Enterprise Standards and Best Practices for It Infrastructure

Assignment 1

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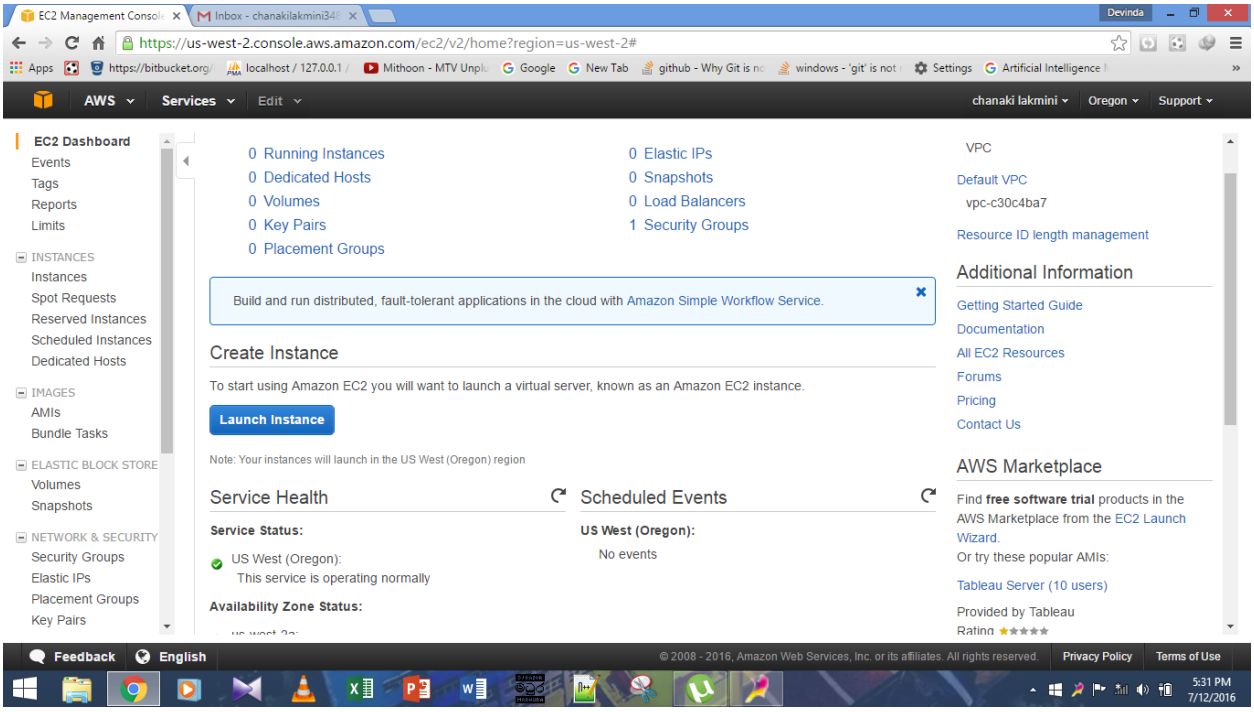
Reg No : IT13006044

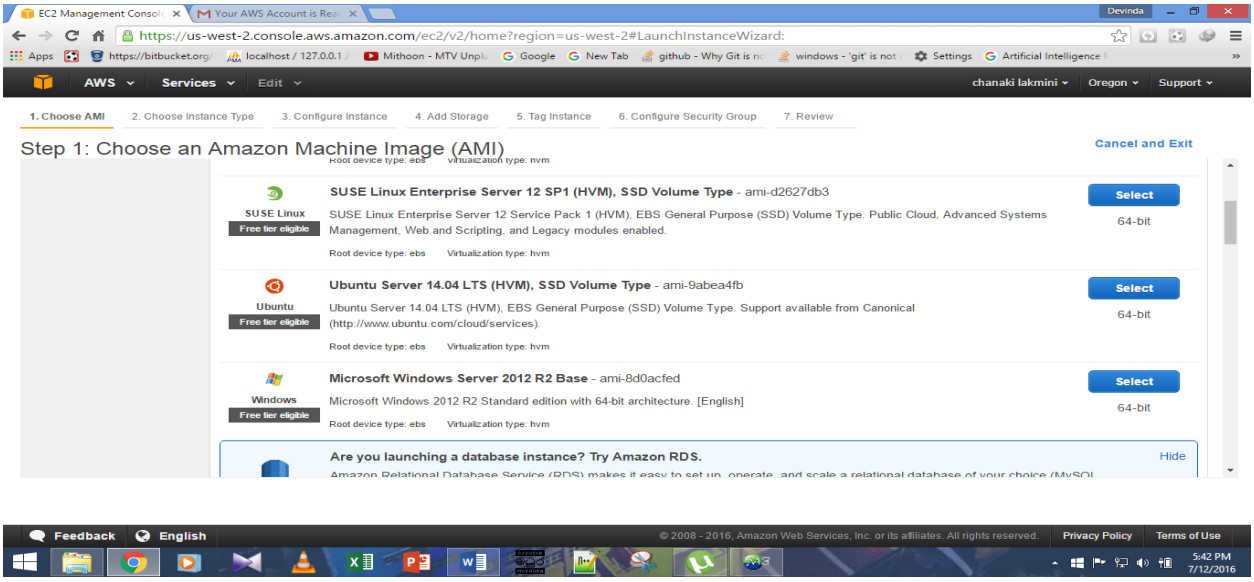
Part A

Creating an Amazon EBS-Baked windows AMI

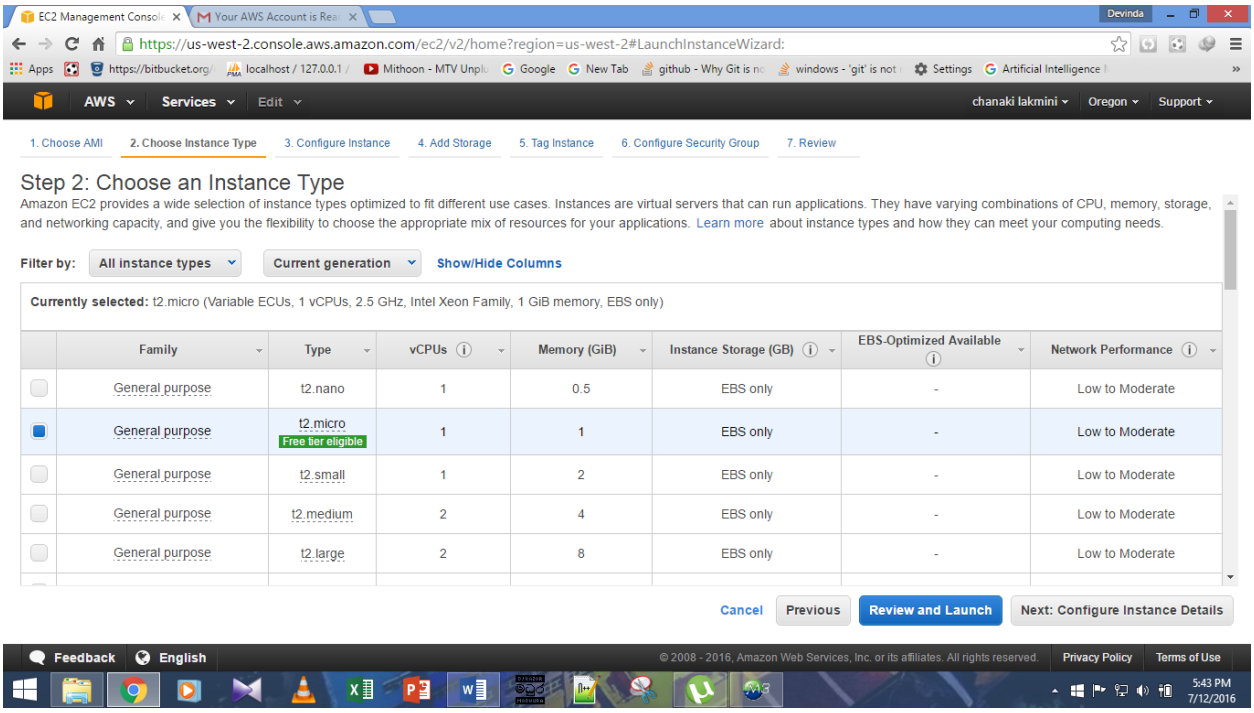
1. To create the instance first go to AWS management console and select EC2 dashboard. Then click the launch instance button.



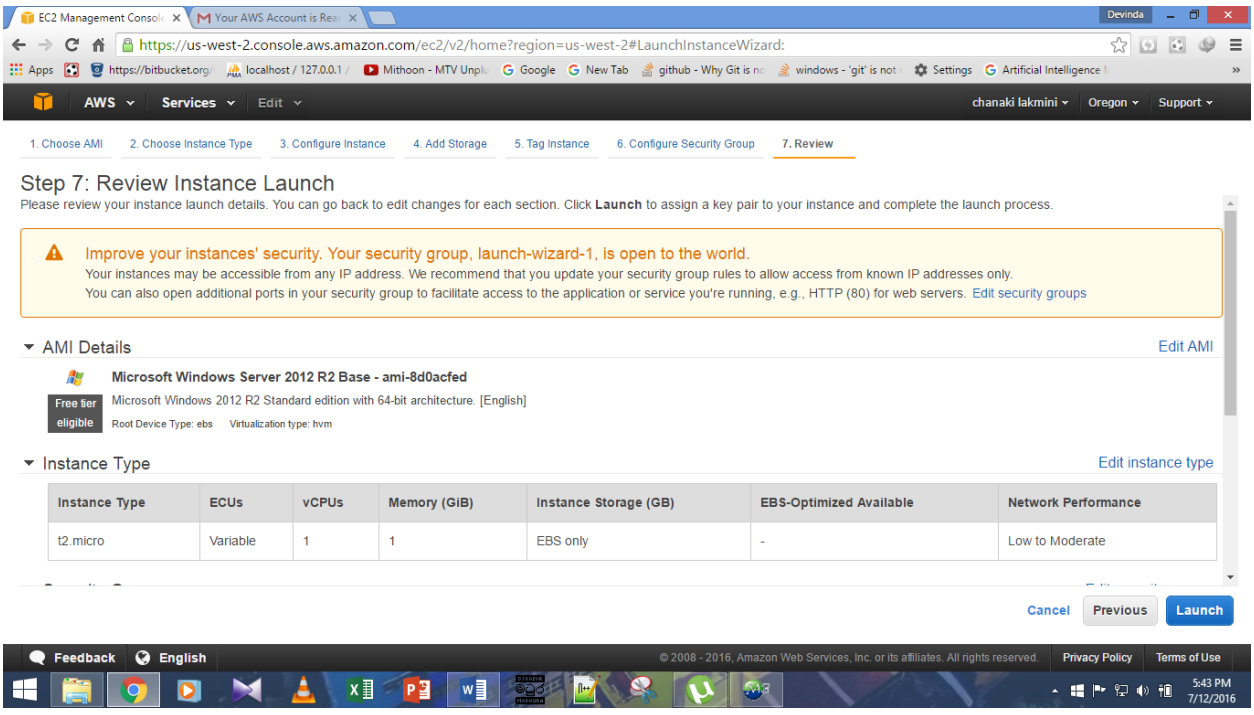
2. Choose an AMI that you want to create the instance. Here we select Microsoft windows server 2012 R2 Base.



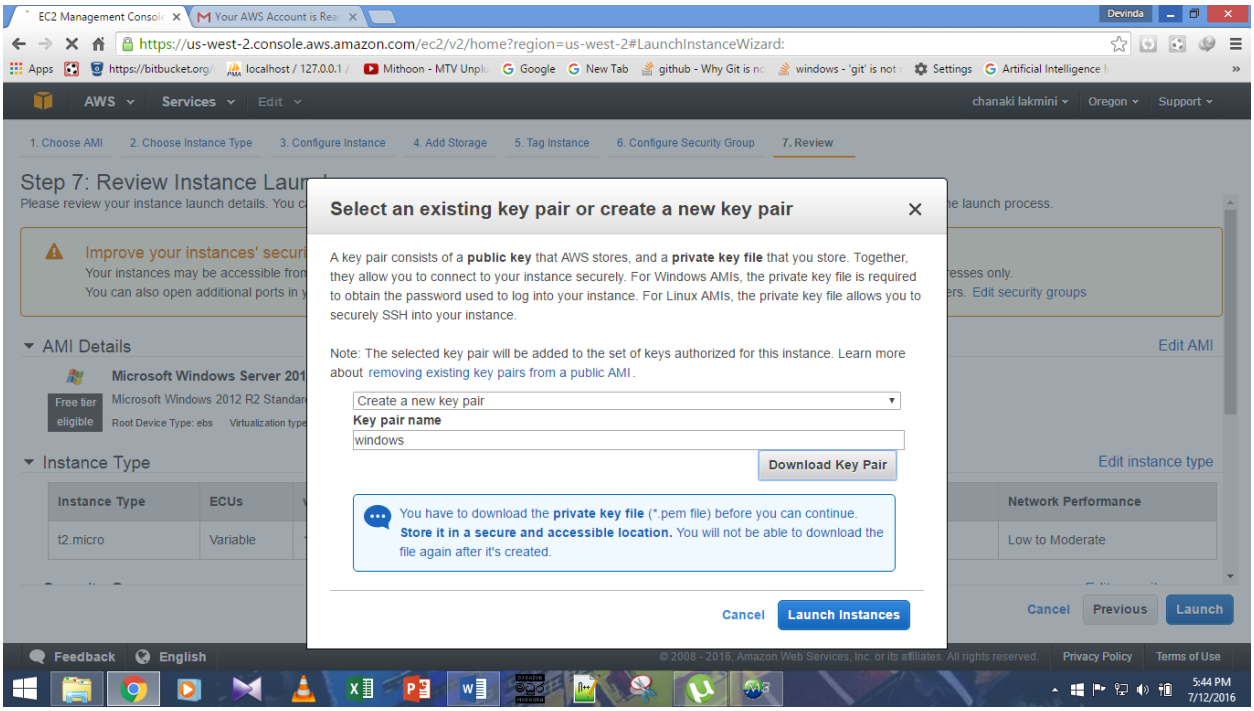
3. Choose an instance type. Then click Review and launch button to proceed.



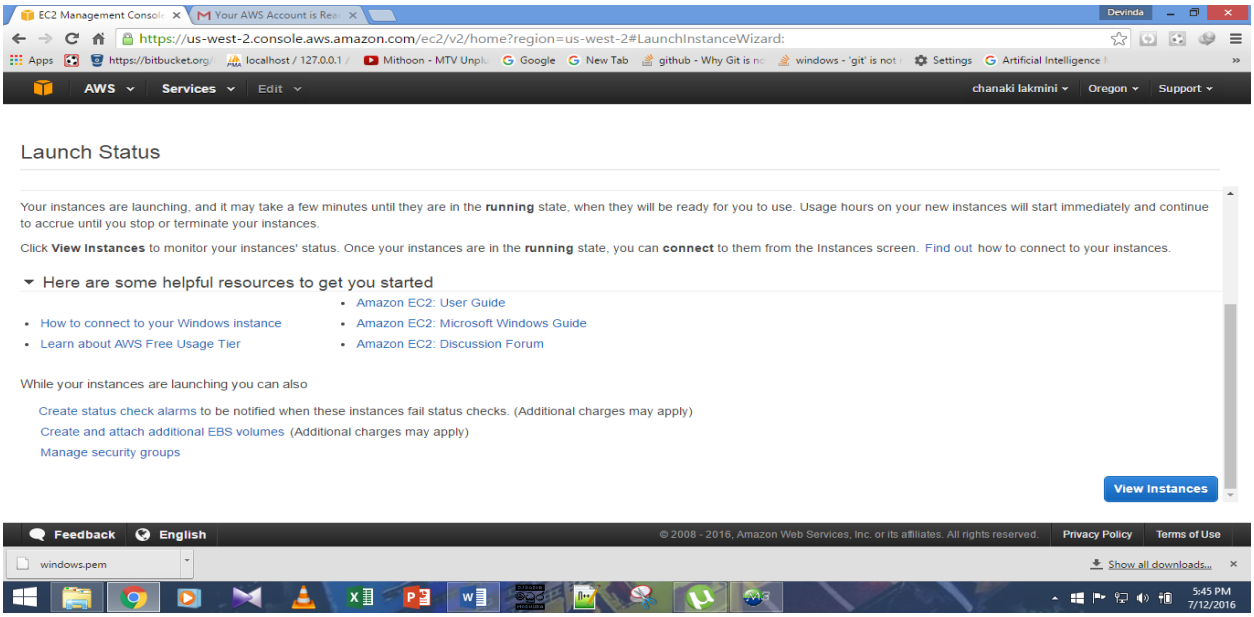
4. Then click Launch button.



