



Enterprise Standards and Best Practices For IT Infrastructure.

Sri Lanka Institute of Information Technology.

4th Year Second Semester.

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1) Creating an amazon ebs-backed windows ami.

1. Select the public EBS-backed AMI which uses the version of Windows Server.

The screenshot shows the AWS Management Console homepage. The left sidebar lists services under 'Compute' (EC2, Lambda), 'Storage & Content Delivery' (S3, CloudFront, Glacier, Snowball, Storage Gateway), 'Database' (RDS, DynamoDB), and other categories like 'Developer Tools' (CodeCommit, CodeDeploy, CodePipeline), 'Management Tools' (CloudWatch Metrics, CloudFormation, CloudTrail, Config, OpsWorks, Service Catalog, Trusted Advisor), 'Security & Identity' (Identity & Access Management, Directory Service), and 'Mobile Services' (Mobile Hub, Cognito, Device Farm, Mobile Analytics, SNS). On the right, there's a 'Resource Groups' section with a 'Create a Group' button, and an 'Additional Resources' section with links to Getting Started, AWS Console Mobile App, AWS Marketplace, and AWS re:Invent Announcements. The status bar at the bottom shows the URL https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2 and the date 7/12/2016.

2. Then Click on **Launch** button to launch the selected instance.

The screenshot shows the EC2 Management Console. The left sidebar has sections for EC2 Dashboard, Instances, Images, Elastic Block Store, Network & Security, and Feedback. The main area is titled 'Resources' and shows statistics: 0 Running Instances, 0 Dedicated Hosts, 0 Volumes, 0 Key Pairs, 0 Placement Groups, 0 Elastic IPs, 0 Snapshots, 0 Load Balancers, and 1 Security Groups. Below this is a 'Create Instance' section with a 'Launch Instance' button. To the right is an 'Account Attributes' section listing Supported Platforms (VPC), Default VPC (vpc-e0e9ad84), and Resource ID length management. There's also an 'Additional Information' section with links to Getting Started Guide, Documentation, All EC2 Resources, Forums, Pricing, and Contact Us. At the bottom is an 'AWS Marketplace' section with a link to find free software trial products. The status bar at the bottom shows the URL https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2 and the date 7/12/2016.

3. Now chose an Amazon machine image for windows.

Step 1: Choose an Amazon Machine Image (AMI)

Root device type: ebs Virtualization type: hvm

- Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9abea4fb** (Selected)
Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).
Free tier eligible
- Microsoft Windows Server 2012 R2 Base - ami-8d0acfed**
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]
Free tier eligible
- Amazon RDS**
Are you launching a database instance? Try Amazon RDS.
Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale a relational database of your choice (MySQL, PostgreSQL, Oracle, SQL Server) in the cloud. It provides cost-efficient and resizable capacity while managing time-consuming database management tasks, freeing you up to focus on your applications and business. [Learn more](#).
[Launch a database using RDS](#)
- Microsoft Windows Server 2012 R2 with SQL Server Express - ami-4817d228**

Cancel and Exit

4. As the forth step Chose the instance type. And then click on **Review and launch** button to review the instance launch.

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)							
	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate

Cancel **Previous** **Review and Launch** **Next: Configure Instance Details**

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5. And then click on **Launch** button to launch the **instance**.

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details

Microsoft Windows Server 2012 R2 Base - ami-8d0acfed
Free tier eligible
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]
Root Device Type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Security Groups

Cancel Previous Launch

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6. Need to create a new key pair. For that click on **Choose on existing key pair** drop down list and select **Create a new key pair** option.

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

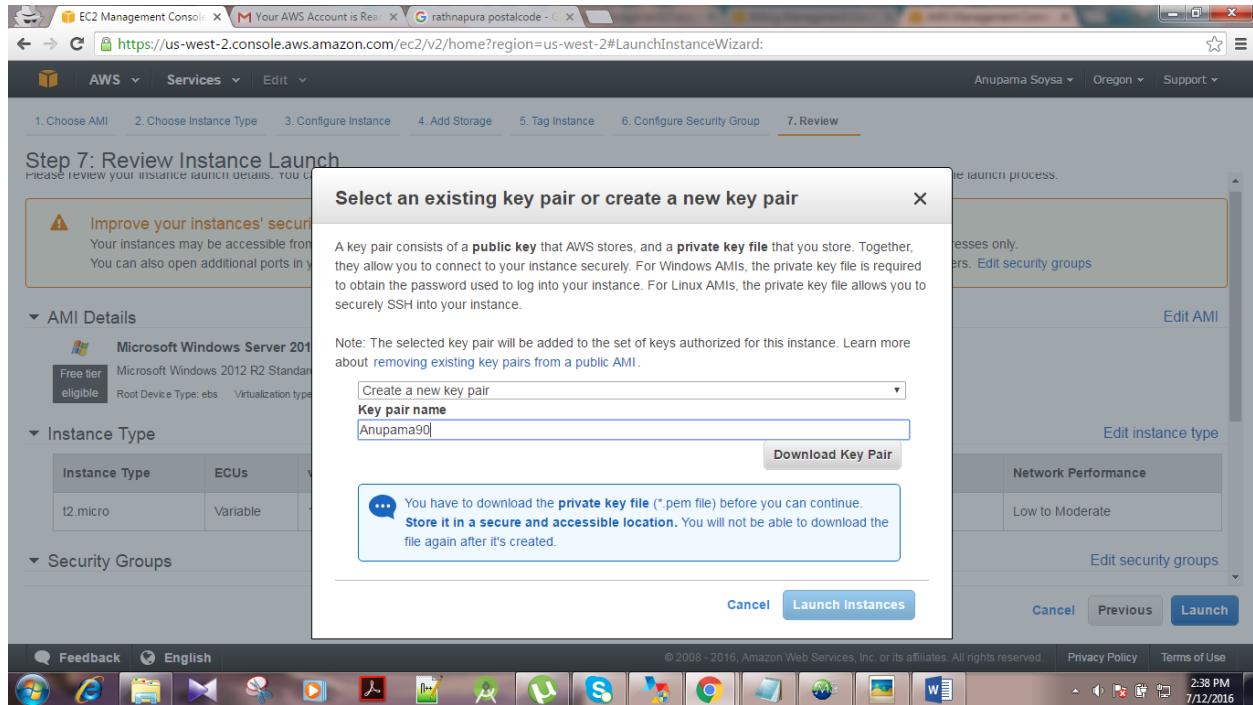
Choose an existing key pair
Choose an existing key pair
Create a new key pair
Proceed without a key pair

No key pairs found
You don't have any key pairs. Please create a new key pair by selecting the [Create a new key pair](#) option above to continue.

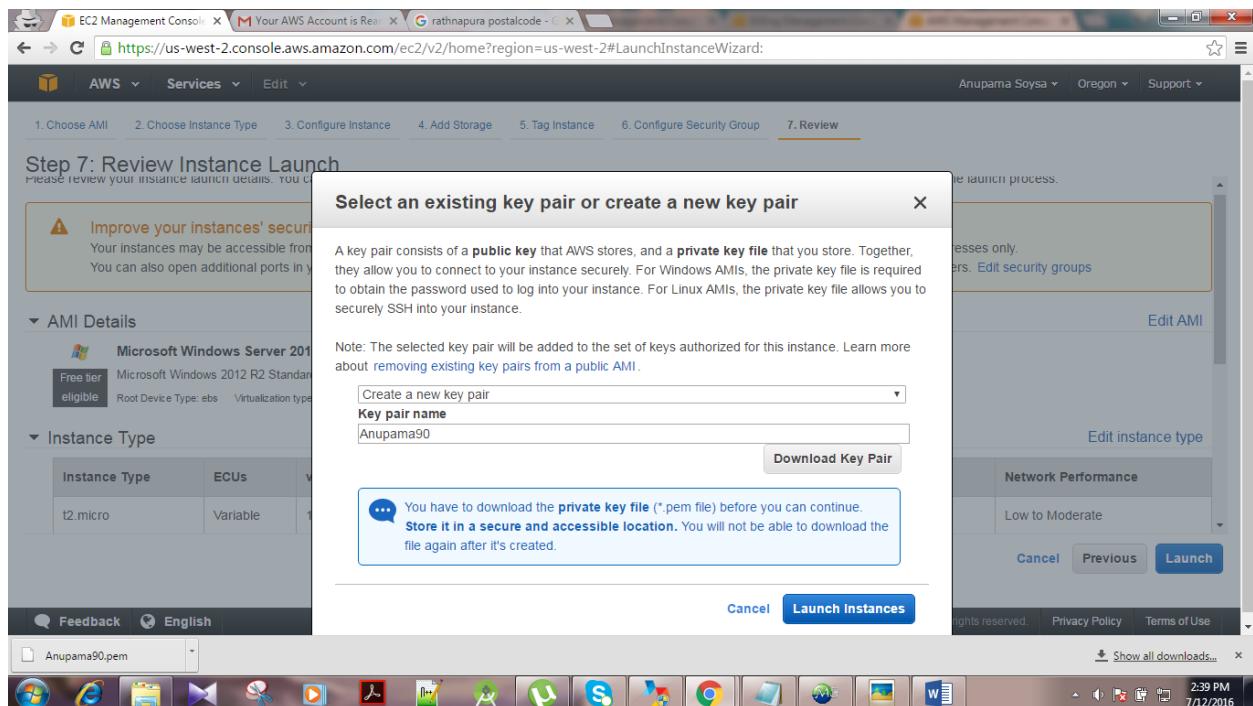
Cancel Launch Instances

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- Then give a name for a key pair. And then click on **Download Key Pair** button to download the file. (Anupama.pem type file)



- Now click on **Launch Instances** button.



9. Now can view the Launch Status. After that click on the **View Instance** button to view the instance.

Launch Status

Your instances are now launching
The following instance launches have been initiated: i-04cfb9b4a9dfb5932 [View launch log](#)

Get notified of estimated charges
Create billing alerts to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can [connect](#) to them from the Instances screen. [Find out](#) how to connect to your instances.

Here are some helpful resources to get you started

- [Amazon EC2: User Guide](#)
- [How to connect to your Windows instance](#)
- [Amazon EC2: Microsoft Windows Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

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Launch Status

How to connect to your instances

Your instances are launching, and it may take a few minutes until they are in the **running** state, when they will be ready for you to use. Usage hours on your new instances will start immediately and continue to accrue until you stop or terminate your instances.

Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can [connect](#) to them from the Instances screen. [Find out](#) how to connect to your instances.

Here are some helpful resources to get you started

- [Amazon EC2: User Guide](#)
- [How to connect to your Windows instance](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Microsoft Windows Guide](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
Create and attach additional EBS volumes (Additional charges may apply)
Manage security groups

[View Instances](#)

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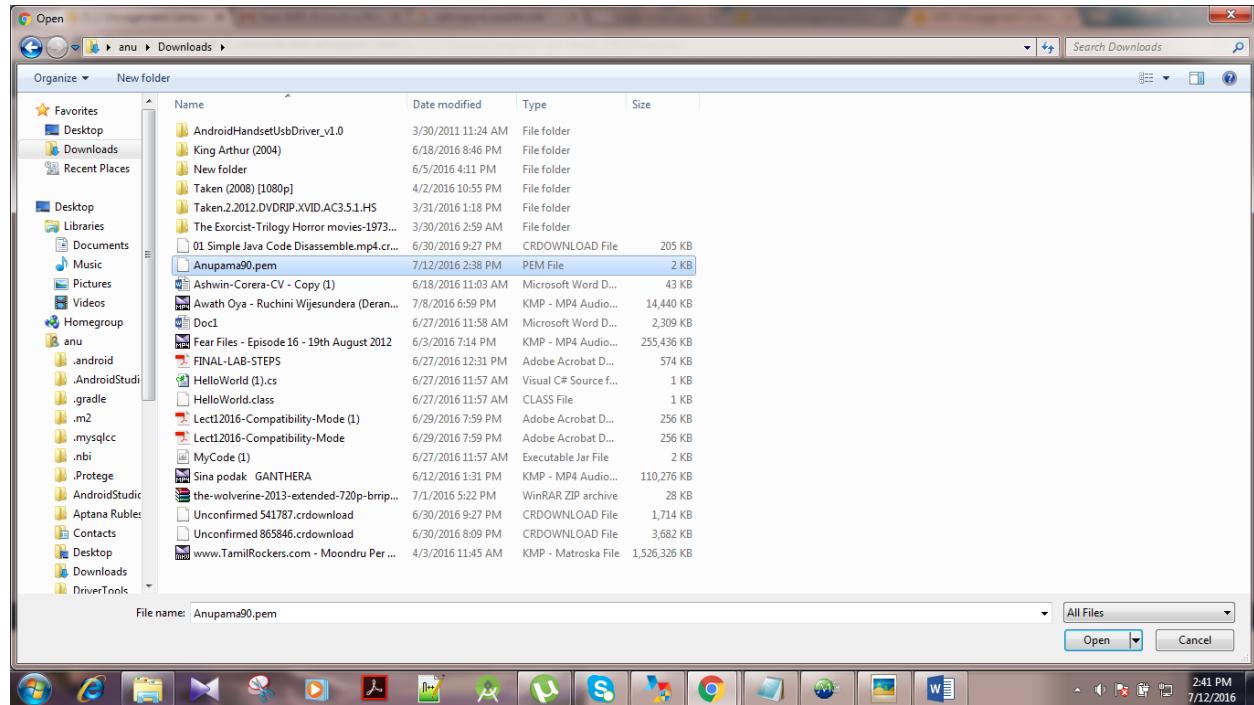
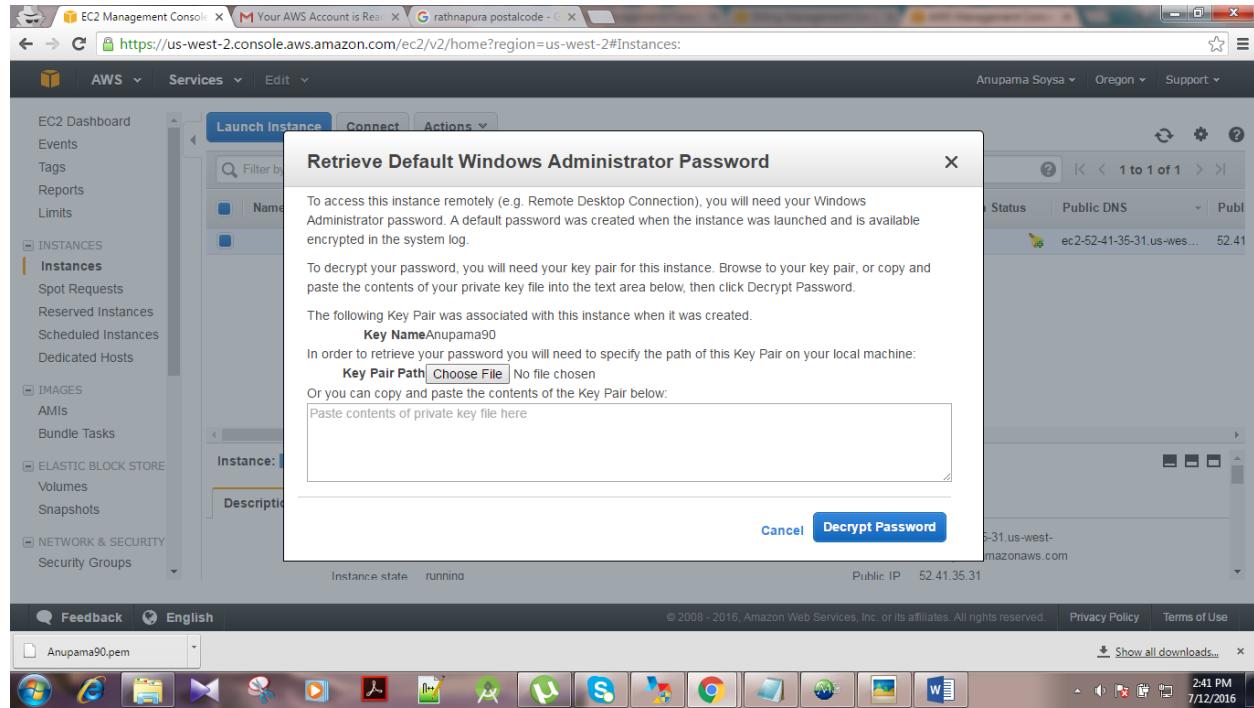
10. Now can see the Created instance.

The screenshot shows the AWS EC2 Management Console interface. On the left, there's a navigation sidebar with options like EC2 Dashboard, Events, Tags, Reports, Limits, Instances (which is selected), Images, AMIs, and more. The main content area displays a table of instances. One instance is listed: i-04cfb9b4a9dfb5932, t2.micro, us-west-2a, running, Initializing, None, ec2-52-41-35-31.us-west-2.compute.amazonaws.com, 52.41.35.31. Below the table, there's a detailed view for the selected instance. The status bar at the bottom shows the date and time as 7/12/2016 2:40 PM.

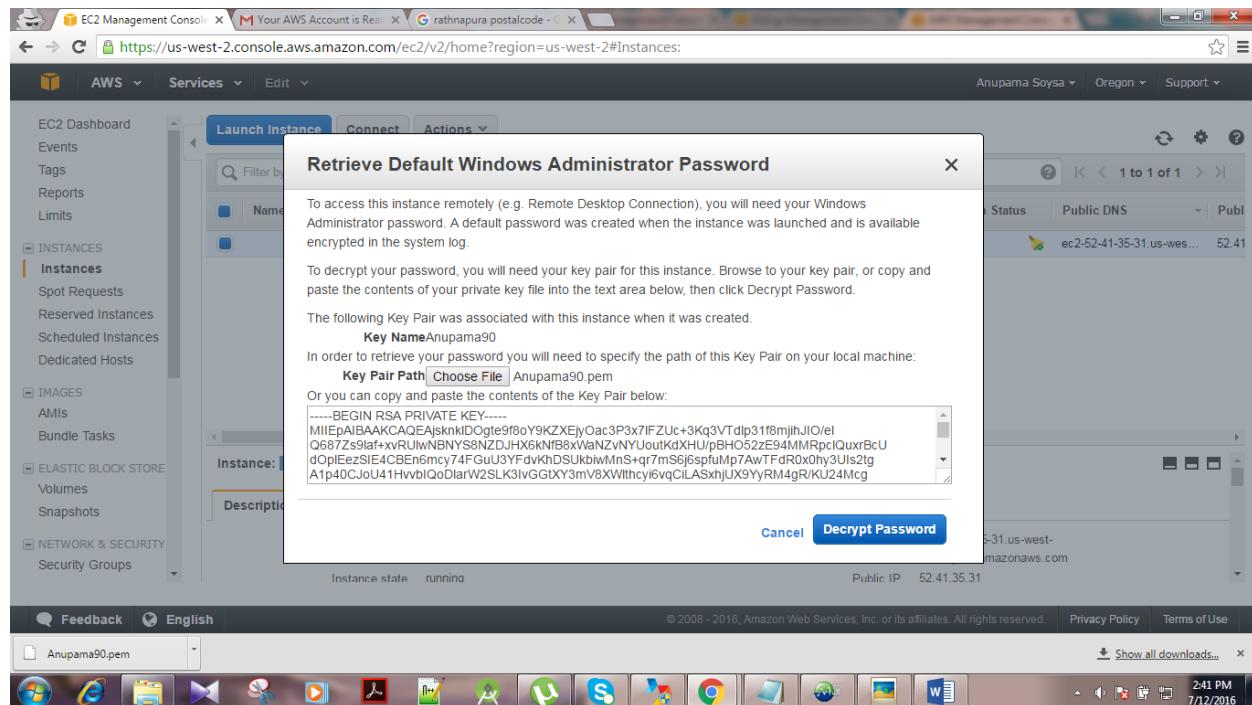
11. Now right click on the Instance Status and select the Get Windows Password.

This screenshot is similar to the previous one, showing the AWS EC2 Management Console. However, a context menu is open over the 'Status' column of the instance table. The menu items include Connect, Get Windows Password (which is highlighted in orange), Launch More Like This, Instance State, Instance Settings, Image, Networking, and CloudWatch Monitoring. The rest of the interface and status bar are identical to the first screenshot.

