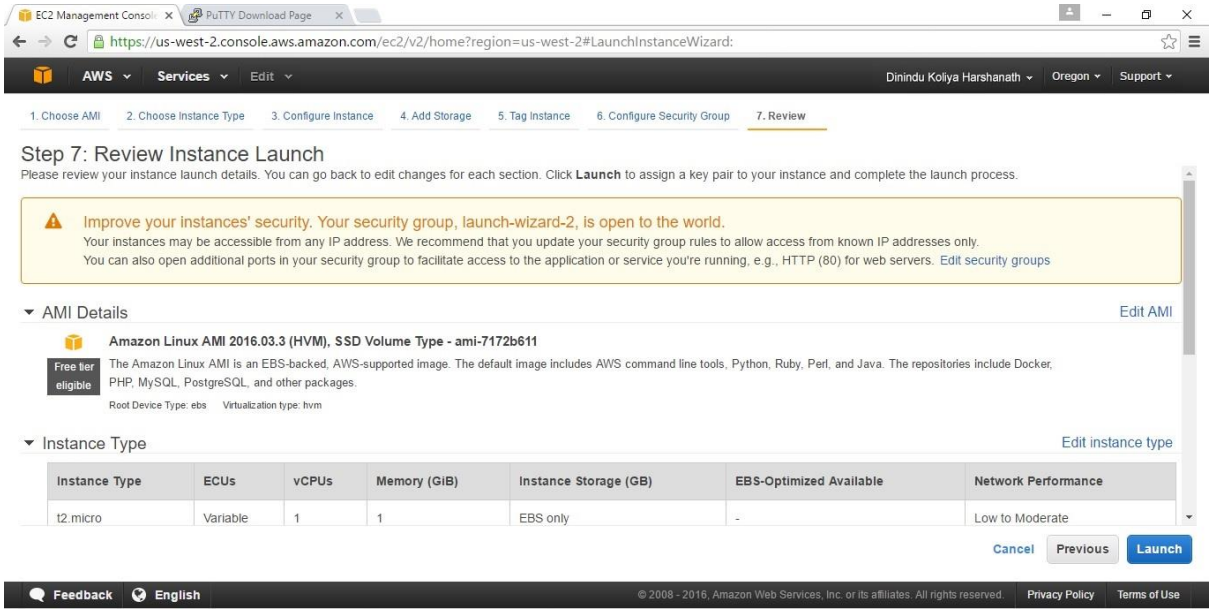
Step 02

Choose an Instance Type. Then review and launch



Step 03

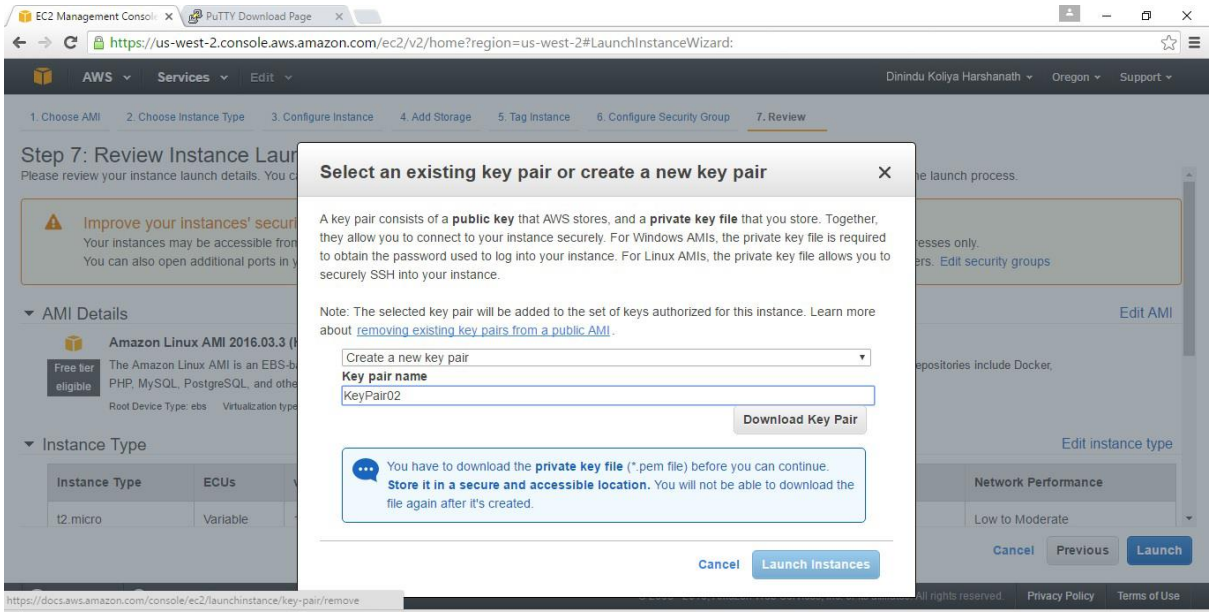
Review Instance Launch.



Step 04

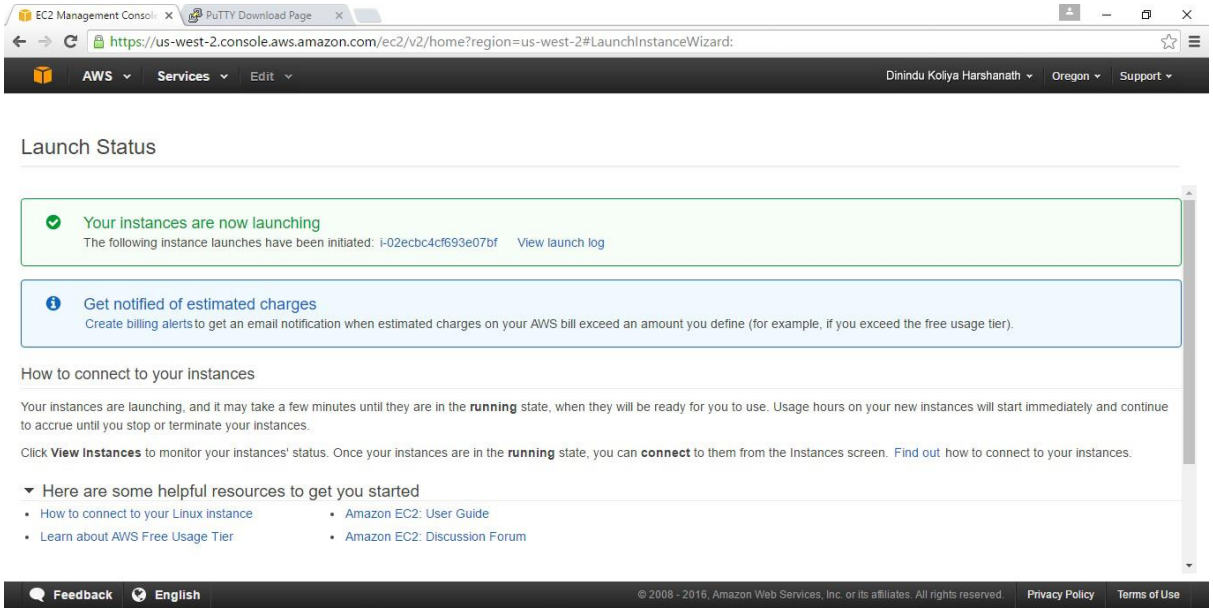
Choose create a new key pair to download a new key pair.

Then give a key pair name. Then select Launch Instance.



Step 05

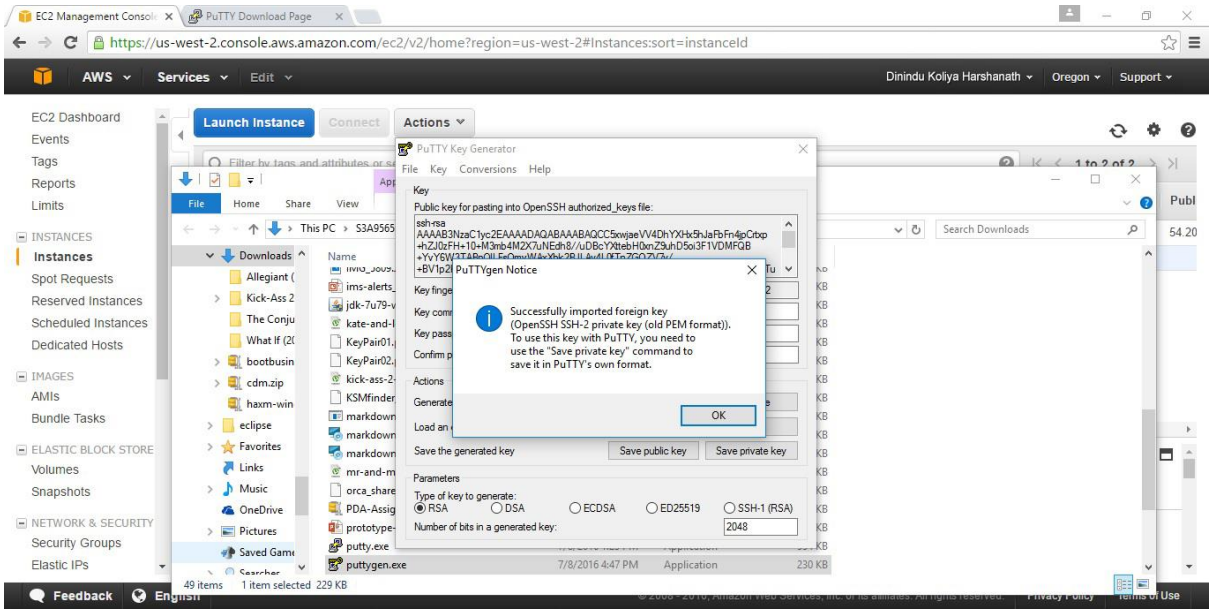
View Instances after launching.