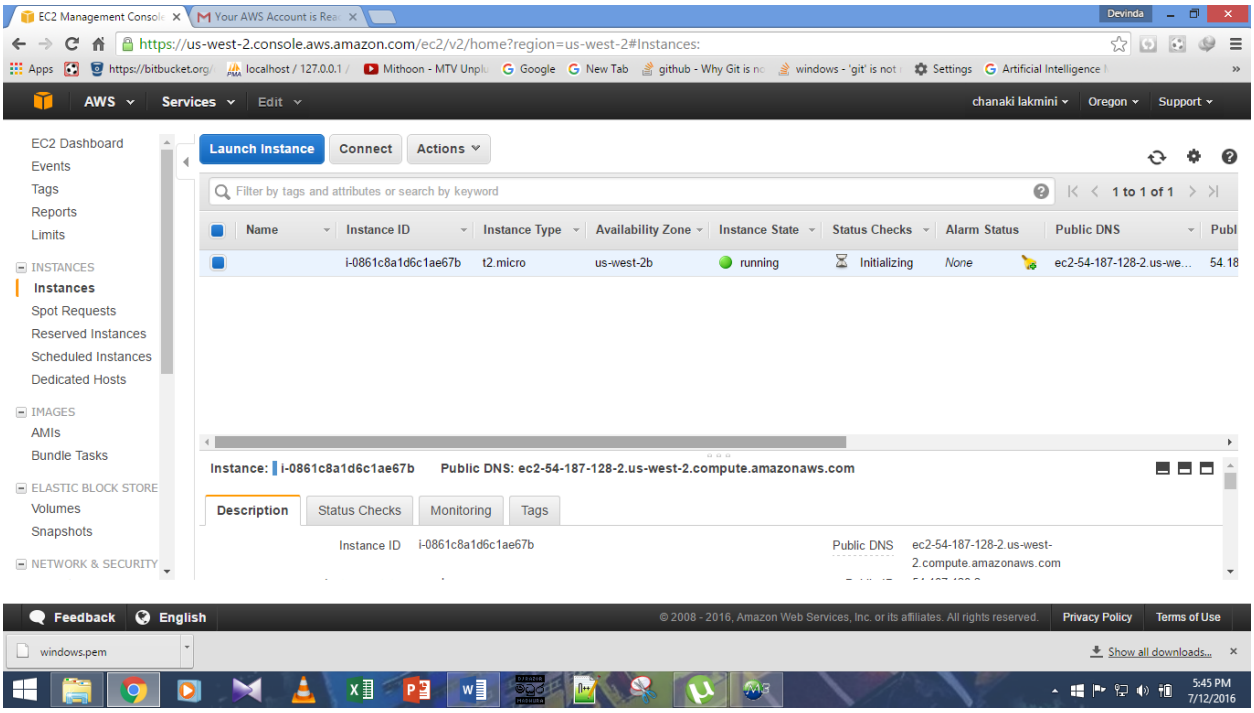
5. The user will be prompted a window, in order to get a key to establish the connection. A new user got to choose a new key and then type description in the relevant field and download the file. The file will be in .pem format.



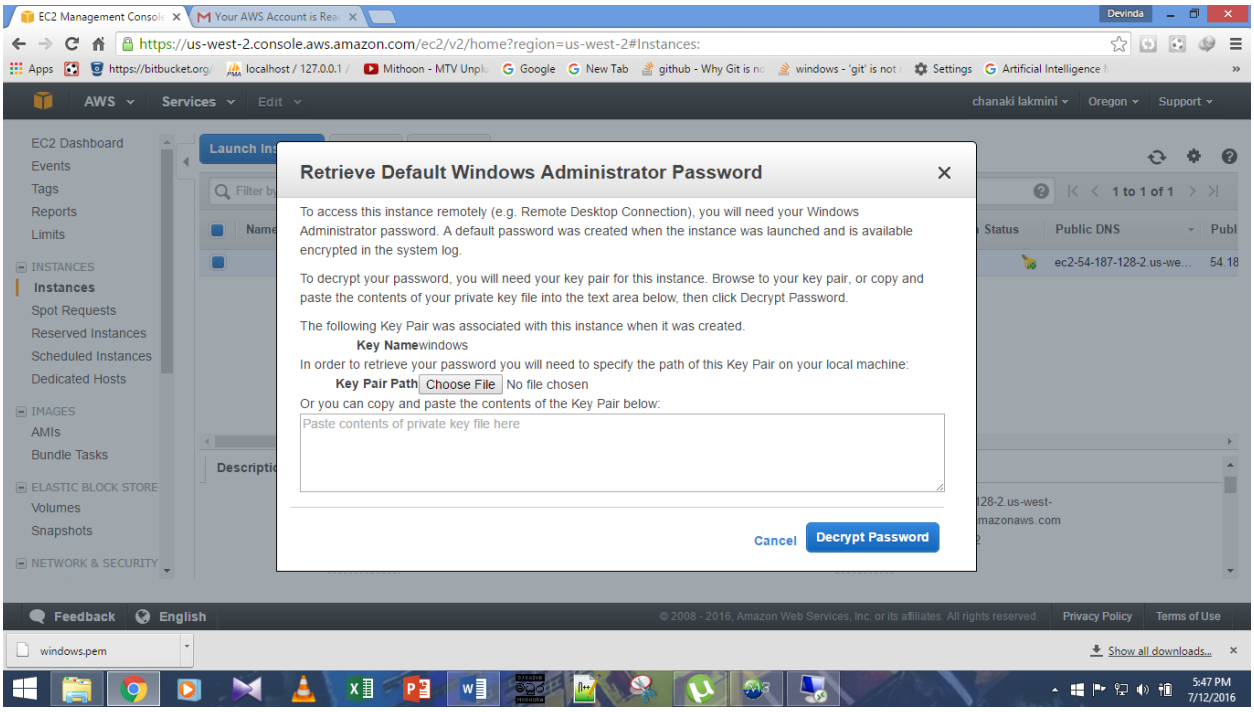
6. This window shows the instance status. And in this window you have to scroll down and click View Instance button.



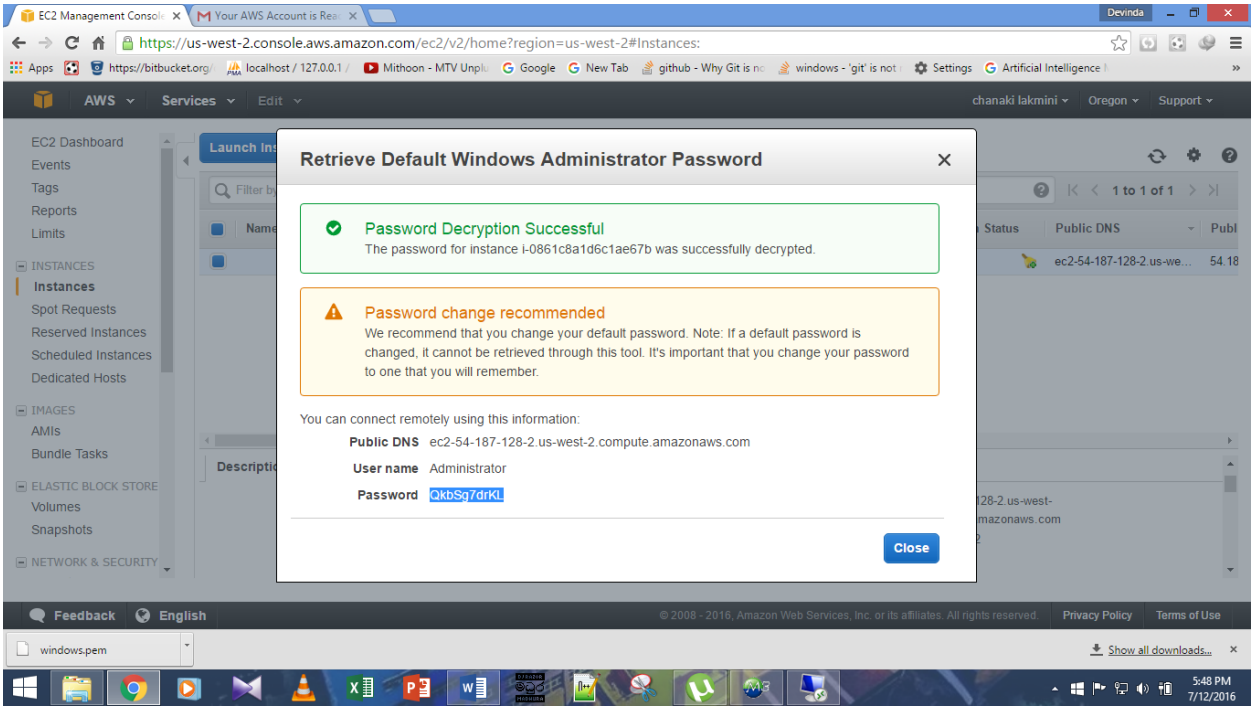
7. And then the window below will get prompted. It will display the details of created instance.



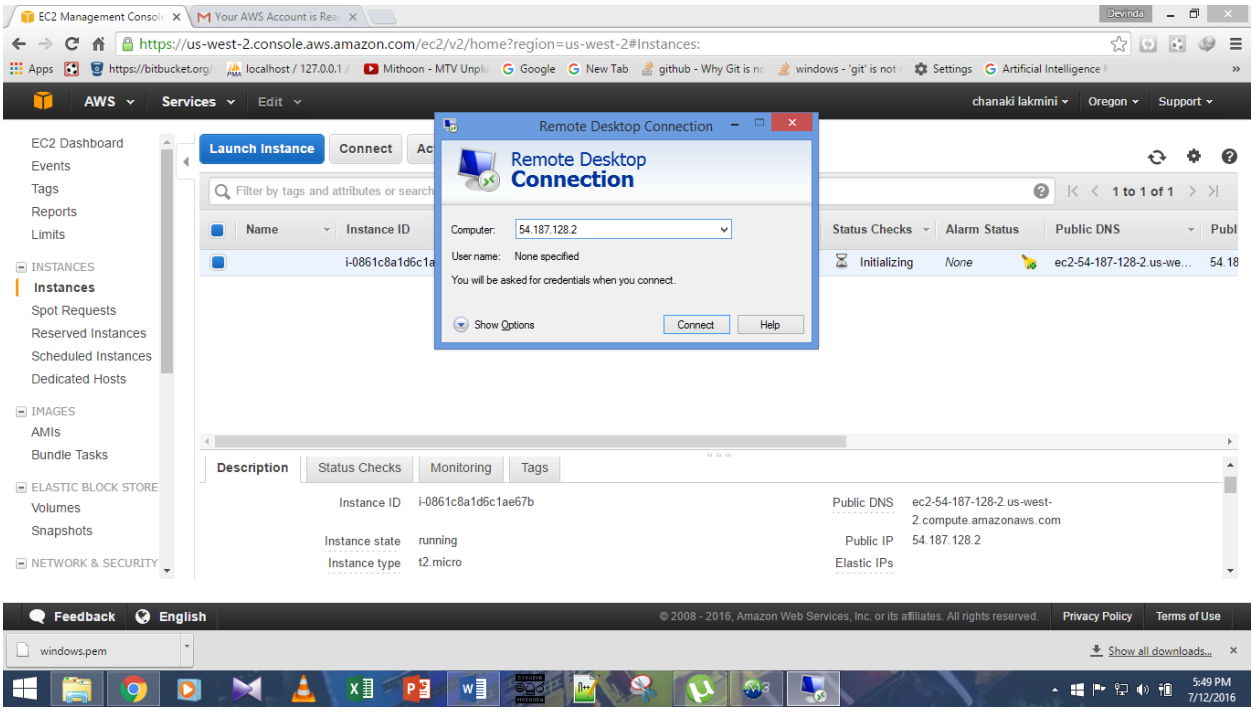
8. And here you have to select the instance. And in its description you have to note down the given Public IP. And then you have to retrieve the password for the instance. To do it, right click on the created instance and select the “Get Password for Windows”. Once selected it’ll prompt a window as shown below.



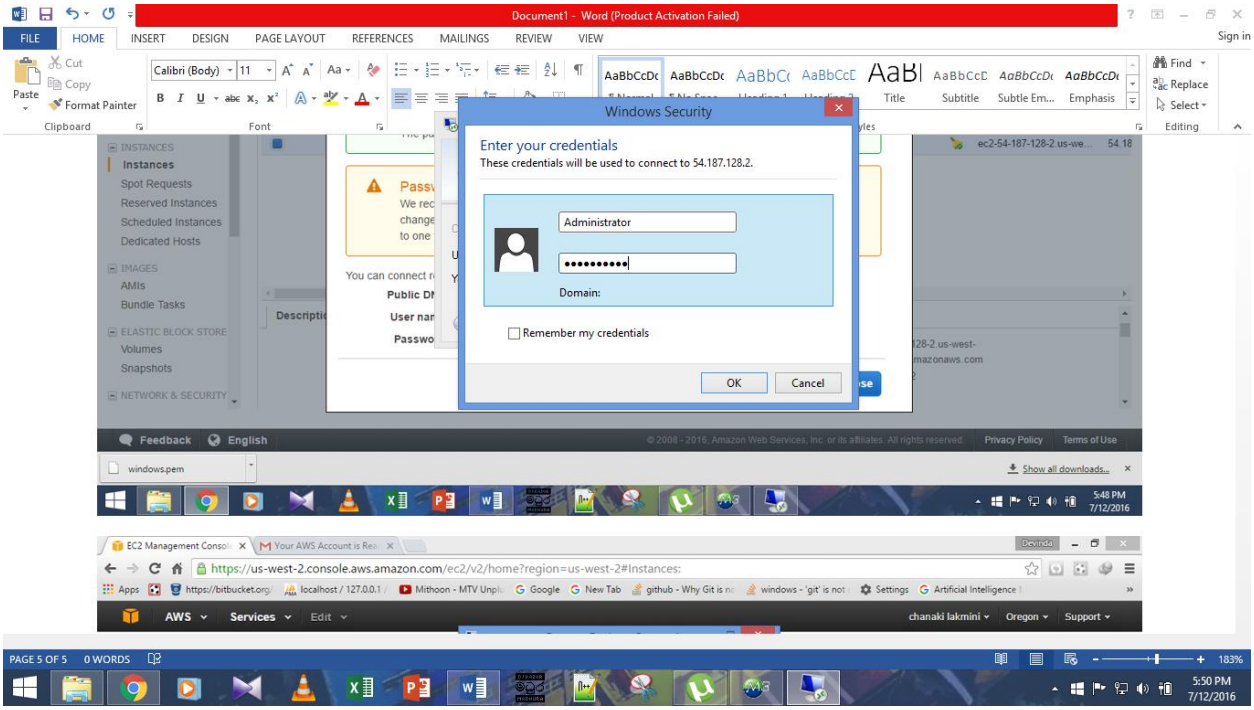
9. And here select the .pem file that you downloaded above. And then press Decrypt Password and copy the password that is displayed.



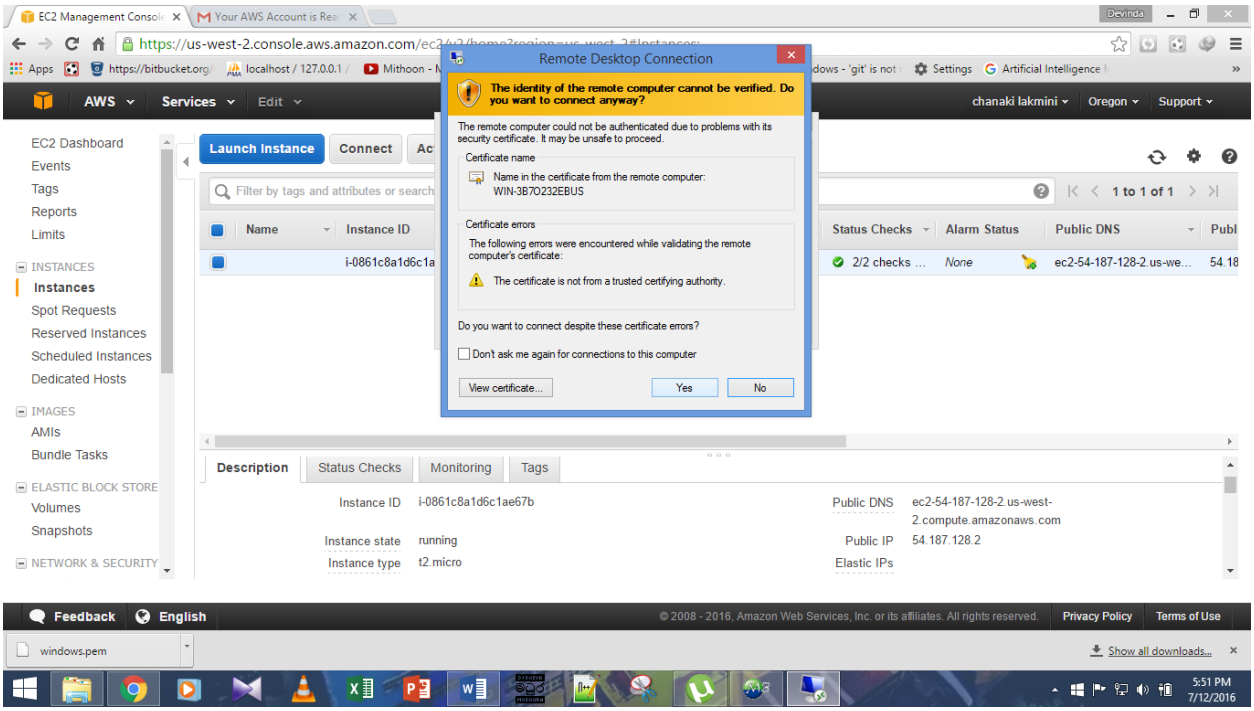
10. Now we have to establish the connection. Open the remote desktop connection and give the public IP that was noted above. And press connect.