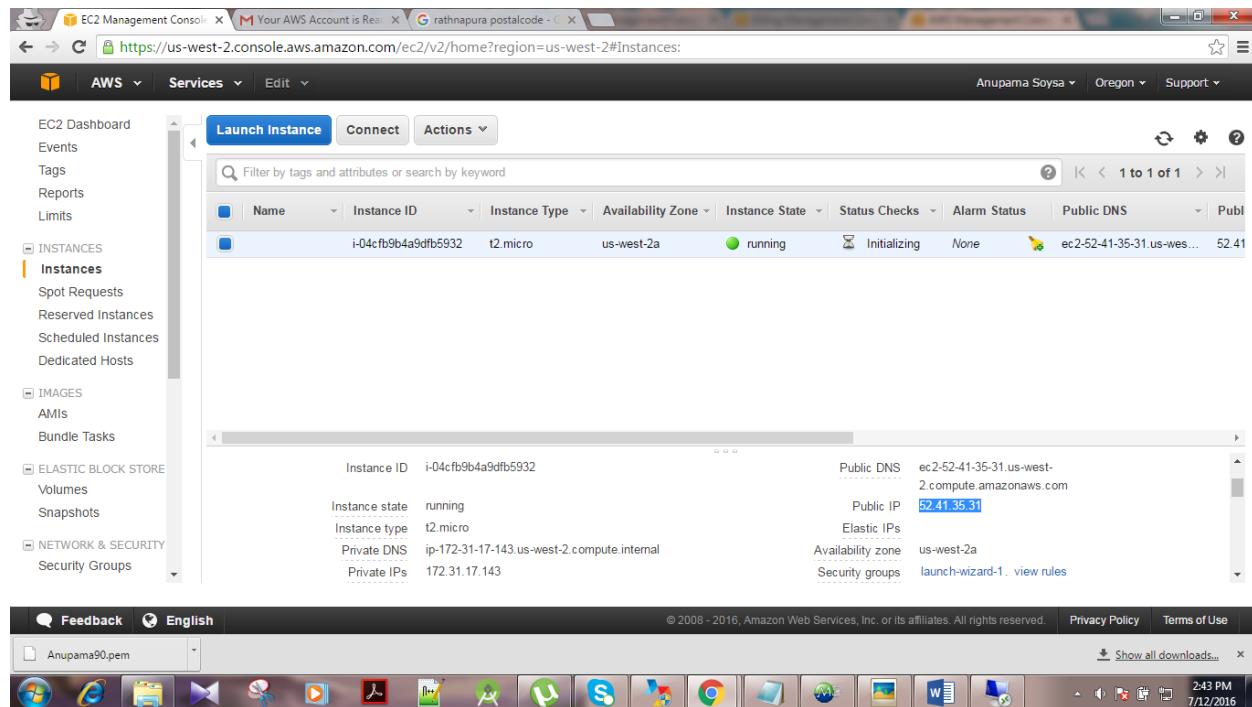
12. Now can get a popup window to retrieve default windows administrator password.
 And by clicking the **Choose File** button need to select the downloaded
 (Anupama.pem) file.

