

Sri Lanka Institute of Information Technology



Enterprise Standards and Best Practices for IT Infrastructure

Creating Windows and Linux AMI instance using AWS

Lab 01

Reg No: - IT13074296

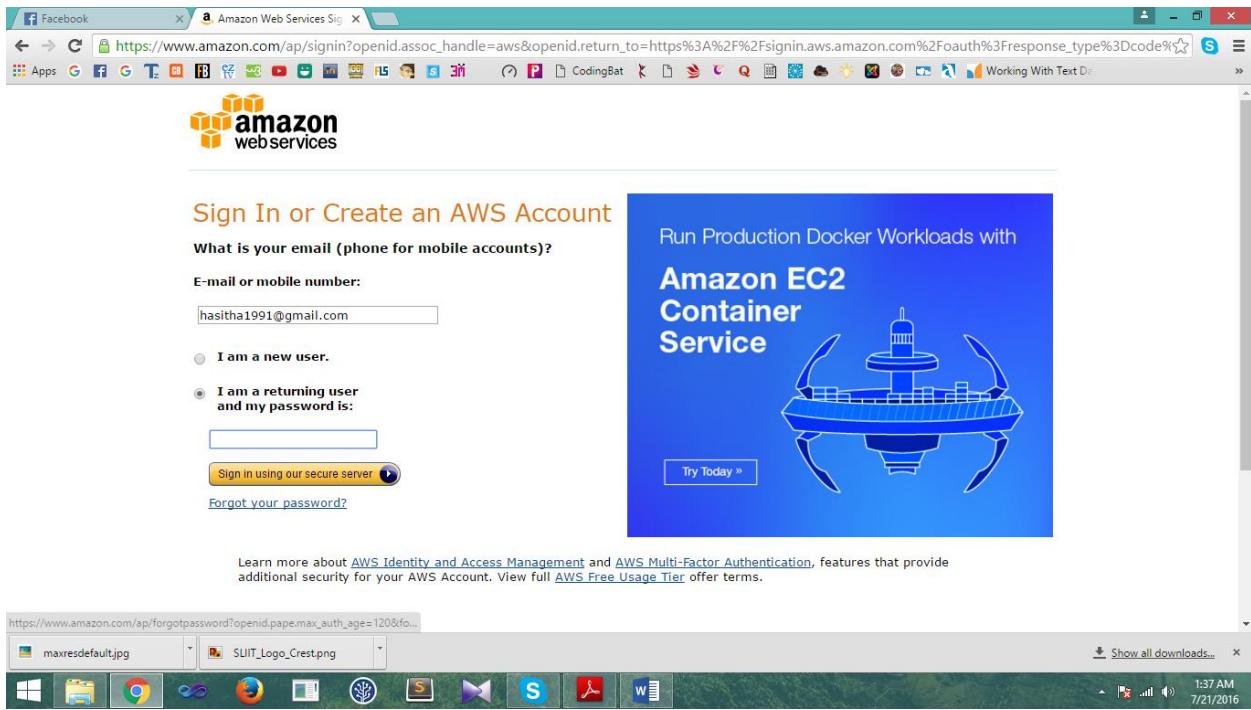
Name: -Asurasinghe A.R.H.S

Batch: - ITWE

01 Creating Windows Instance using AWS account.

Step 01

User has to successfully login to the AWS account.



Step 02

Select and click the EC2 link.

The screenshot shows the AWS Management Console Home page. At the top, there's a navigation bar with tabs for Facebook, AWS Management Console, and a search bar. Below the navigation bar, the URL is https://us-west-2.console.aws.amazon.com/console/home?region=us-west-2#. The main content area has sections for "Quick Starts" and "Shortcuts and Recently Viewed Services". In the "Shortcuts and Recently Viewed Services" section, there's a card for "EC2" which is highlighted with a star icon. Below this, there's a "AWS Services" section with categories like COMPUTE, DEVELOPER TOOLS, INTERNET OF THINGS, etc., and a "Service Health" section indicating all services are operating normally. The status bar at the bottom shows the URL https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2, the time 2:46 PM, and the date 7/11/2016.

Step 03

Click the lunch instance which is under create instance.

The screenshot shows the AWS EC2 Management Console interface. The left sidebar has a tree view with nodes like EC2 Dashboard, Instances, Images, Elastic Block Store, and Network & Security. The main content area is titled 'Resources' and displays the following statistics for the US West (Oregon) region:

Category	Value
Running Instances	0
Dedicated Hosts	0
Volumes	0
Key Pairs	2
Placement Groups	0
Elastic IPs	0
Snapshots	0
Load Balancers	0
Security Groups	3

Below this, there's a section titled 'Create Instance' with a 'Launch Instance' button. To the right, there are sections for 'Account Attributes' (listing Supported Platforms, VPC, Default VPC, and Resource ID length management), 'Additional Information' (Getting Started Guide, Documentation, All EC2 Resources, Forums, Pricing, and Contact Us), and 'AWS Marketplace' (listing free software trial products and popular AMIs like Tableau Server). The bottom of the screen shows the Windows taskbar with various pinned icons and the system tray.

Step 04

Select the Microsoft windows sever

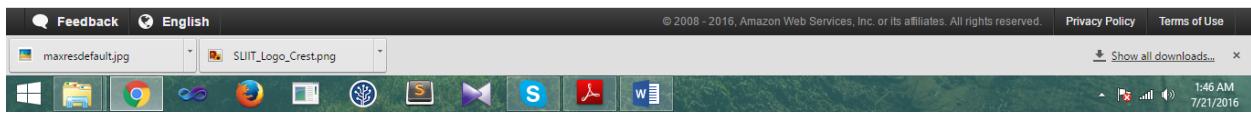
The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes links for Facebook, EC2 Management Console, and other AWS services. The main content area is titled "Step 1: Choose an Amazon Machine Image (AMI)". It lists several AMI options under the "Windows" category:

- Microsoft Windows Server 2012 R2 with SQL Server Standard - ami-78d41618**: Root device type: ebs, Virtualization type: hvm. **Select** button.
- Microsoft Windows Server 2012 Base - ami-0ff4366f**: Root device type: ebs, Virtualization type: hvm. **Select** button. This item is highlighted with a red box.
- Microsoft Windows Server 2012 with SQL Server Express - ami-24f13344**: Root device type: ebs, Virtualization type: hvm. **Select** button.
- Microsoft Windows Server 2012 with SQL Server Web - ami-03de1c63**: Root device type: ebs, Virtualization type: hvm. **Select** button.

At the bottom right of the page, there are "Cancel and Exit" and "Next Step" buttons.

Step 05

Click the given default type and click the review and lunch button



Step 2: Choose an Instance Type

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
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High

Buttons: Cancel | Previous | Review and Launch | Next: Configure Instance Details

Step 06

Now review the instance. Click the lunch button.

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.

⚠ Improve your instances' security. Your security group, launch-wizard-5, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only.

You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

AMI Details [Edit AMI](#)

Microsoft Windows Server 2012 Base - ami-0ff4366f
Free tier eligible
 Microsoft Windows 2012 Standard edition with 64-bit architecture. [English]
 Root Device Type: ebs Virtualization type: hvm

Instance Type [Edit instance type](#)

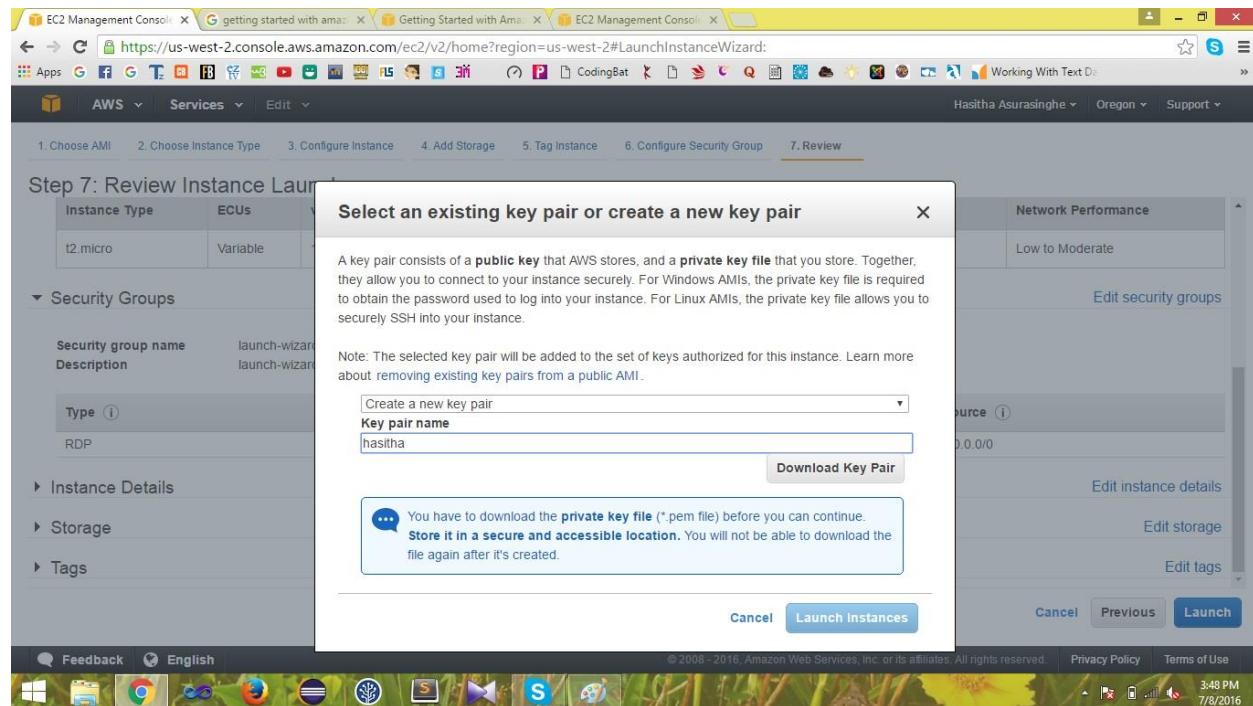
Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Buttons: Cancel | Previous | **Launch** | Define key pair and launch | Privacy Policy | Terms of Use