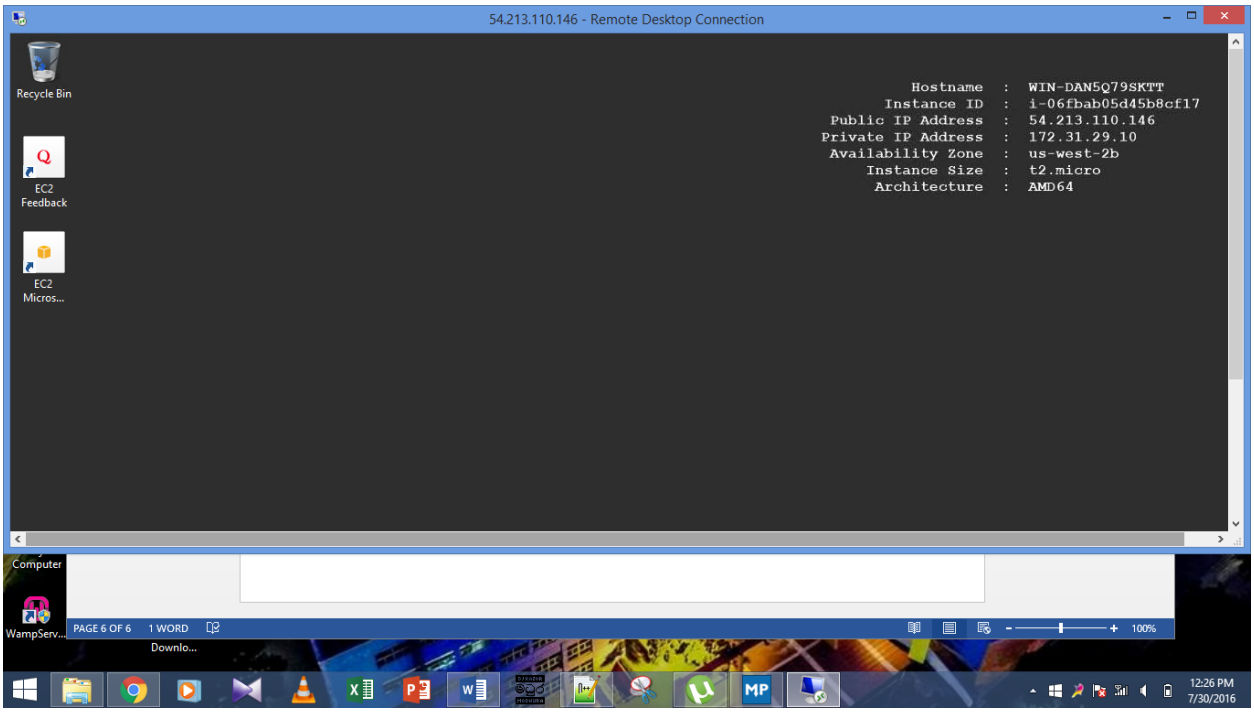
11. Now give the user name and the password.

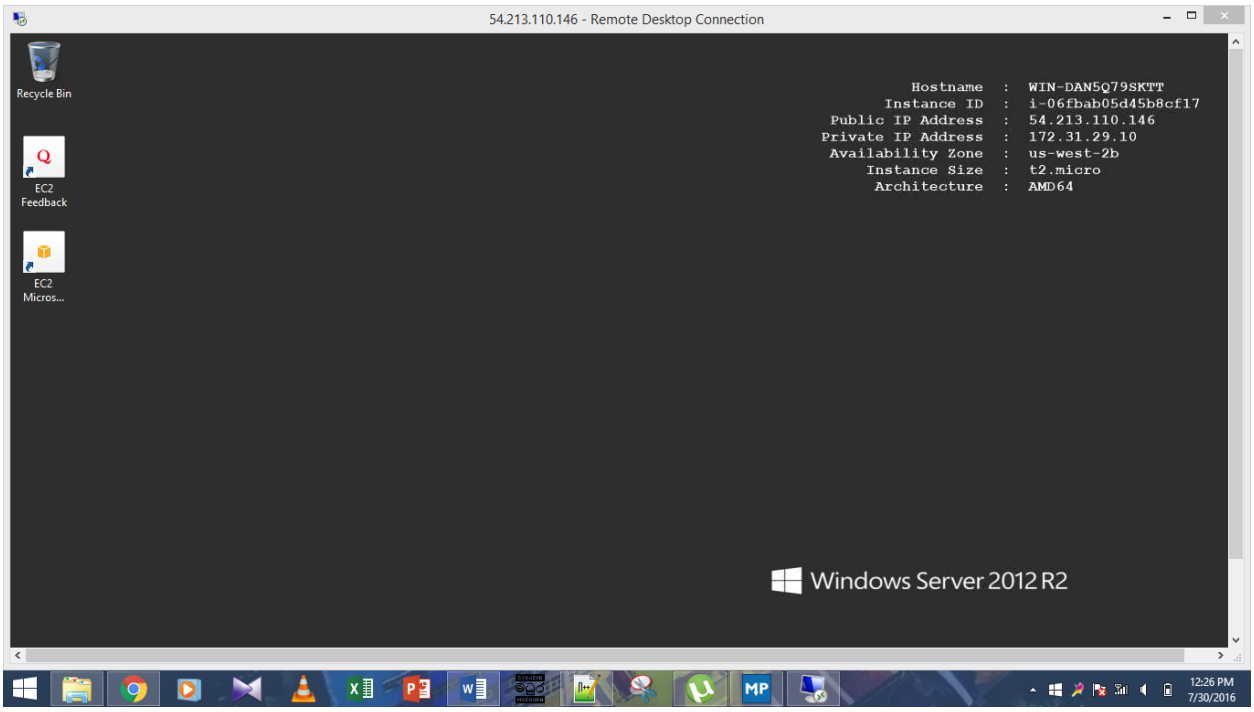


12. And then the window below will appear and here you have to select yes.



13. And successfully the remote desktop connection will launch the below shown window.

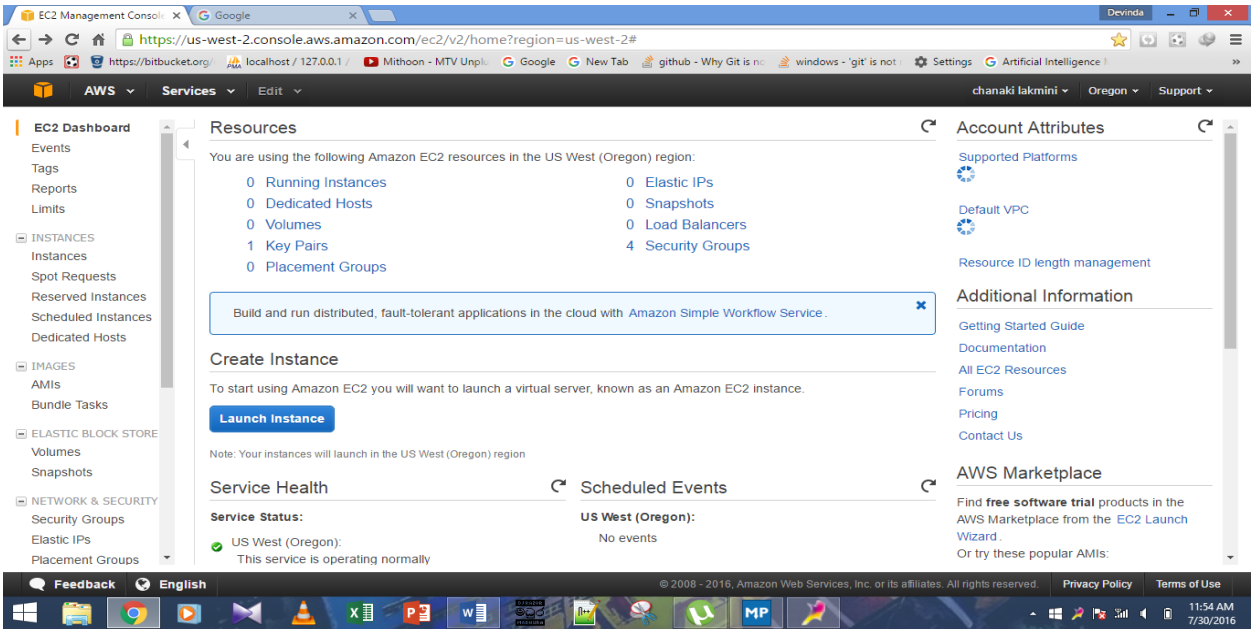




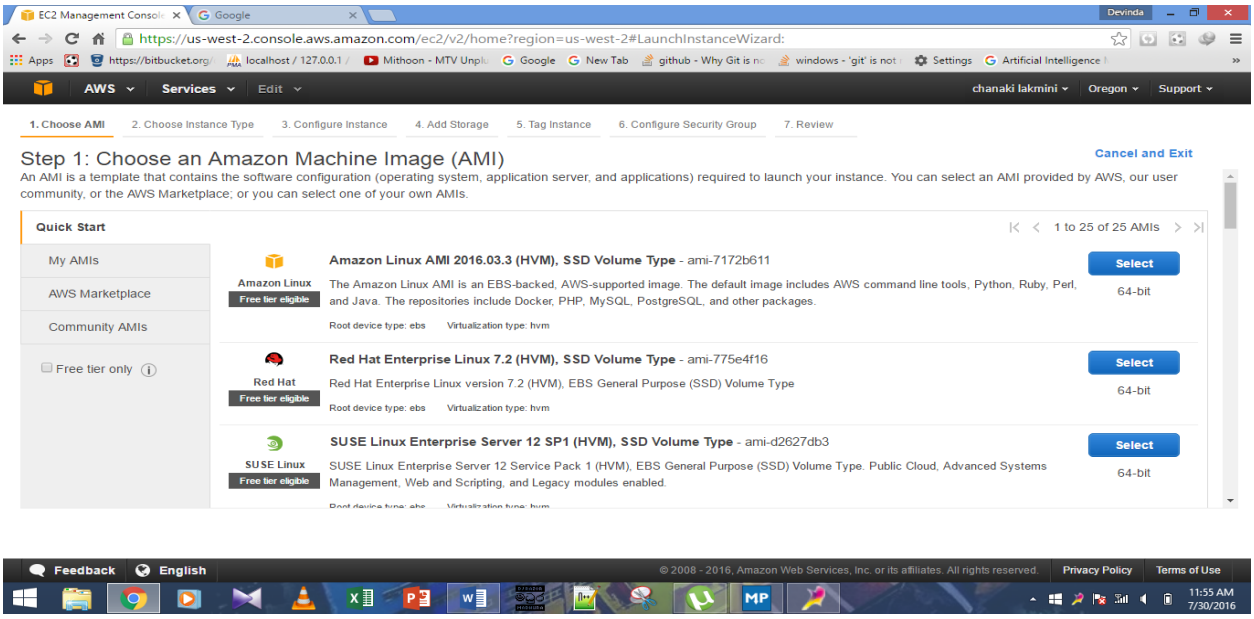
Part B

Creating an Amazon EBS-Baked Linux AMI

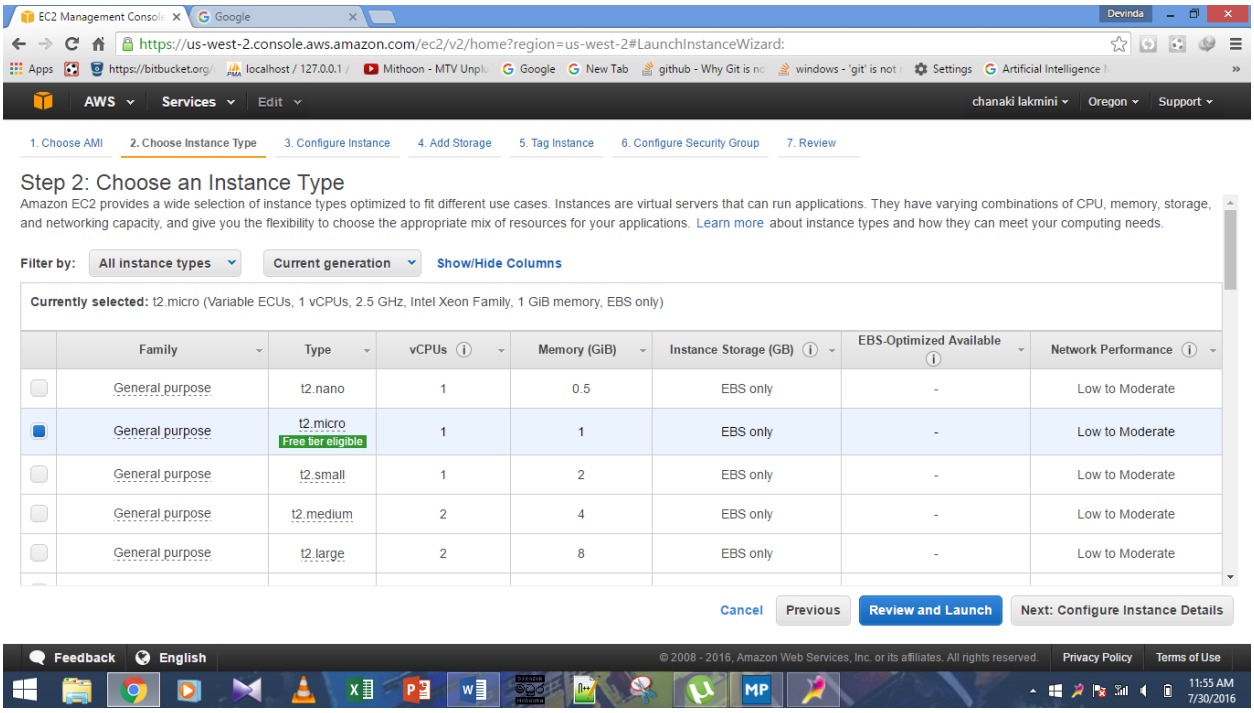
1. To create the instance first go to AWS management console and select EC2 dashboard. Then click the launch instance button.