Step 06

Open PUTTY Key Generator.

Then browse and load the downloaded key pair file and save it as a private key.



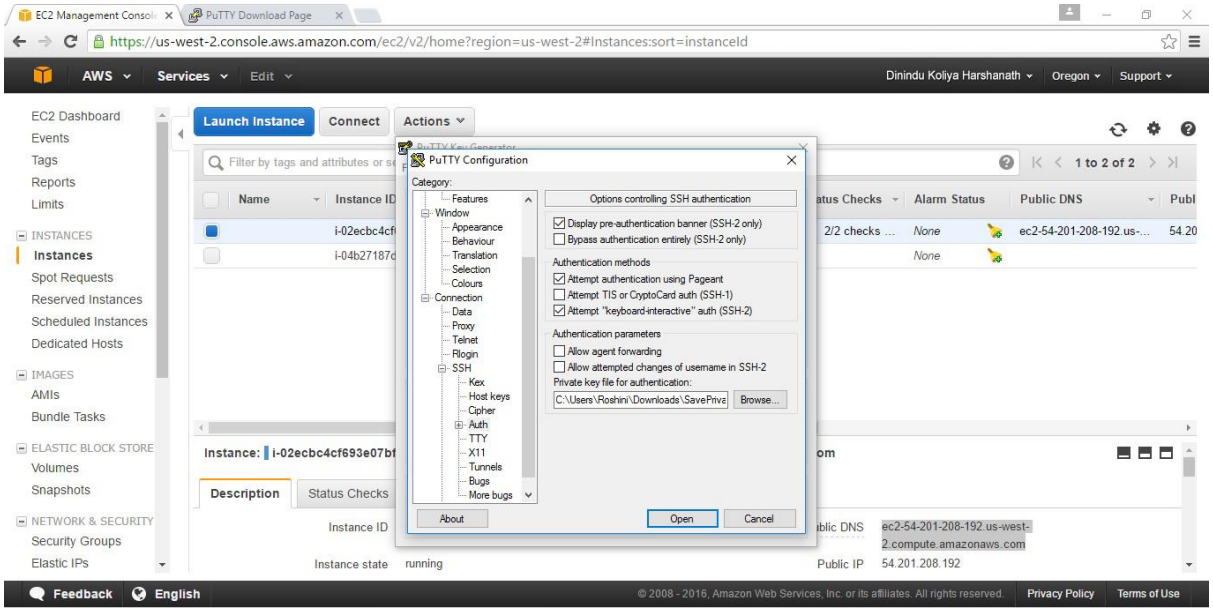
Step 07

Open PUTTY Configuration.

Go to Connection category for SSH authentication.

(Connection -> SSH -> Auth)

Then under authentication parameters browse saved private key and open.

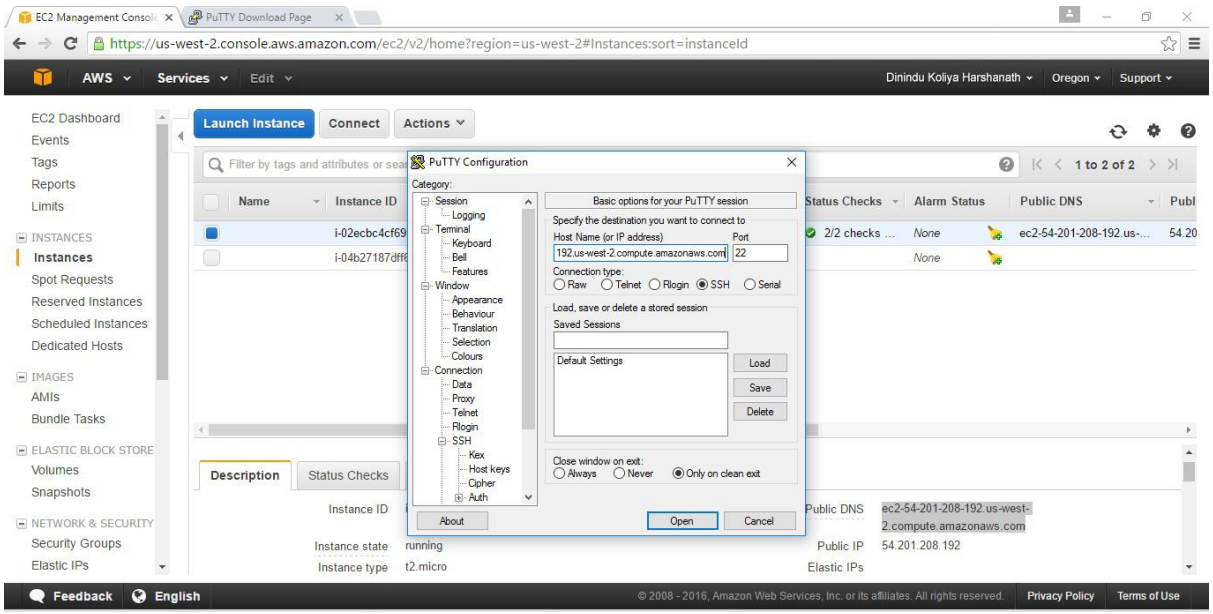


Step 8

Go back to Session category in PUTTY Configuration.

Copy the Public DNS of created instance and paste it under Host Name.

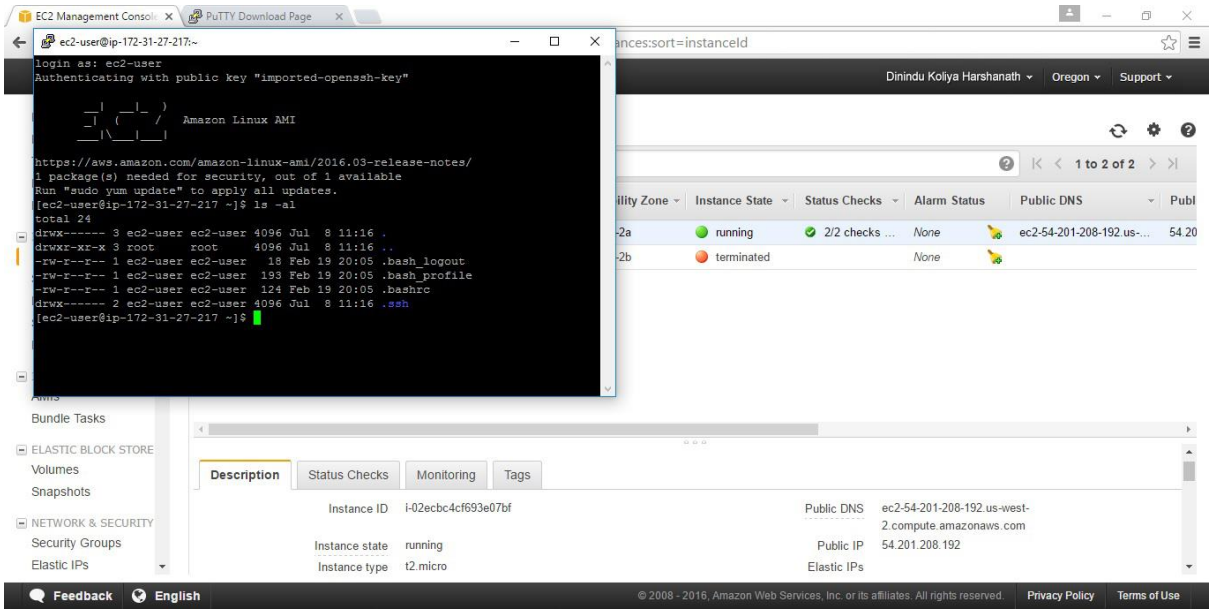
Set Connection type to SSH and open.