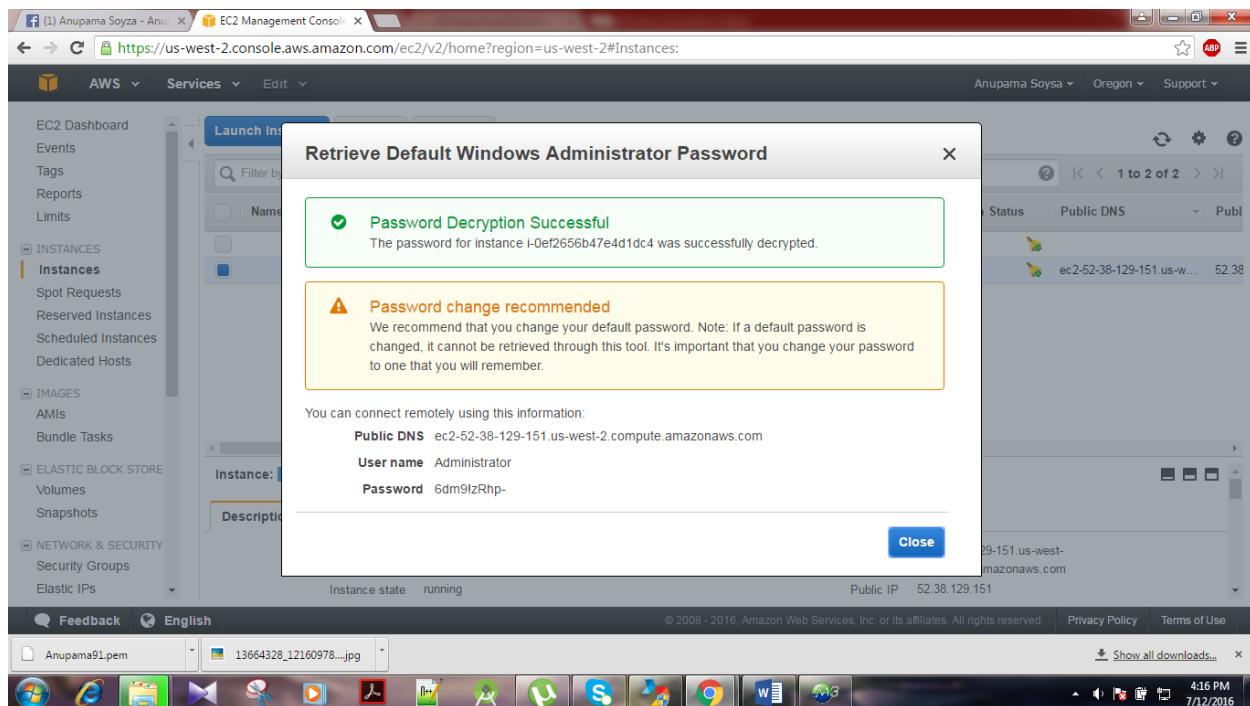


13. After choosing the file click on **Decrypt Password** button.

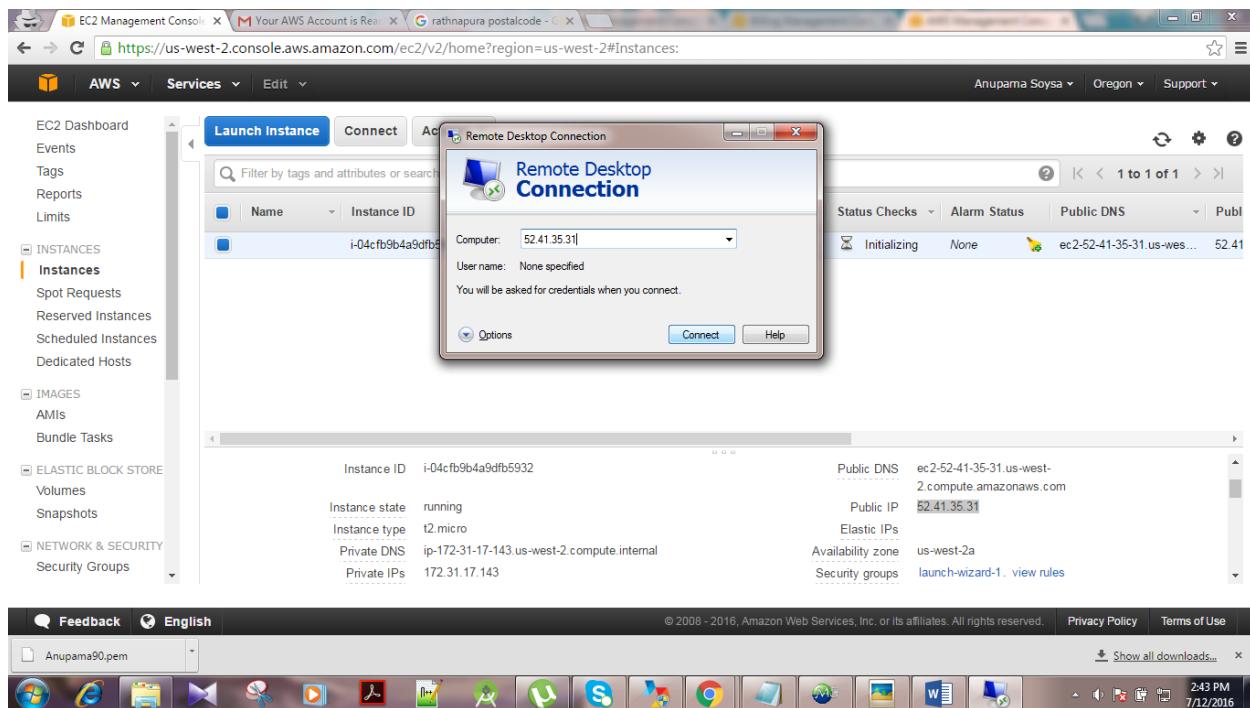


14. Now can get the User name and the password.

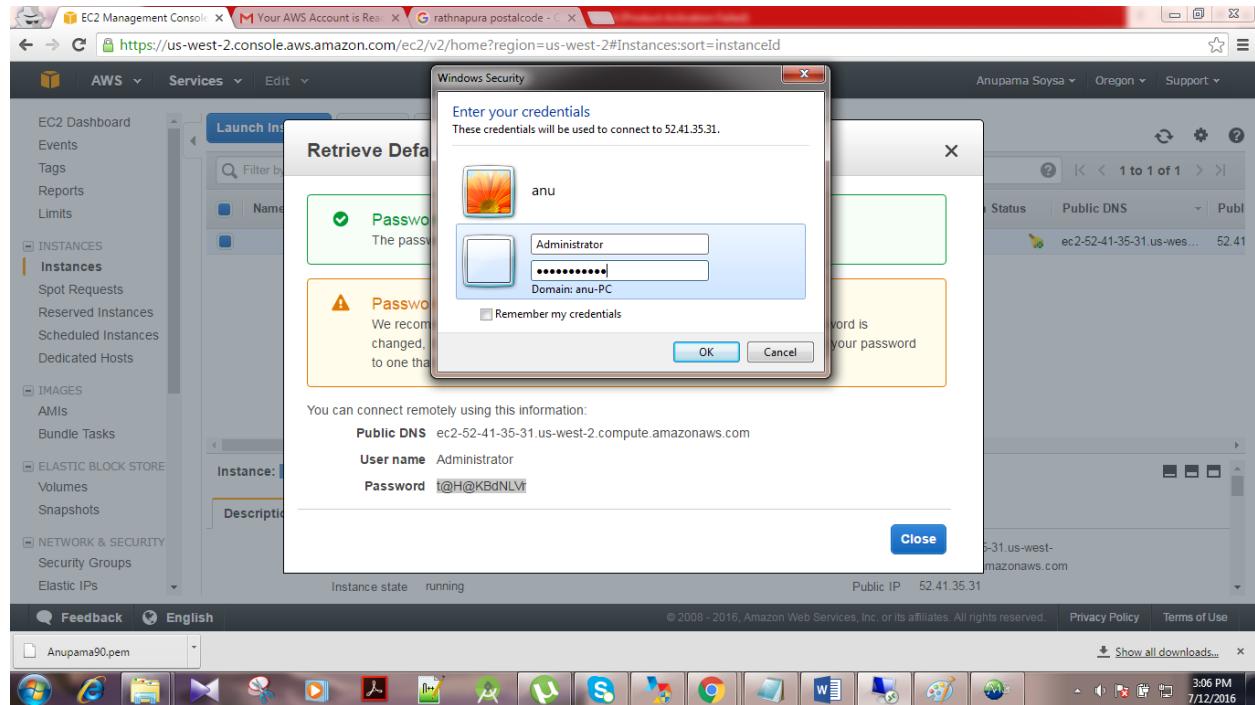




15. Now open the remote desktop connection of the lap top. Then give the public ip address of the created instance.

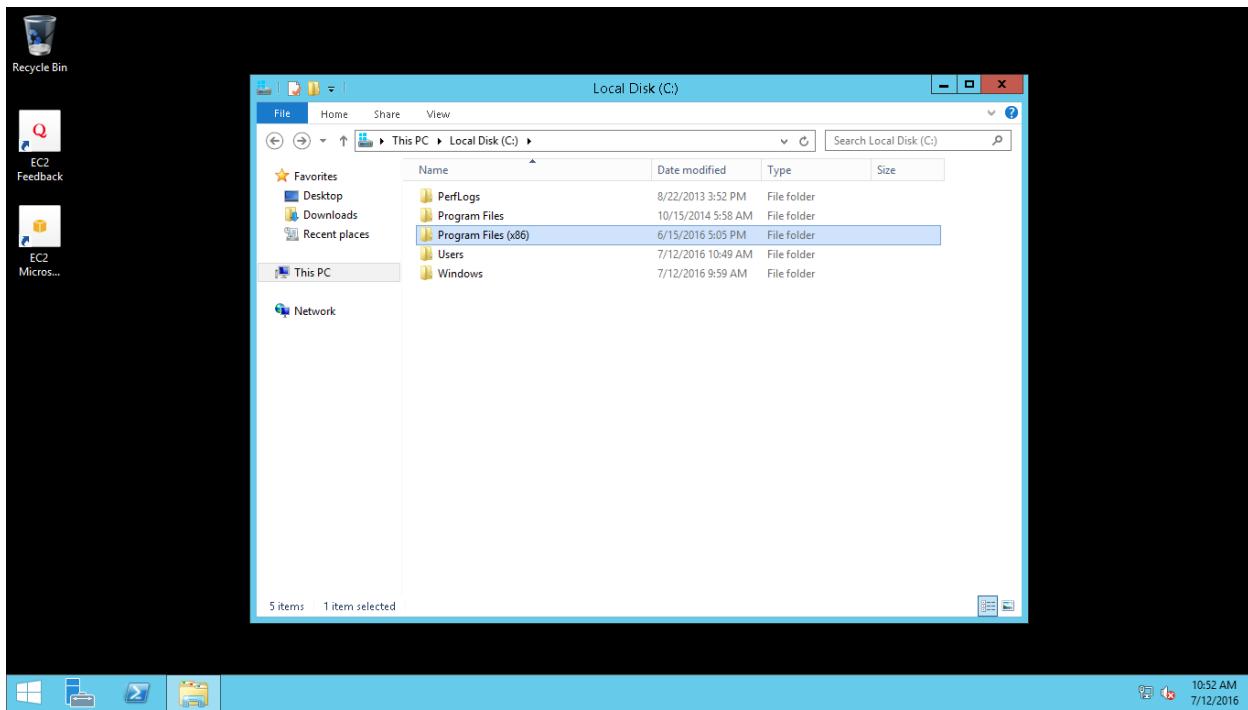


16. Here give the password and the username. And click on **OK** button to proceed.



17. Likewise we can get the windows operating system on our machine.





2). Creating an Amazon EBS-Backed Linux AMI.

1. Select the public EBS-backed AMI which uses the version of Linux Server. And then click on the **Launch Instance** button.

The screenshot shows the AWS EC2 Management Console interface. The left sidebar has a tree view with nodes like EC2 Dashboard, Instances, Images, and Elastic Block Store. The main content area displays 'Resources' with a summary of current usage: 0 Running Instances, 0 Dedicated Hosts, 0 Volumes, 2 Key Pairs, 0 Elastic IPs, 0 Snapshots, 0 Load Balancers, and 3 Security Groups. Below this is a section for 'Create Instance' with a 'Launch Instance' button. To the right, there's an 'Account Attributes' panel showing 'Supported Platforms' (VPC), 'Default VPC' (vpc-e0e9ad84), and 'Resource ID length management'. Another panel titled 'Additional Information' includes links to 'Getting Started Guide', 'Documentation', 'All EC2 Resources', 'Forums', 'Pricing', and 'Contact Us'. At the bottom, there's an 'AWS Marketplace' section with a note about finding software trial products. The footer includes standard browser controls and a status bar showing the date and time.

2. Now chose an Amazon machine image for Linux.

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Cancel and Exit

Quick Start

My AMIs

Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611
Amazon Linux Free tier eligible The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
Root device type: ebs Virtualization type: hvm Select 64-bit

Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type - ami-775e4f16
Red Hat Red Hat Enterprise Linux version 7.2 (HVM), EBS General Purpose (SSD) Volume Type
Root device type: ebs Virtualization type: hvm Select 64-bit

SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type - ami-d2627db3
SUSE Linux SUSE Linux Enterprise Server 12 Service Pack 1 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.
SUSE Linux Select 64-bit

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3. As the forth step Chose the instance type. And then click on **Review and launch** button to review the instance launch.

Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)						
Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate
General purpose	t2.small	1	2	EBS only	-	Low to Moderate
General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
General purpose	t2.large	2	8	EBS only	-	Low to Moderate

Cancel Previous Review and Launch Next: Configure Instance Details

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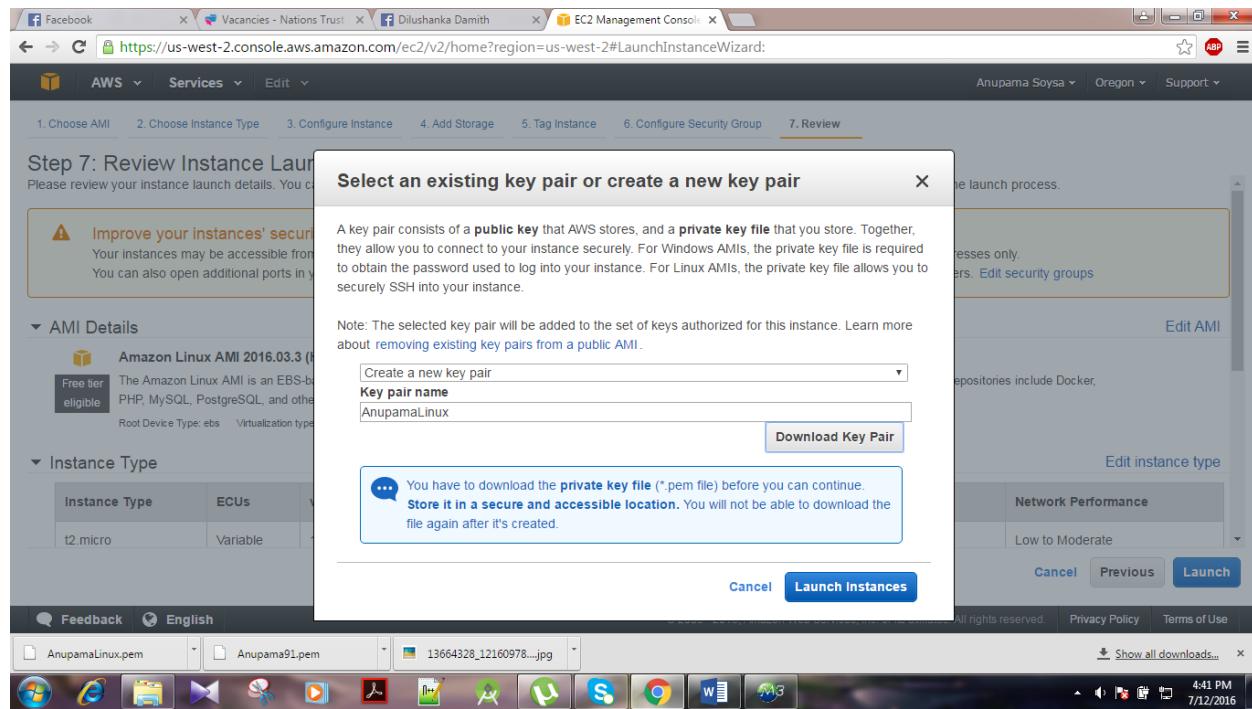
4. And then click on **Launch** button to launch the instance.

The screenshot shows the AWS EC2 Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The page is titled "Step 7: Review Instance Launch". It displays the configuration details for launching an instance, including the AMI, instance type, and security group. A prominent orange box highlights a warning about the security group being open to the world. At the bottom right, there is a "Launch" button.

5. Need to create a new key pair. For that click on **Choose on existing key pair** drop down list and select Create a new key pair option.

The screenshot shows the AWS EC2 Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The "Select an existing key pair or create a new key pair" dialog box is open, showing the "Create a new key pair" option selected. The dialog also contains instructions about downloading the private key file. The background shows the same instance launch configuration as the previous screenshot.

6. Then give a name for a key pair. And then click on **Download Key Pair** button to download the file. (AnupamaLinux.pem type file). Now click on **Launch Instances** button.