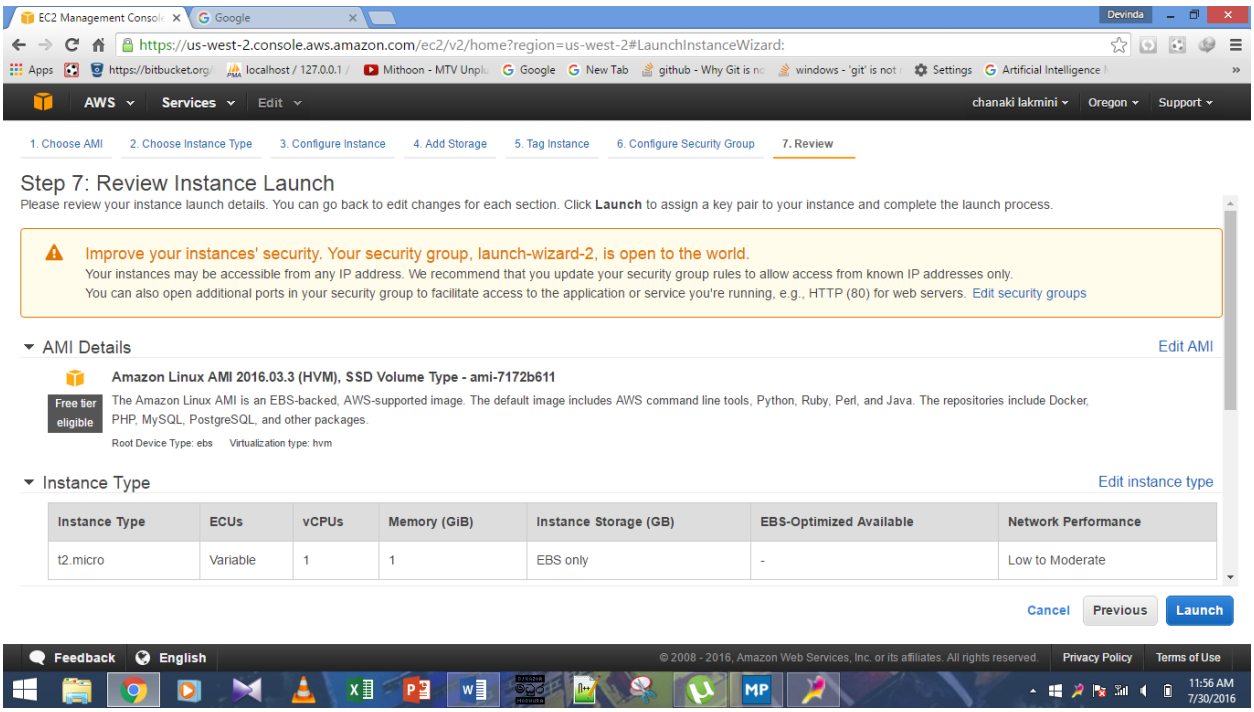
2. Choose an AMI that you want to create the instance. Here we select Amazon Linux AMI 2016.03.3.



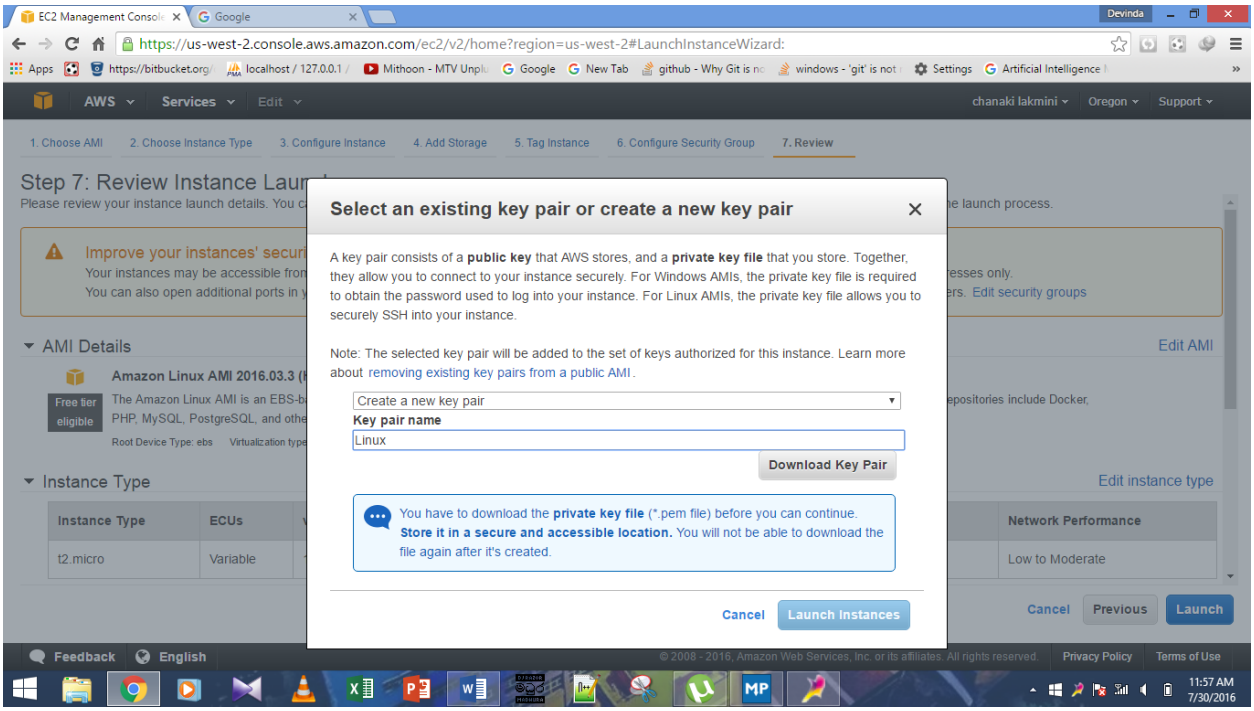
3. Choose an instance type. Then click Review and launch button to proceed.



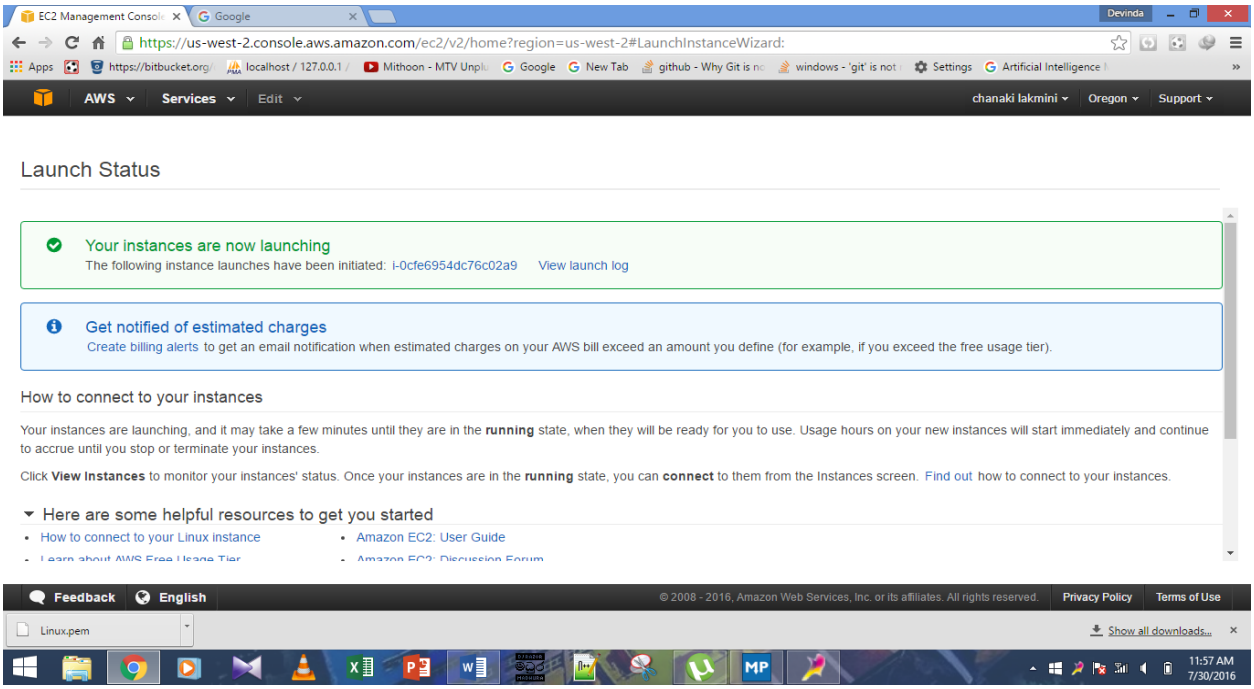
4. Then click the launch button.



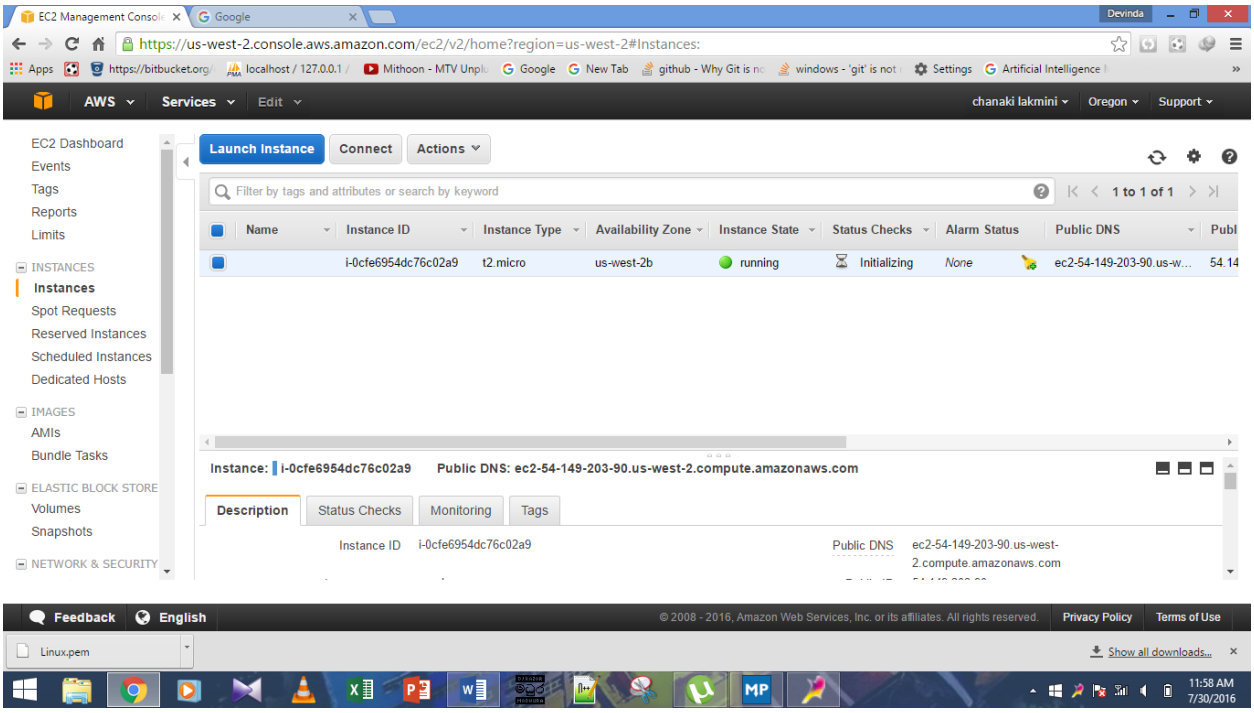
5. And here you have to select the instance. And in its description you have to note down the given Public IP. And then you have to retrieve the password for the instance. To do it, right click on the created instance and select the “Get Password for Windows”. Once selected it’ll prompt a window as shown below.



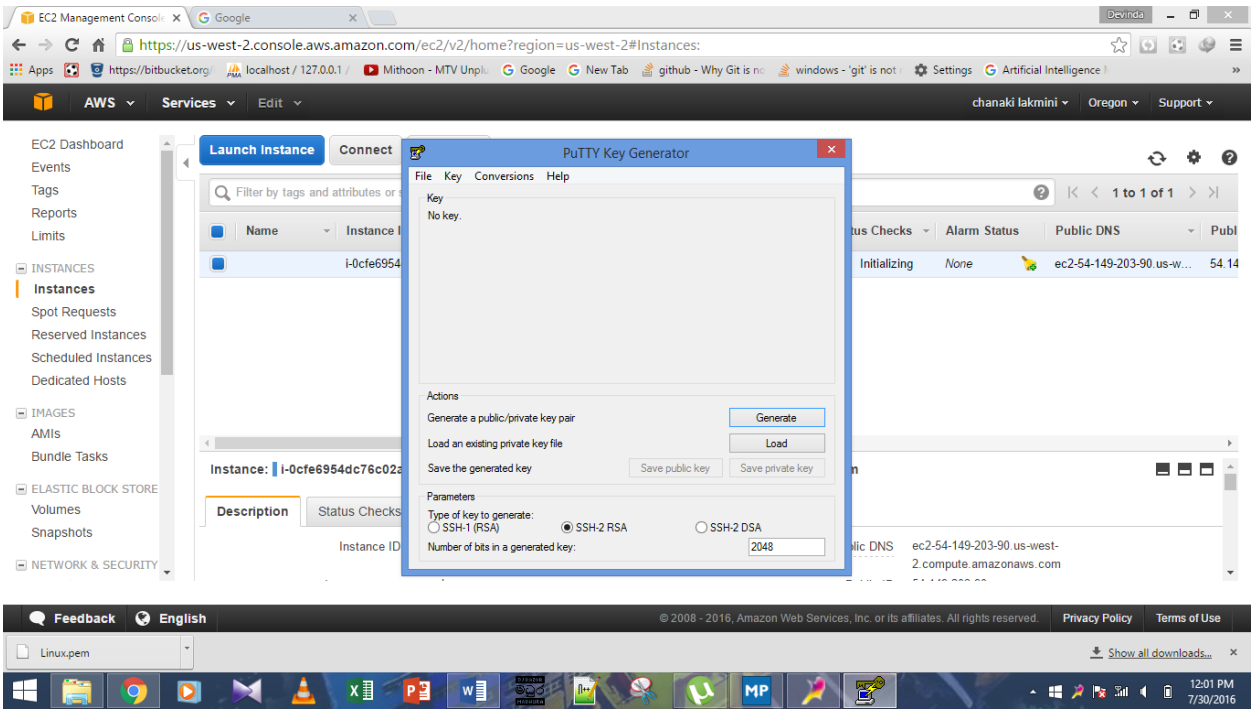
6. This window shows the instance status. And in this window you have to scroll down and click View Instance button.



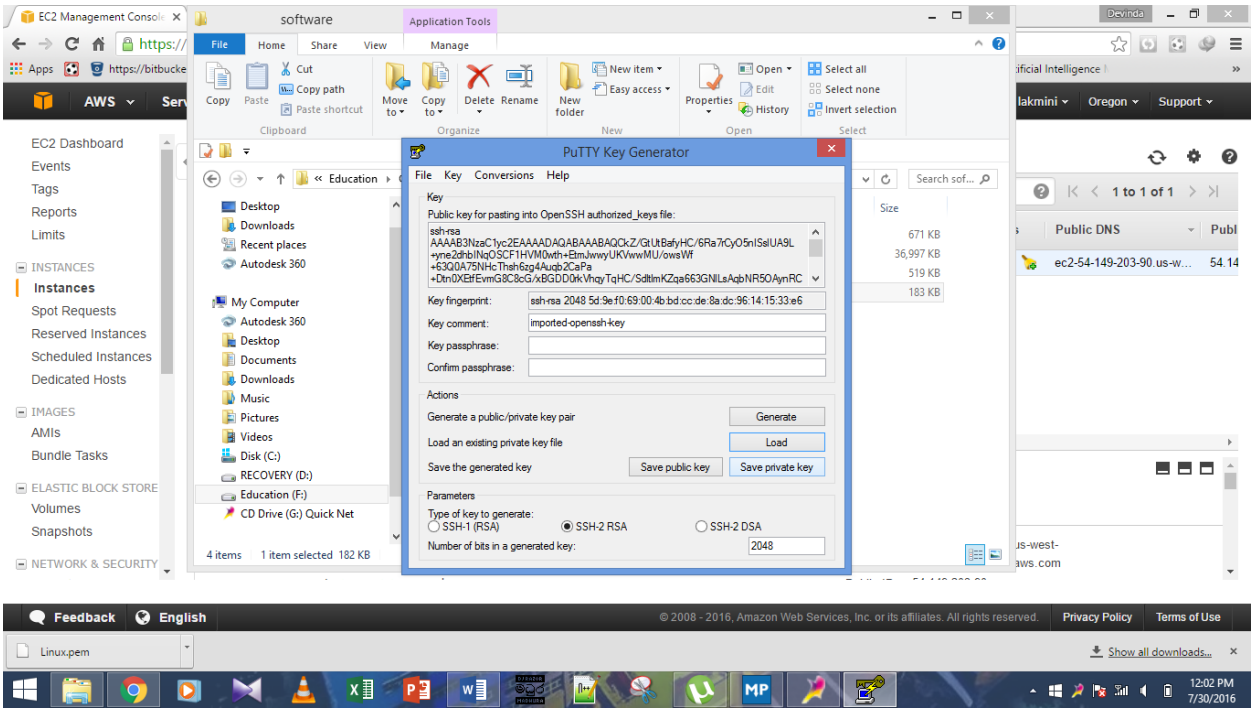
7. And then the window below will get prompted. It will display the details of created instance.