Step 07

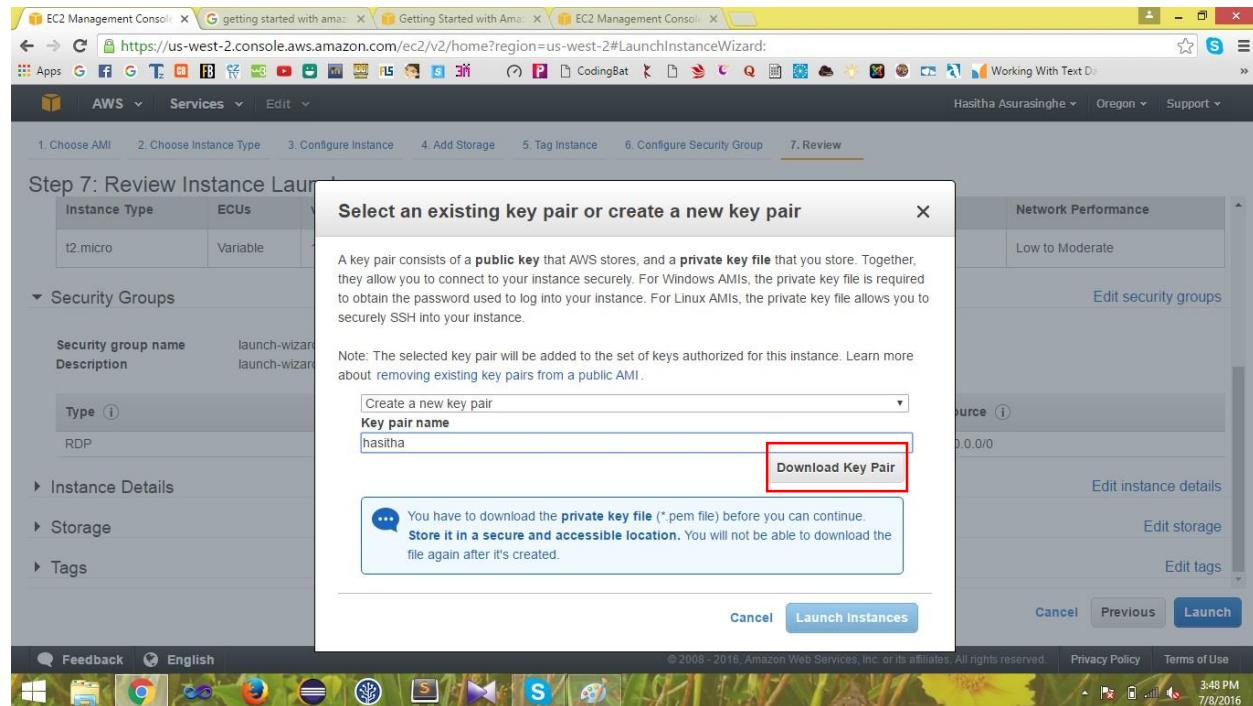
User has to create a new key pair to lunch the newly created windows instance

Select “create a new key pair” from the drop down menu and give a new name for the key pair.



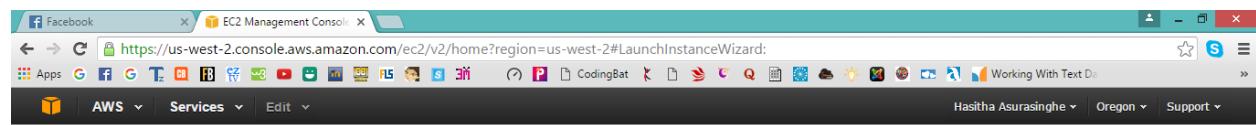
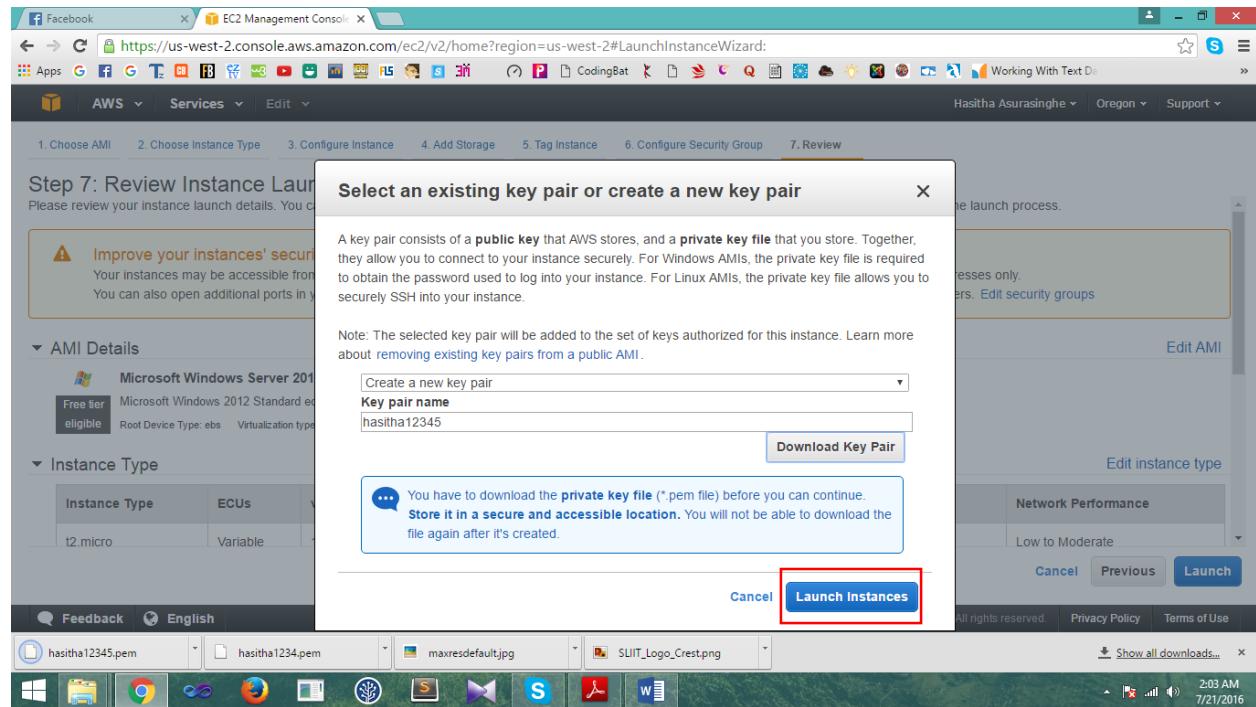
Step 08

Click “Download key pair” to download the key pair.



Step 09

Click on “lunch instance”



Your instances are now launching
The following instance launches have been initiated: i-0262c056565e0ea13 View launch log

Launch Status

Your instances are now launching
The following instance launches have been initiated: i-0262c056565e0ea13 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](#)

Step 10

Click on view instance

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](#)
- [Amazon EC2: Microsoft Windows Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

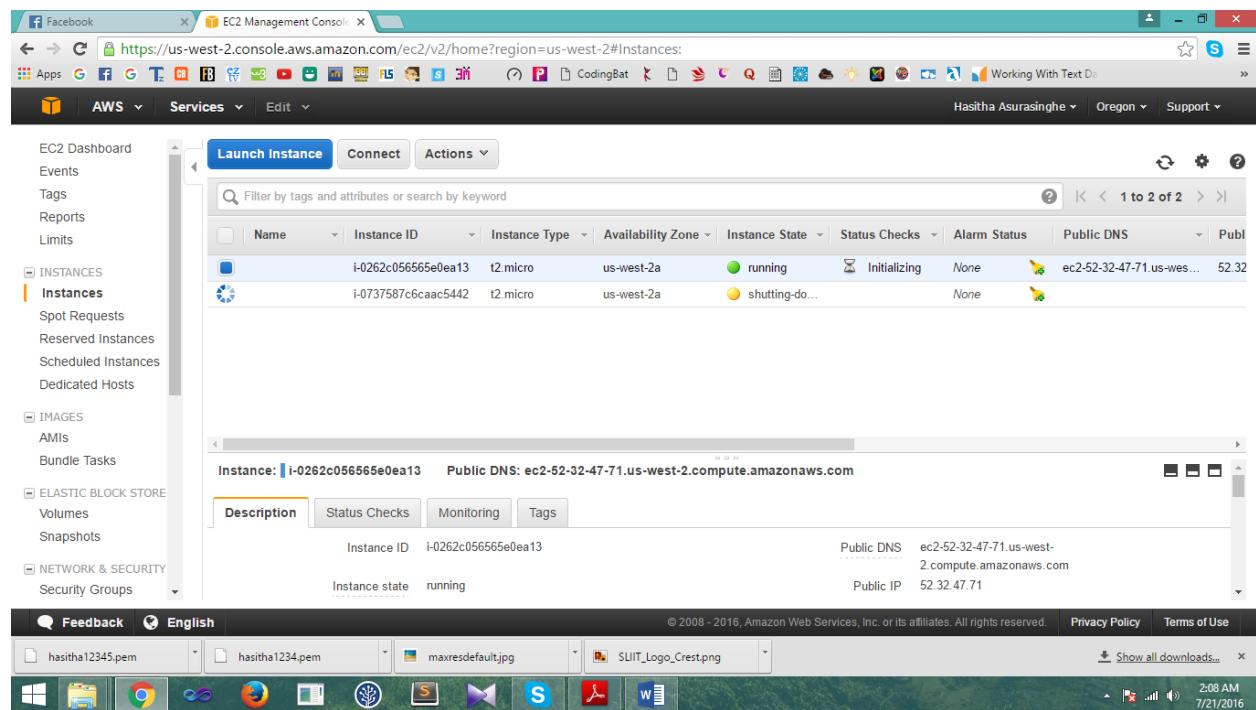
Create status check alarms to be notified when these instances fail status checks. (Additional charges may apply)
Create and attach additional EBS volumes (Additional charges may apply)
Manage security groups

[View Instances](#)

Step 11

Select the relevant instance.

Selected instance will be displayed in blue color.