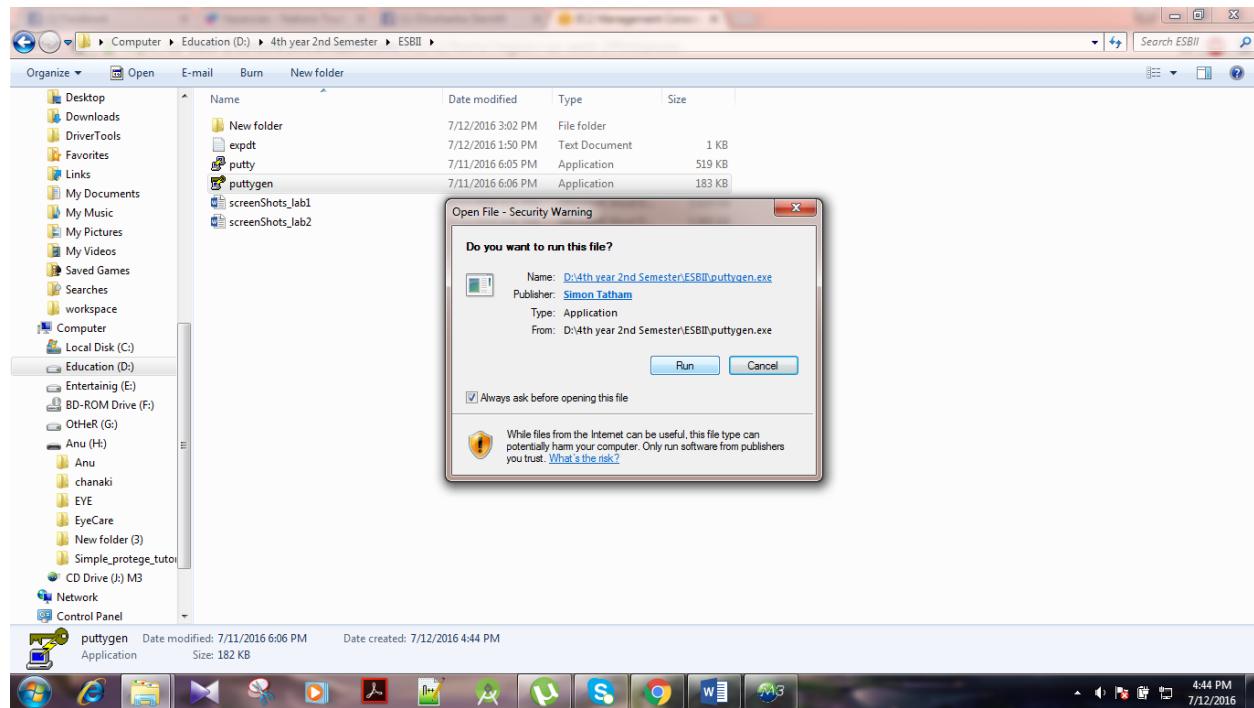


7. Now can see the Created instance.

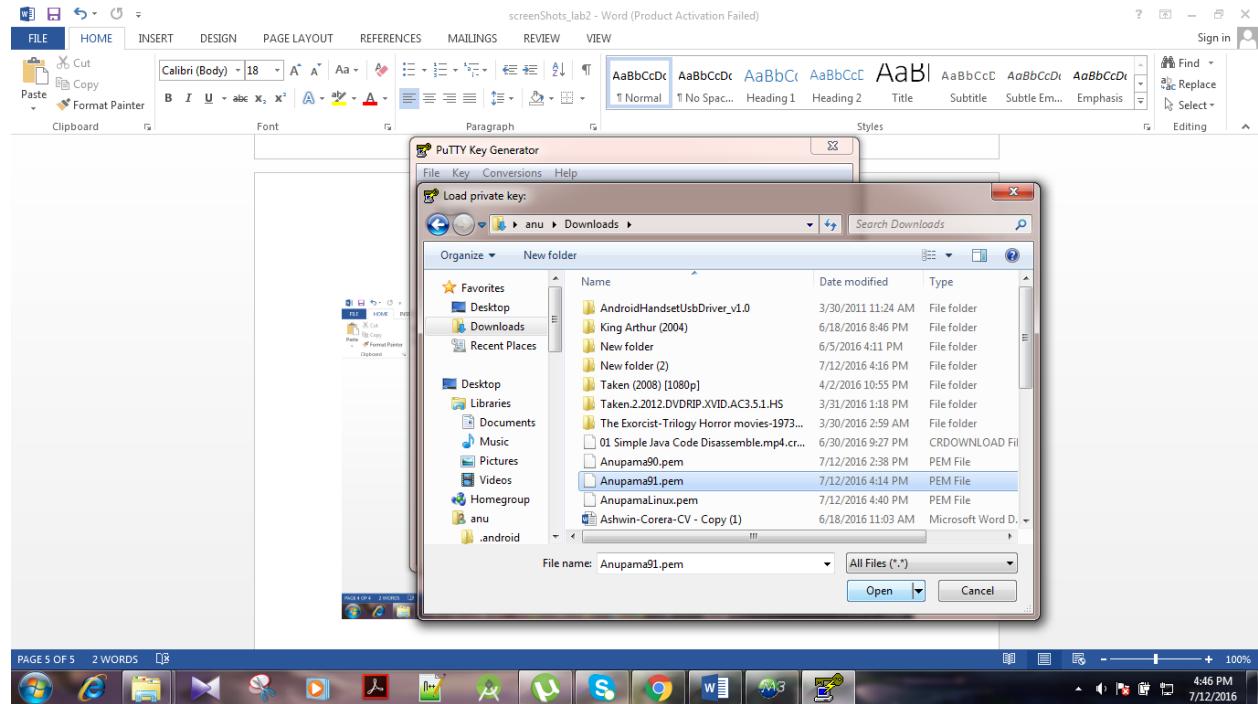
The screenshot shows a web browser window with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The browser tabs include Facebook, Vacancies - Nations Trust, Dilushanka Damith, and EC2 Management Console. The EC2 Management Console tab is active. The main content area is titled "Launch Status". It contains a message about creating billing alerts and a section titled "How to connect to your instances". Below this, there's a list of helpful resources under "Here are some helpful resources to get you started". At the bottom, there are links for creating status check alarms, attaching EBS volumes, and managing security groups. A blue button labeled "View Instances" is visible. The browser interface includes standard navigation buttons, a search bar, and a status bar at the bottom showing the date and time (4:41 PM, 7/12/2016).

8. Now need to install PUTTY and PUTTYGEN software on the machine. At first install the PUTTYGEN.

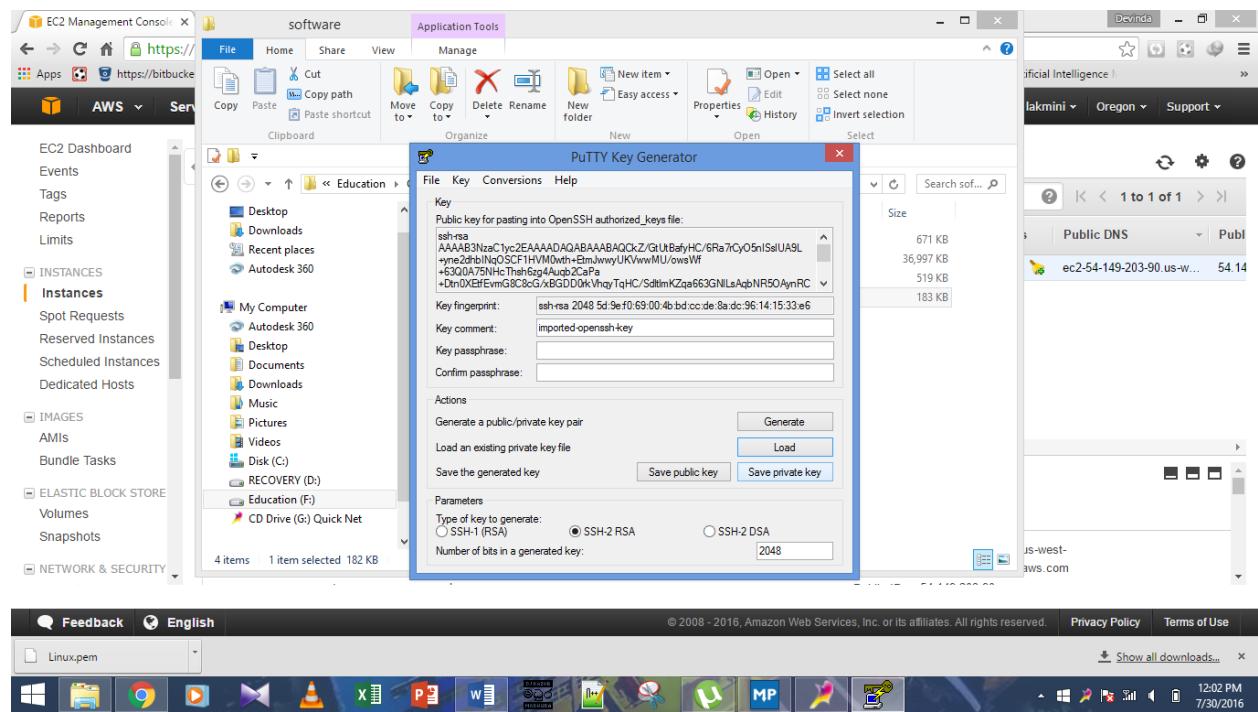
Install PUTTYGEN.