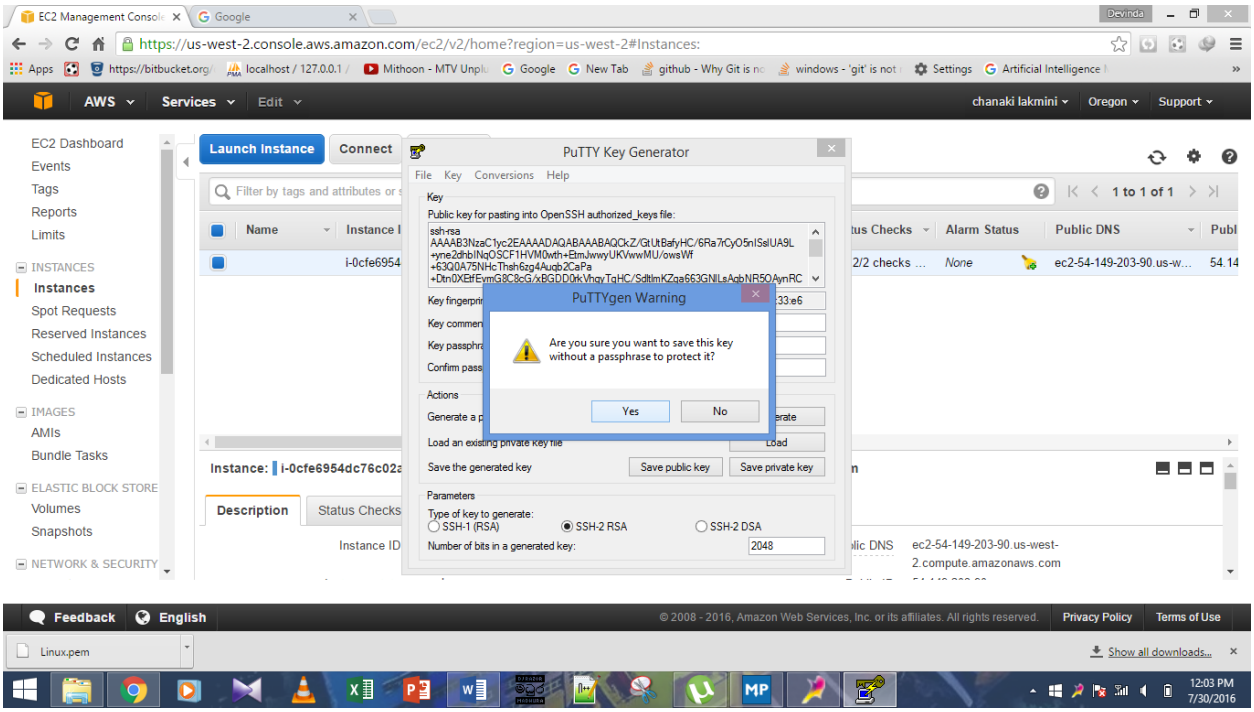
8. Now run the PUTTYGen software. Click the Load button to generate the key.And you have to upload the downloaded .ppm file.



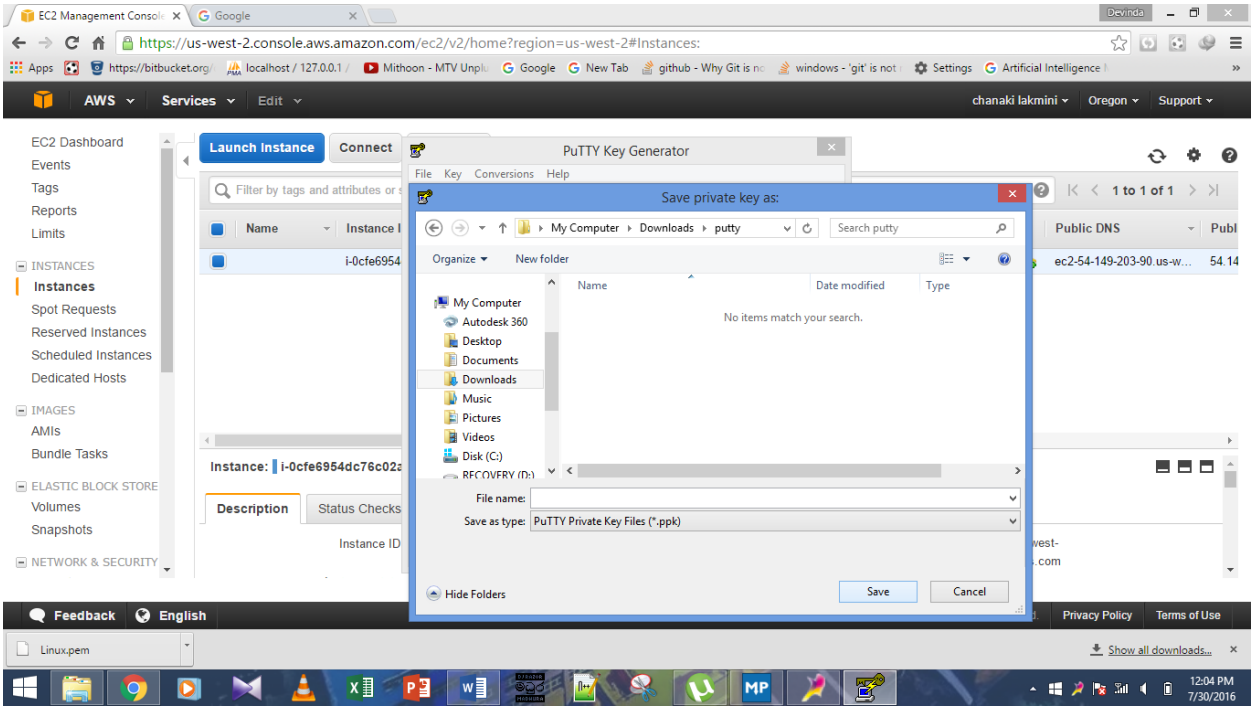
9. Now click the Save private key button.



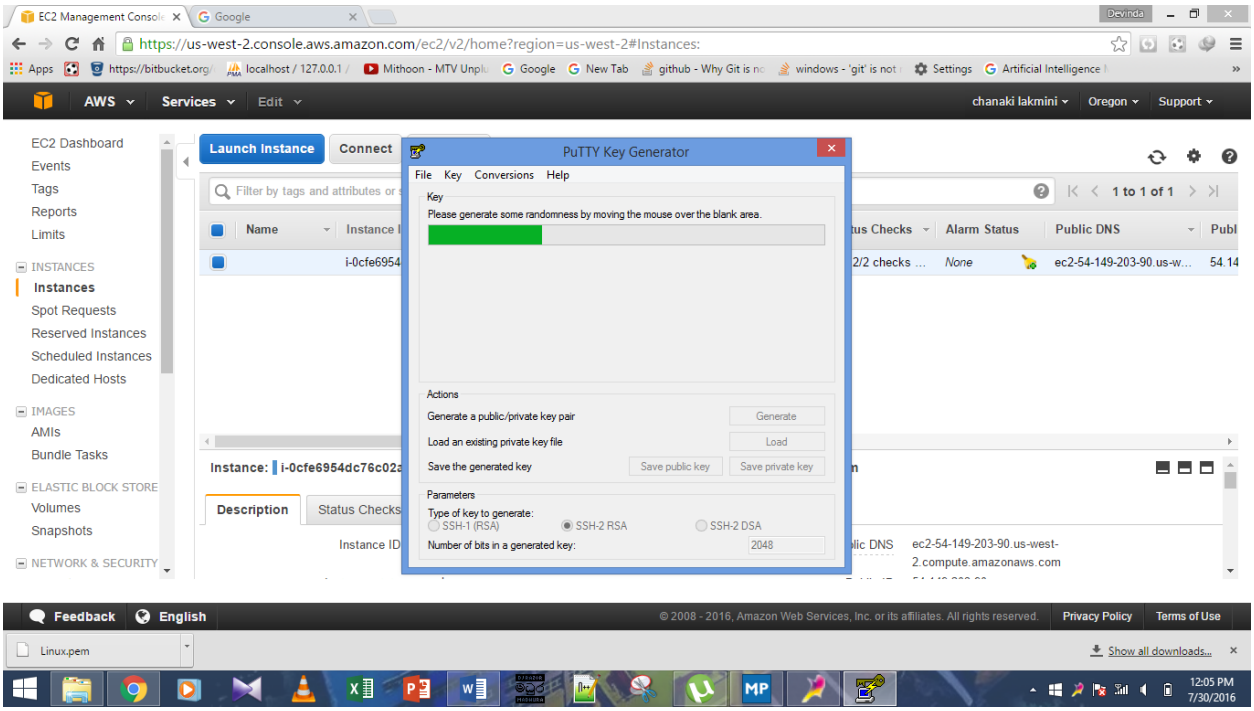
10. You have to select the yes option.



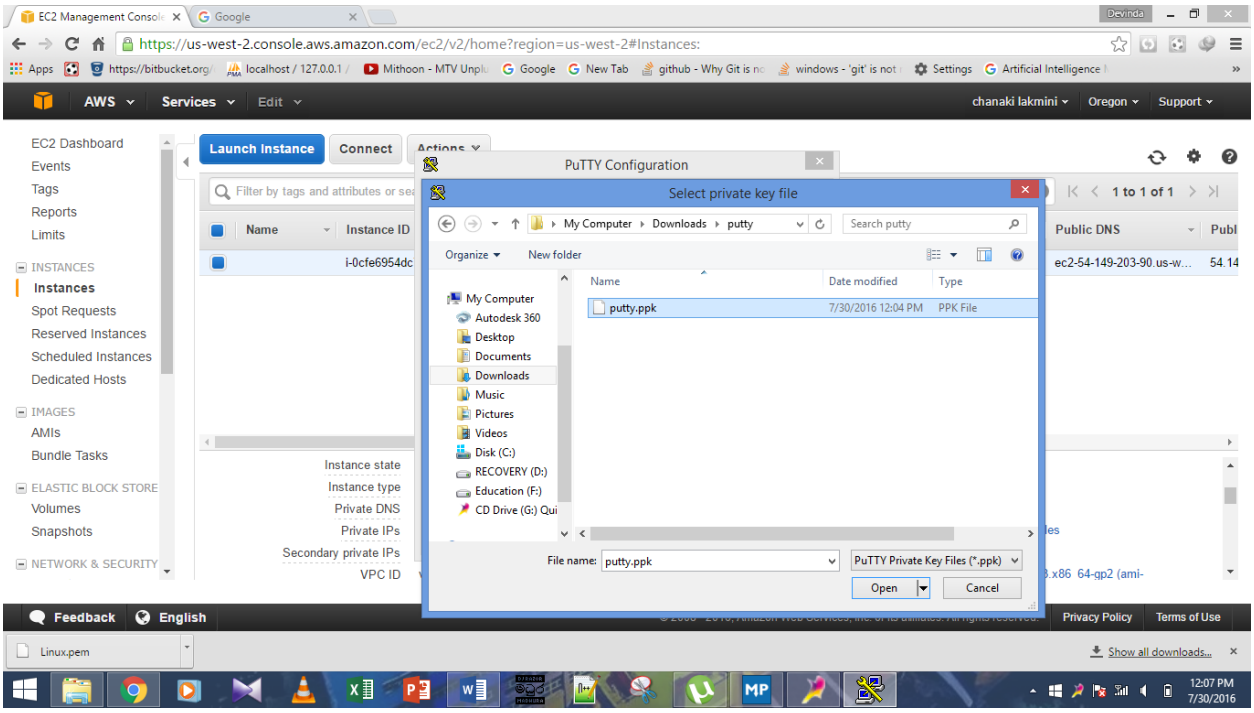
11. It will prompt a window that asking where to save the private key file. You can choose a place to save the .ppk file.



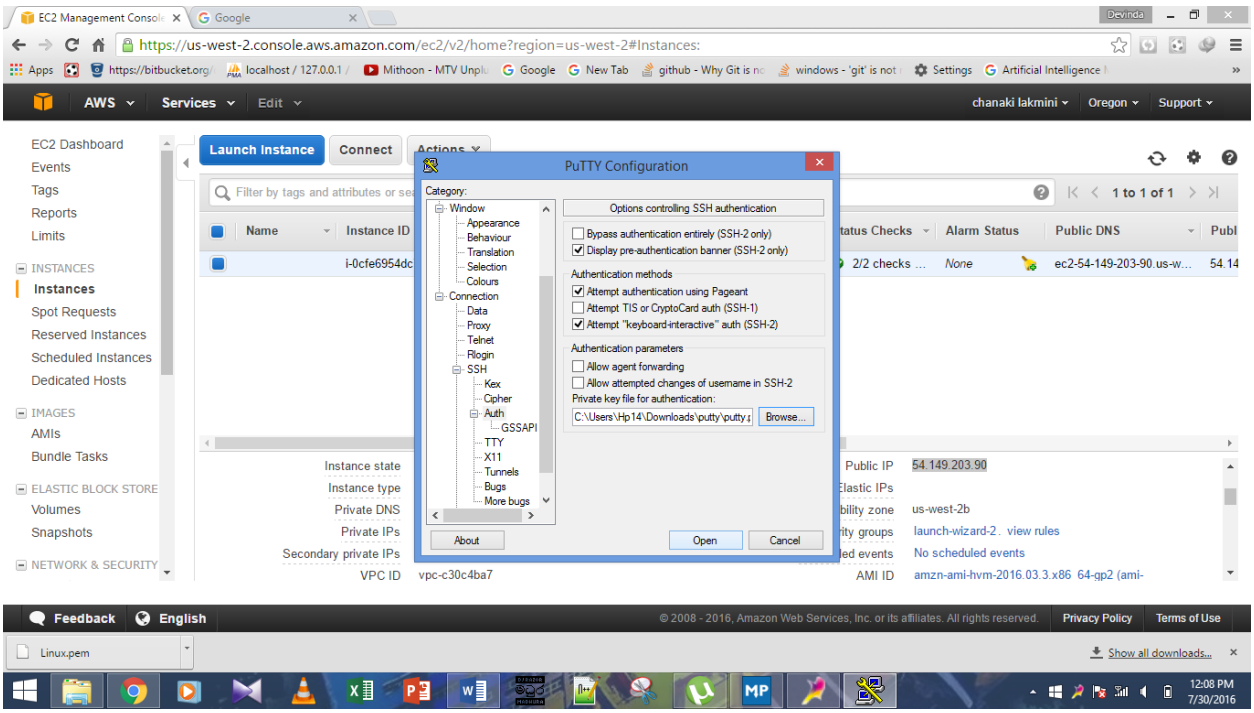
12. And click the generate button. You have to move the mouse over the blank area to generate the key.



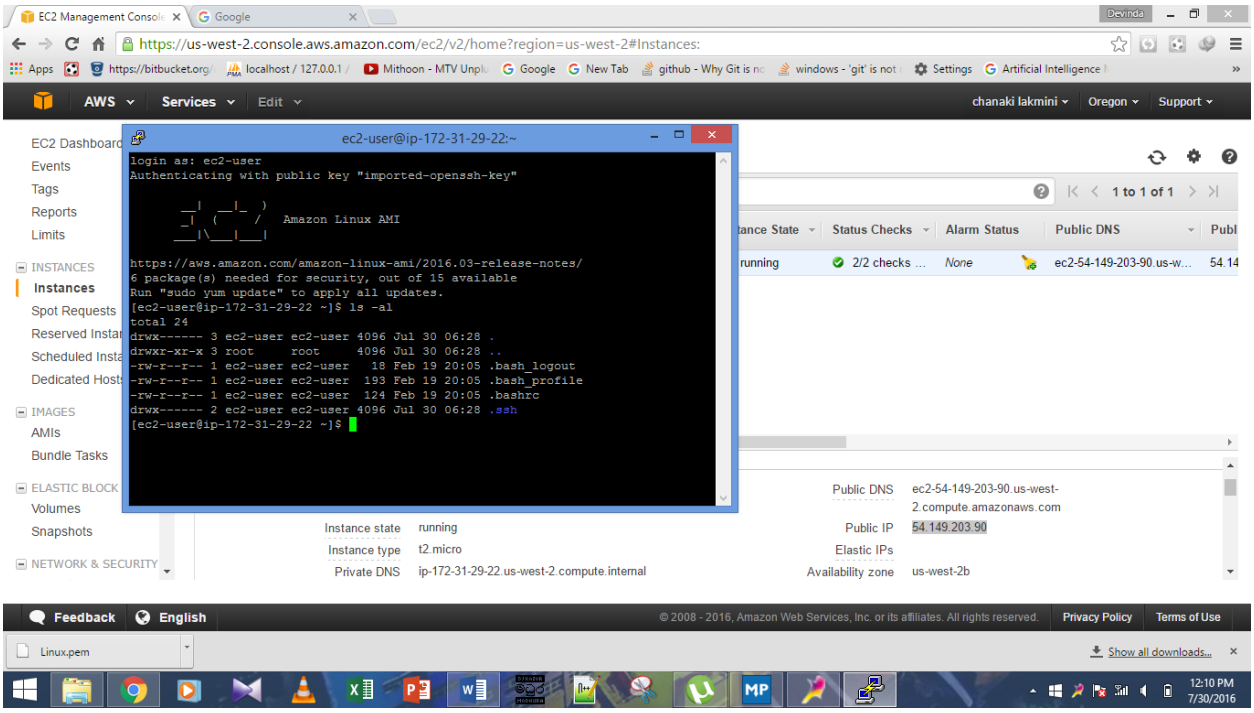
13. It will create the .ppk file.