Step 9

Log in to Linux by giving user name in the kernel. (ec2-user)

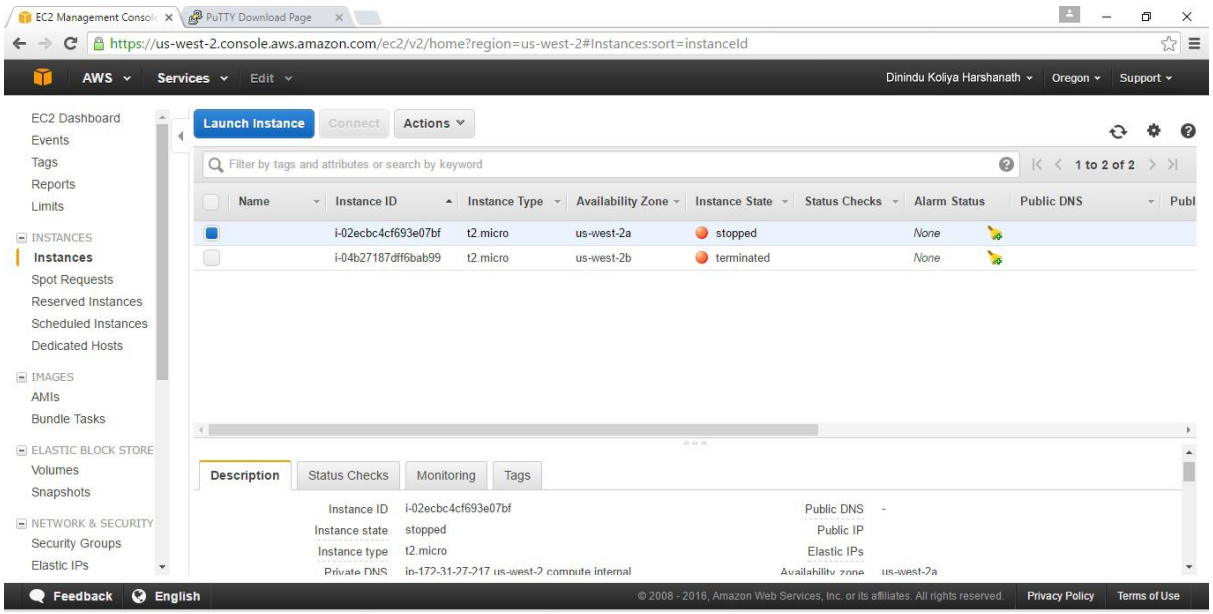
Type some Linux commands to check. (ls -al)



Step 10

Terminate or stop the instance from instance state.

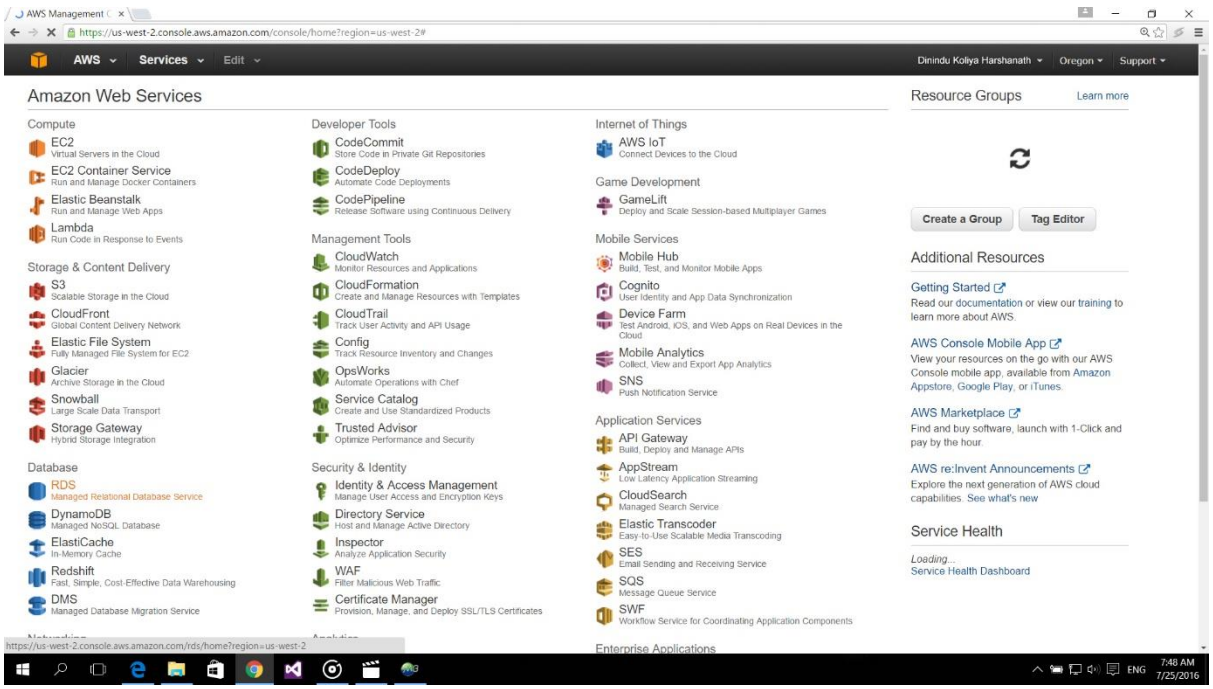
(Right click on instance -> Instance State -> Terminate/ Stop)



Creating an Amazon RDS Database

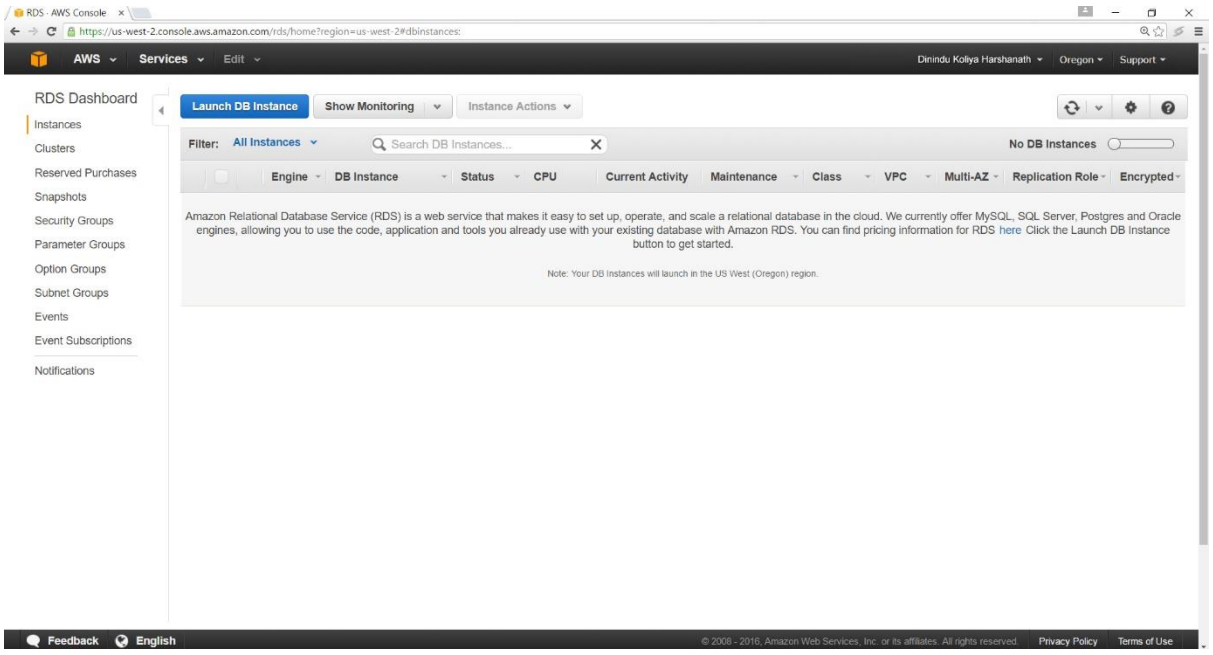
Step 01

Select RDS from Amazon Web Services. (Services -> RDS)