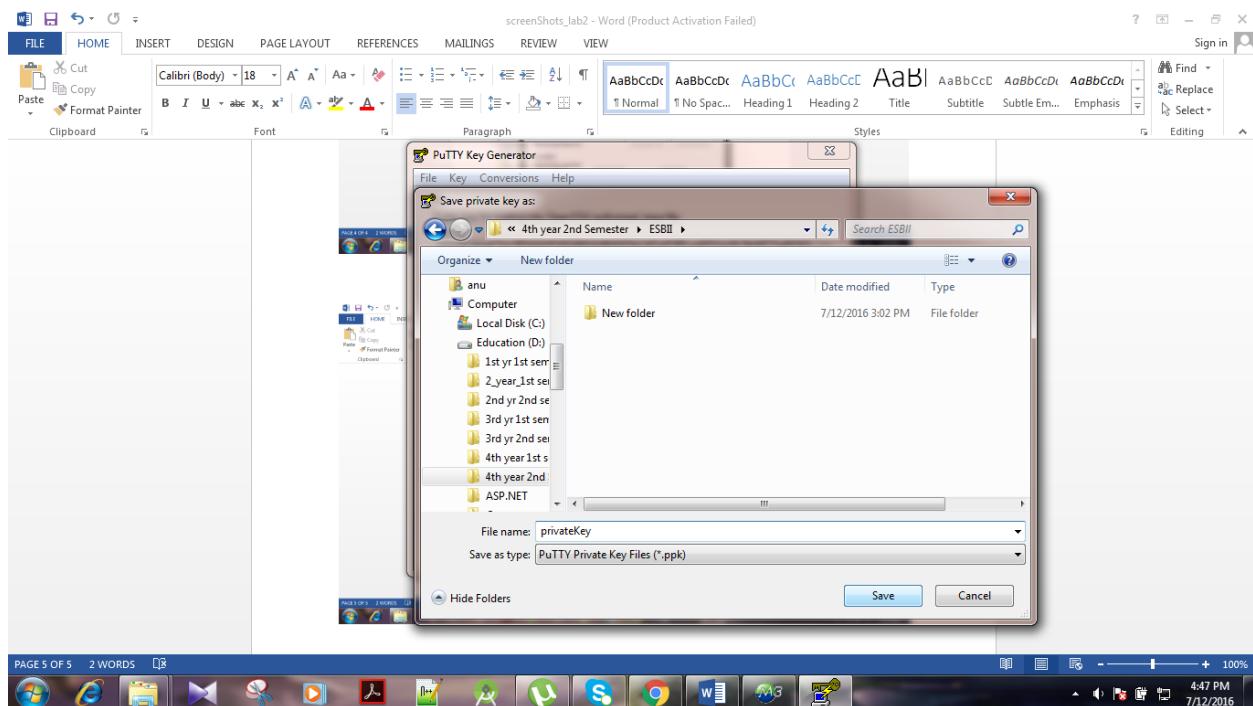


Here in this window need to click on the **Load** button and browse to the downloaded key file. (AnupamaLinux.pem).

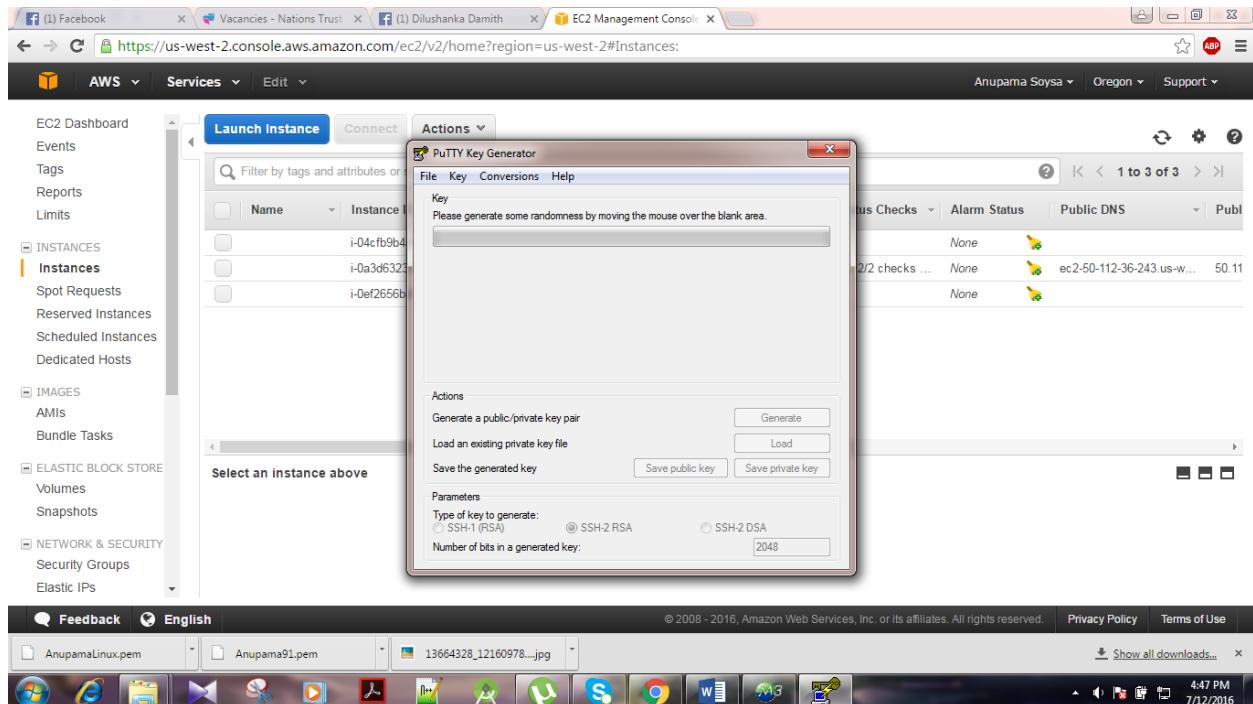


then need to click on Save Private Key button and then give a location to save the private key. (privateKey.ppk)

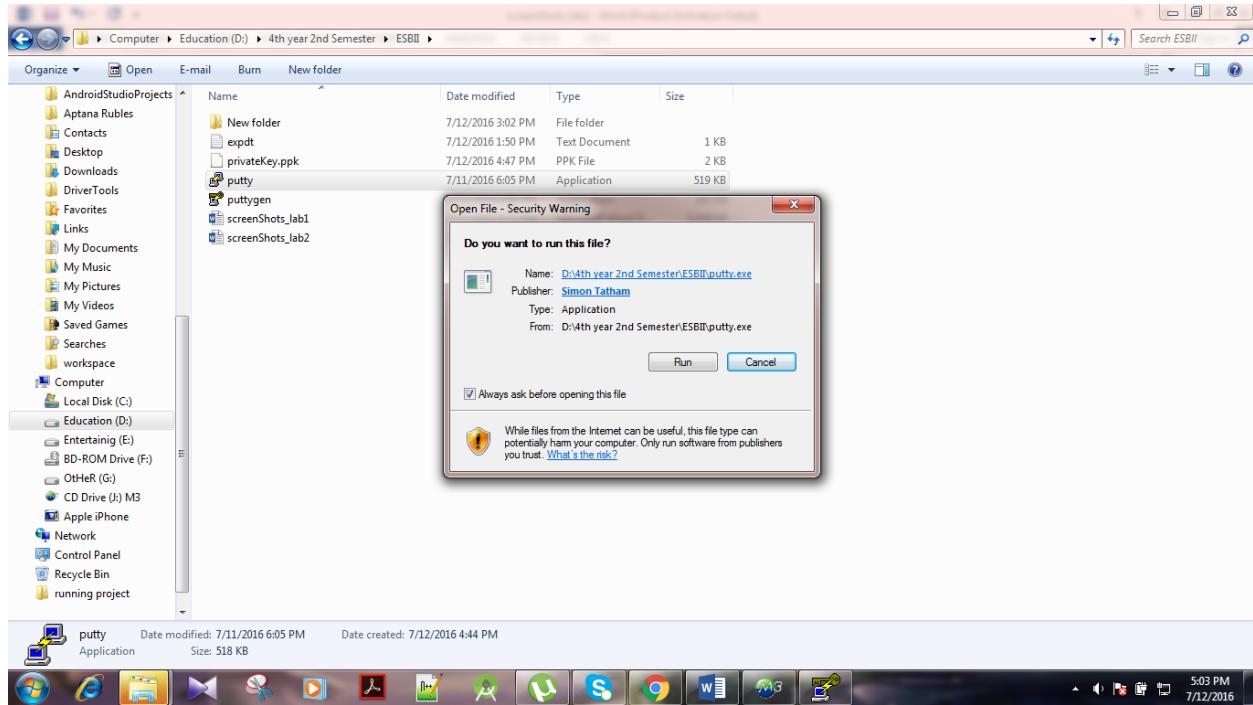




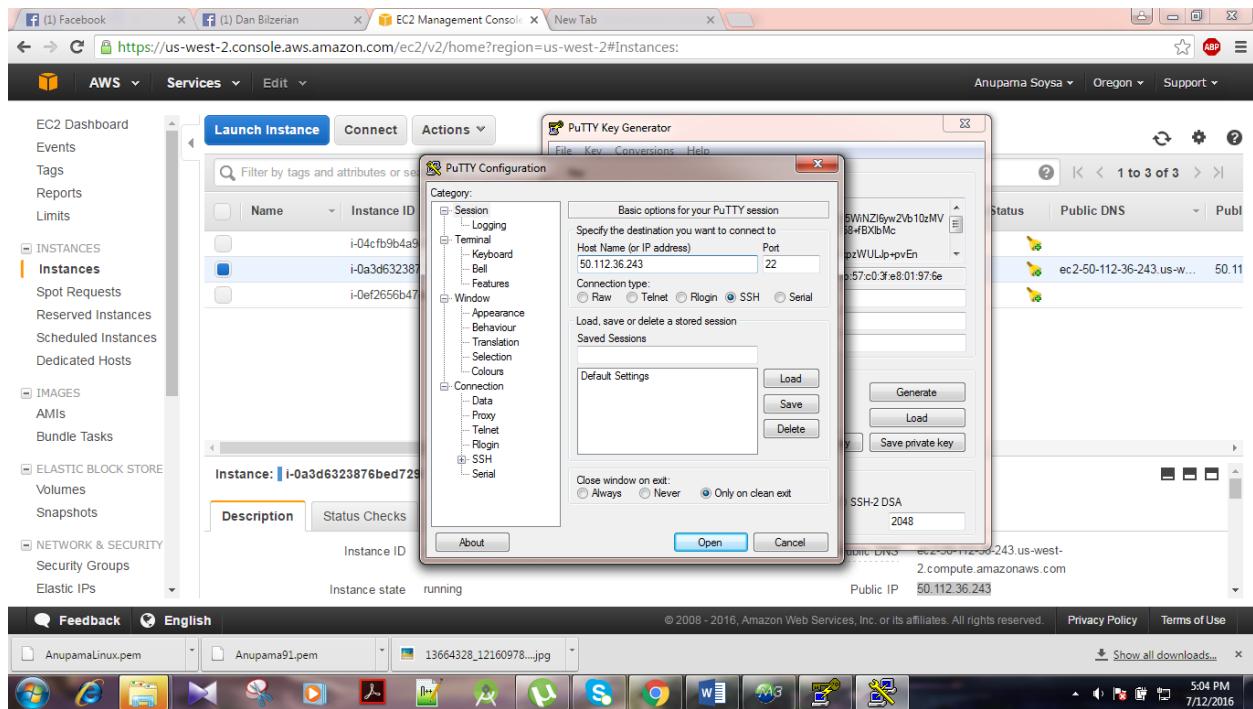
Now click on **Generate** button.