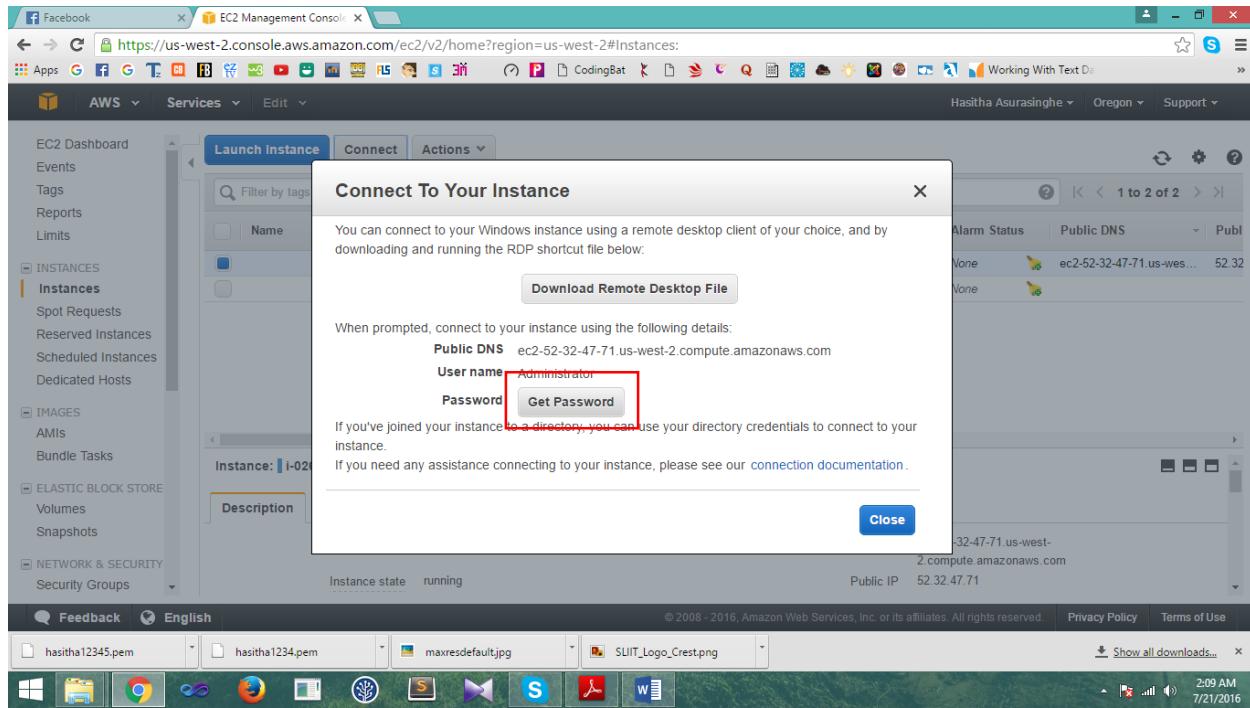
The screenshot shows the AWS EC2 Management Console interface. On the left, there's a navigation sidebar with links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances (which is selected), Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts, Images (AMIs, Bundle Tasks), Elastic Block Store (Volumes, Snapshots), and Network & Security (Security Groups). The main content area has tabs for Launch Instance, Connect, and Actions. Below these are filters for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS, and Public IP. A search bar is also present. Two instances are listed: one with Instance ID i-0262c056565e0ea13 and another with i-0737587c6cac5442. The first instance is highlighted in blue, indicating it is selected. A detailed view panel for the selected instance shows its ID, Public DNS (ec2-52-32-47-71.us-west-2.compute.amazonaws.com), Public IP (52.32.47.71), and Instance state (running). The bottom of the screen shows the Windows taskbar with various icons and the date/time (2:08 AM 7/21/2016).

Step 12

Click “connect” button

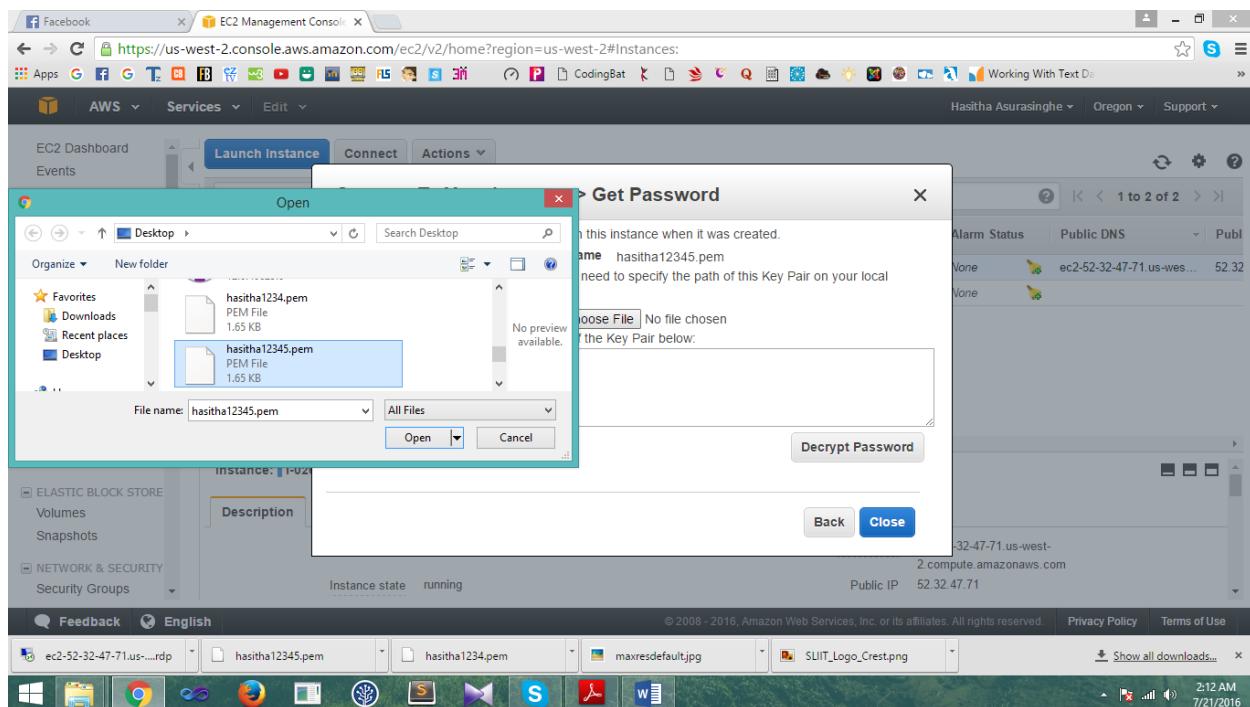
The screenshot shows the AWS EC2 Management Console interface. On the left, there's a sidebar with navigation links like EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Images, AMIs, Elastic Block Store, Volumes, Snapshots, and Network & Security. The 'Instances' link is currently selected. In the main content area, there's a table of instances. The first instance listed has its 'Connect' button highlighted with a red box. Below the table, there's a detailed view of the selected instance (i-0262c056565e0ea13), showing its Public DNS, Instance ID, and Instance state.

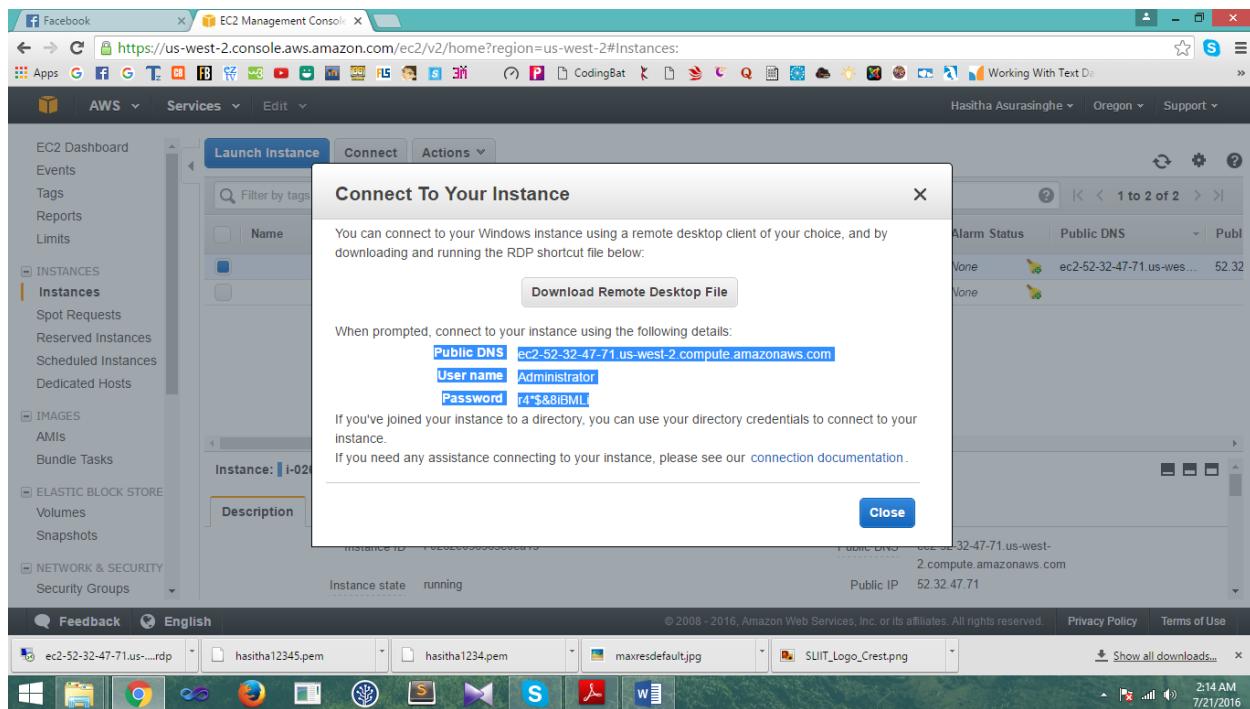
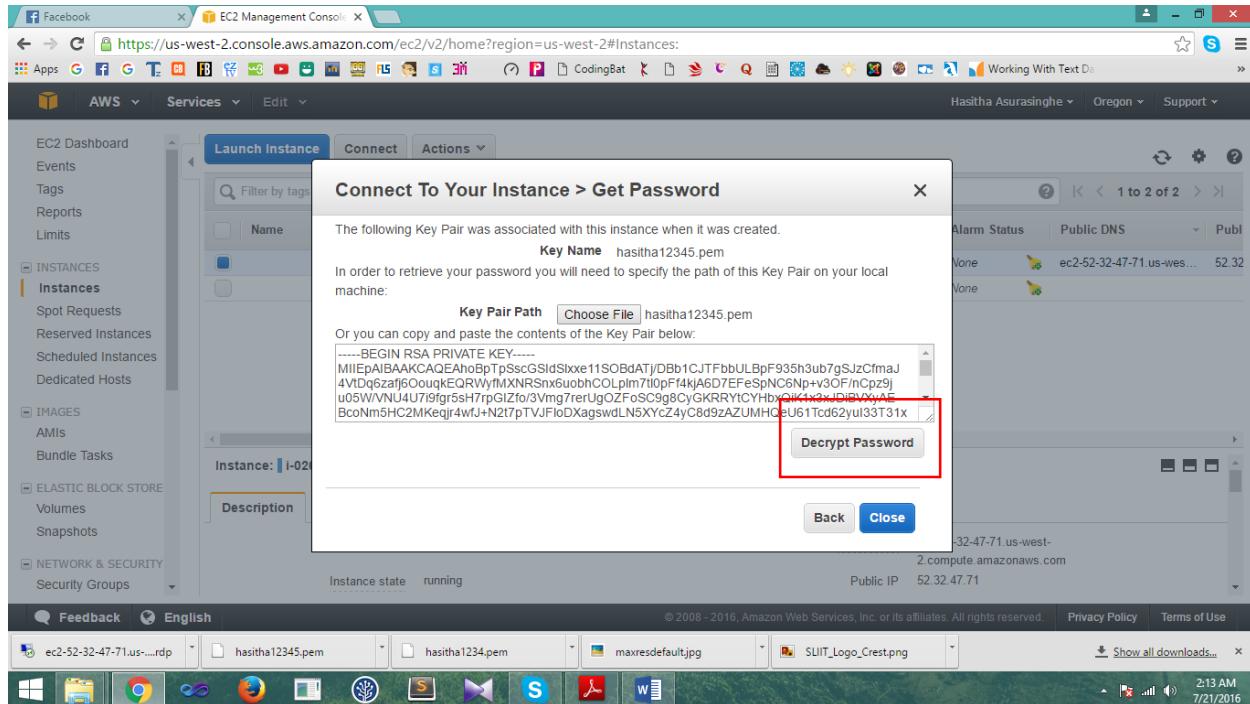
This screenshot shows the 'Connect To Your Instance' dialog box overlaid on the EC2 Management Console. The dialog box contains instructions for connecting to a Windows instance using a remote desktop client or by downloading an RDP shortcut file. It displays the Public DNS, User name (Administrator), and Password fields. The 'Download Remote Desktop File' button is highlighted with a red box. The background shows the same EC2 instance details as the previous screenshot.

