



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

**4<sup>th</sup> Year 2<sup>nd</sup> Semester 2016**

Name: S.M.N.K.B.Senanayake

SLIIT ID:IT13145026

Practical Session: <WD >

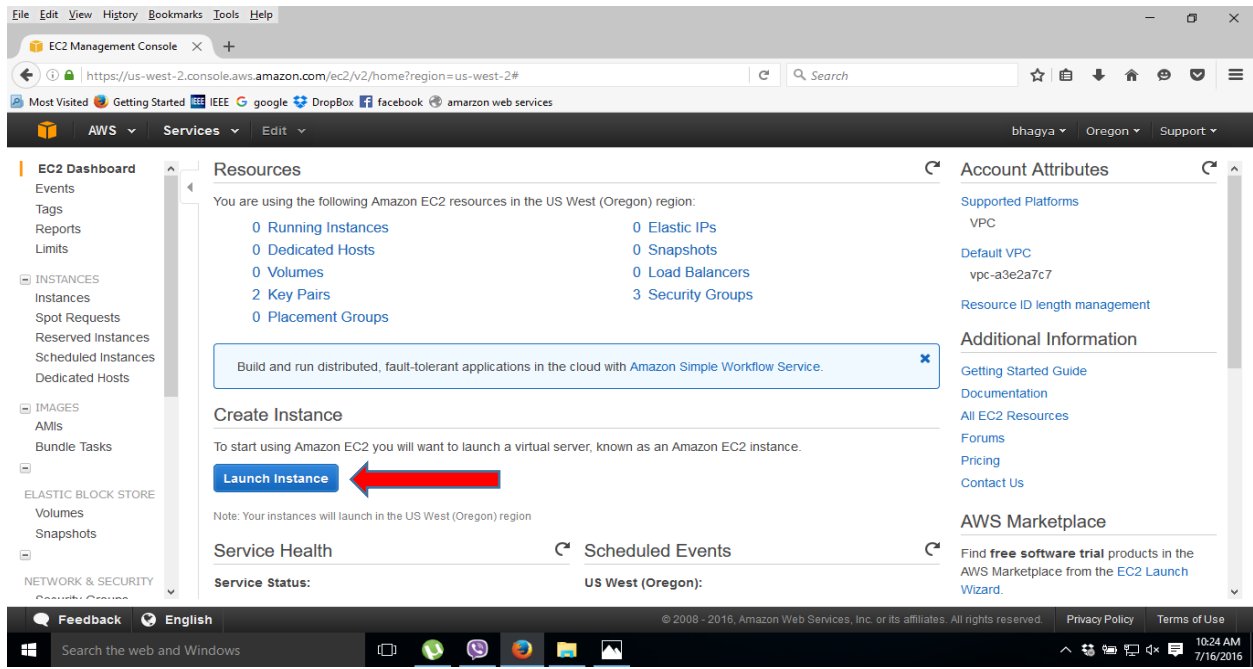
Date of Submission: 2016 - 07 - 30

Date of Evaluation : \_\_\_\_\_

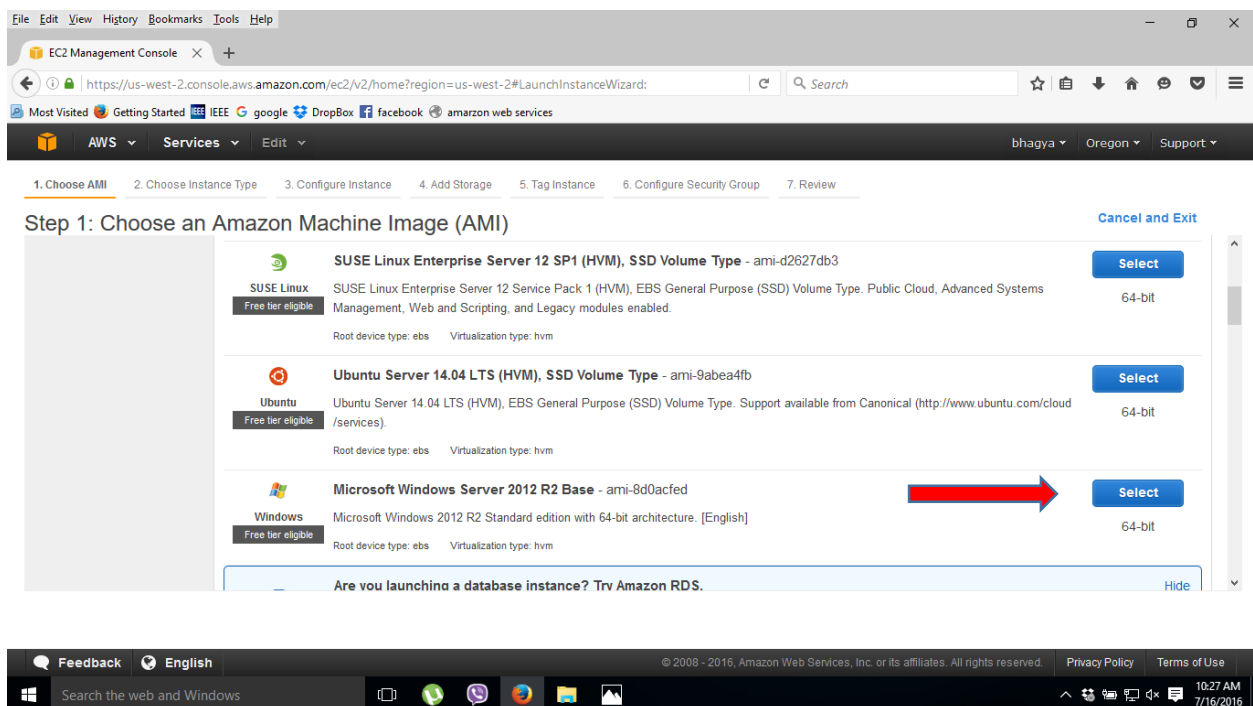
Evaluators Signature : \_\_\_\_\_

# Create a windows instance

## Step 1 : select the Lunch instance button



## Step 2: Select the Microsoft window server 2012 R2 Base



## Step3 : select review and launch button

The screenshot shows the AWS Management Console interface for the 'Launch Instance Wizard'. The breadcrumb trail indicates the current step is '2. Choose Instance Type'. The page title is 'Step 2: Choose an Instance Type'. Below the title, there is a paragraph explaining Amazon EC2 instance types. The 'Filter by' section shows 'All instance types' selected. The 'Currently selected' section displays 't2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)'. A table lists several instance types, with 't2.micro' highlighted. A red arrow points to the 'Review and Launch' button at the bottom right of the table.