14. Now run the PUTTY software. And give the public IP address. Select the AUTH in SSH. And upload the .ppk file. And click the open button.



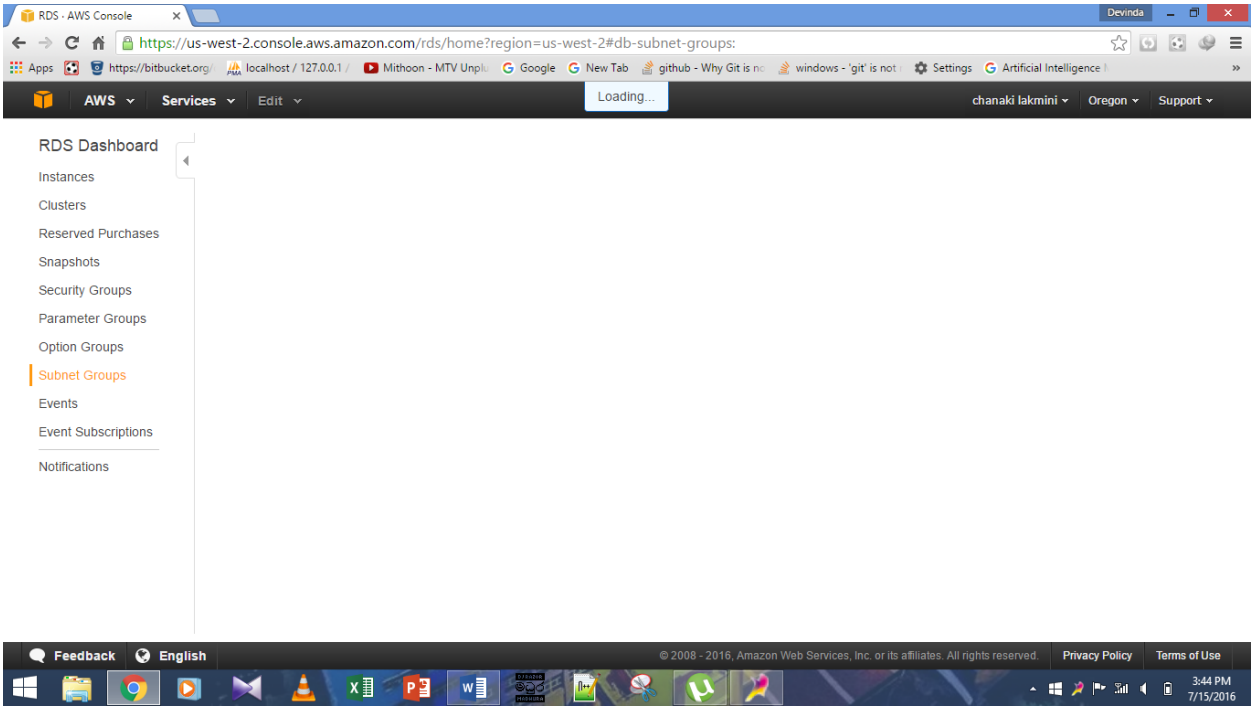
15. Now your Linux instance is created.



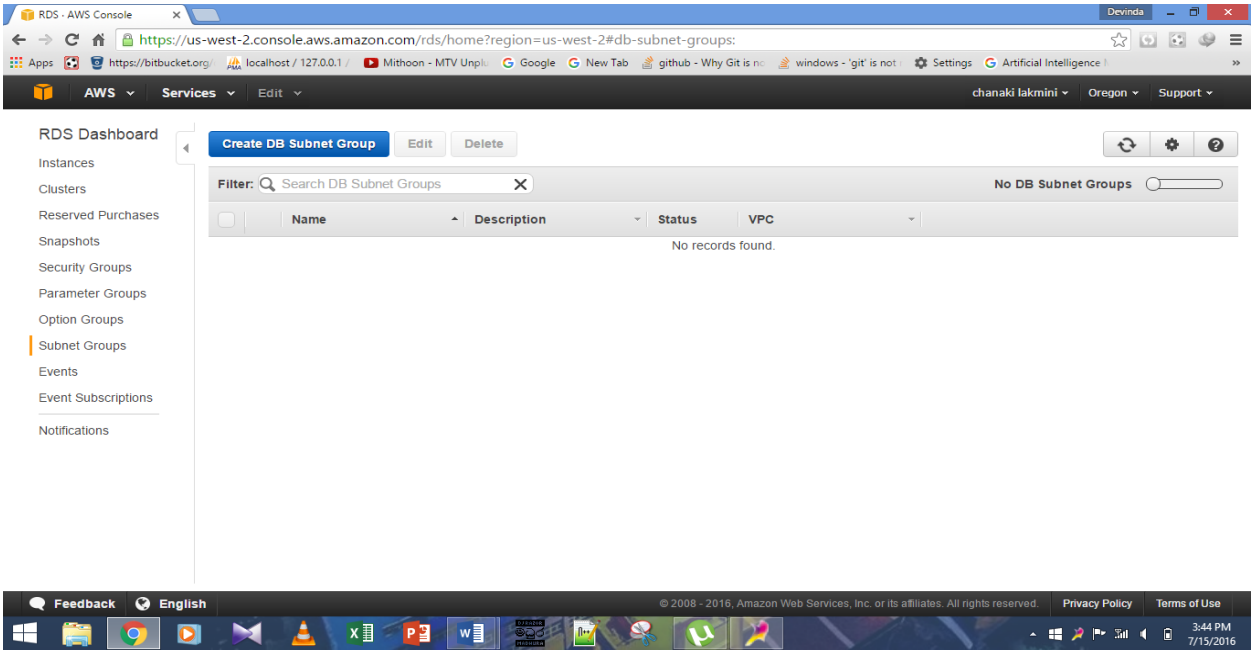
Part C

Creating a MySQL DB Instance and Connecting to a Database on a MySQL DB Instance

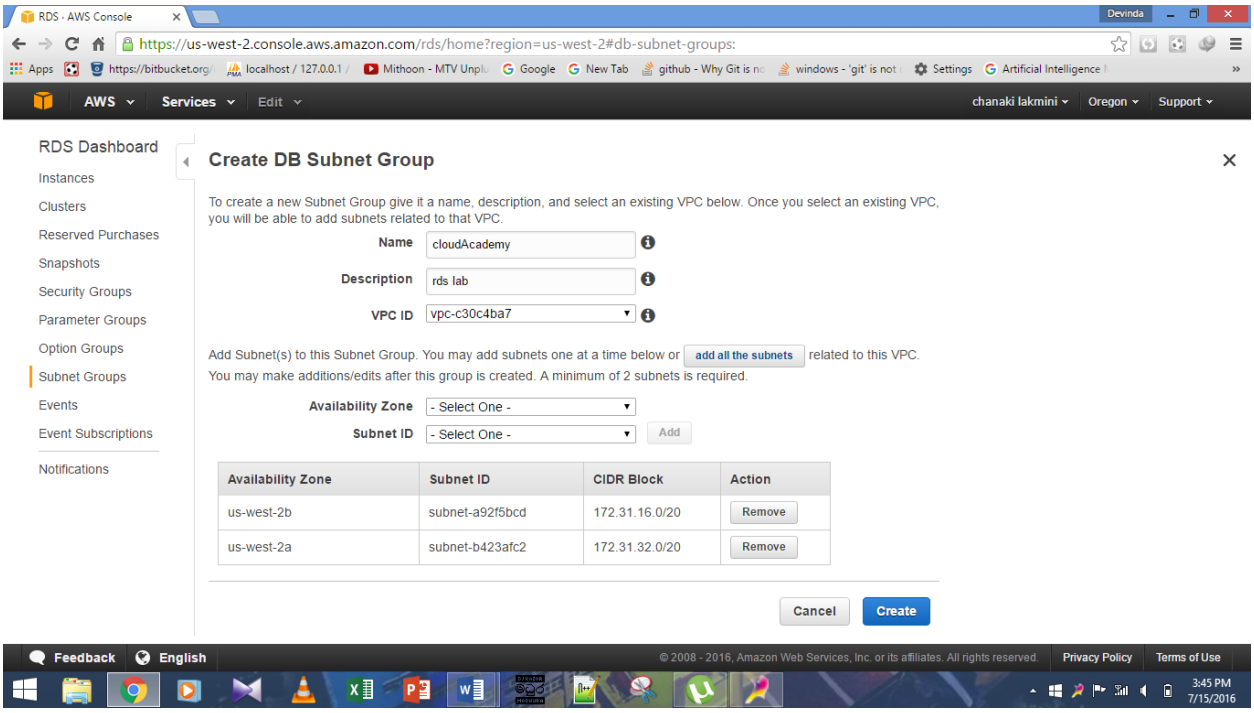
1. Sign in to the AWS Management Console and open the Amazon RDS console.



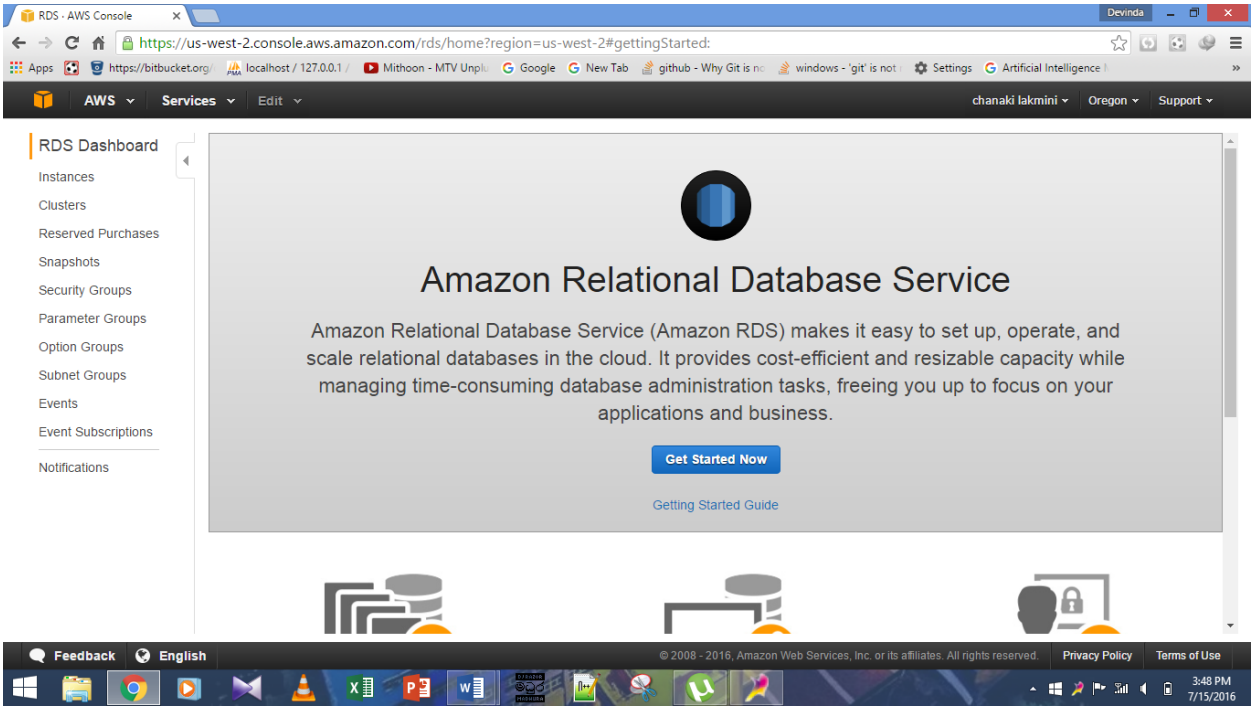
2. Create the db subnet group.



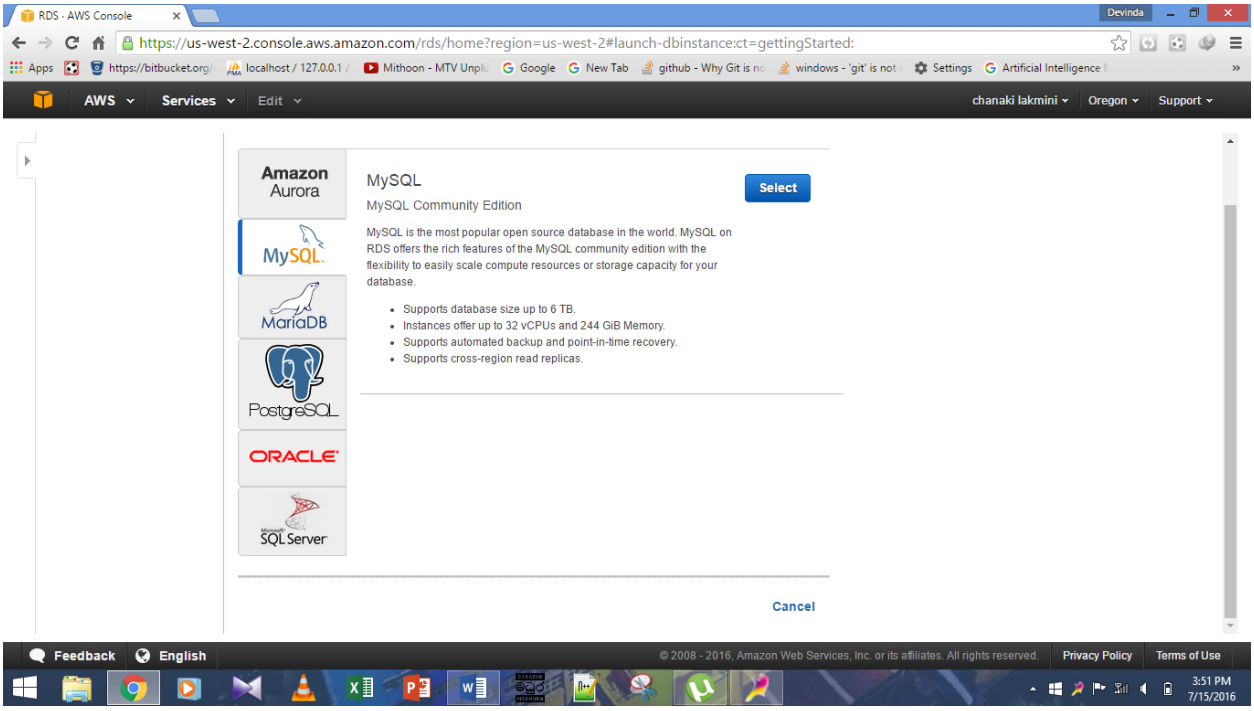
3. To create DB subnet group you have to provide below details. And click create button.



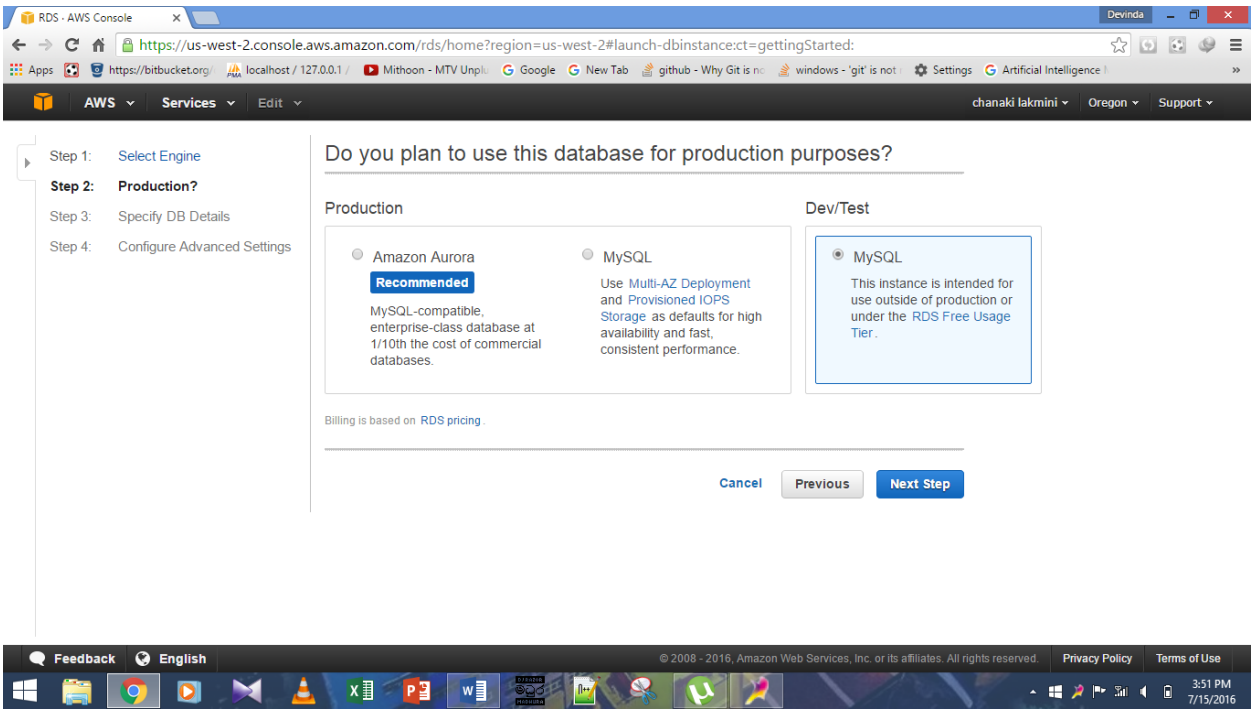
4. Click Get start now button.