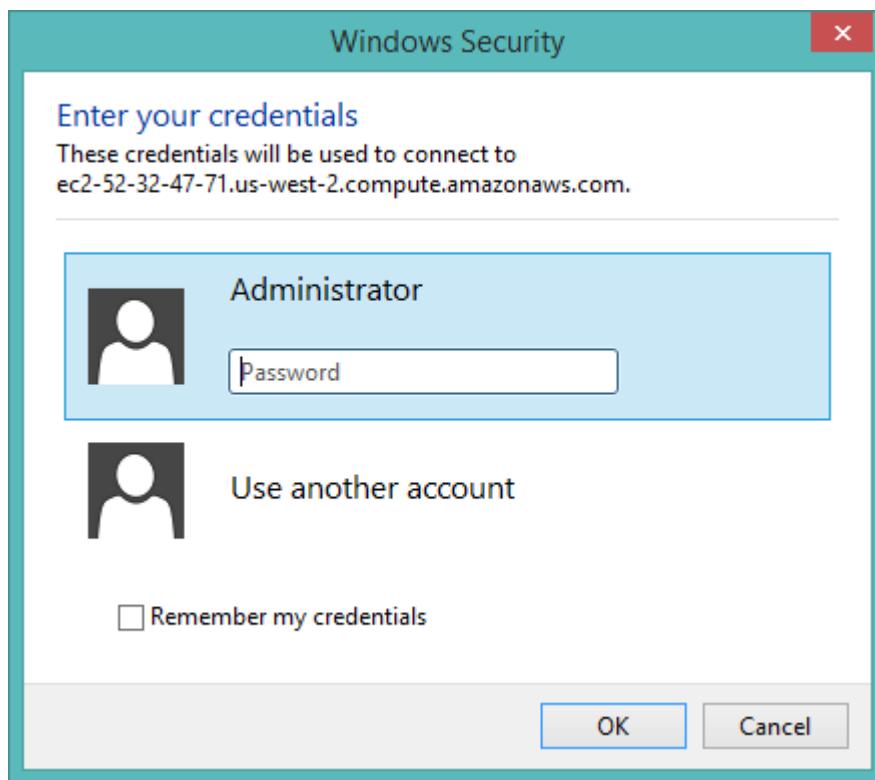
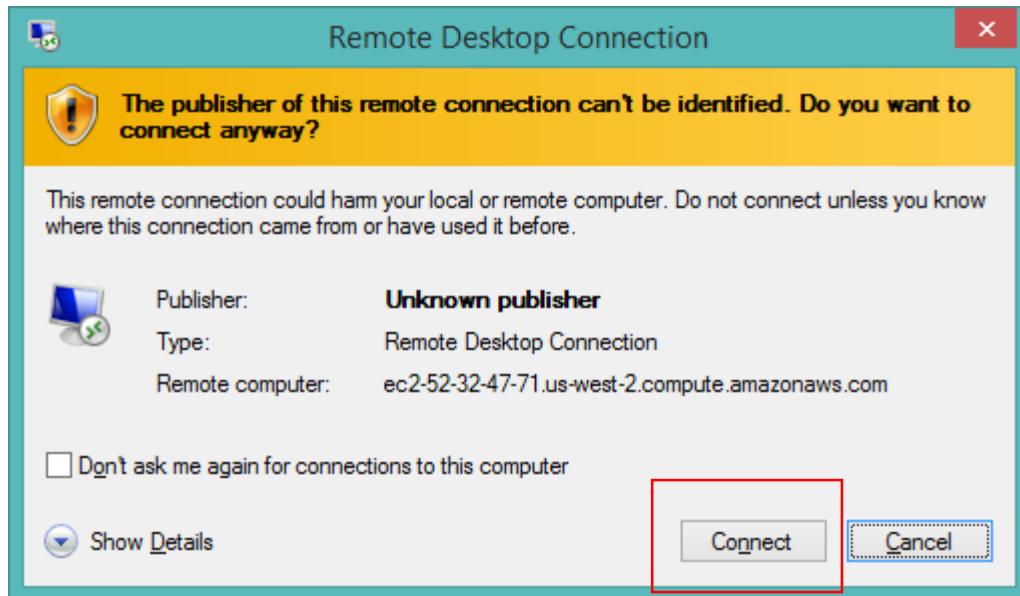


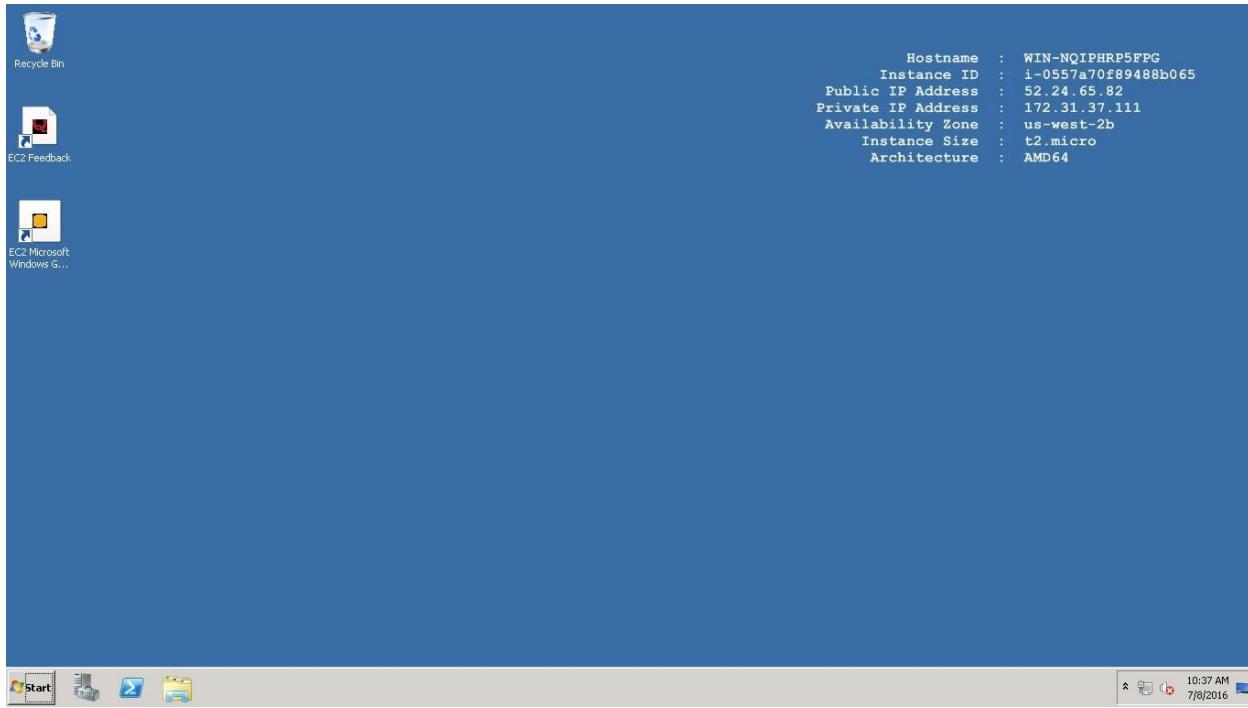
Step 13

Select the .pem file.









02 Creating of linux instance using AWS Account

Step 01

- I. User has to log in to the AWS account.
- II. User has to click the EC2 link .
- III. User has to click the launch instance button.

Facebook Amazon Web Services Sign In

https://www.amazon.com/ap/signin?openid.assoc_handle=aws&openid.return_to=https%3A%2F%2Fsignin.aws.amazon.com%2Foauth%3Fresponse_type%3Dcode%26state%3D... Apps CodingBat Working With Text D...



Sign In or Create an AWS Account

What is your email (phone for mobile accounts)?

E-mail or mobile number:
hasitha1991@gmail.com

I am a new user.

I am a returning user
and my password is:

[Sign in using our secure server](#)

[Forgot your password?](#)

Run Production Docker Workloads with
Amazon EC2 Container Service

[Try Today »](#)

Learn more about [AWS Identity and Access Management](#) and [AWS Multi-Factor Authentication](#), features that provide additional security for your AWS Account. View full [AWS Free Usage Tier](#) offer terms.