	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

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

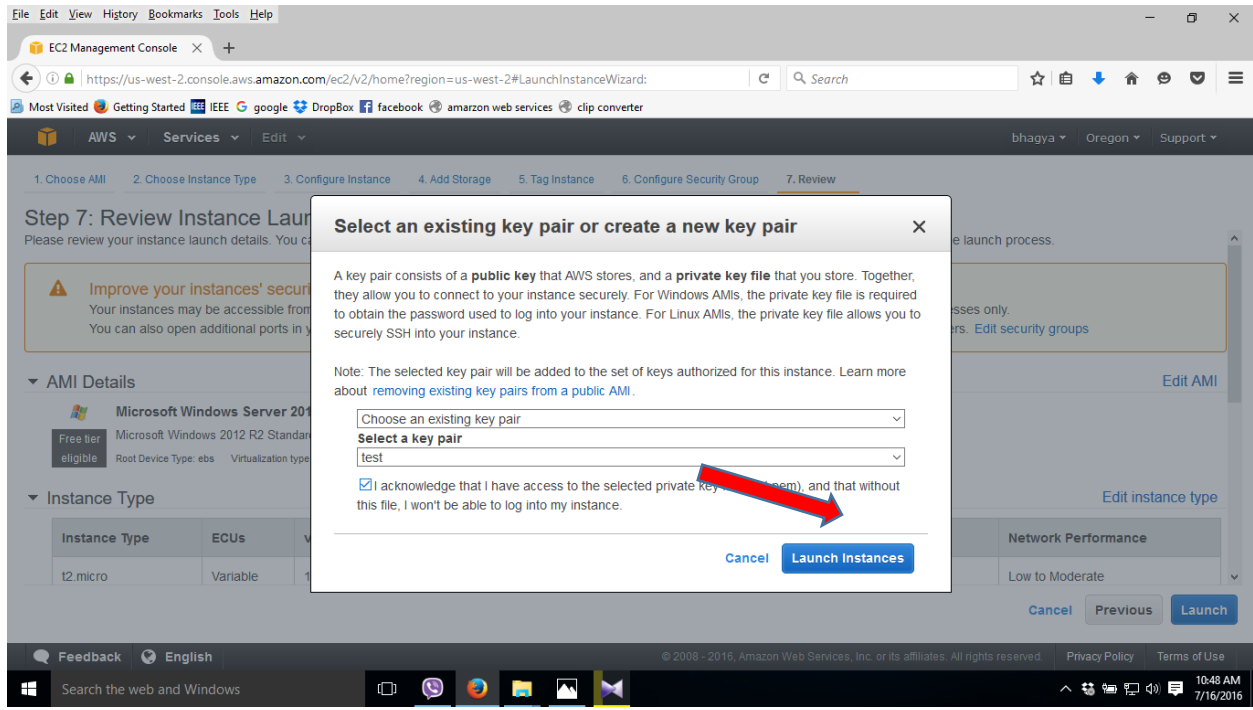
## Step 4: Press launch button

The screenshot shows the AWS Management Console interface for the 'Launch Instance Wizard'. The breadcrumb trail indicates the current step is '7. Review'. The page title is 'Step 7: Review Instance Launch'. Below the title, there is a paragraph explaining the review process. A yellow warning box states: 'Improve your instances' security. Your security group, launch-wizard-3, 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'. The 'AMI Details' section shows 'Microsoft Windows Server 2012 R2 Base - ami-8d0acfed'. The 'Instance Type' section shows a table with 't2.micro' selected. A red arrow points to the 'Launch' button at the bottom right.

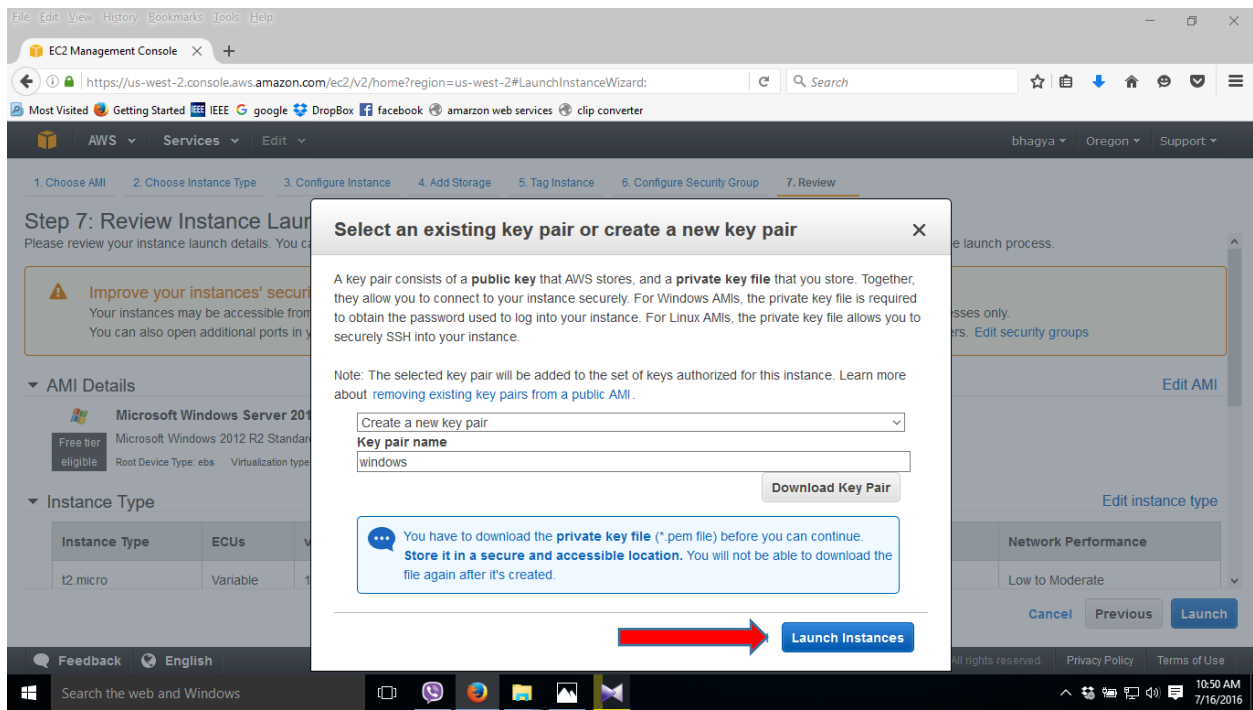
Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Buttons: **Launch**

## Step 5: select new key pair and launch instance



## Step 6: Download the key pair and launch instance



## Step 7: View the successfully launched instance

The screenshot shows the AWS Management Console 'Launch Status' page. The page title is 'Launch Status'. Below the title, there is a section 'How to connect to your instances' with text explaining that instances are launching and may take a few minutes to reach the 'running' state. It also mentions that usage hours start immediately. A link 'Find out how to connect to your instances' is provided. Below this, there is a section 'Here are some helpful resources to get you started' with links to 'Amazon EC2: User Guide', 'Amazon EC2: Microsoft Windows Guide', 'Amazon EC2: Discussion Forum', 'How to connect to your Windows instance', and 'Learn about AWS Free Usage Tier'. Further down, there are links for 'Create status check alarms', 'Create and attach additional EBS volumes', and 'Manage security groups'. At the bottom right, a red arrow points to the 'View Instances' button.

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

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 8: Instance launched

The screenshot shows the AWS Management Console 'Instances' page. The page title is 'Instances'. Below the title, there is a section 'Launch Instance' with a red arrow pointing to it. The page also shows a table of instances with columns: Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS, and Public IP. The table shows one instance with ID 'i-0117117e58df7326c' in the 'running' state. Below the table, there is a section 'Instance: i-0117117e58df7326c' with tabs for 'Description', 'Status Checks', 'Monitoring', and 'Tags'. The 'Description' tab is selected, showing details about the instance, including its Public DNS and Public IP.

EC2 Dashboard

Launch Instance

Connect

Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-0117117e58df7326c	t2.micro	us-west-2b	running	Initializing	None	ec2-54-187-228-100.us-west-2.compute.amazonaws.com	54.187.228.100