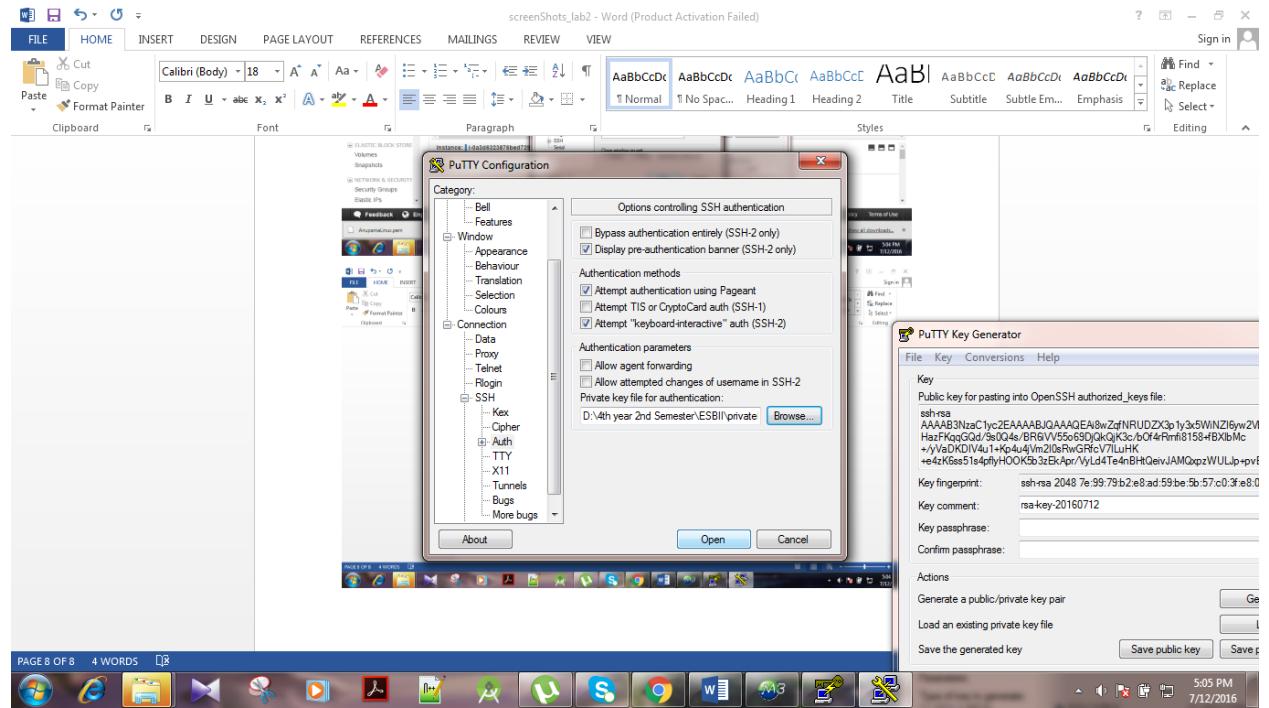
Install PUTTY



In this window select **Session** option and give the ip address of the created instance.



And select the Auth option and click on **Browse** button to load the saved private key file. (privateKey.ppk)



And click on Open button. Then it will open the Linux AMI. Now need to give **ec2-user** command as login. Here can run the Linux commands as ls -al.

```
ec2-user@ip-172-31-24-16:~ - □ ×

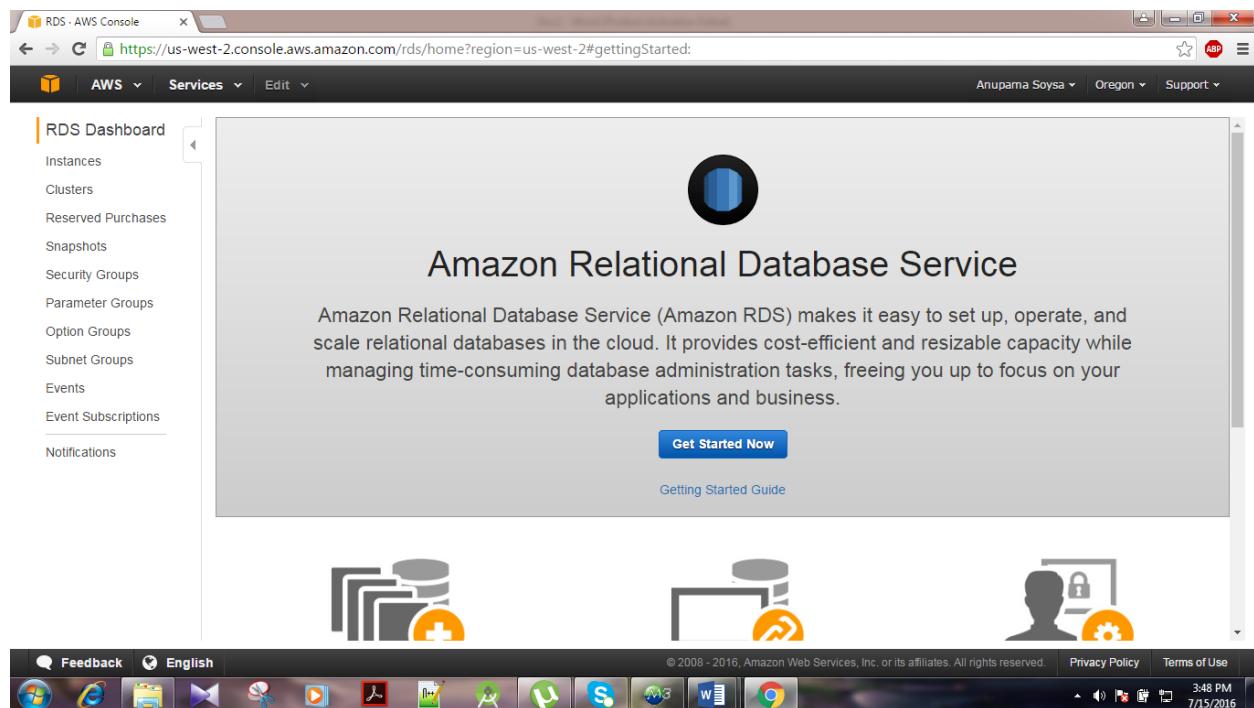
login as: ec2-user
Authenticating with public key "imported-openssh-key"

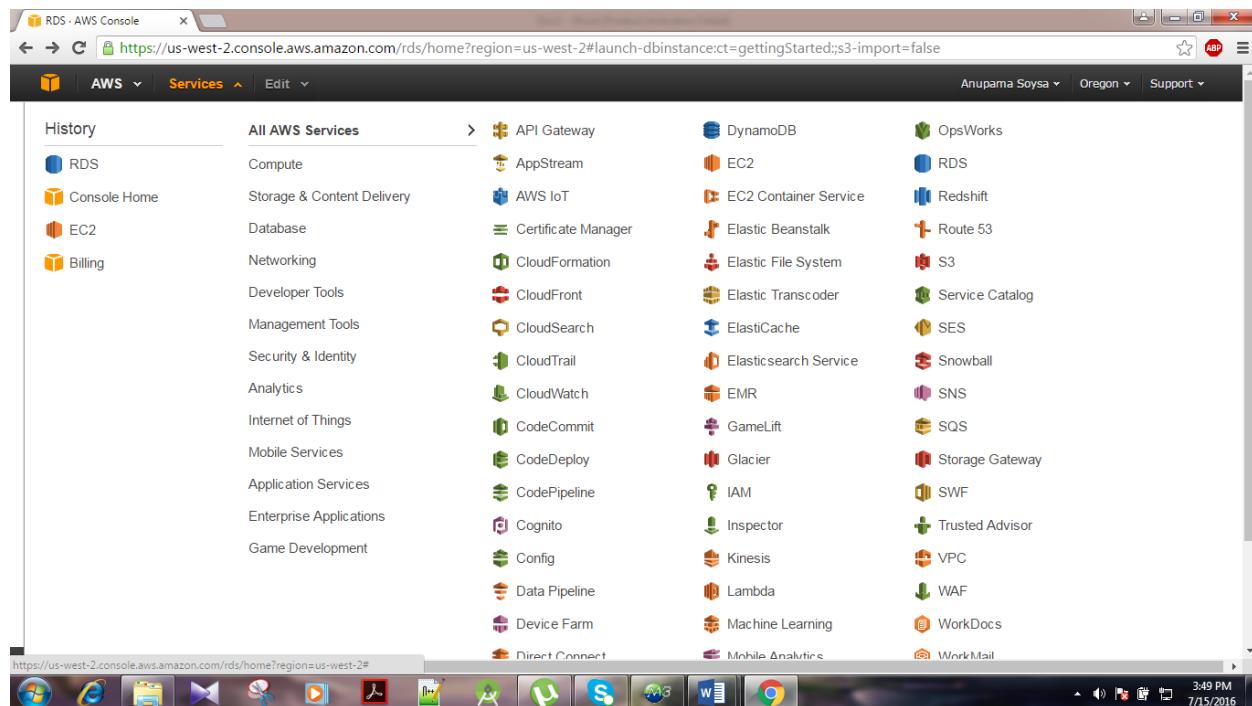
  _\|_ / _\|_
  \_| ( _\|_ /   Amazon Linux AMI
    \|_\|_\|_\\

https://aws.amazon.com/amazon-linux-ami/2016.03-release-notes/
4 package(s) needed for security, out of 13 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-24-16 ~]$ ls
[ec2-user@ip-172-31-24-16 ~]$ ls -al
total 24
drwx----- 3 ec2-user ec2-user 4096 Jul 13 16:26 .
drwxr-xr-x  3 root     root     4096 Jul 13 16:26 ..
-rw-r--r--  1 ec2-user ec2-user    18 Feb 19 20:05 .bash_logout
-rw-r--r--  1 ec2-user ec2-user  193 Feb 19 20:05 .bash_profile
-rw-r--r--  1 ec2-user ec2-user   124 Feb 19 20:05 .bashrc
drwx----- 2 ec2-user ec2-user 4096 Jul 13 16:26 .ssh
[ec2-user@ip-172-31-24-16 ~]$
```

3) Creating a MySQL DB Instance and Connecting to a Database on a MySQL DB Instance.