AWS Management Console

<https://us-west-2.console.aws.amazon.com/console/home?region=us-west-2#>

Hasitha Asurasinghe, Oregon, Support

Quick Starts

- Build a web app
- Launch a virtual machine
- Back up your files
- Build a backend for your mobile app
- Host a static website
- Analyze big data

Shortcuts and Recently Viewed Services

- EC2

AWS Services

SHOW CATEGORIES

COMPUTE	DEVELOPER TOOLS	INTERNET OF THINGS
EC2	CodeCommit	AWS IoT
EC2 Container Service	CodeDeploy	
Elastic Beanstalk	CodePipeline	
Lambda		

MANAGEMENT TOOLS

GAME DEVELOPMENT	MOBILE SERVICES
GameLift	

INTERNET OF THINGS

AWS IoT

GAME DEVELOPMENT

GameLift

MOBILE SERVICES

Service Health [View Dashboard](#)

All services are operating normally. Updated Jul 11 2016 14:44:00 GMT+0530

2:46 PM 7/11/2016

EC2 Management Console

<https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2>

Hasitha Asurasinghe, Oregon, Support

Resources

You are using the following Amazon EC2 resources in the US West (Oregon) region:

Running Instances	Elastic IPs
0	0
Dedicated Hosts	Snapshots
0	0
Volumes	Load Balancers
0	0
Key Pairs	Security Groups
2	3
Placement Groups	
0	

Build and run distributed, fault-tolerant applications in the cloud with Amazon Simple Workflow Service.

Create Instance

To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.

Launch Instance

Note: Your instances will launch in the US West (Oregon) region

Service Health

Service Status: **US West (Oregon):** This service is operating normally

Scheduled Events

US West (Oregon): No events

Account Attributes

- Supported Platforms
- VPC
- Default VPC
- vpc-fcb9c198
- Resource ID length management

Additional Information

- Getting Started Guide
- Documentation
- All EC2 Resources
- Forums
- Pricing
- Contact Us

AWS Marketplace

Find free software trial products in the AWS Marketplace from the EC2 Launch Wizard. Or try these popular AMIs: Tableau Server (10 users)

Feedback English

© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use

2:48 PM 7/11/2016

Step 02

Choose the “Amazon Linux 2016...”

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.

Quick Start
My AMIs
AWS Marketplace
Community AMIs
<input type="checkbox"/> Free tier only ⓘ

Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611
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 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 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.
Select 64-bit

Step 03

Select the default row which is given in the table

Step 2: Choose an Instance Type

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
General purpose	m4.large	2	8	EBS only	Yes	Moderate
General purpose	m4.xlarge	4	16	EBS only	Yes	High
General purpose	m4.2xlarge	8	32	EBS only	Yes	High

Review and Launch Next: Configure Instance Details

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1

Purchasing option: Request Spot instances

Network: vpc-fcb9c198 (172.31.0.0/16) (default)

Subnet: No preference (default subnet in any Availability Zone)

Auto-assign Public IP: Use subnet setting (Enable)

IAM role: None

Shutdown behavior: Stop

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring
Additional charges apply.

Buttons: Cancel, Previous, **Review and Launch**, Next: Add Storage

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. Learn more about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/xvda	snap-d465048a	8	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions.

Buttons: Cancel, Previous, **Review and Launch**, Next: Tag Instance



Step 04

Click the lunch button.

The screenshot shows the AWS EC2 Management Console. The URL is <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 instance details, including the AMI (Amazon Linux AMI 2016.03.3 (HVM)), instance type (t2.micro), and network performance (Low to Moderate). A yellow warning box at the top right says: "Improve your instances' security. Your security group, launch-wizard-4, is open to the world. Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. Edit security groups". At the bottom right, there are "Cancel", "Previous", and "Launch" buttons. The "Launch" button is highlighted with a red box.

Step 05

Download the key pair and click “lunch instance button”

The screenshot shows the AWS EC2 Management Console with the same URL and title as the previous step. The "Launch" button is now part of a modal window titled "Select an existing key pair or create a new key pair". The modal contains instructions about key pairs and a form to either "Create a new key pair" or select an existing one. It also includes a note: "You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created." At the bottom of the modal are "Cancel" and "Launch Instances" buttons. The "Launch Instances" button is highlighted with a red box. The background of the main window shows the same instance details and security warning as the previous step.

Your instances are now launching
The following instance launches have been initiated: i-0ba04664b78dd983b [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

- How to connect to your Linux instance
- Amazon EC2: User Guide
- Learn about AWS Free Usage Tier
- Amazon EC2: Discussion Forum

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-0ba04664b78dd983b	t2.micro	us-west-2a	running	Initializing	None	ec2-52-37-154-121.us-west-2.compute.amazonaws.com	52.37.154.121

Instance: i-0ba04664b78dd983b Public DNS: ec2-52-37-154-121.us-west-2.compute.amazonaws.com

Description	Status Checks	Monitoring	Tags
Instance ID: i-0ba04664b78dd983b			
Instance state: running			
Public DNS: ec2-52-37-154-121.us-west-2.compute.amazonaws.com			
Public IP: 52.37.154.121			

Step 06

Download “putty” and “puttygen” software

Step 07

Follow the steps bellow to configure the putty software

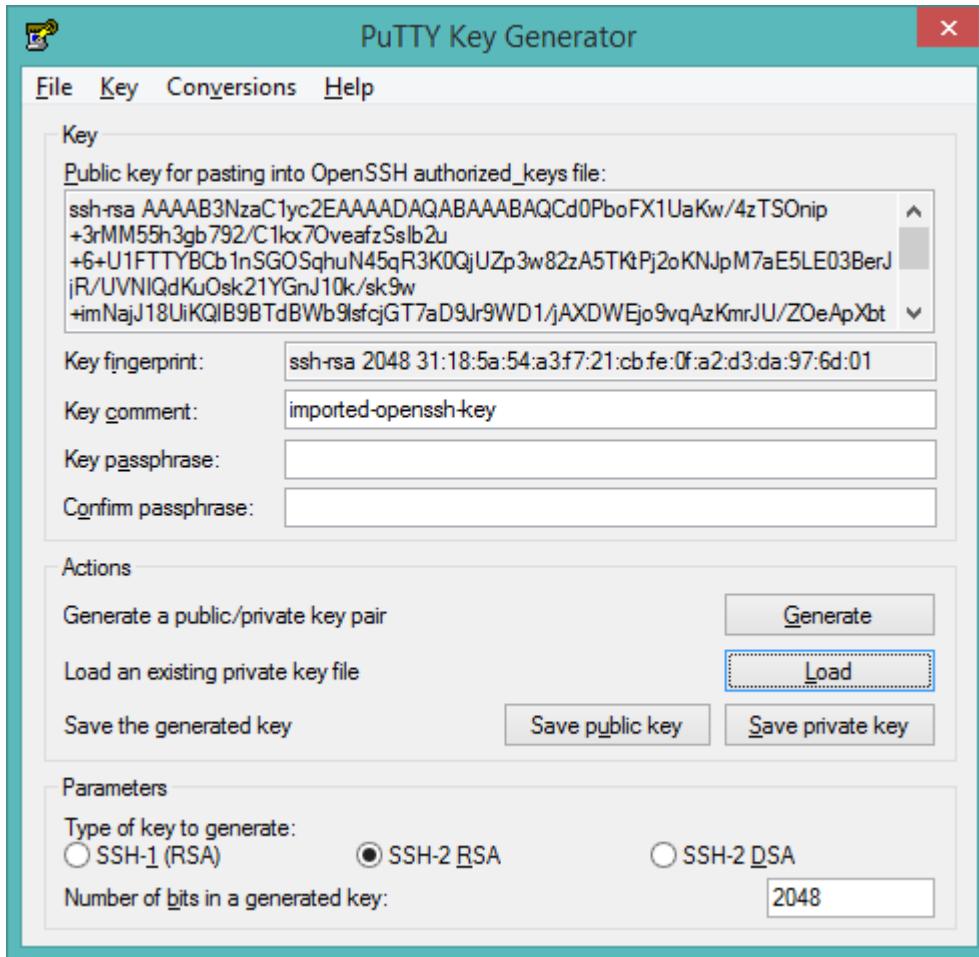
Open the puTTy Key Genetator software.

Click the “Generate” button



Click the “Save private key” button. And save the..ppk file.

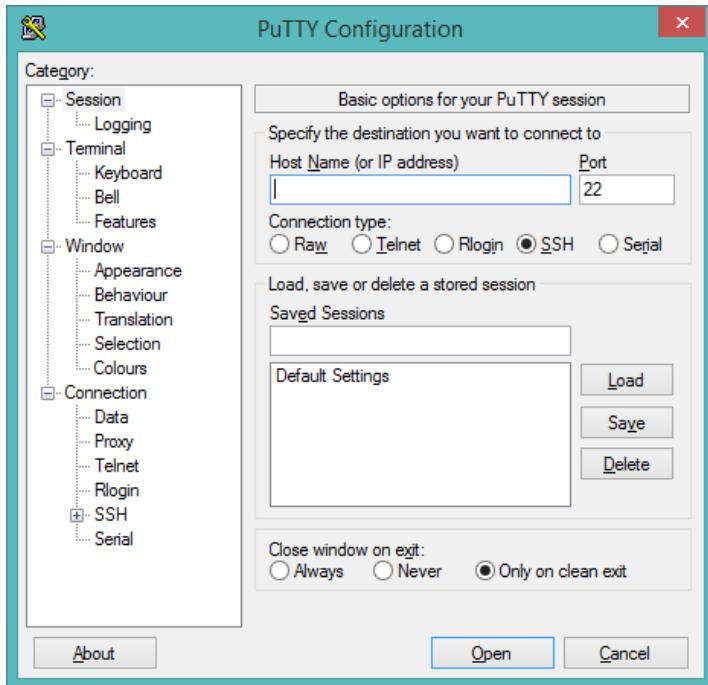
Then click “save private key” button and it will convert it in to .pem file.