Instance: i-0117117e58df7326c

Public DNS: ec2-54-187-228-100.us-west-2.compute.amazonaws.com

Description

Status Checks

Monitoring

Tags

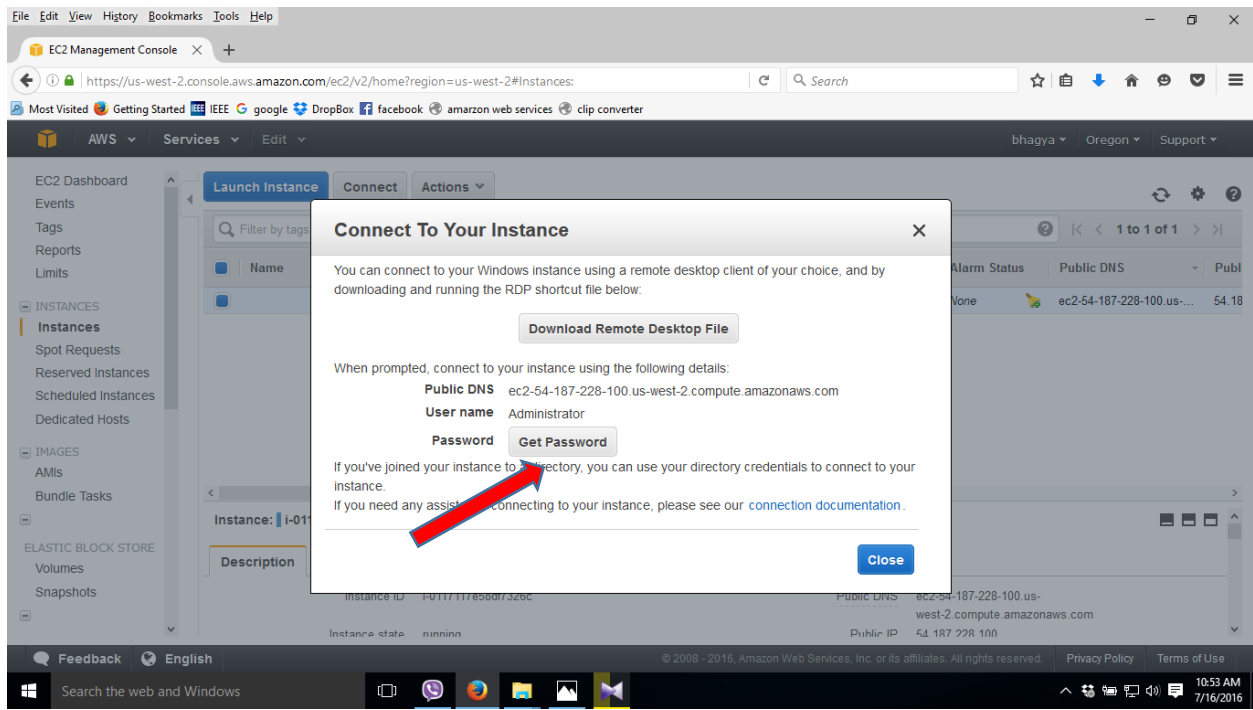
Instance ID: i-0117117e58df7326c

Public DNS: ec2-54-187-228-100.us-west-2.compute.amazonaws.com

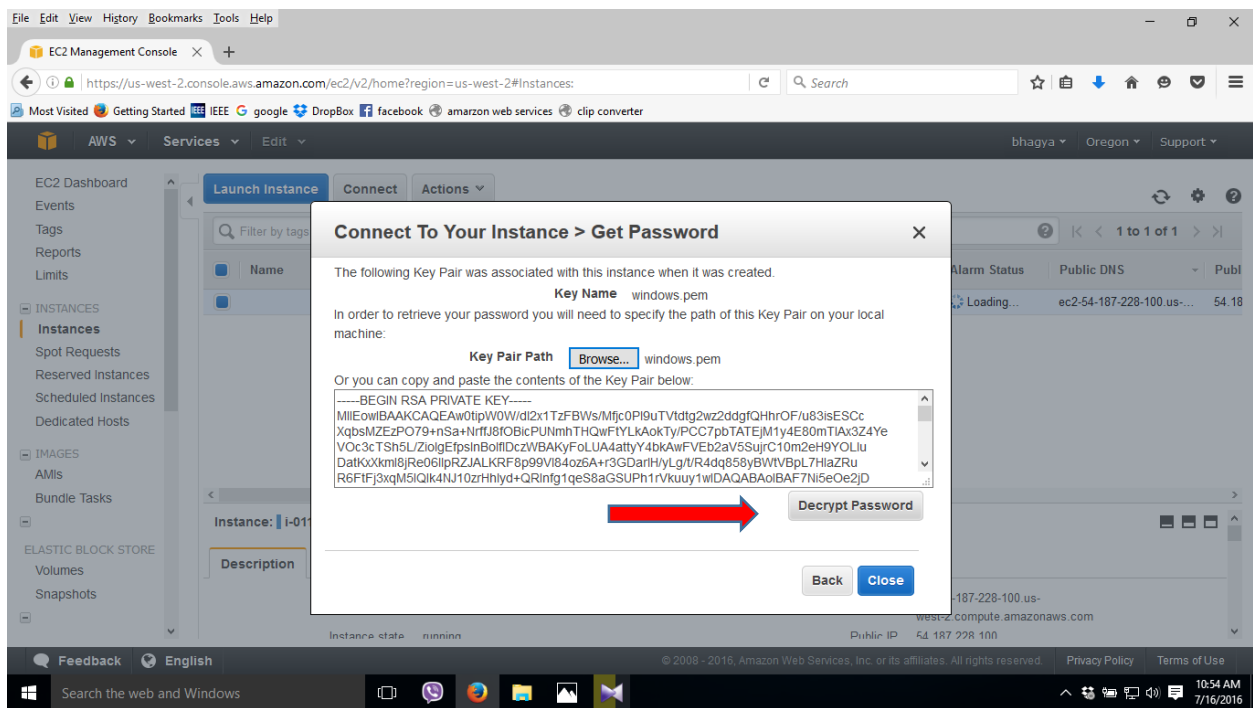
Public IP: 54.187.228.100

Instance state: running

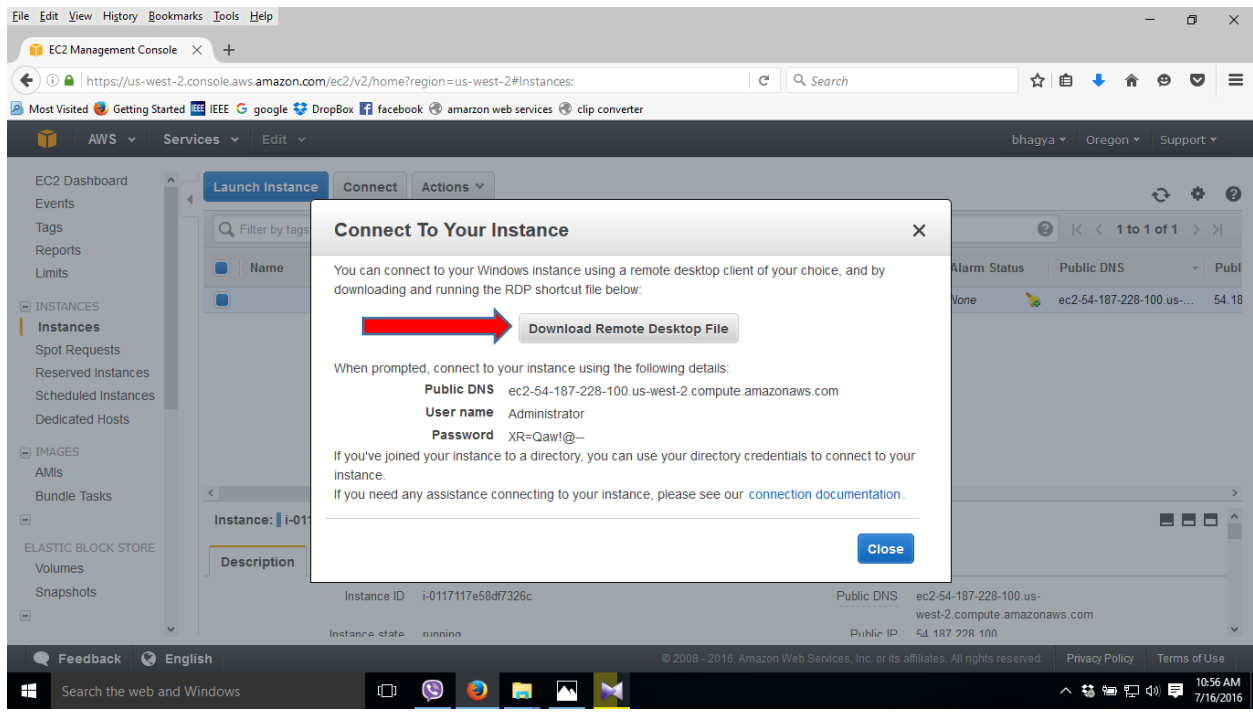
## Step 9: connect to the instance and get password