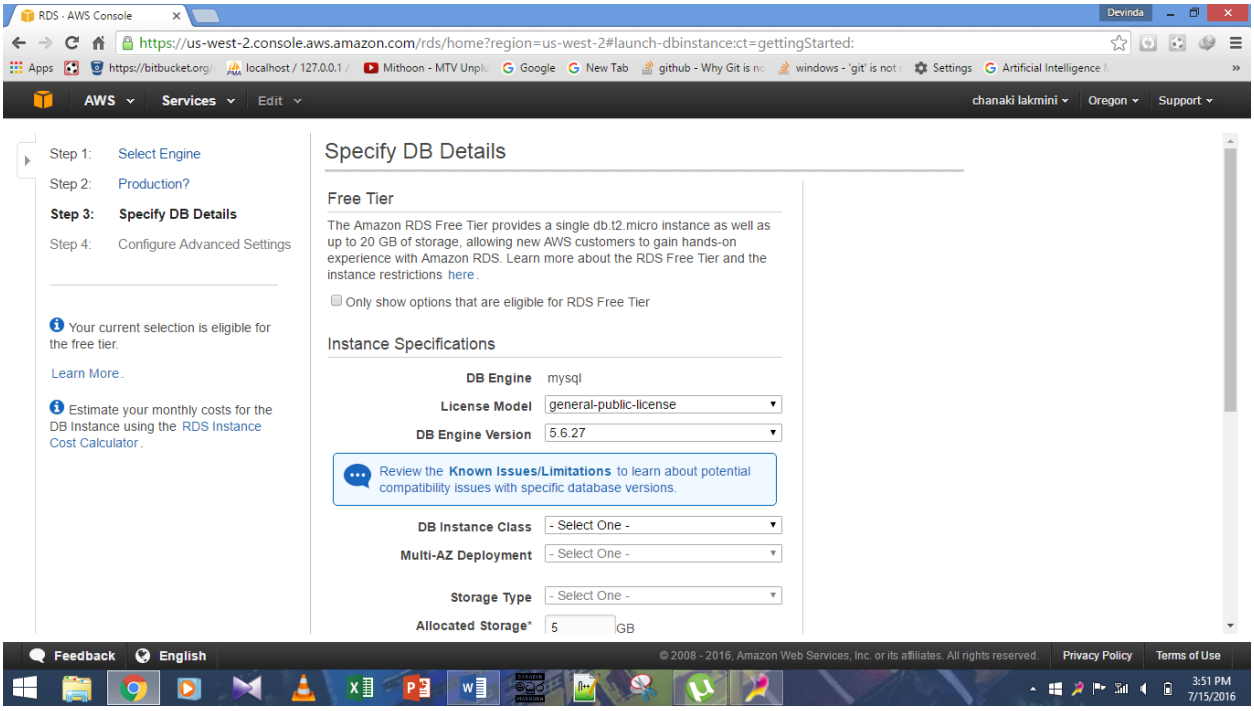
5. In the top right corner of the Amazon RDS console, choose the region in which you want to create the DB instance.

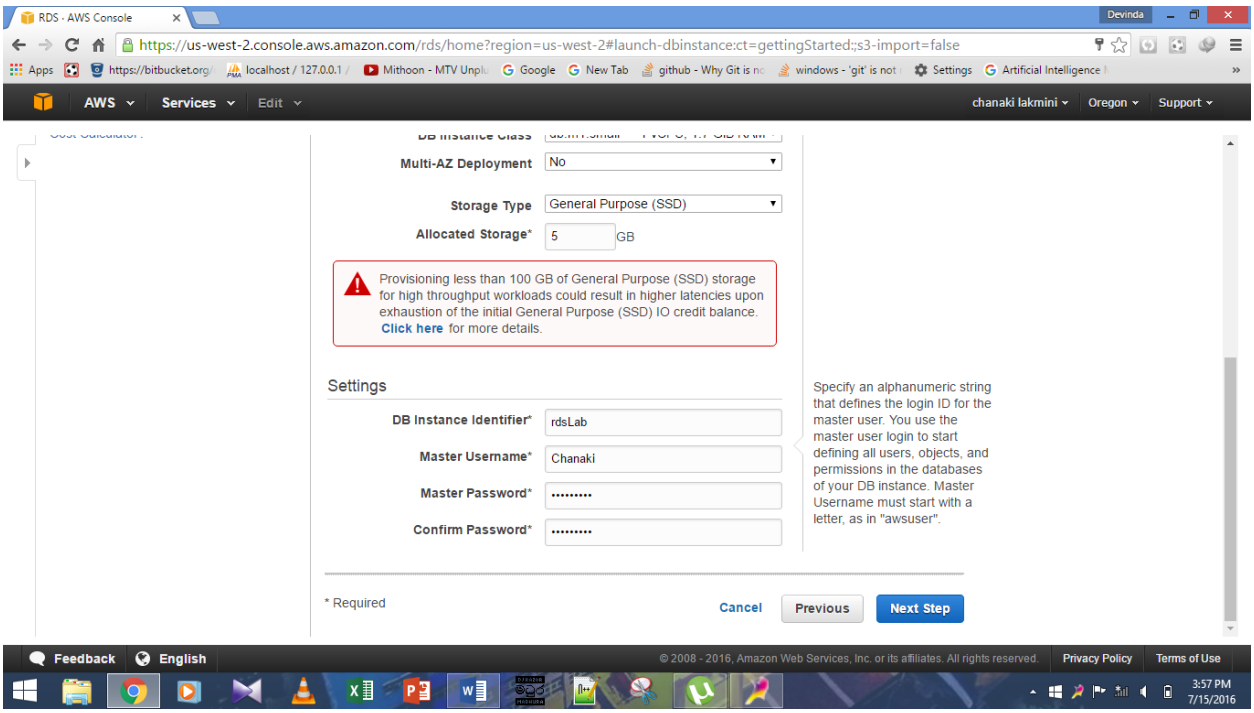


6. Click Next step button.

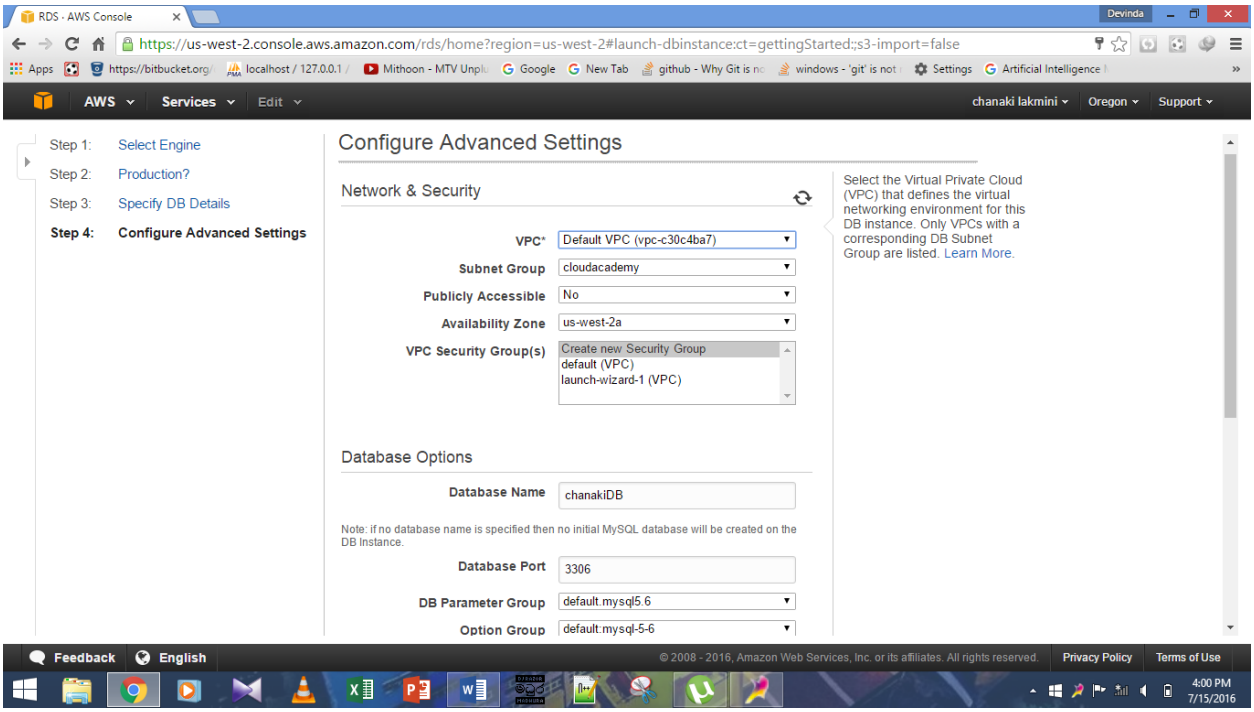


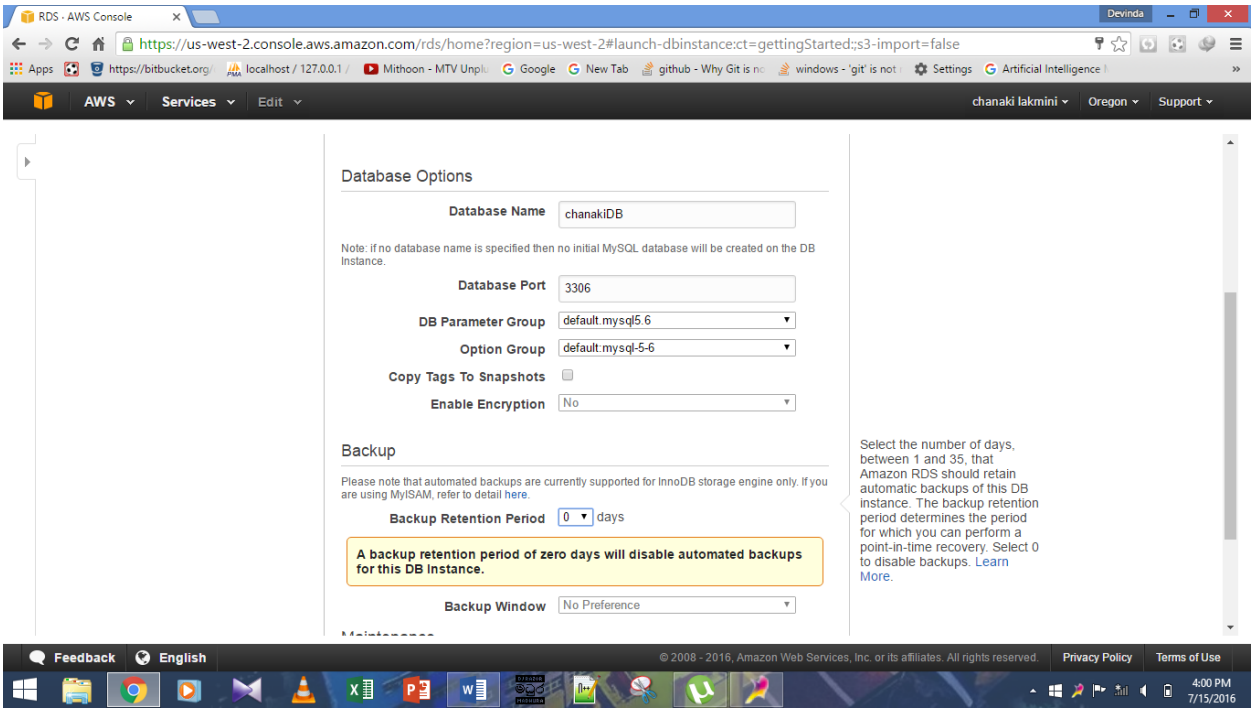
7. On the Specify DB Details page, specify your DB instance information. The following table shows settings for an example DB instance. When the settings are as you want them, choose next.



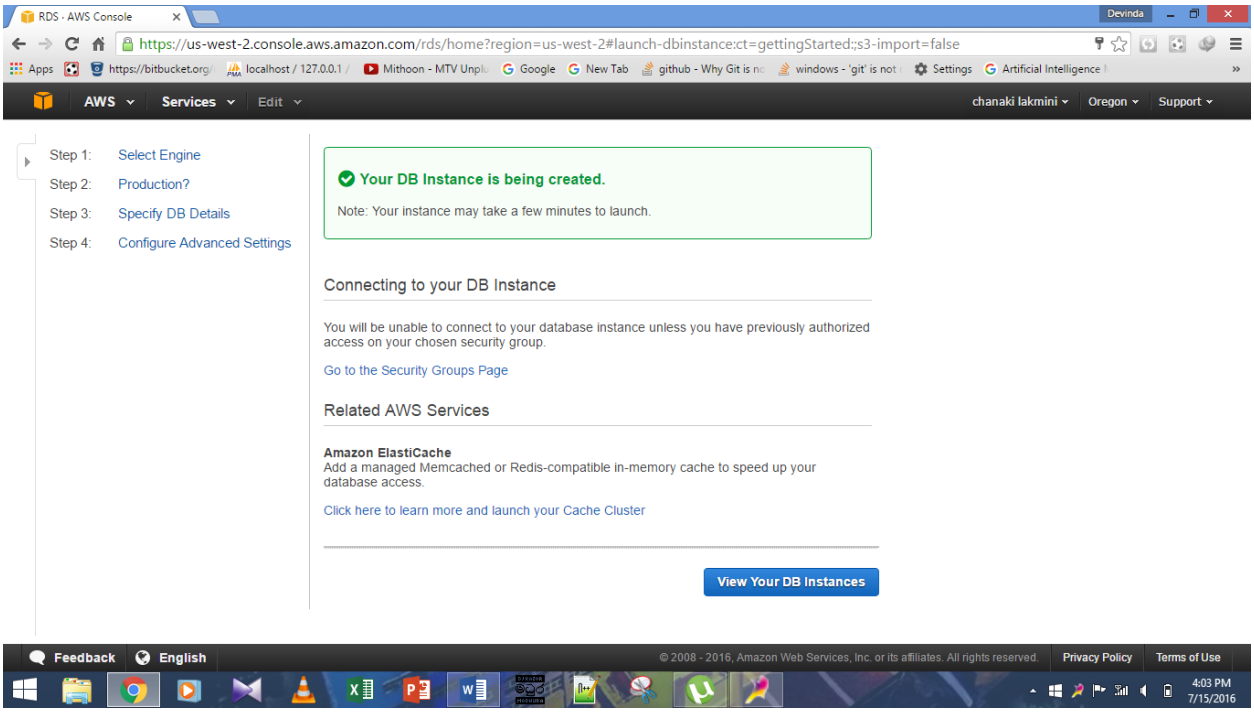


8. On the Configure Advanced Settings page, provide additional information that RDS needs to launch the MySQL DB instance. The table shows settings for an example DB instance. Specify your DB instance information, then choose Launch DB Instance.