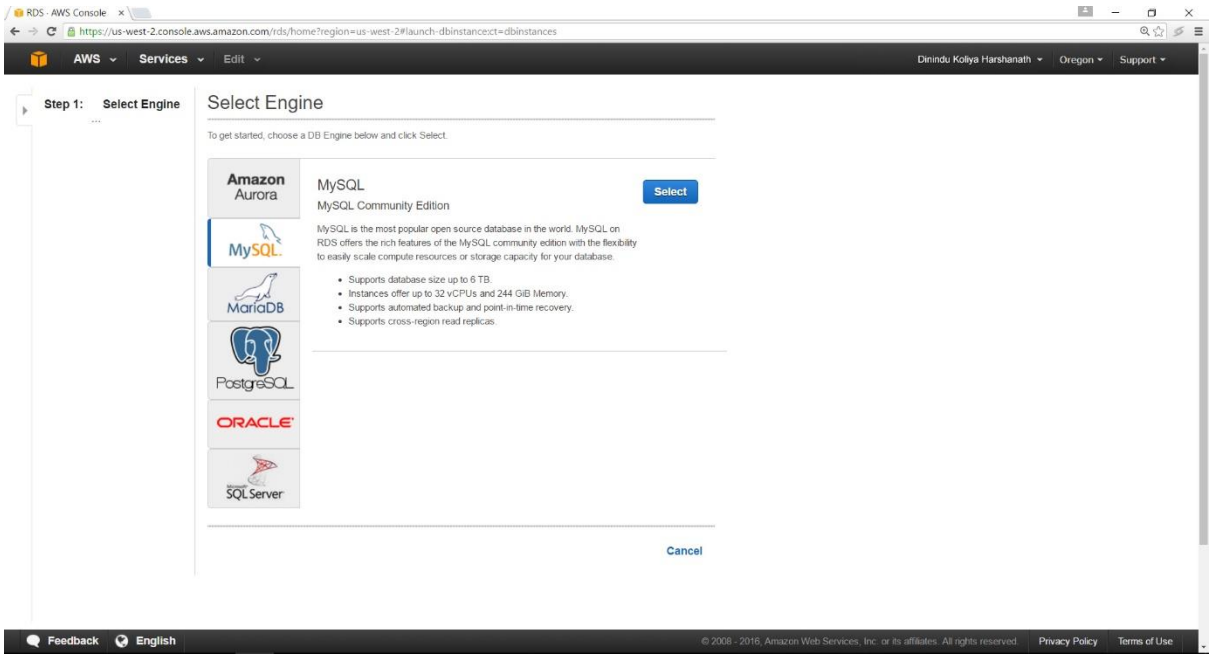
Step 02

Choose Instances from RDS Dashboard. Select Launch DB Instance.



Step 03

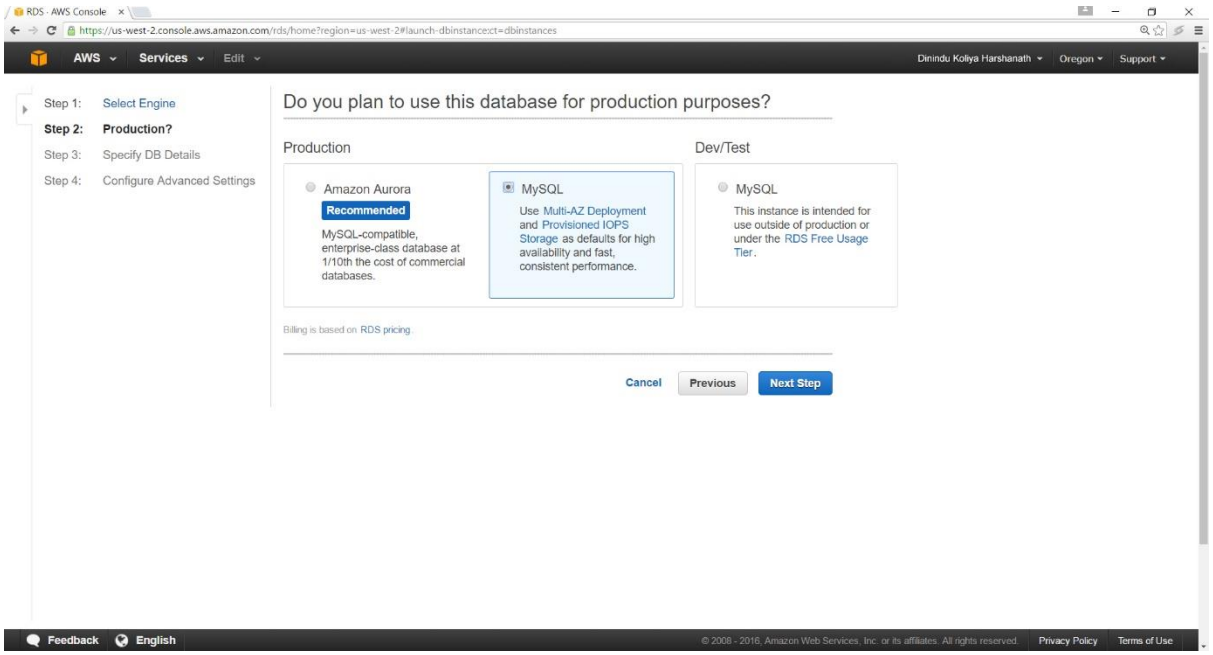
Choose MySQL from ‘Select Engine’ tab.



Step 04

Select MySQL under ‘Production’ category.

Then proceed to next step.