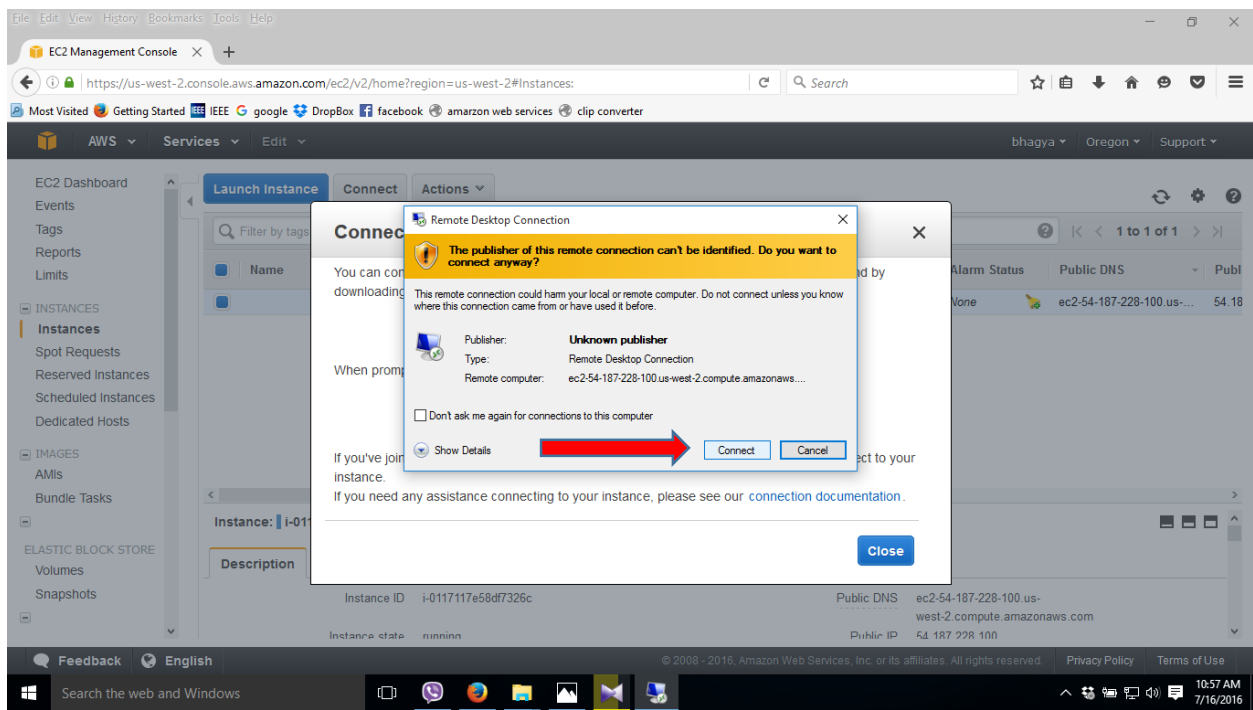
## Step 10: Browse and decrypt the password



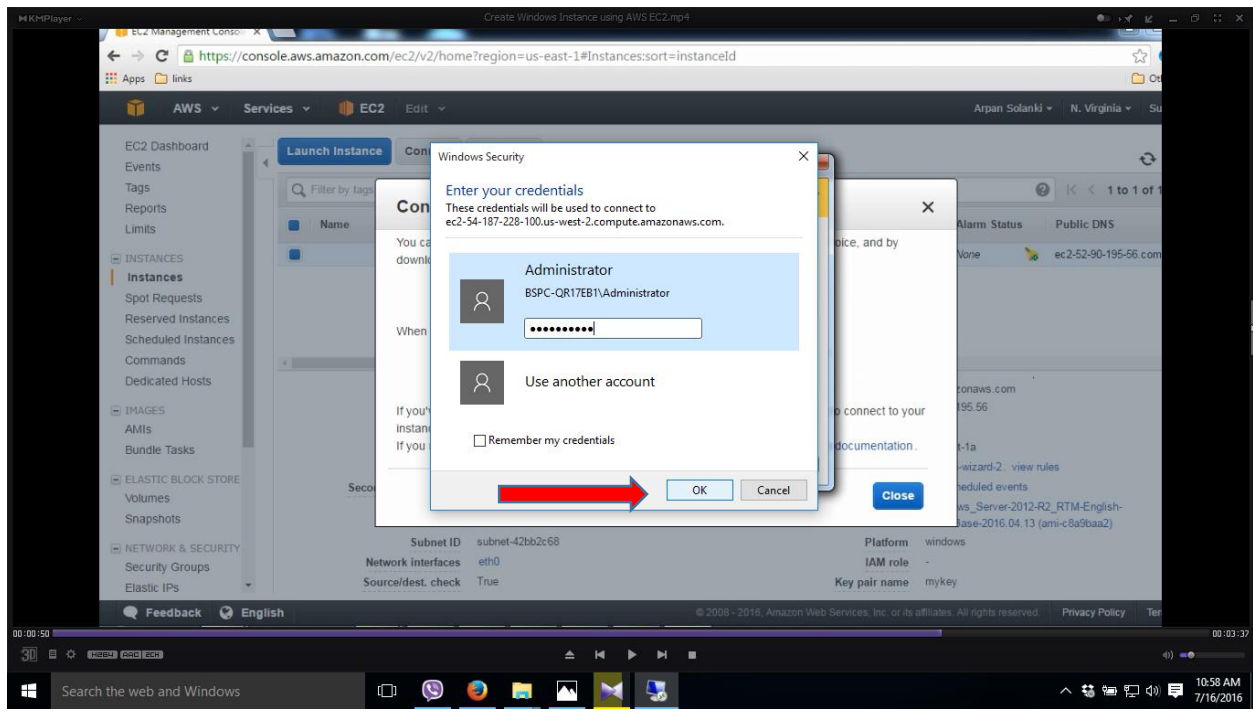
## Step 11: Download the remote desktop file