Step 07

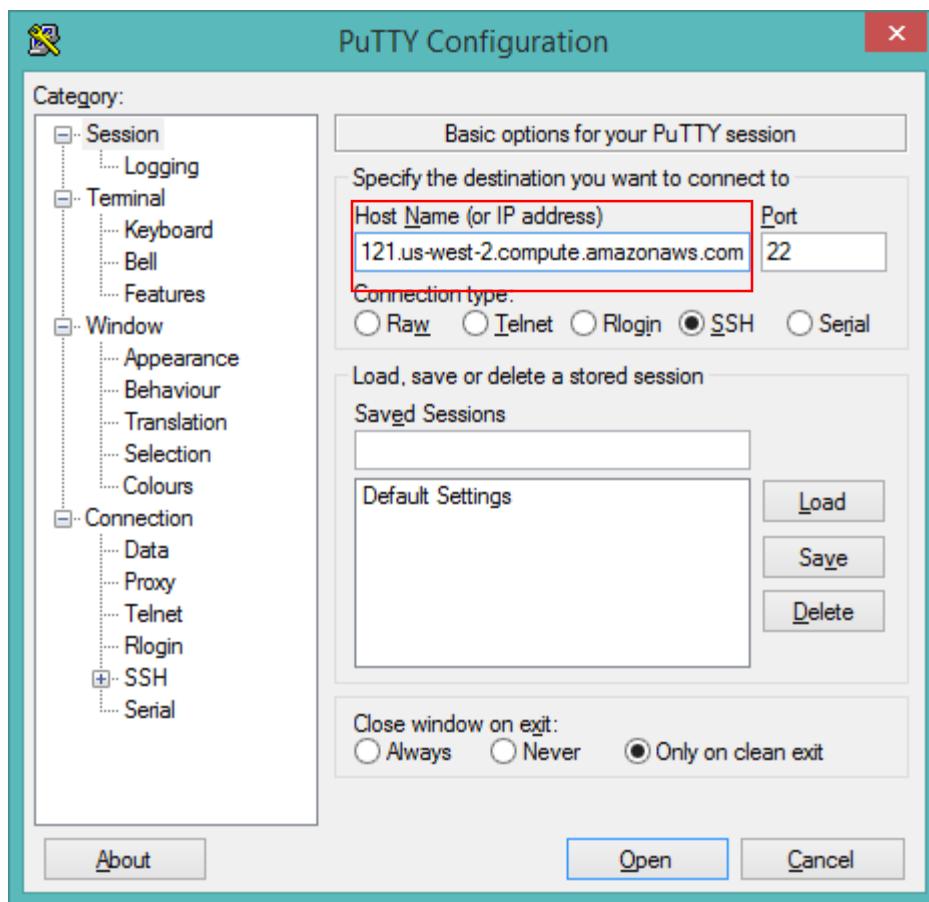
Open the PuTTY Configuration

And do the following

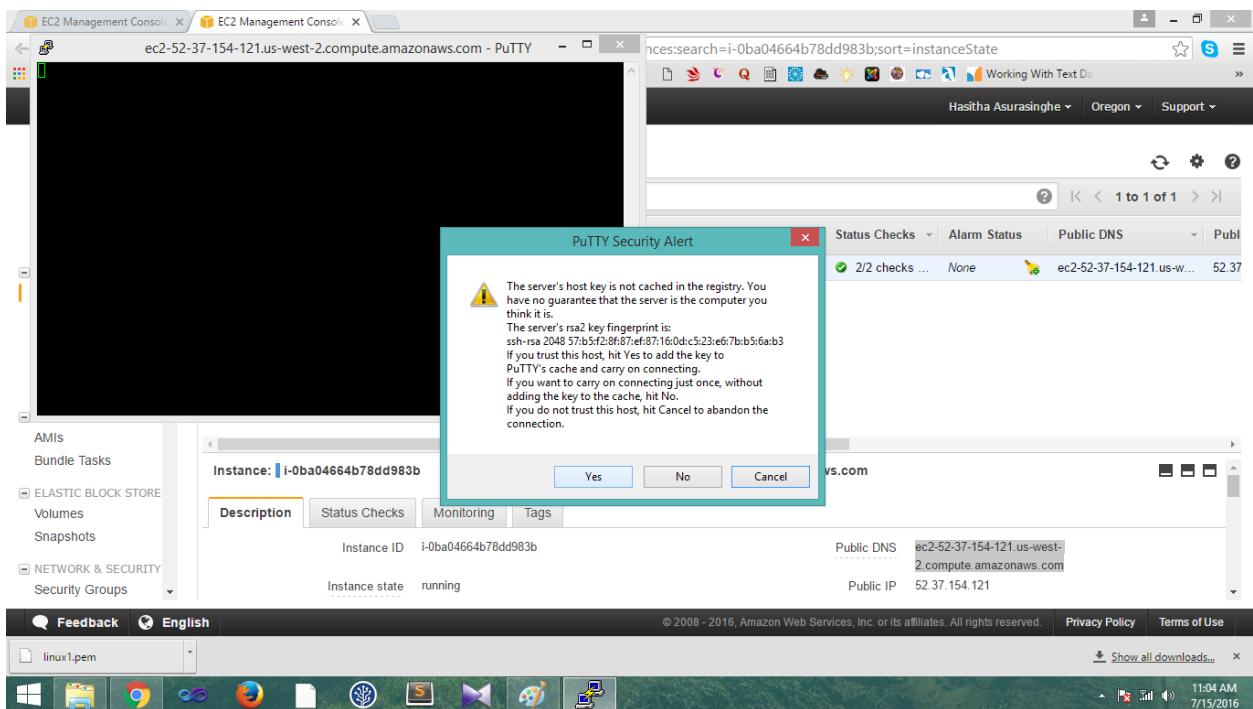
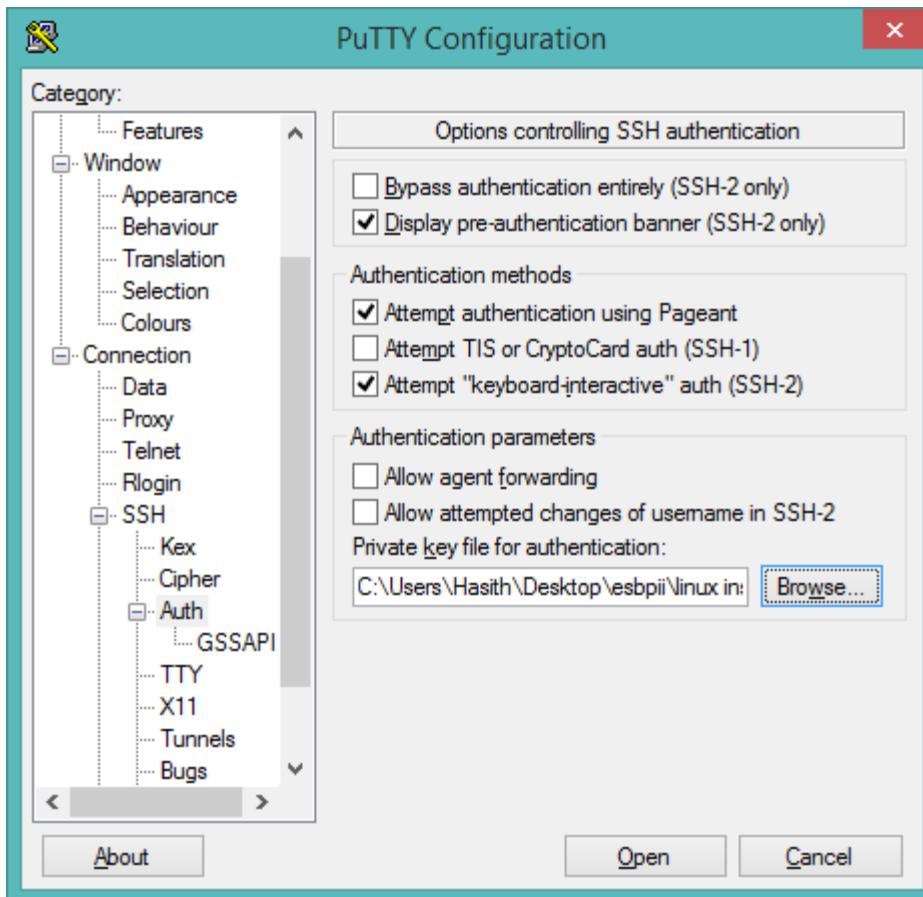


The screenshot shows the Amazon EC2 Management Console. The left sidebar navigation includes EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES (selected), Instances, Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts, IMAGES, AMIs, Bundle Tasks, ELASTIC BLOCK STORE, Volumes, Snapshots, and NETWORK & SECURITY, Security Groups. The main content area shows an instance details page for 'i-0ba04664b78dd983b'. The top bar shows the URL 'https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#instances:search=i-0ba04664b78dd983b;sort=instanceState'. The instance table has columns: Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS, and Public IP. The instance 'i-0ba04664b78dd983b' is listed with 't2.micro' instance type, 'us-west-2a' availability zone, 'running' instance state, and Public DNS 'ec2-52-37-154-121.us-west-2.compute.amazonaws.com'. The Public IP is '52.37.154.121'. A red box highlights the Public DNS value. The bottom of the page includes a feedback link, language selection ('English'), copyright information ('© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.'), and links for Privacy Policy and Terms of Use. The system tray at the bottom right shows the date and time as '7/15/2016 10:58 AM'.