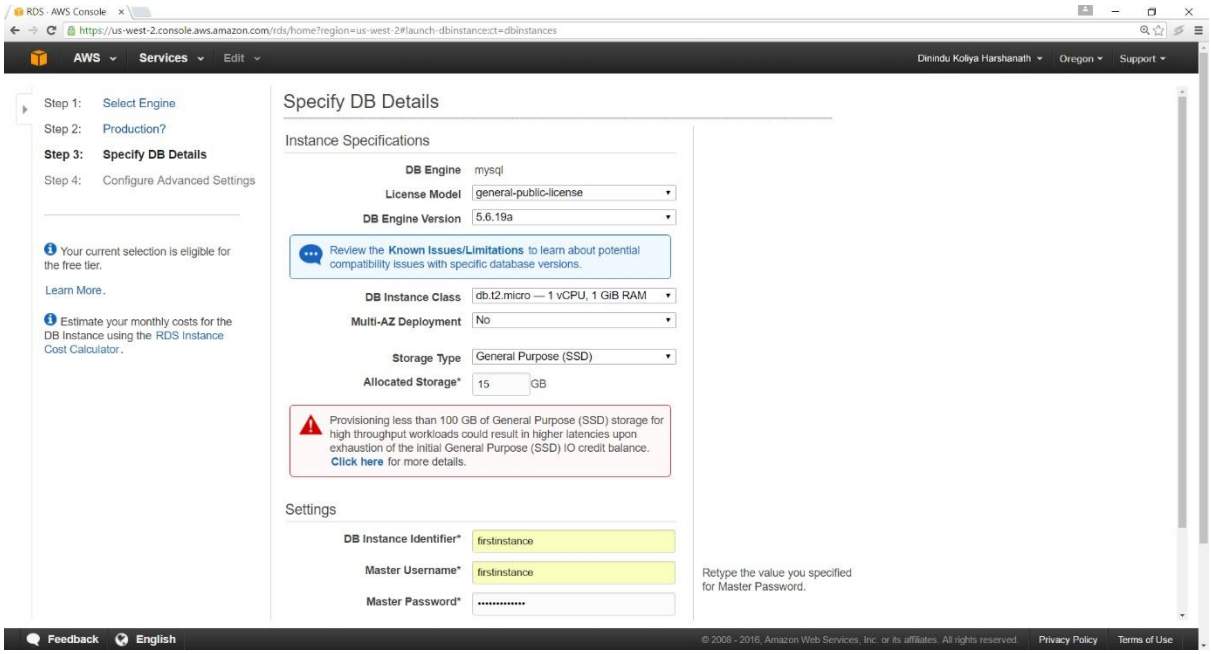


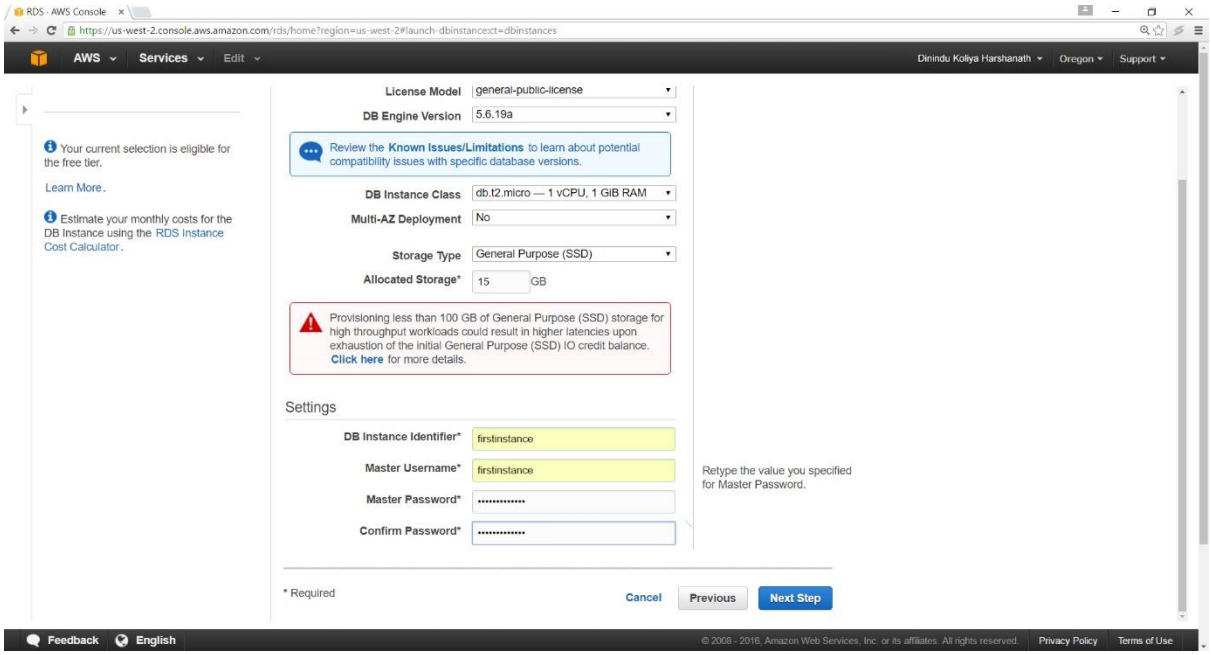
Step 05

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 GB 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.



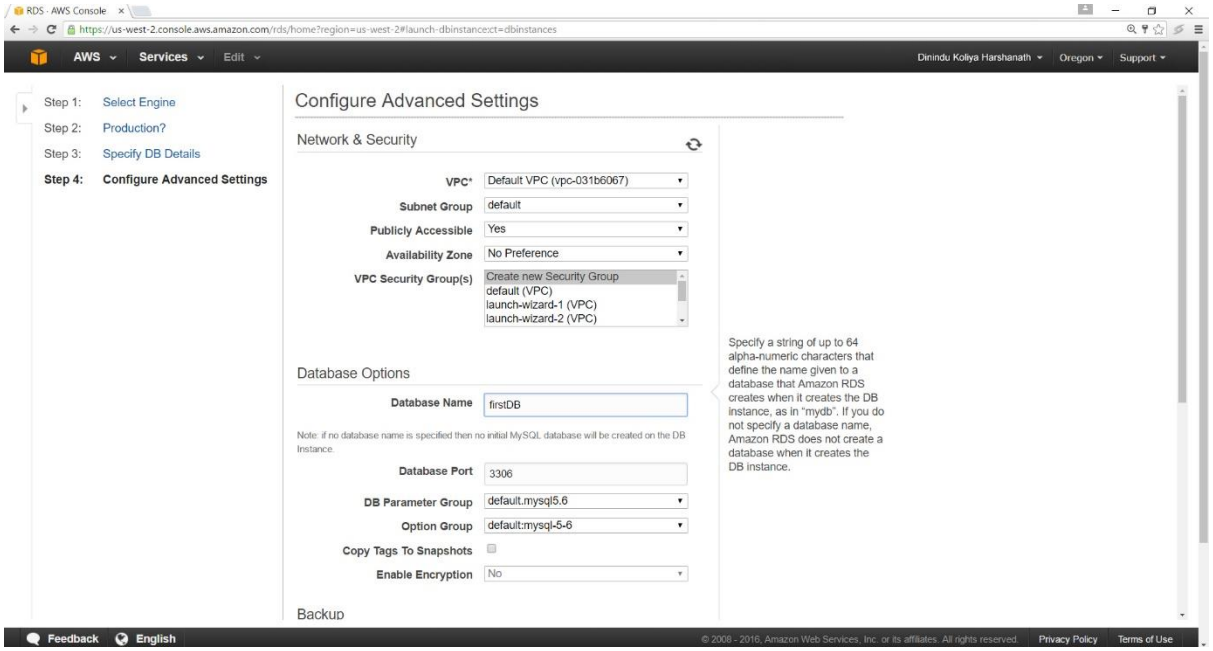


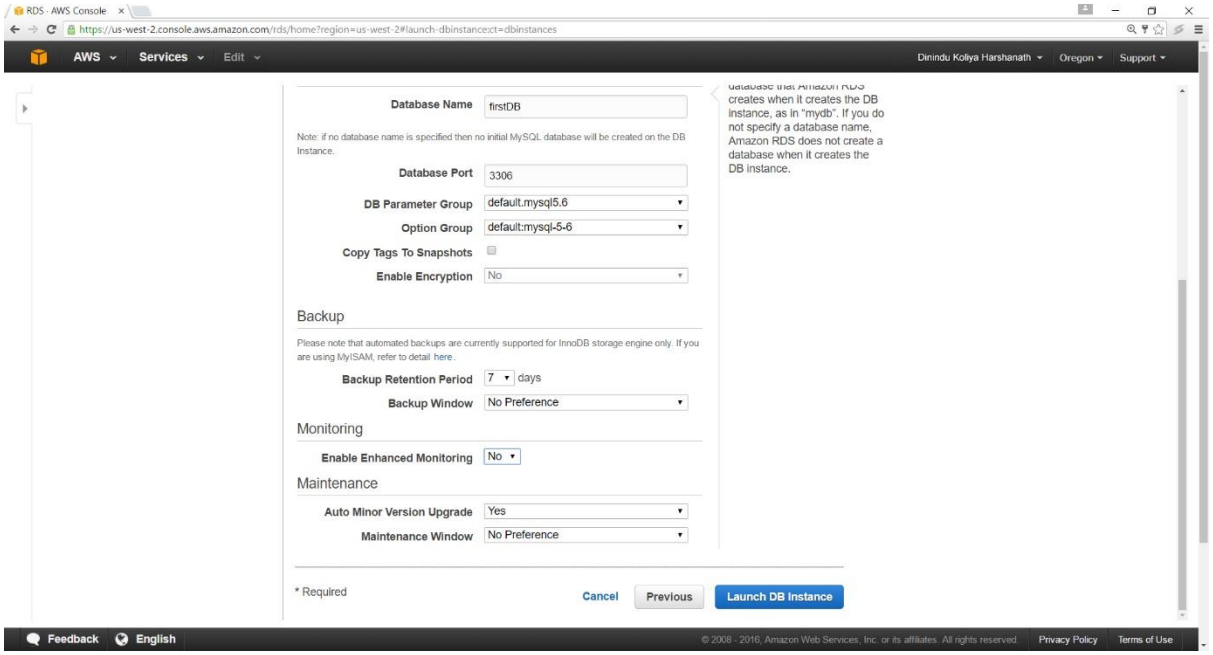
Step 06

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

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

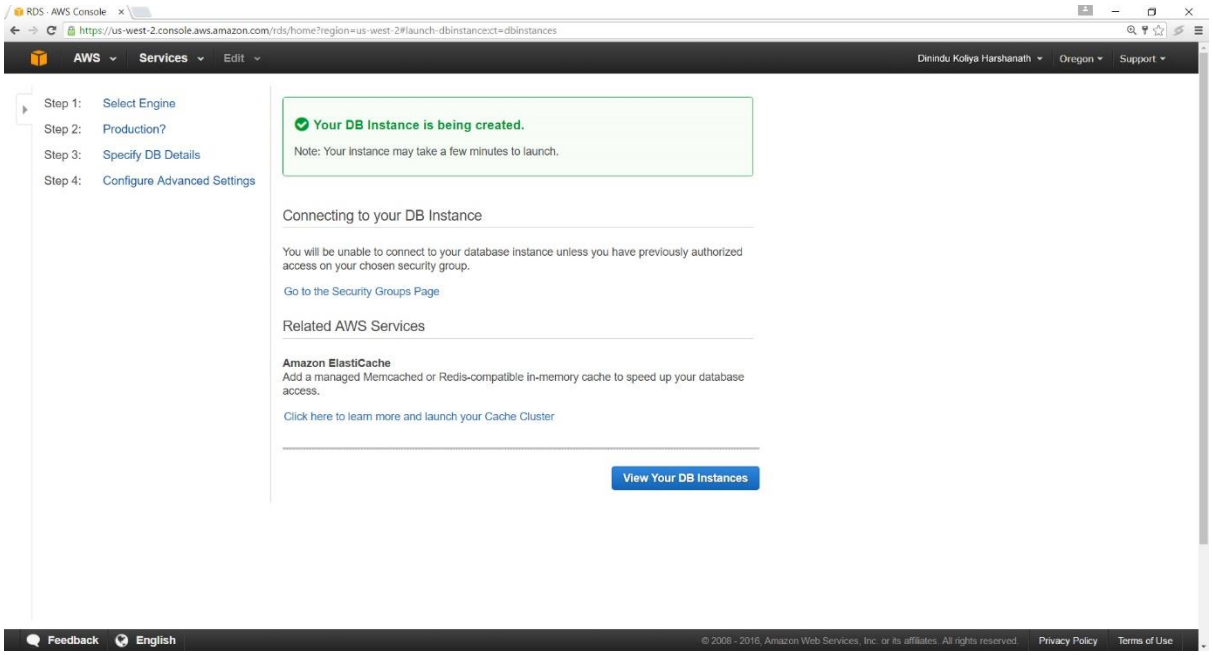
Click ‘Launch DB Instance’.