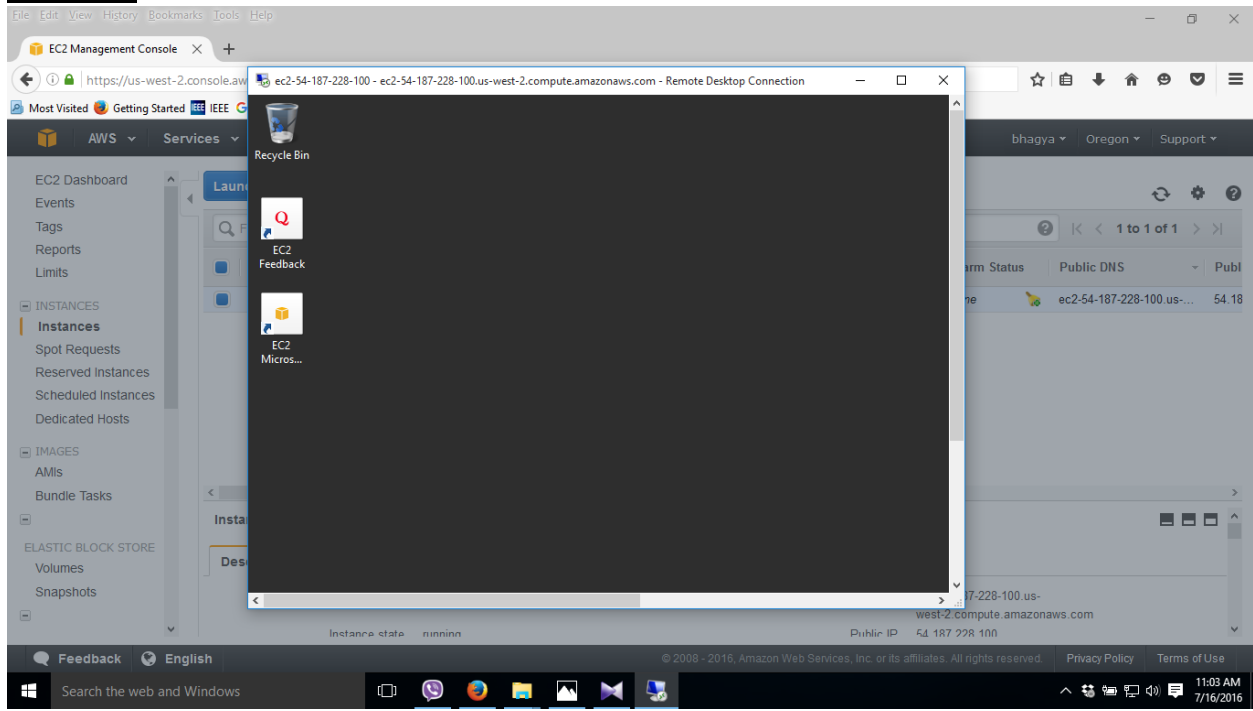
## Step 12: connect



## Step 13: provide the previous given password and connect

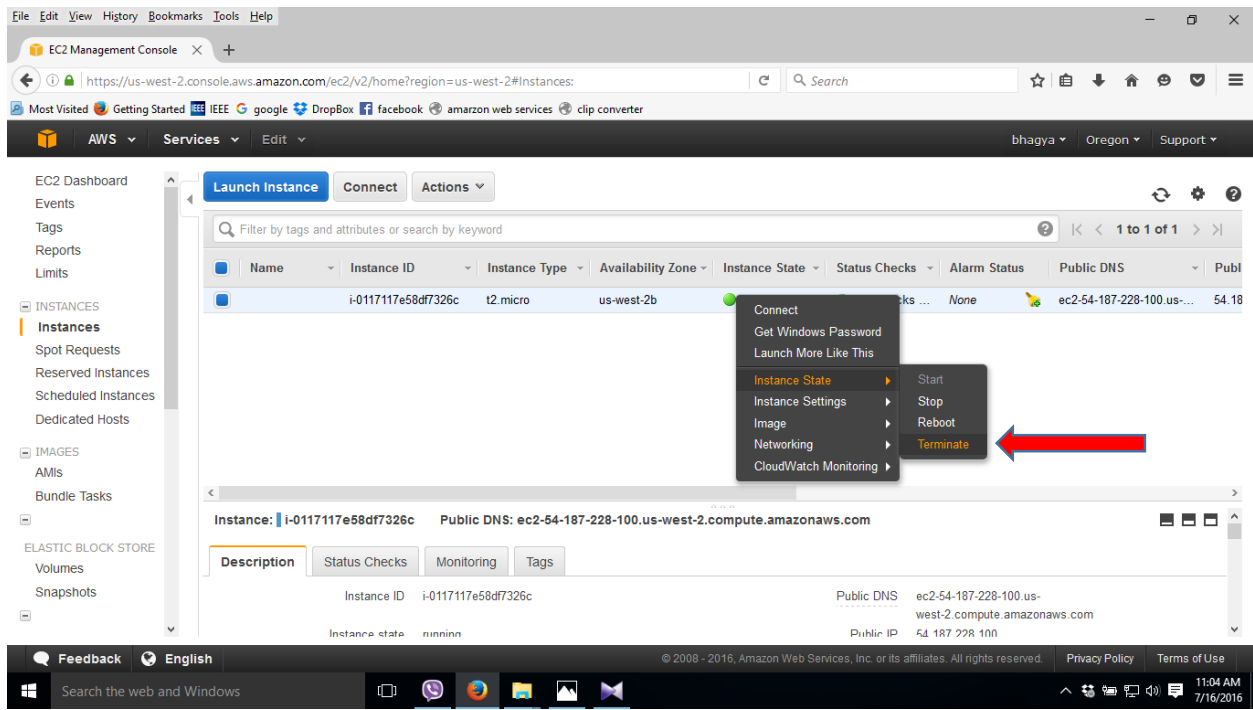


## Step 14:

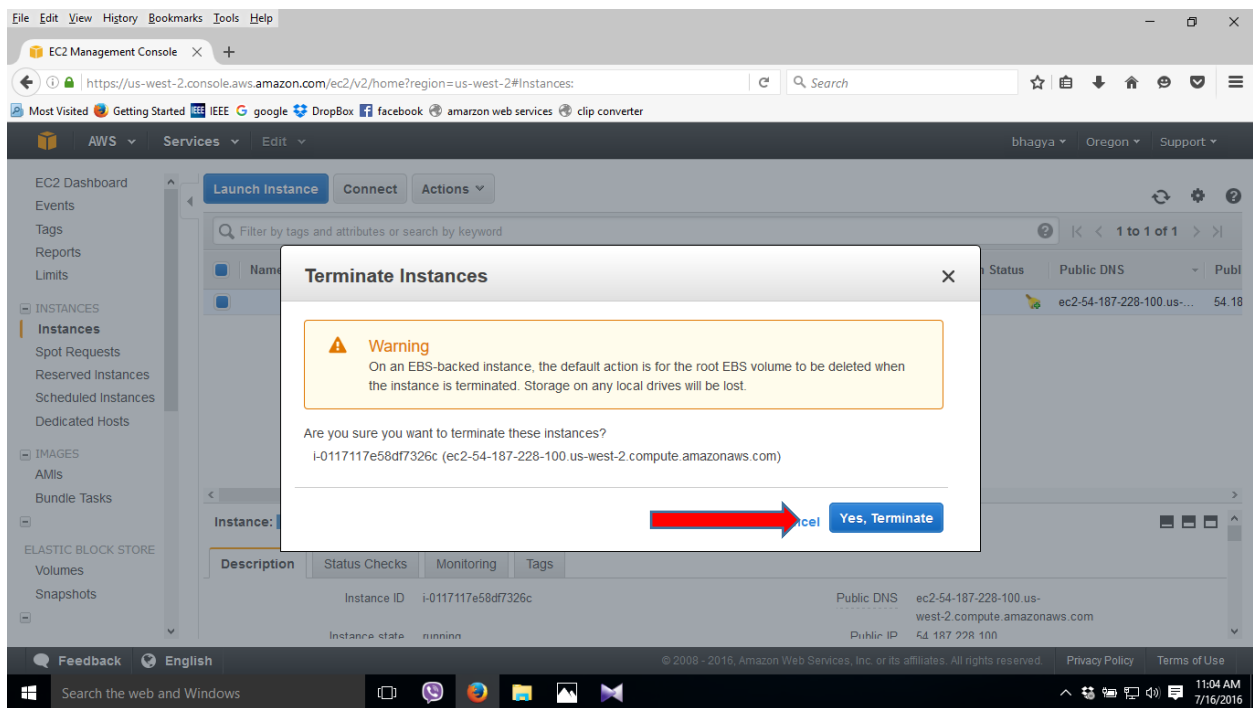




## Step 15 : Terminate the connection

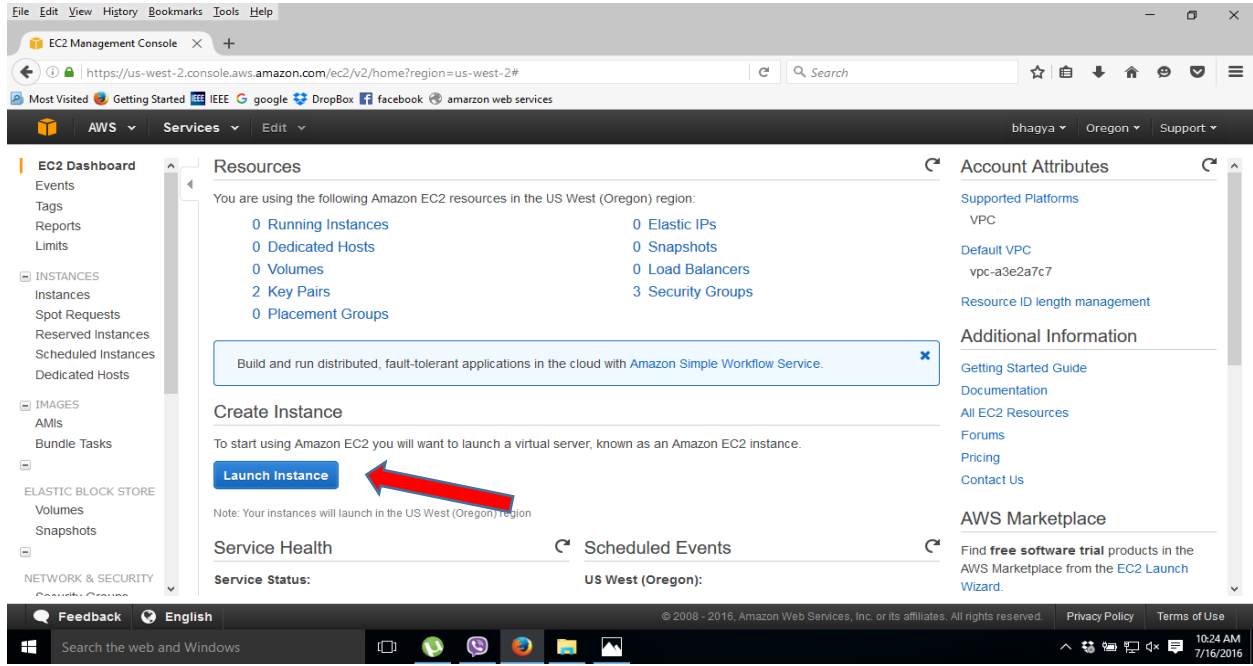


## Step 16:

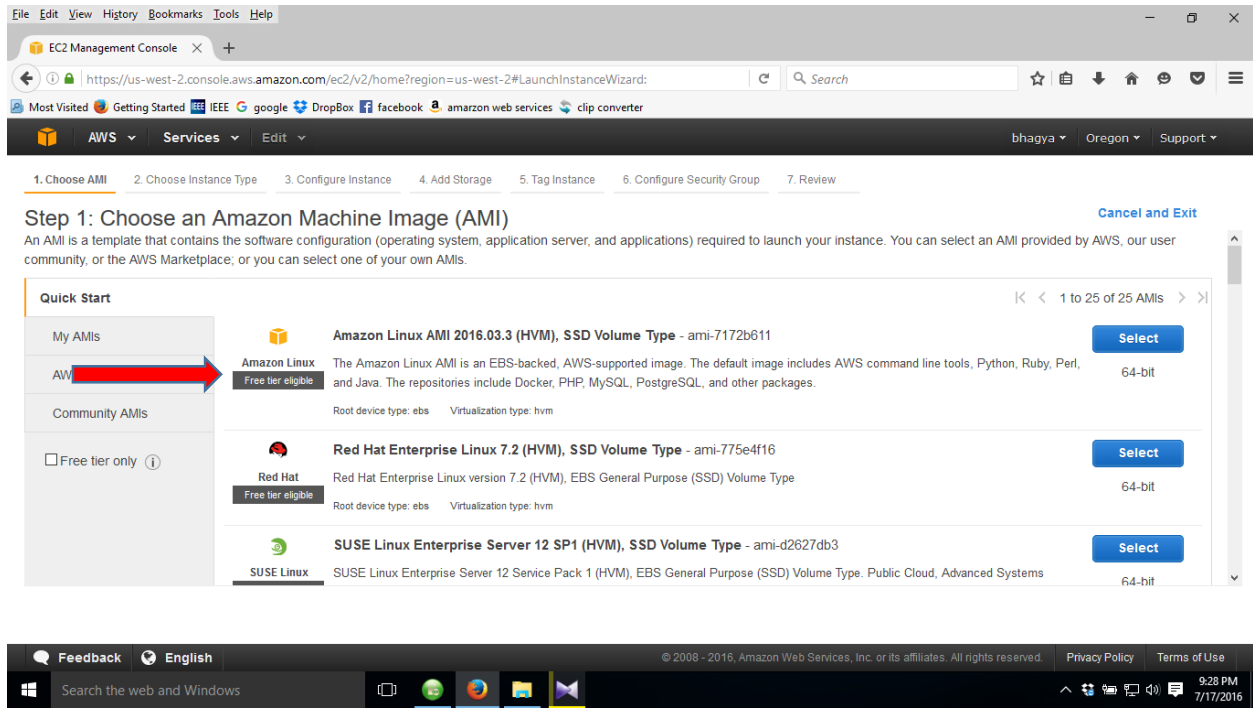


# Create a Linux instance

## Step 1 : select the Launch instance button



## Step 2 :select the amazon Linux AMI option



## Step 3: Go to Configure instance details

EC2 Management Console

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

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

### 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
<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

Cancel Previous Review and Launch Next: Configure Instance Details

## Step 4: Go to add storage

EC2 Management Console

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

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

### 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 Launch into Auto Scaling Group

Purchasing option: ☐ Request Spot instances

Network: vpc-a3e2a7c7 (172.31.0.0/16) (default) Create new VPC

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

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

IAM role: None Create new IAM role

Shutdown behavior: Stop

Enable termination protection: ☐ Protect against accidental termination

Cancel Previous Review and Launch Next: Add Storage

## Step 5: Do the review and launch

EC2 Management Console

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

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

### 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.

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Tag Instance](#)

## Step 6: Select the launch button

EC2 Management Console

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

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Tag Instance 6. Configure Security Group 7. Review

### 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-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](#)

[Edit AMI](#)

**AMI Details**

**Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611**

**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

[Edit instance type](#)