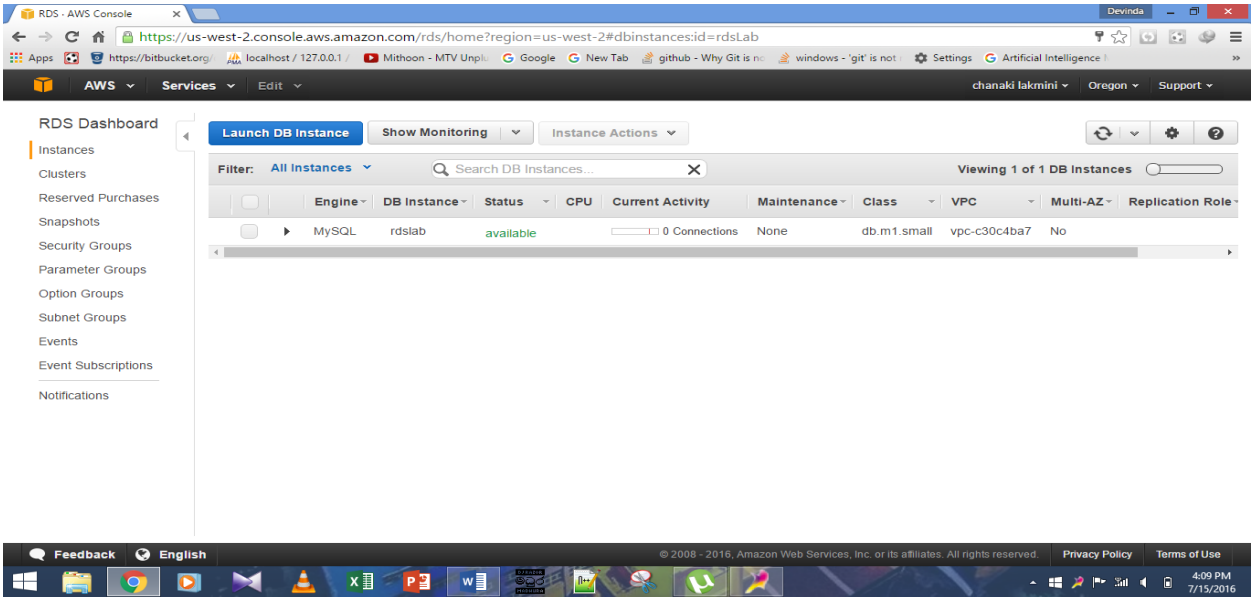


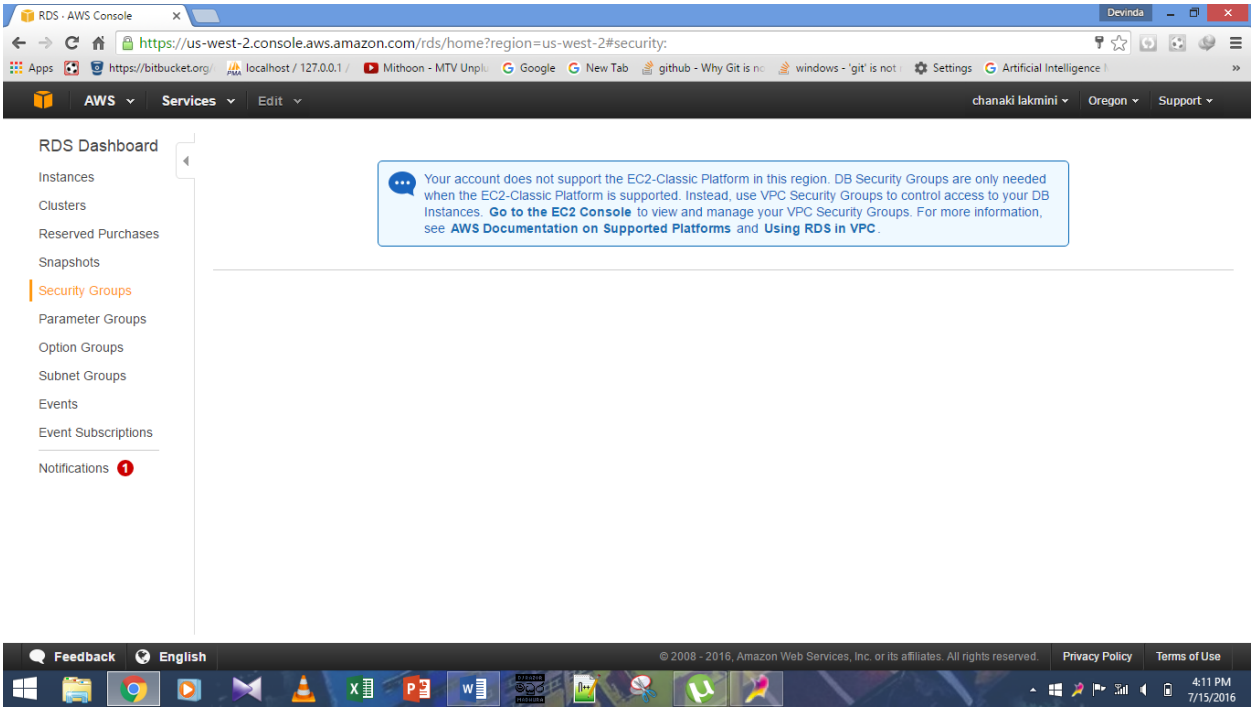


9. Here you will prompt a message tells you that your DB instance is being created.



10. On the RDS console, the new DB instance appears in the list of DB instances. The DB instance will have a status of **creating** until the DB instance is created and ready for use. When the state changes to **available**, you can connect to a database on the DB instance. Depending on the DB instance class and store allocated, it could take several minutes for the new DB instance to become available.




RDS - AWS Console
https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#security:
AWS
Services
Edit
chanaki lakmini
Oregon
Support
RDS Dashboard
Instances
Clusters
Reserved Purchases
Snapshots
Security Groups
Parameter Groups
Option Groups
Subnet Groups
Events
Event Subscriptions
Notifications
Your account does not support the EC2-Classic Platform in this region. DB Security Groups are only needed when the EC2-Classic Platform is supported. Instead, use VPC Security Groups to control access to your DB Instances. Go to the EC2 Console to view and manage your VPC Security Groups. For more information, see AWS Documentation on Supported Platforms and Using RDS in VPC.
Feedback
English
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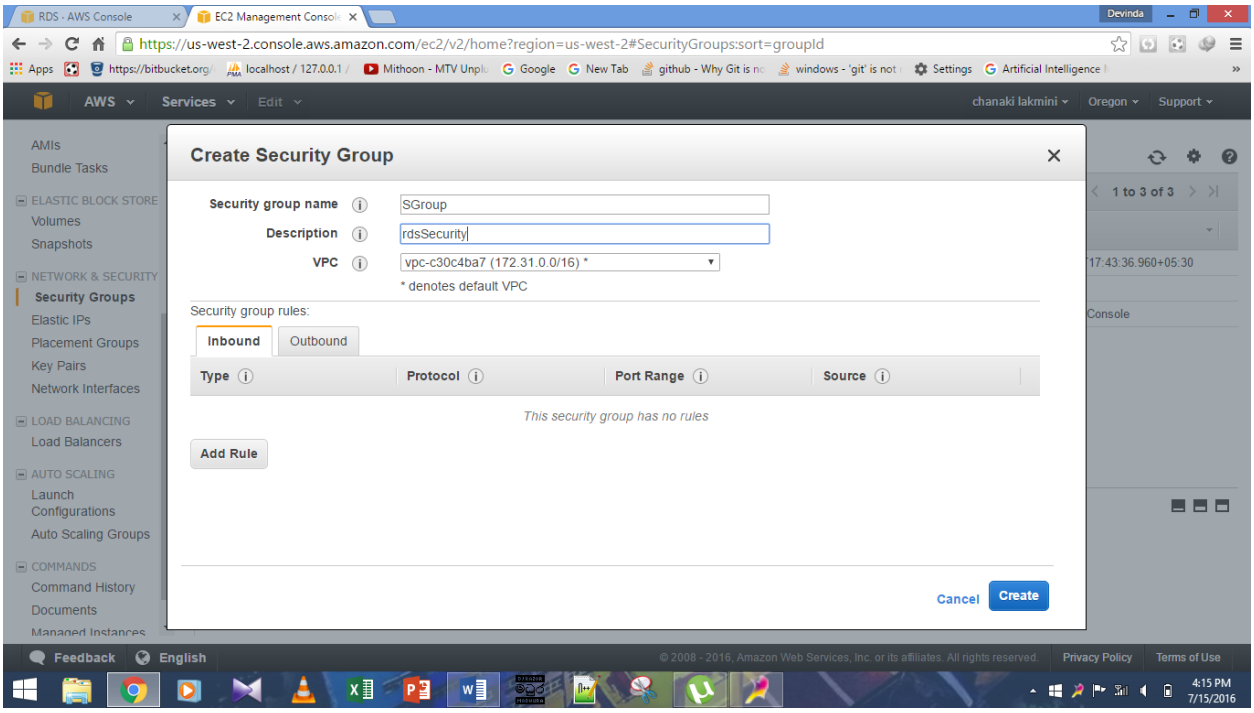
7/15/2016


RDS - AWS Console
EC2 Management Console
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#SecurityGroups:sort=groupId
AWS
Services
Edit
chanaki lakmini
Oregon
Support
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
LOAD BALANCING
Load Balancers
AUTO SCALING
Launch Configurations
Auto Scaling Groups
COMMANDS
Command History
Documents
Create Security Group
Security group name
SGroup
Description
rdsSecurity
VPC
vpc-c30c4ba7 (172.31.0.0/16) *
* denotes default VPC
Security group rules:
Inbound
Outbound
Type
Protocol
Port Range
Source
This security group has no rules
Add Rule
Cancel
Create
1 to 3 of 3
Console
Feedback
English
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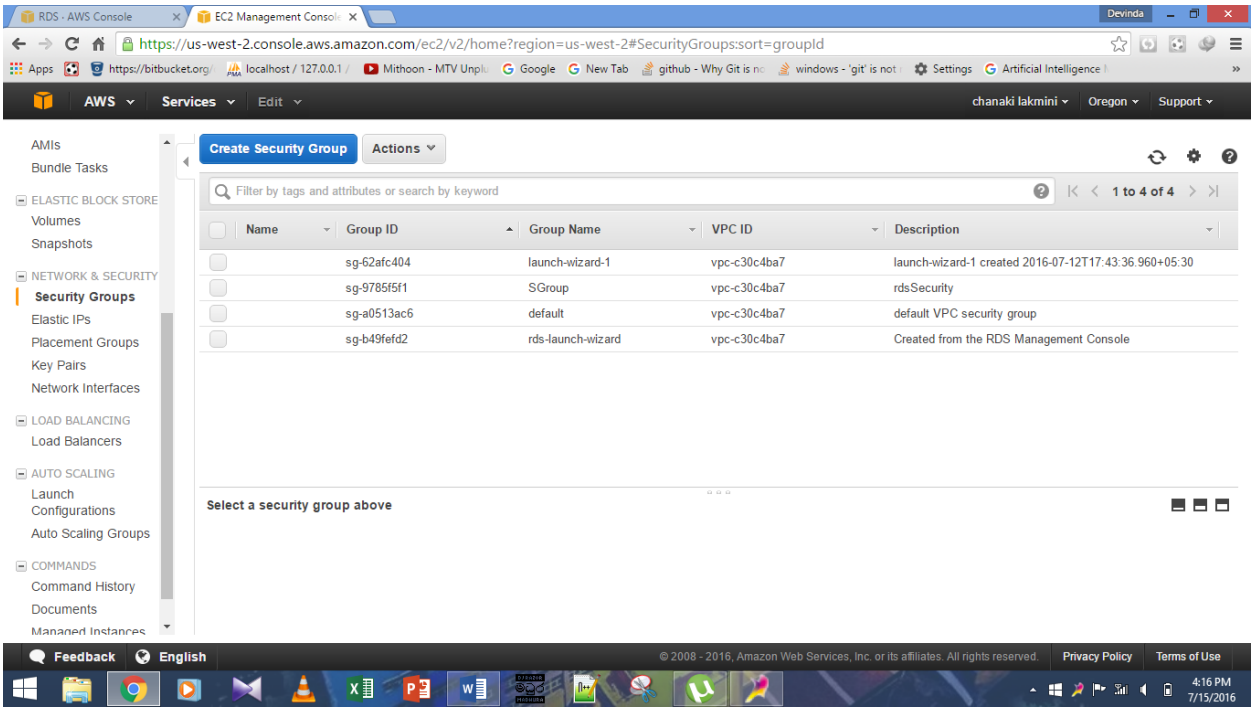
RDS - AWS Console
EC2 Management Console
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#SecurityGroups:sort=groupId
AWS
Services
Edit
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Oregon
Support
AMIs
Bundle Tasks
ELASTIC BLOCK STORE
Volumes
Snapshots
NETWORK & SECURITY
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
LOAD BALANCING
Load Balancers
AUTO SCALING
Launch Configurations
Auto Scaling Groups
COMMANDS
Command History
Documents
Create Security Group
Actions
Filter by tags and attributes or search by keyword
1 to 4 of 4
Name
Group ID
Group Name
VPC ID
Description
sg-62afc404
launch-wizard-1
vpc-c30c4ba7
launch-wizard-1 created 2016-07-12T17:43:36.960+05:30
sg-9785f5f1
SGroup
vpc-c30c4ba7
rdsSecurity
sg-a0513ac6
default
vpc-c30c4ba7
default VPC security group
sg-b49fefd2
rds-launch-wizard
vpc-c30c4ba7
Created from the RDS Management Console
Select a security group above
Feedback
English
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Terms of Use
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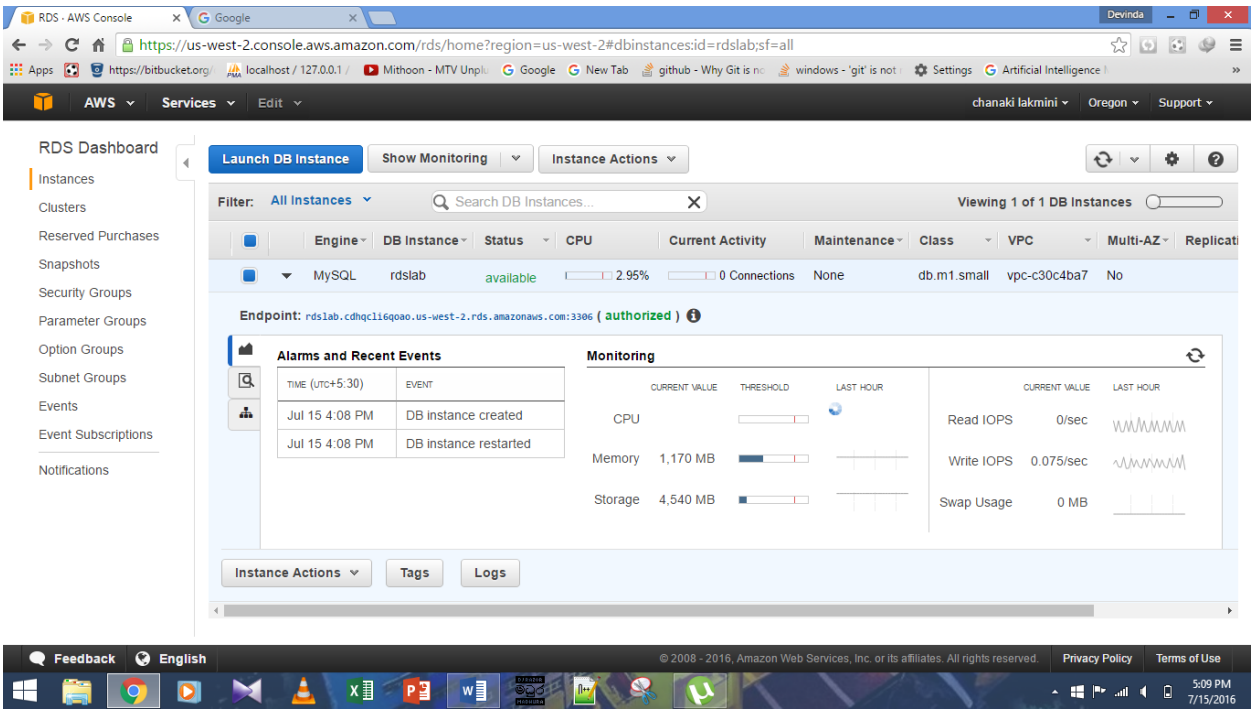
7/15/2016


RDS - AWS Console
Google
https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=rdslab;sf=all
AWS
Services
Edit
chanaki lakmini
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
MySQL
rdslab
available
2.95%
0 Connections
None
db.m1.small
vpc-c30c4ba7
No
Endpoint: rdslab.cdhqcli6qoao.us-west-2.rds.amazonaws.com:3306 (authorized)
Alarms and Recent Events
TIME (UTC+5:30)
EVENT
Jul 15 4:08 PM
DB instance created
Jul 15 4:08 PM
DB instance restarted
Monitoring
CURRENT VALUE
THRESHOLD
LAST HOUR
CPU
Memory
1,170 MB
Storage
4,540 MB
Read IOPS
0/sec
Write IOPS
0.075/sec
Swap Usage
0 MB
Instance Actions
Tags
Logs
Feedback
English
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5:09 PM
7/15/2016