Step 07

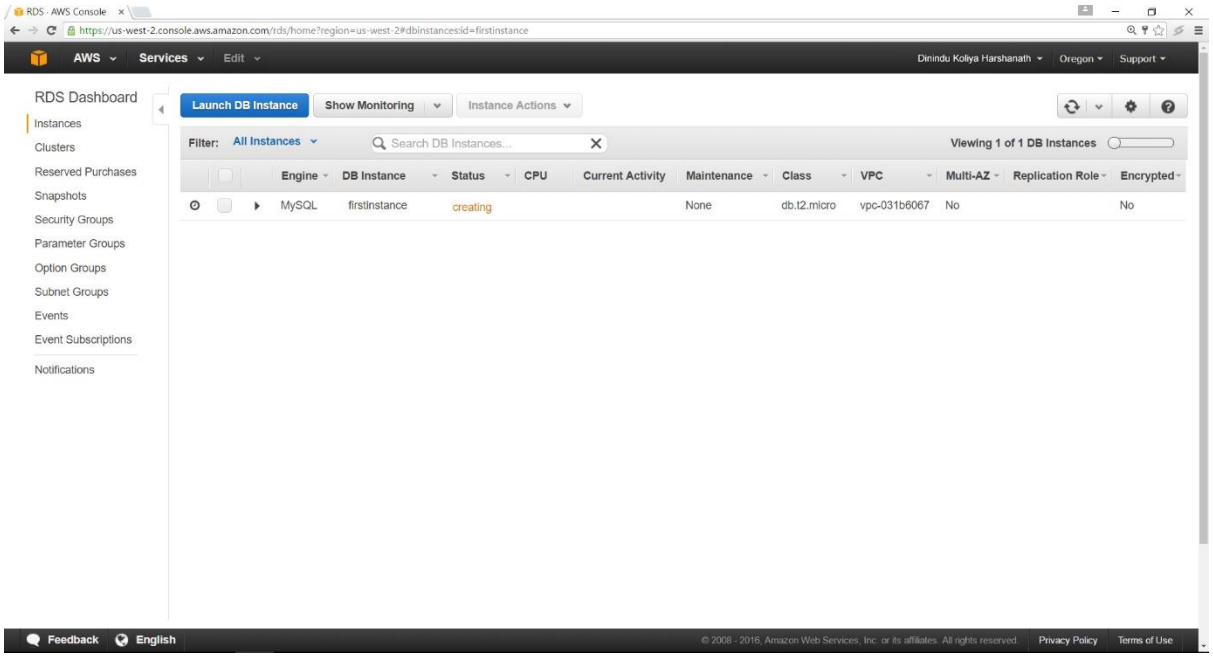
Click ‘View Your DB Instances’ from next window.

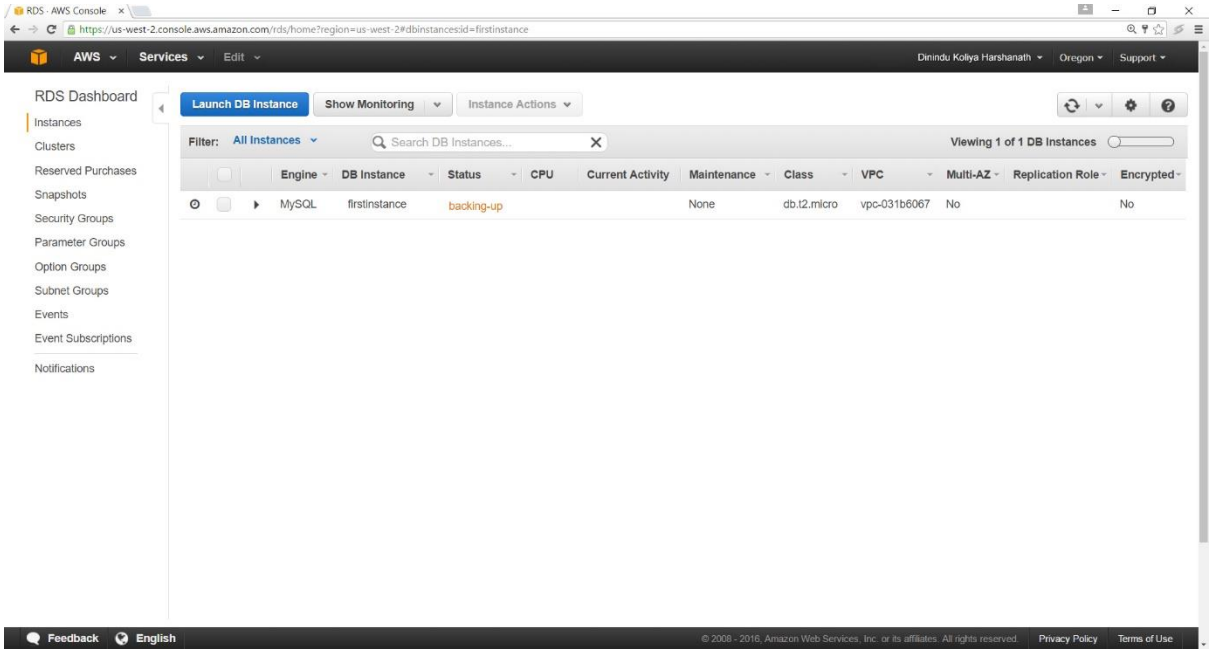


Step 08

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

(Creating -> backing-up -> available)