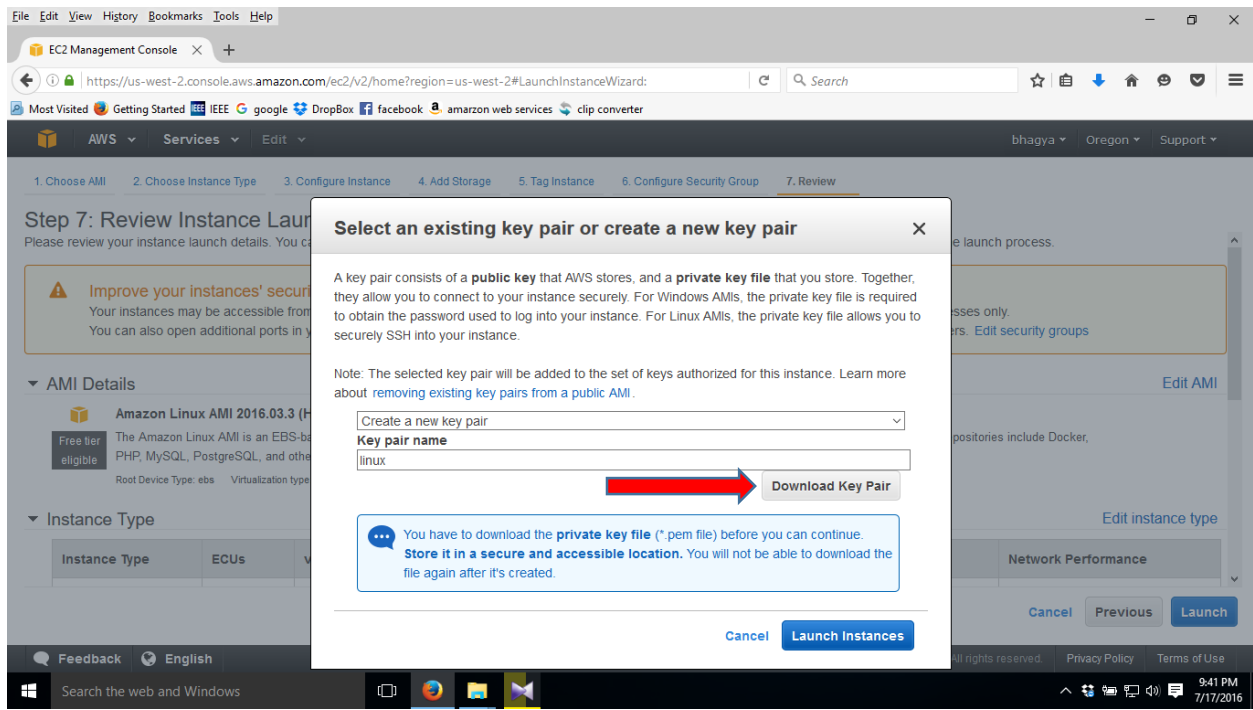
**Instance Type**

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance

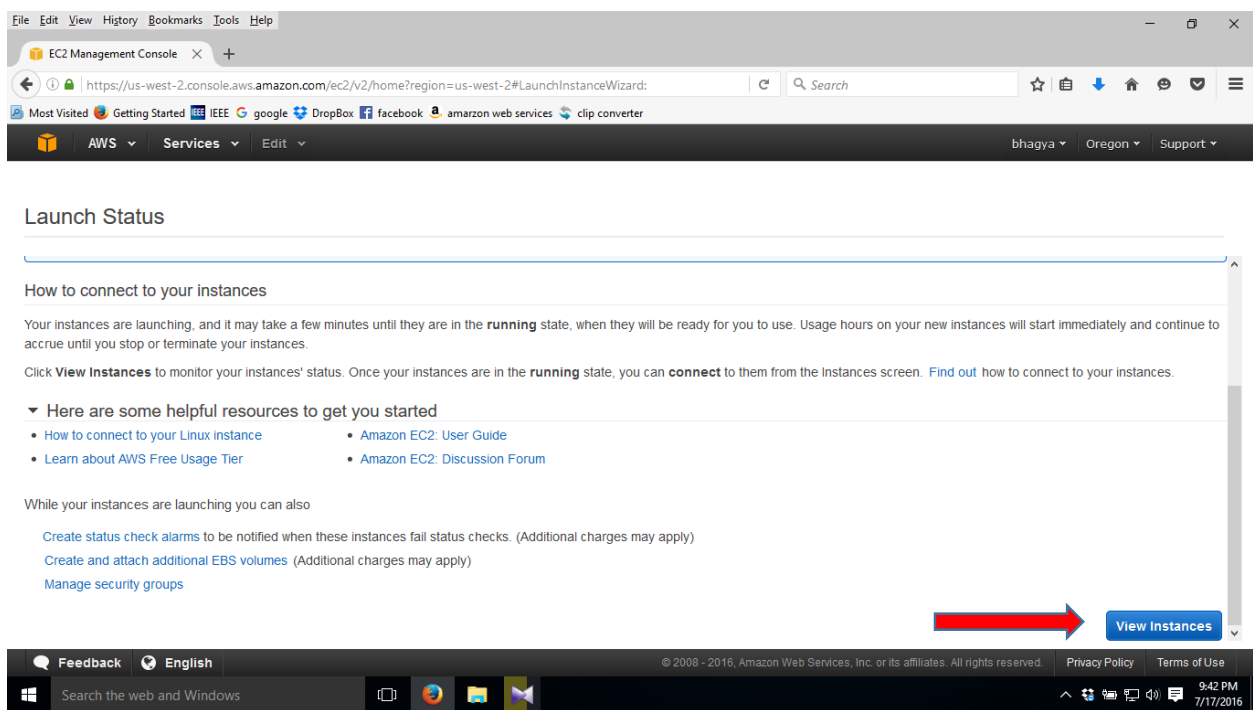
[Launch](#)

Define key pair and launch

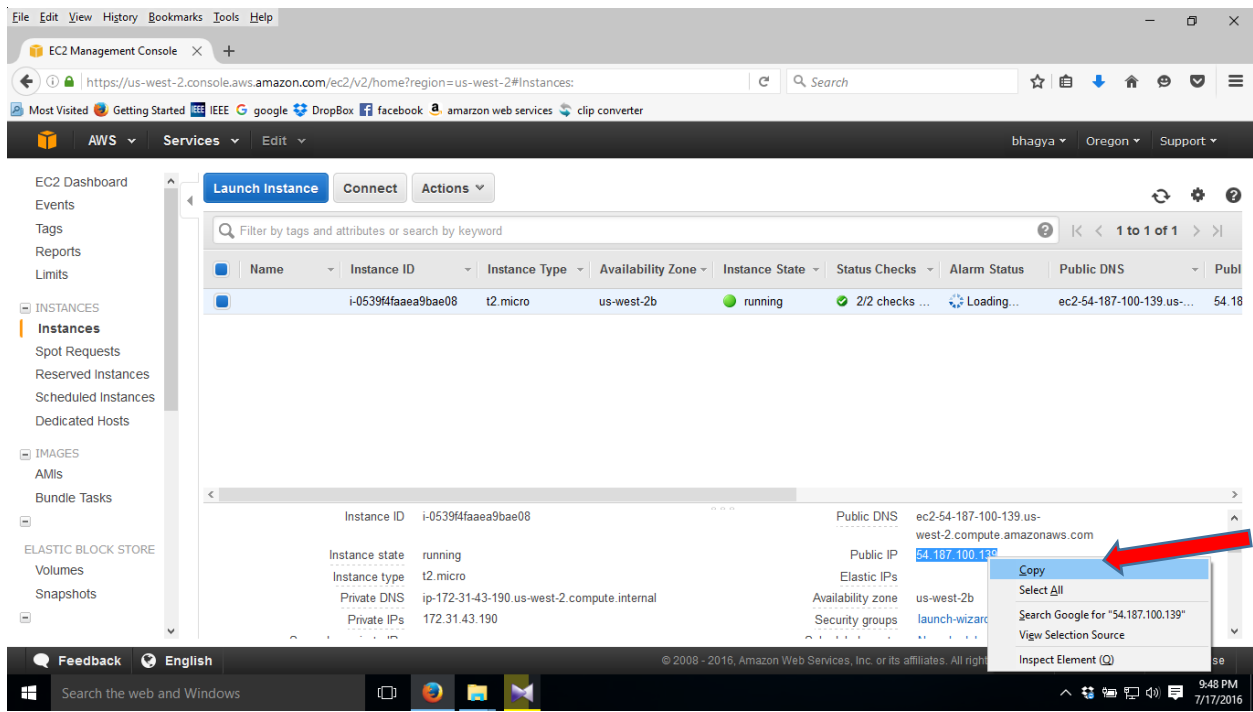
## Step 7: Create a new key pair and download it then launch the instance



## Step 8: view the instance



## Step 9: Copy the public IP

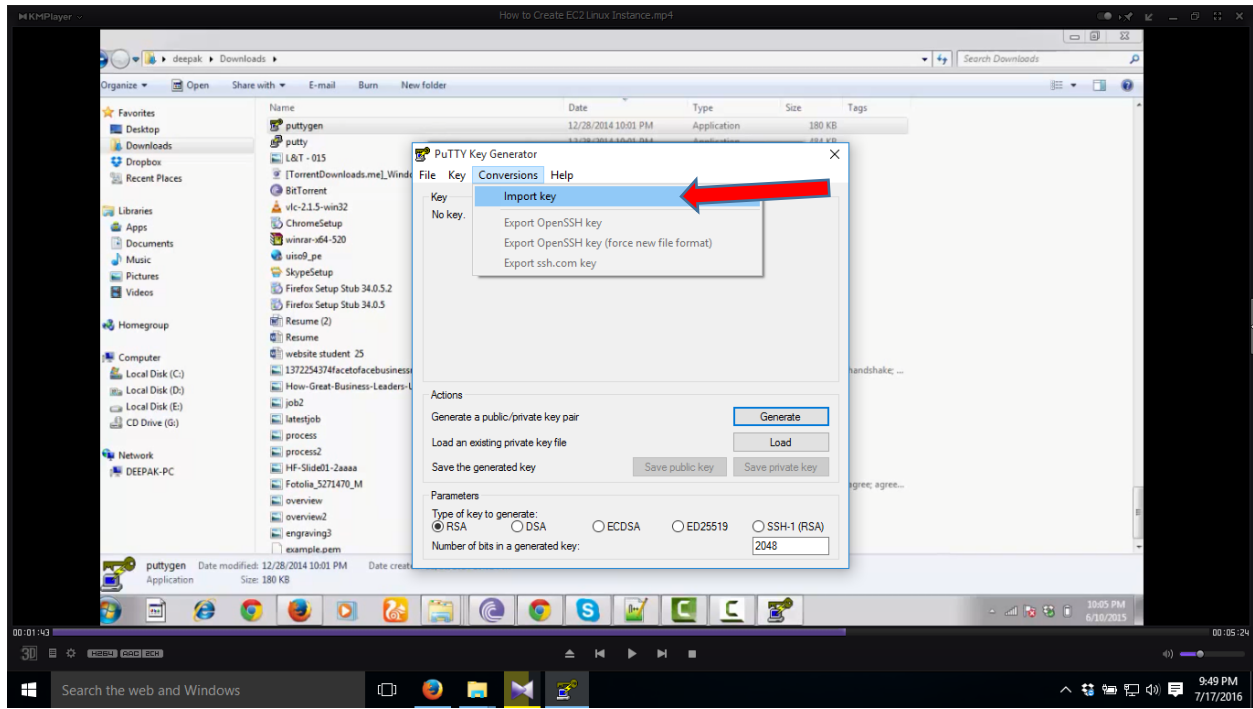


The screenshot shows the AWS Management Console interface. On the left, the navigation pane is visible with categories like INSTANCES, IMAGES, and ELASTIC BLOCK STORE. The main area displays a list of EC2 instances. One instance is selected, and its details are shown in a table below. The public IP address, 54.187.100.139, is highlighted in blue. A red arrow points to the 'Copy' button in the context menu that appears when the IP is right-clicked.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-0539f4faae9bae08	t2.micro	us-west-2b	running	2/2 checks ...	Loading...	ec2-54-187-100-139.us-west-2.compute.amazonaws.com	54.187.100.139