Copy and paste the above details in to Host name text box

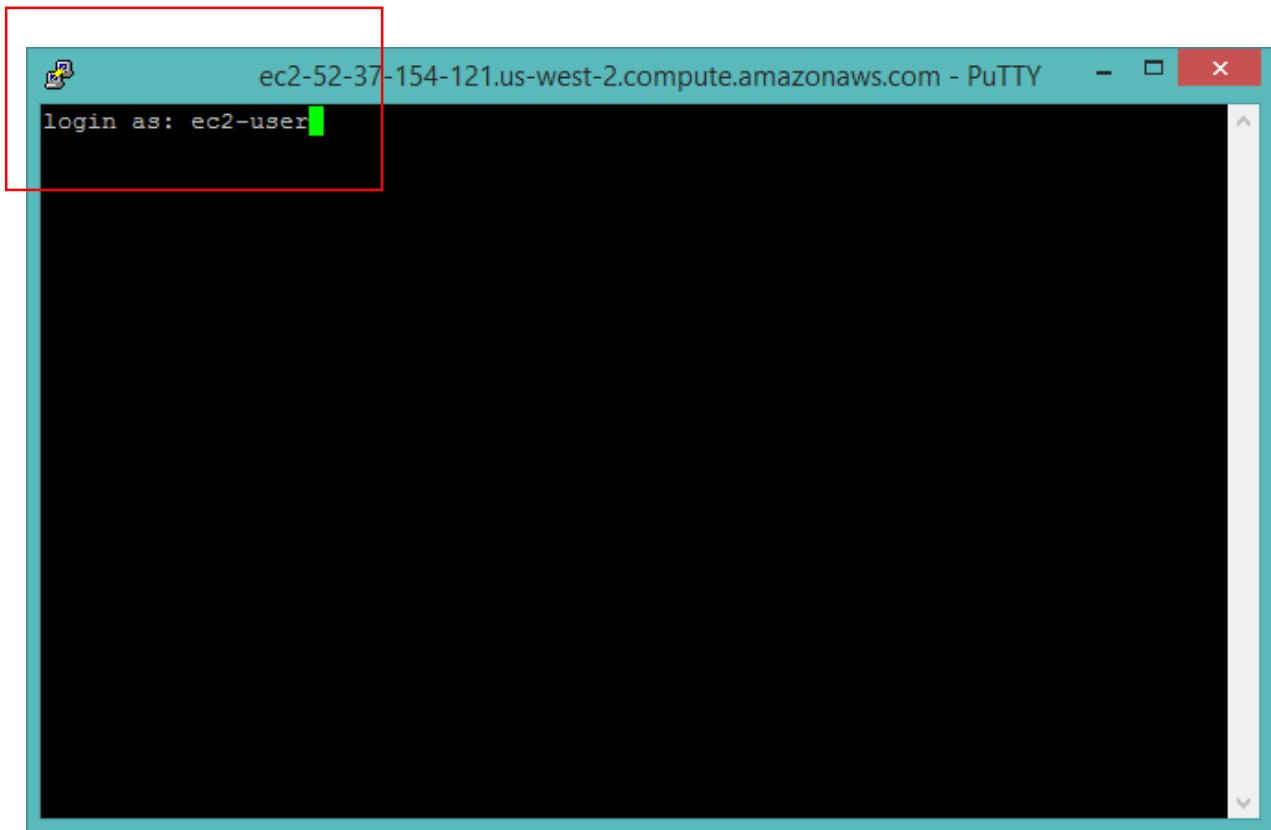


Click the browse button and load the linux.pptk file.



Step 08

Type the login details

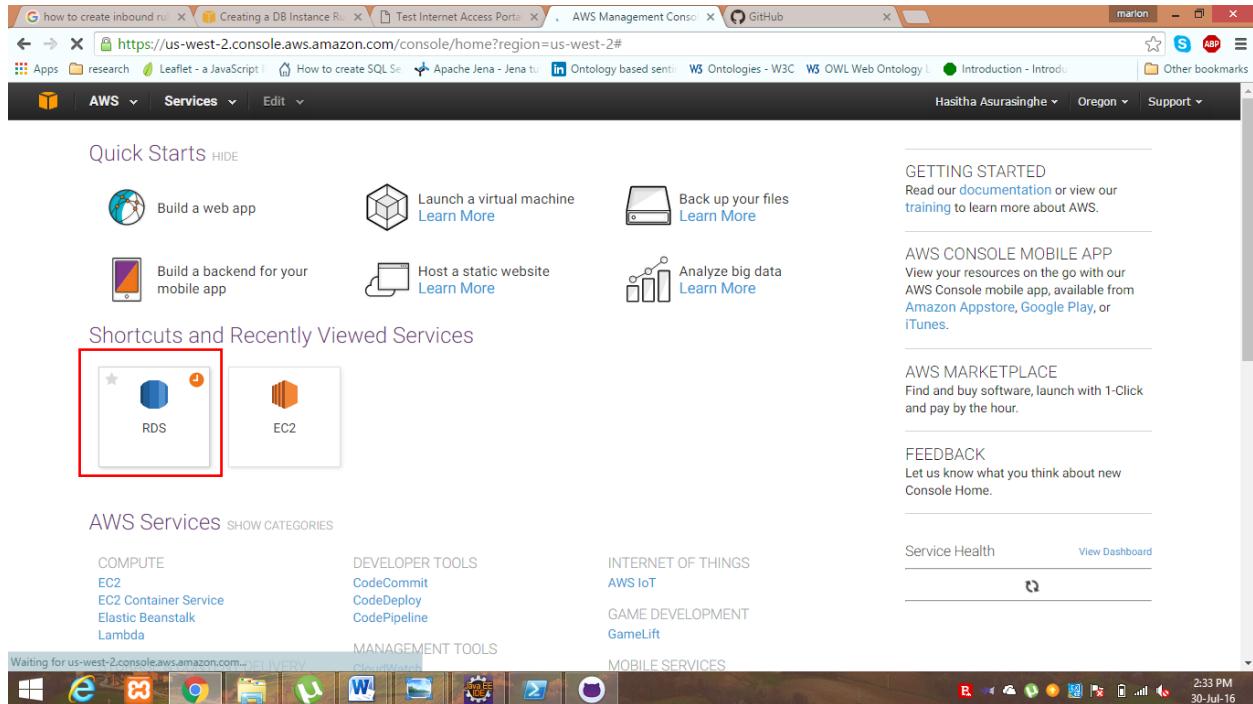


```
ec2-user@ip-172-31-20-40:~ - □ X
login as: ec2-user
Authenticating with public key "imported-openssh-key"
[ec2-user@ip-172-31-20-40 ~]$ █
```

03 Create DB instance using RDS.

Step 01

Click on RDS button



Step 02

Select MySql and click the select button

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=dbinstances>. The page title is "Step 1: Select Engine". A sidebar on the left lists database engines: Amazon Aurora, MySQL, MariaDB, PostgreSQL, Oracle, and Microsoft SQL Server. The MySQL entry is highlighted with a red box around its "Select" button.

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=dbinstances>. The page title is "Step 2: Production?". The sidebar shows steps: Step 1: Select Engine, Step 2: Production?, Step 3: Specify DB Details, Step 4: Configure Advanced Settings. Under "Production", the "Amazon Aurora" option is selected and highlighted with a red box. Under "Dev/Test", the "MySQL" option is also highlighted with a red box. At the bottom, there are "Cancel", "Previous", and "Next Step" buttons, with "Next Step" highlighted with a red box.

Step 03

Configure the settings given below

The screenshot shows the 'Specify DB Details' step of creating a new Amazon RDS database instance. The page title is 'Specify DB Details'. On the left, a navigation pane lists steps: Step 1: Select Engine, Step 2: Production?, Step 3: Specify DB Details (which is selected), and Step 4: Configure Advanced Settings. Below the steps, there are two informational callouts: one about being eligible for the free tier and another about estimating monthly costs using the RDS Instance Cost Calculator.

Instance Specifications

DB Engine: mysql
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: - Select One -
Storage Type: General Purpose (SSD)
Allocated Storage*: 5 GB

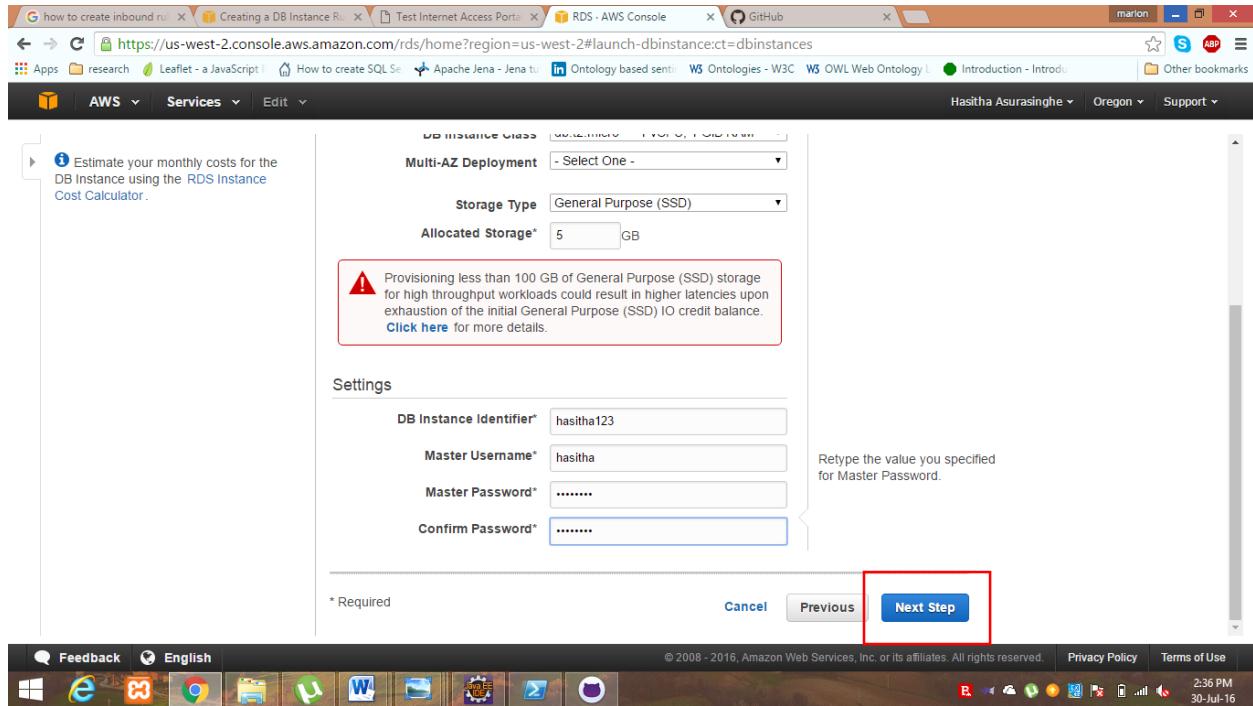
A warning message in a red-bordered box states: "Provisioning less than 100 GB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance. Click here for more details."