RDS - AWS Console
https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=firstinstance
AWS
Services
Edit
Dinindu Kolliya Harshanath
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
Encrypted
MySQL
firstinstance
backing-up
None
db.t2.micro
vpc-031b6067
No
No
Feedback
English
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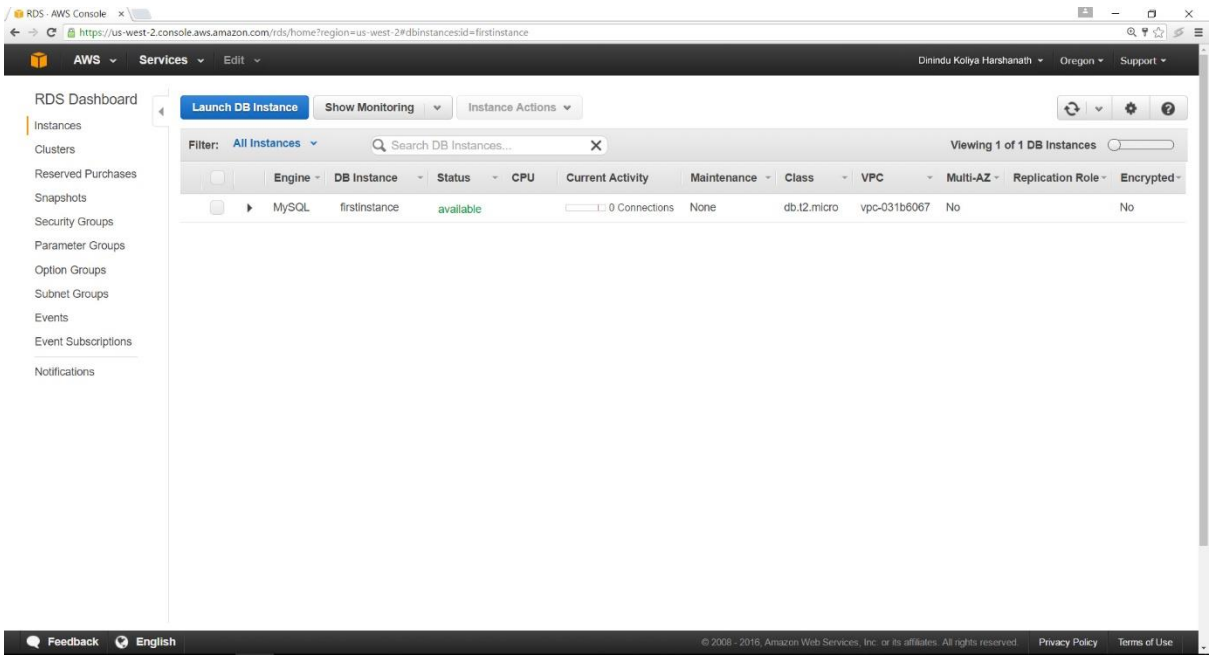
RDS - AWS Console
https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=firstinstance
AWS
Services
Edit
Dinindu Kolliya Harshanath
Oregon
Support
RDS Dashboard
Instances
Clusters
Reserved Purchases
Snapshots
Security Groups
Parameter Groups
Option Groups
Subnet Groups
Events
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
Encrypted
MySQL
firstinstance
available
0 Connections
None
db.t2.micro
vpc-031b6067
No
No
Feedback
English
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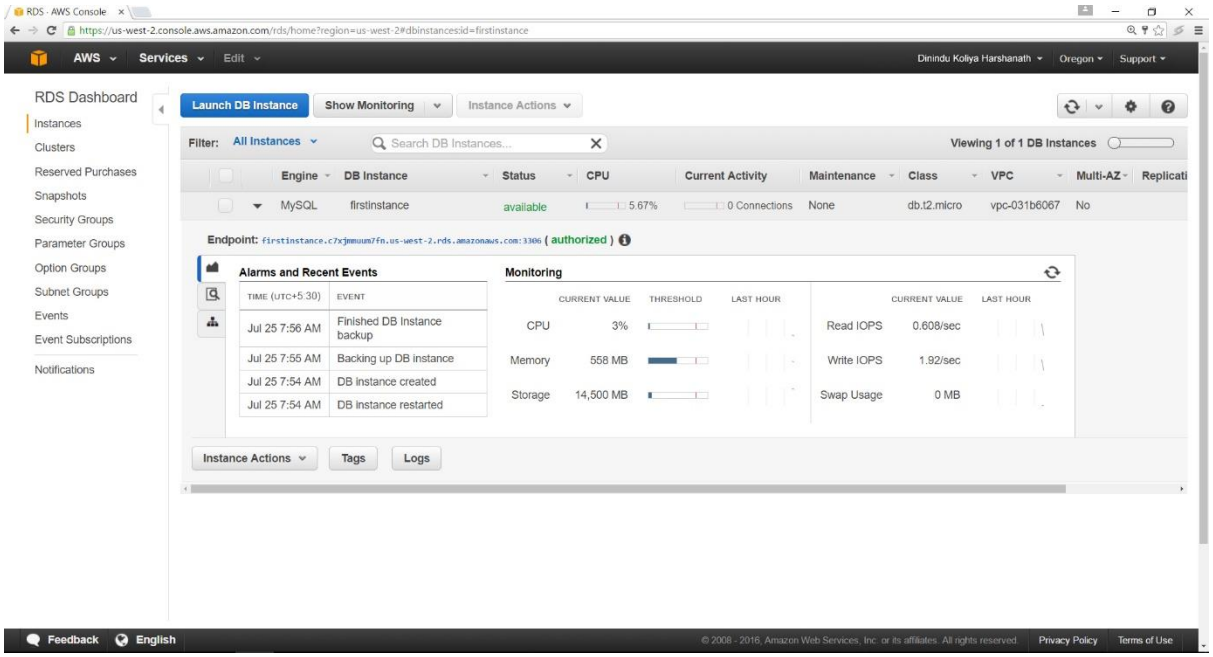
Step 09

Expand the instance to view Endpoint.

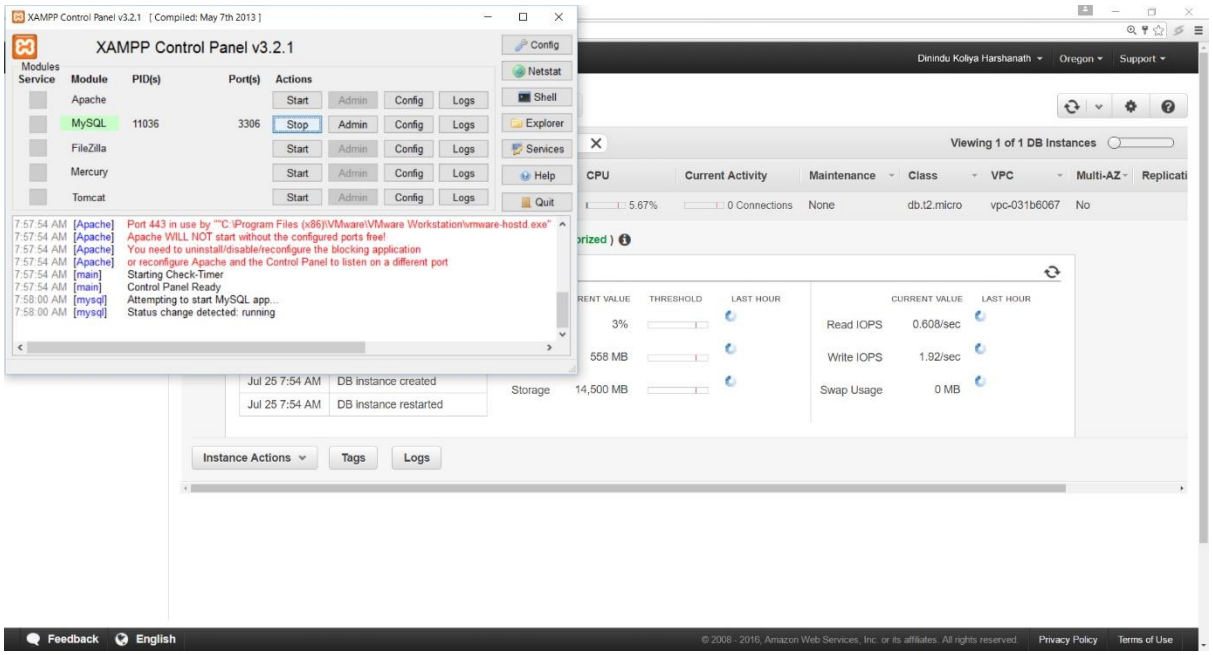
Copy the Endpoint without the port number.



Step 10

Open XAMPP Control Panel.

Start MySQL.

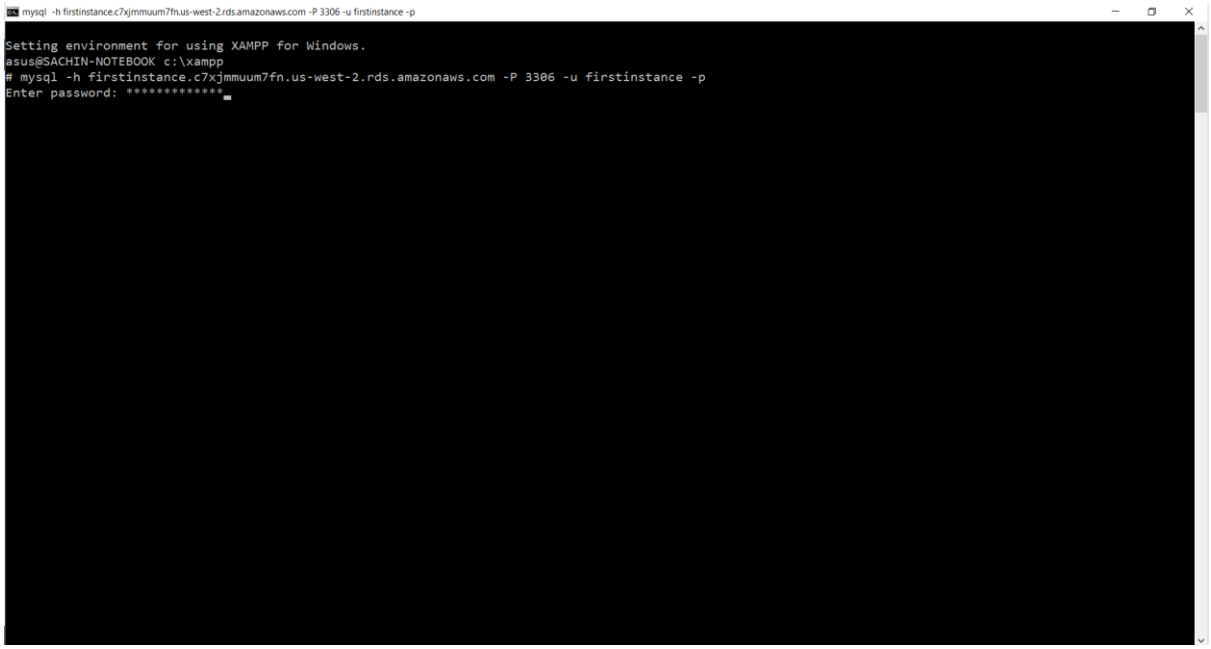


Step 11

Go to the Shell in XAMPP Control Panel.