1. In the Amazon RDS console, choose the region in which you want to create the DB instance. Then choose Instances. Choose Launch DB Instance. Then **Launch DB Instance**.





The screenshot shows the RDS Dashboard for Aurora. The left sidebar lists navigation options: Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups, Events, Event Subscriptions, and Notifications. The main content area features a callout for 'Amazon RDS for Aurora', stating it's a MySQL-compatible, enterprise-class database at 1/10th the cost of commercial databases, supporting up to 15 low-latency read replicas, 64TB of auto-scaling storage capacity, and 6-way replication across three availability zones. It also notes that Aurora is available in US East (N. Virginia), US West (Oregon), EU (Ireland), Asia Pacific (Tokyo), Asia Pacific (Sydney), Asia Pacific (Seoul) and Asia Pacific (Mumbai). Below this, the 'Resources' section displays usage details for DB Instances, Allocated Storage, Reserved DB Purchases, Snapshots, Recent Events, and Event Subscriptions, along with Parameter Groups, Option Groups, Subnet Groups, and Supported Platforms (VPC). The 'Additional Information' section links to 'Getting Started with RDS', 'Overview and Features', 'Documentation', 'Articles and Tutorials', 'Data import guide for MySQL', 'Data import guide for Oracle', 'Data import guide for SQL Server', 'Pricing', and 'Forums'. The 'Related Services' section links to 'Amazon ElastiCache', which is described as a managed Redis or Memcached-compatible in-memory cache to speed up database access. The bottom of the page includes standard footer links for 'Privacy Policy' and 'Terms of Use'.

2. Choose the **MySQL icon** and then choose **Select** for the MySQL DB engine.

The screenshot shows the AWS RDS console with the URL <https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted>. The user is at Step 1: Select Engine. A sidebar on the left lists database engines: Amazon Aurora, MySQL (selected), MariaDB, PostgreSQL, Oracle, and Microsoft SQL Server. The MySQL section contains a brief description and a 'Select' button. The bottom of the screen shows the Windows taskbar with various icons and the date/time as 3:50 PM 7/15/2016.

The screenshot shows the AWS RDS console at Step 2: Production?. It asks, "Do you plan to use this database for production purposes?". Two options are shown: "Production" (selected) and "Dev/Test". The "Production" section is labeled "Recommended" and describes Amazon Aurora as a MySQL-compatible, enterprise-class database at 1/10th the cost of commercial databases. The "Dev/Test" section describes MySQL as being intended for use outside of production or under the RDS Free Usage Tier. The bottom of the screen shows the Windows taskbar with various icons and the date/time as 3:51 PM 7/15/2016.



3. Here need to give DB instance information.

The screenshot shows the 'Specify DB Details' step in the AWS RDS console. The left sidebar lists steps: Step 1: Select Engine, Step 2: Production?, Step 3: Specify DB Details (highlighted in blue), and Step 4: Configure Advanced Settings. The main content area is titled 'Specify DB Details' under 'Free Tier'. It includes a note about the Free Tier, a checkbox for 'Only show options that are eligible for RDS Free Tier', and a 'Known Issues/Limitations' callout. The 'Instance Specifications' section contains fields for DB Engine (mysql), License Model (general-public-license), DB Engine Version (5.6.27), DB Instance Class (- Select One -), Multi-AZ Deployment (- Select One -), Storage Type (- Select One -), and Allocated Storage* (set to 5 GB). The status bar at the bottom shows the date and time as 7/15/2016 3:52 PM.

4. Here on the Configure Advanced Settings page, provide the correct information.

The screenshot shows the 'Configure Advanced Settings' step in the AWS RDS console. The left sidebar lists steps: Step 1: Select Engine, Step 2: Production?, Step 3: Specify DB Details, and Step 4: Configure Advanced Settings (highlighted in blue). The main content area is titled 'Configure Advanced Settings' under 'Network & Security'. It includes fields for VPC (Default VPC (vpc-e0e9ad84)), Subnet Group (cloudacademy), Publicly Accessible (No), Availability Zone (No Preference), and VPC Security Group(s) (Create new Security Group, default (VPC), launch-wizard-1 (VPC), launch-wizard-2 (VPC)). A note on the right explains the DB subnet group. The 'Database Options' section includes fields for Database Name (empty), Database Port (3306), DB Parameter Group (default.mysql5.6), and Option Group (default:mysql-5.6). The status bar at the bottom shows the date and time as 7/15/2016 3:57 PM.

- And then launch the MySQL DB instance by clicking the **Launch DB Instance** button.

The screenshot shows the 'Launch DB Instance' wizard in the AWS RDS console. The configuration includes:

- DB Parameter Group:** default.mysql5.6
- Option Group:** default:mysql-5-6
- Backup:** A note states: "Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to detail [here](#)." Below it, the **Backup Retention Period** is set to 0 days, with a note: "A backup retention period of zero days will disable automated backups for this DB instance."
- Maintenance:** Auto Minor Version Upgrade is set to Yes.

At the bottom, there are buttons for * Required, Cancel, Previous, and **Launch DB Instance**.

- Here can see the instance.

The screenshot shows the 'Instances' page in the AWS RDS console. The left sidebar lists various RDS resources. The main area displays the following details for the instance 'anuDB':

Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication Role
MySQL	anuDB	creating				db.m1.small	vpc-e0e9ad84	No	

At the bottom, there are buttons for Feedback, English, Privacy Policy, Terms of Use, and navigation icons.

RDS Dashboard

Instances

Clusters

Reserved Purchases

Snapshots

Security Groups

Parameter Groups

Option Groups

Subnet Groups

Events

Event Subscriptions

Notifications 1

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. Now need to create the subnet group.

RDS Dashboard

Instances

Clusters

Reserved Purchases

Snapshots

Security Groups

Parameter Groups

Option Groups

Subnet Groups

Events

Event Subscriptions

Notifications

Create DB Subnet Group Edit Delete

Filter: Search DB Subnet Groups X No DB Subnet Groups

Name	Description	Status	VPC
No records found.			

Feedback English

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RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#db-subnet-groups:

AWS Services Edit Anupama Soysa Oregon Support

RDS Dashboard Instances Clusters Reserved Purchases Snapshots Security Groups Parameter Groups Option Groups Subnet Groups Events Event Subscriptions Notifications

Create DB Subnet Group

To create a new Subnet Group give it a name, description, and select an existing VPC below. Once you select an existing VPC, you will be able to add subnets related to that VPC.

Name: cloudacedemy
Description: rds Lab
VPC ID: vpc-e0e9ad84

Add Subnet(s) to this Subnet Group. You may add subnets one at a time below or [add all the subnets](#) related to this VPC. You may make additions/edits after this group is created. A minimum of 2 subnets is required.

Availability Zone: Select One
Subnet ID: Select One - Add

Availability Zone	Subnet ID	CIDR Block	Action
us-west-2a	subnet-c3c8bda7	172.31.16.0/20	Remove
us-west-2b	subnet-f11f9387	172.31.32.0/20	Remove

Cancel Create

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8. Next step is to create the Security group.

RDS - AWS Console EC2 Management Console

https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#SecurityGroups:sort=groupId

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EC2 Dashboard Events Tags Reports Limits

INSTANCES Instances Spot Requests Reserved Instances Scheduled Instances Dedicated Hosts

IMAGES AMIs Bundle Tasks

ELASTIC BLOCK STORE Volumes Snapshots

NETWORK & SECURITY Security Groups Elastic IPs Placement Groups Key Pairs

Create Security Group

Security group name: sGroup
Description: rds
VPC: vpc-e0e9ad84 (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

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9. Now in here can see the created Security key.

The screenshot shows the AWS EC2 Management Console interface. On the left, there's a navigation sidebar with links like EC2 Dashboard, Instances, AMIs, and Network & Security. Under Network & Security, 'Security Groups' is selected. The main area displays a table of security groups with columns: Name, Group ID, Group Name, VPC ID, and Description. One row is highlighted with a blue background, showing 'sg-8785f5e1' as the Group ID, 'sGroup' as the Group Name, 'vpc-e0e9ad84' as the VPC ID, and 'rds' as the description. Below the table, a detailed view for the selected security group ('sg-8785f5e1') is shown, including tabs for Description, Inbound, Outbound, and Tags. The 'Description' tab shows the group name as 'sGroup' and the group ID as 'sg-8785f5e1'. The 'Tags' tab is currently empty. At the bottom of the page, there's a standard Windows-style taskbar with icons for various applications like File Explorer, Internet Explorer, and Google Chrome.

The screenshot shows the AWS RDS Management Console interface. On the left, there's a navigation sidebar with links like RDS Dashboard, Instances, Clusters, and Security Groups. Under RDS Dashboard, 'Instances' is selected. The main area displays a table of DB instances with columns: Engine, DB Instance, Status, CPU, Current Activity, Maintenance, Class, VPC, Multi-AZ, and Replicat. One row is highlighted with a blue background, showing 'MySQL' as the Engine, 'anudb' as the DB Instance, 'available' as the Status, and 'db.m1.small' as the Class. The VPC column shows 'vpc-e0e9ad84'. At the bottom of the page, there's a standard Windows-style taskbar with icons for various applications like File Explorer, Internet Explorer, and Google Chrome. A download progress bar for 'msvcrt120.dll.zip' is visible in the taskbar.

Screenshot of the AWS RDS Dashboard showing the monitoring interface for a MySQL database instance named 'anudb'.

The dashboard includes a sidebar with links for Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups, Events, Event Subscriptions, and Notifications.

The main content area shows the following details:

- DB Instance:** MySQL, anudb, available, 3.00% CPU usage, 0 Connections, None Maintenance, db.m1.small Class, VPC vpc-e0e9ad84, No Multi-AZ, Replicat.
- Endpoint:** anudb.cwmpoj3eq3b.us-west-2.rds.amazonaws.com:3306 (authorized)
- Alarms and Recent Events:** Shows two events: "DB instance created" on Jul 15 4:15 PM and "DB instance restarted" on Jul 15 4:14 PM.
- Monitoring:** Real-time metrics for CPU (2.67%), Memory (1,170 MB), Storage (4,540 MB), Read IOPS (0/sec), Write IOPS (0.117/sec), and Swap Usage (0 MB).

The bottom of the screen shows the Windows taskbar with various pinned icons and the date/time (5:09 PM, 7/15/2016).