On the right, there is a sidebar with three bullet points:

- General Purpose (SSD): storage is suitable for a broad range of database workloads. Provides baseline of 3 IOPS/GB and ability to burst to 3,000 IOPS.
- Provisioned IOPS (SSD): storage is suitable for I/O-intensive database workloads. Provides flexibility to provision I/O ranging from 1,000 to 30,000 IOPS.
- Magnetic storage may

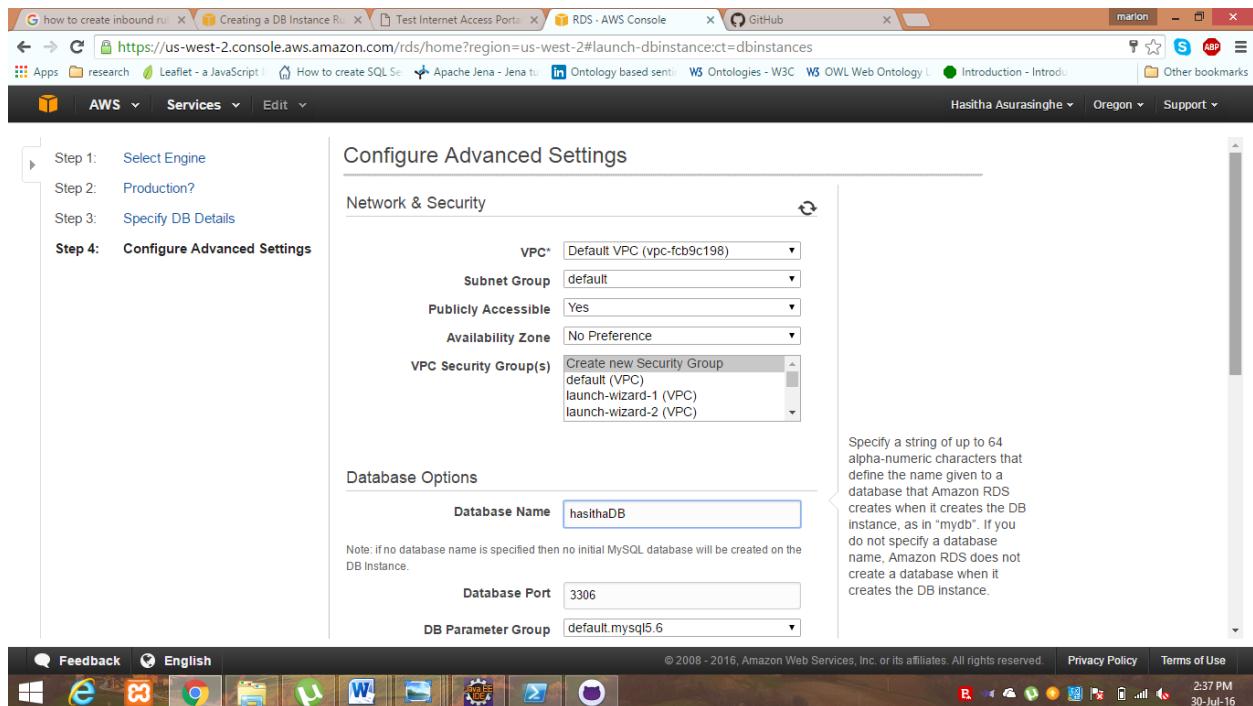
The bottom of the screen shows the Windows taskbar with various pinned icons and the system tray.

Click the “Next Step” button

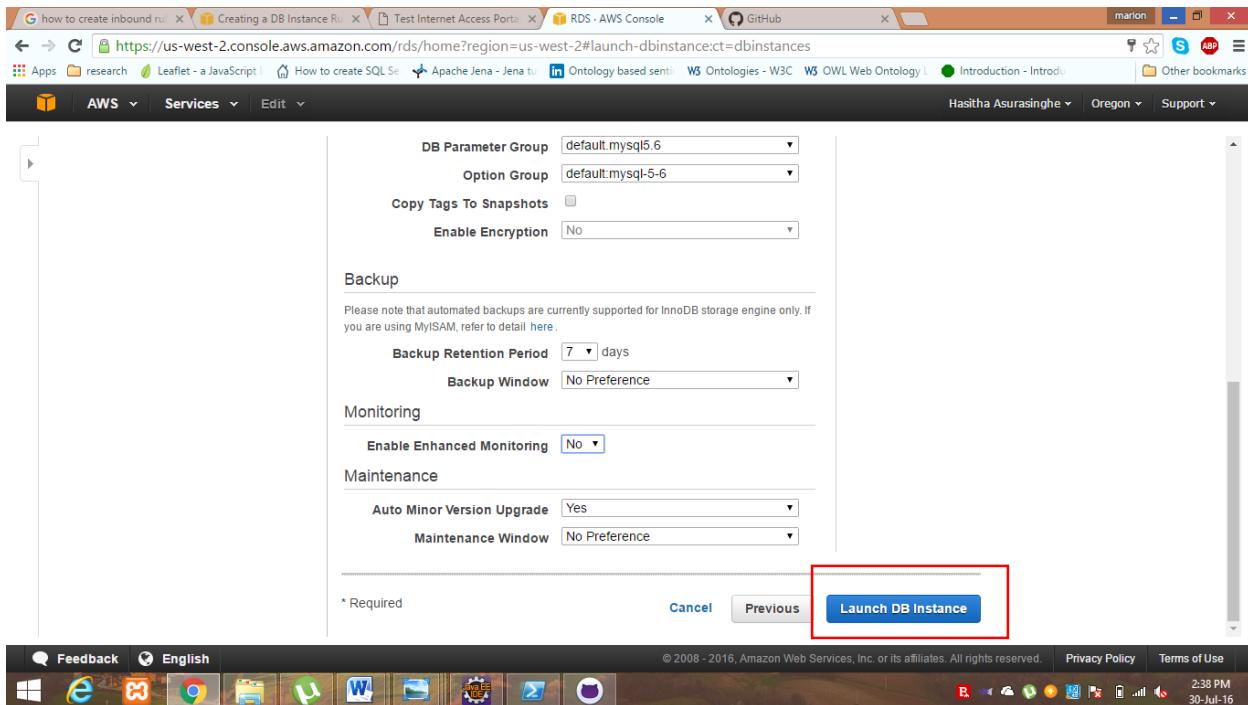


Step 04

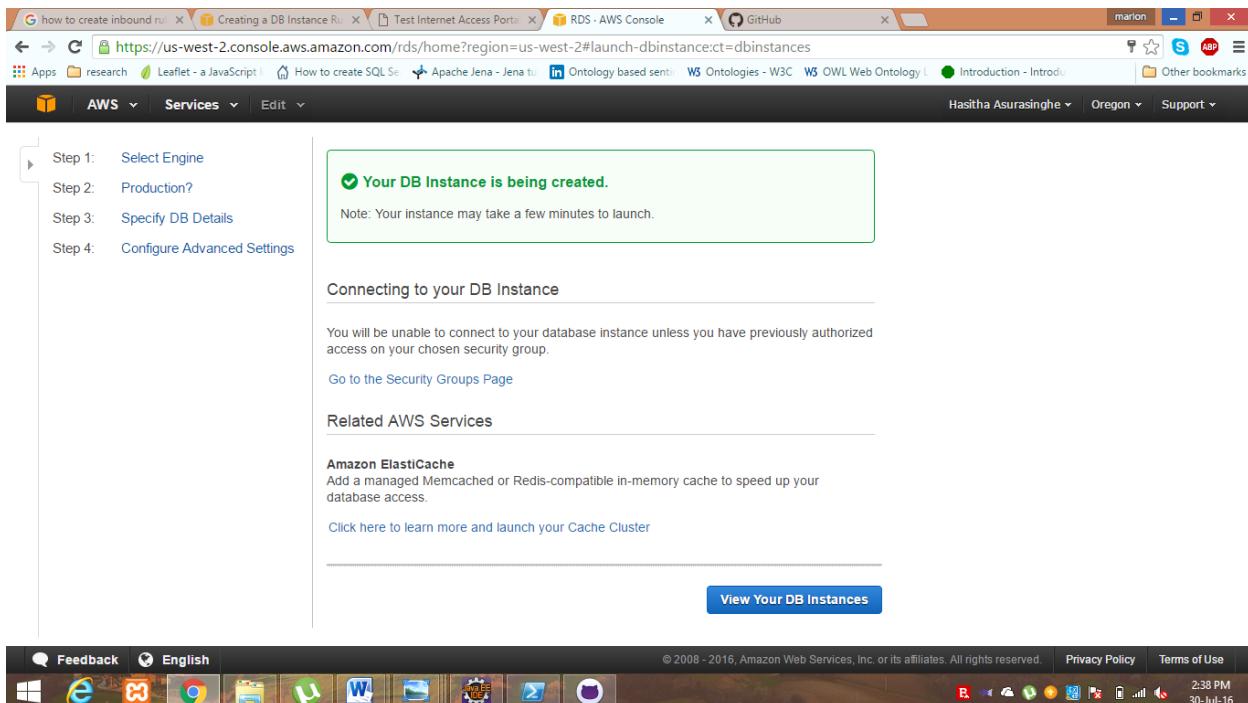
Configure the settings given below



Click “Launch DB Instance” button



User can view the instance by clicking the “View Your DB instance” button



Step 05

User has to wait few minutes.

The screenshot shows the AWS RDS console for the 'us-west-2' region. On the left, a sidebar lists various RDS management options like Instances, Clusters, and Reserved Purchases. The main panel displays a table of DB instances. One instance, 'hasitha123', is highlighted and shows its status as 'creating'. Below the table, the 'Monitoring' section is visible, showing four metrics: CPU, Memory, Storage, and Swap Usage. Each metric has a 'CURRENT VALUE' column showing 'No Data' and a corresponding progress bar. The timestamp for the data is listed as '(UTC+5:30)'. At the bottom of the monitoring section, there are tabs for 'Instance Actions', 'Tags', and 'Logs'.

This screenshot shows the same AWS RDS console after some time has passed. The MySQL instance 'hasitha123' is now in the 'backing-up' state. The monitoring section provides more detailed data: CPU usage is at 12/sec, Memory usage is at 64.6/sec, and Storage usage is at 0 MB. The timestamp for the data is now '(UTC+5:30)'. The rest of the interface remains consistent with the first screenshot, including the sidebar and the overall layout.

The screenshot shows the AWS RDS Dashboard. On the left, there's 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 panel displays a single MySQL instance named 'hasitha123' which is 'available'. It shows current activity (CPU at 1.69%, 0 connections), maintenance status (None), and instance class (db.t2.micro) and VPC (vpc-fcb9c198). Below the instance details, there's a section for 'Alarms and Recent Events' showing a backup finished, a DB instance created, and a DB instance restarted. To the right, there's a 'Monitoring' section with graphs for CPU, Memory, Storage, Read IOPS, Write IOPS, and Swap Usage. At the bottom, there are buttons for 'Instance Actions', 'Tags', and 'Logs'.

Finally user can login to the DB using the given user name and the password

The screenshot shows a terminal window titled 'XAMPP for Windows - mysql' running on a Windows system. The user is attempting to connect to a MySQL database on an Amazon RDS instance using the command:

```
User@HOME e:\xampp
# mysql -h hasitha123.cg0xj8jobbir.us-west-2.rds.amazonaws.com -P 3306 -u hasitha123
# Enter password: *****
Welcome to the MySQL monitor. Commands end with ; or \q.
Your MySQL connection id is 31
Server version: 5.6.19-log MySQL Community Server (GPL)

Copyright (c) 2000, 2013, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
mysql> 
```

A password confirmation dialog box is overlaid on the terminal window, prompting for a 'Confirm Password'.