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

Enter master password.



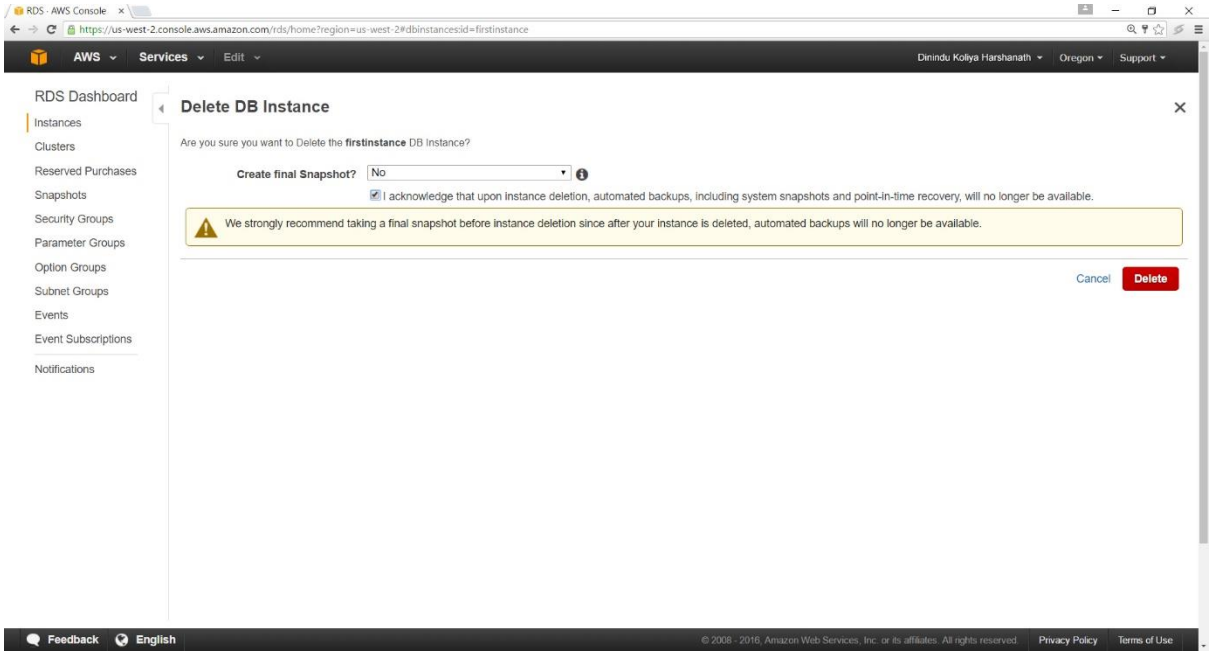
Step 12

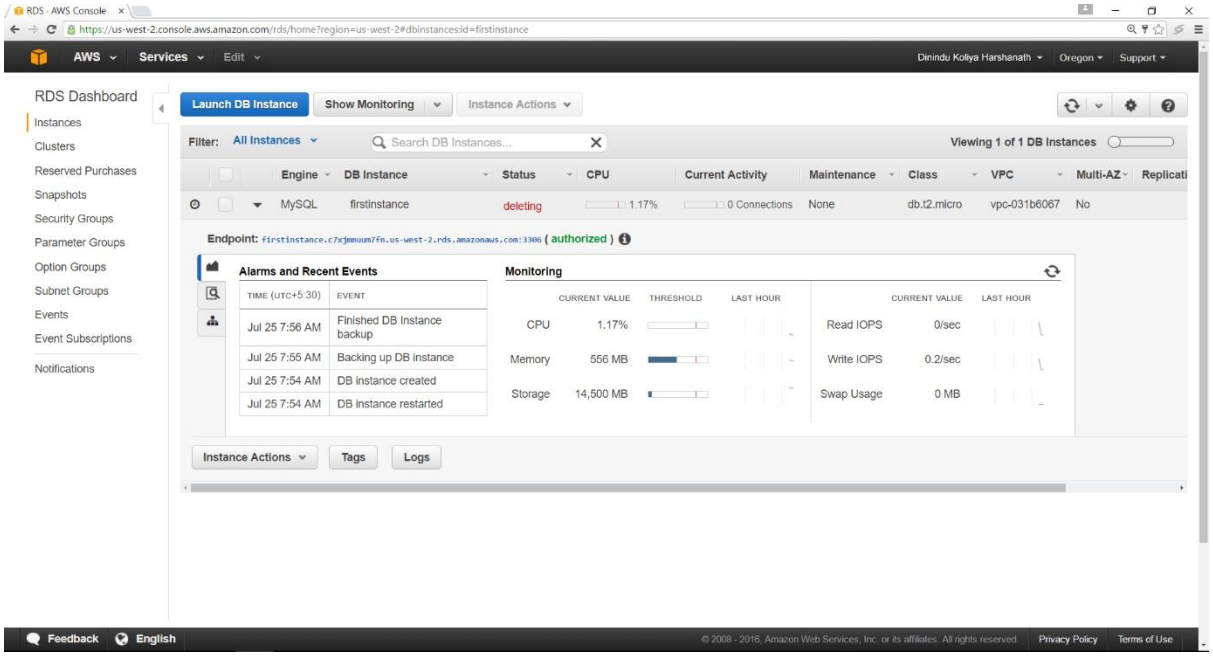
Delete the created DB instance.

(Instance Actions -> Delete)

Choose ‘No’ in Create Final Snapshot.

Confirm delete by clicking ‘Delete’.

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https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=firstinstance
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Filter: All Instances
Search DB Instances...
Viewing 1 of 1 DB Instances
Engine
DB Instance
Status
CPU
Current Activity
Maintenance
Class
VPC
Multi-AZ
Replicati
MySQL
firstinstance
deleting
1.17%
0 Connections
None
db.t2.micro
vpc-031b6067
No
Endpoint: firstinstance.c7xjmmuum7fn.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
Feedback
English
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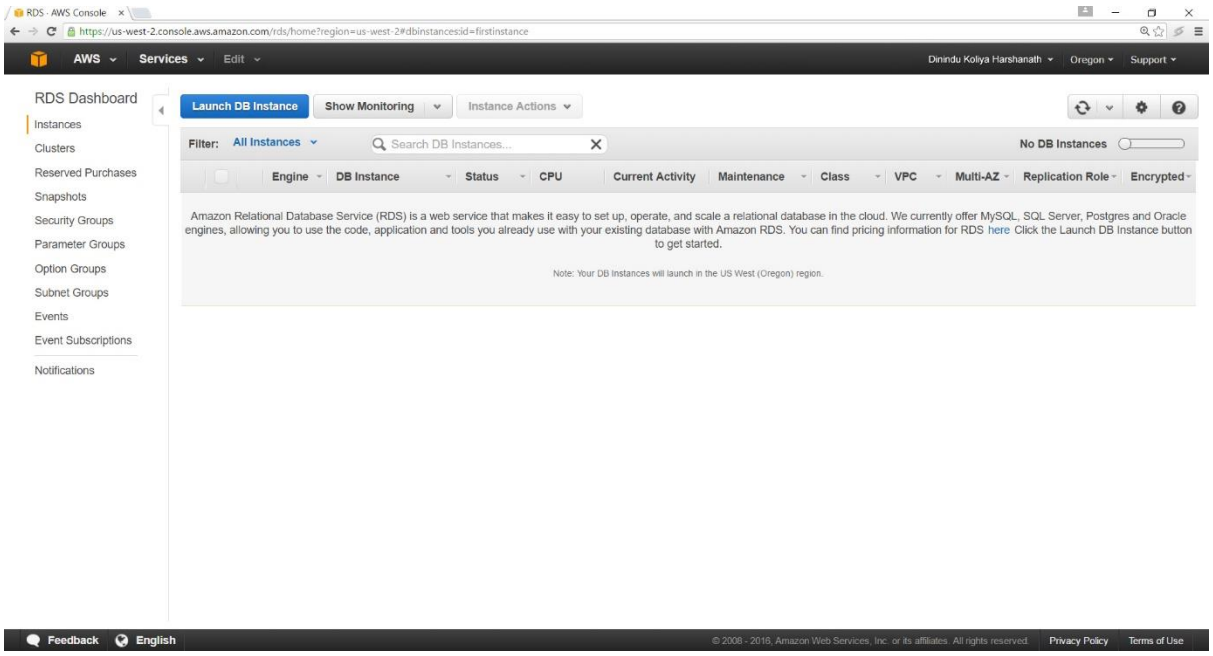
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https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=firstinstance
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Services
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Launch DB Instance
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Instance 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
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