Instance ID	Instance state	Instance type	Private DNS	Private IPs	Public DNS	Public IP	Elastic IPs	Availability zone	Security groups
i-0539f4faae9bae08	running	t2.micro	ip-172-31-43-190.us-west-2.compute.internal	172.31.43.190	ec2-54-187-100-139.us-west-2.compute.amazonaws.com	54.187.100.139		us-west-2b	launch-wizard-1

## Step 10 : Open the putty gen and import the key



The screenshot shows the PuTTY Key Generator window. The 'Key' tab is selected, and the 'Import key' option is highlighted in the 'Conversions' section. A red arrow points to the 'Import key' button. The 'Actions' section shows options to generate, load, or save a key. The 'Parameters' section shows the type of key to generate (RSA) and the number of bits in the generated key (2048).

Key: No key.

Conversions:

- Import key
- Export OpenSSH key
- Export OpenSSH key (force new file format)
- Export ssh.com key

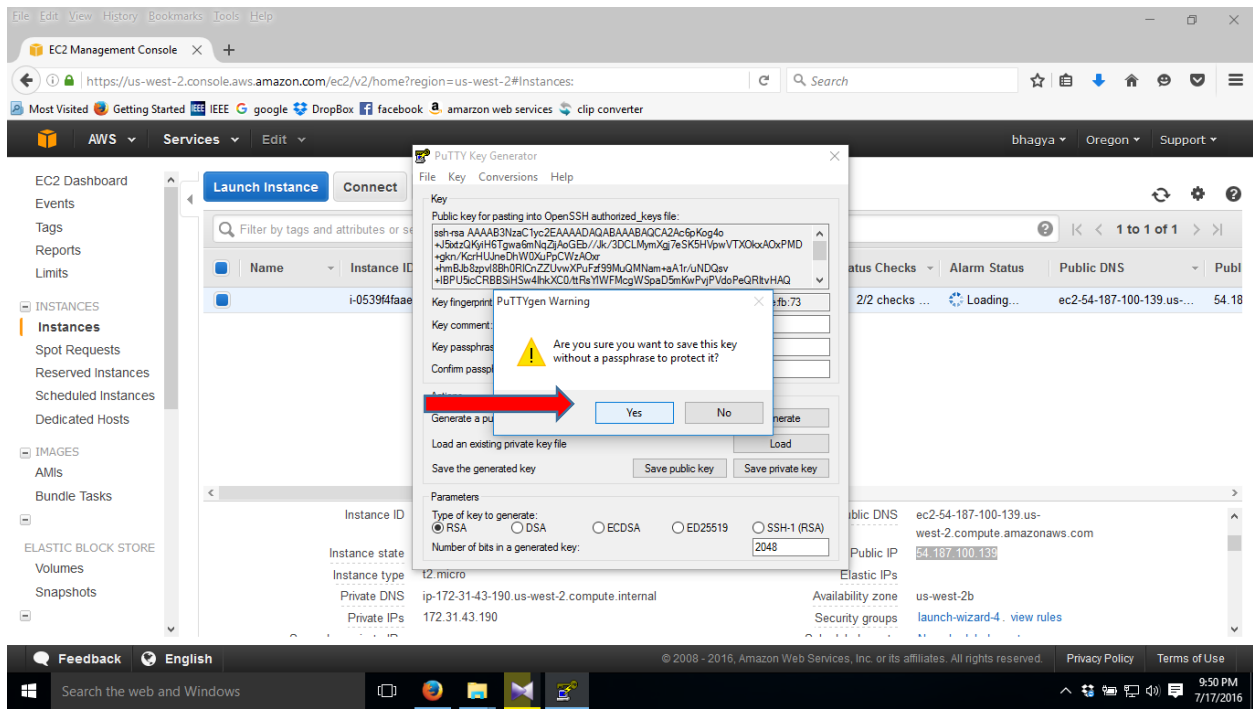
Actions:

- Generate a public/private key pair (Generate)
- Load an existing private key file (Load)
- Save the generated key (Save public key, Save private key)

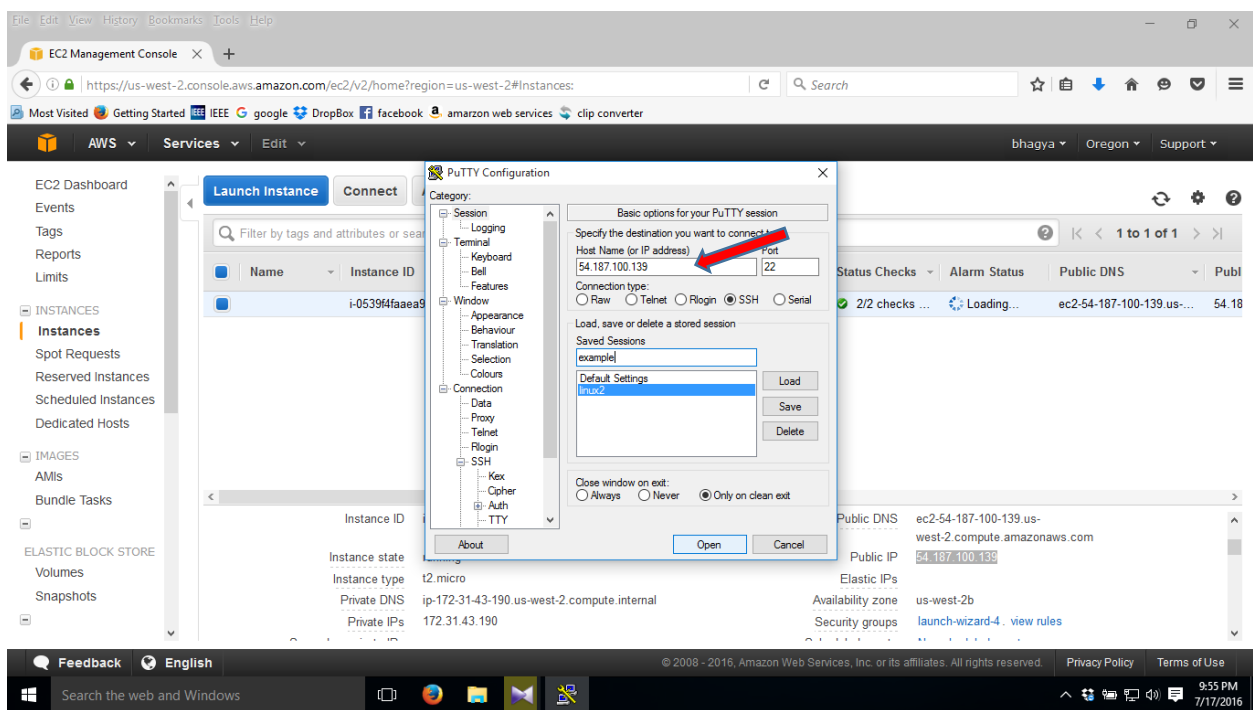
Parameters:

- Type of key to generate: ☒ RSA ☐ DSA ☐ ECDSA ☐ ED25519 ☐ SSH-1 (RSA)
- Number of bits in a generated key: 2048

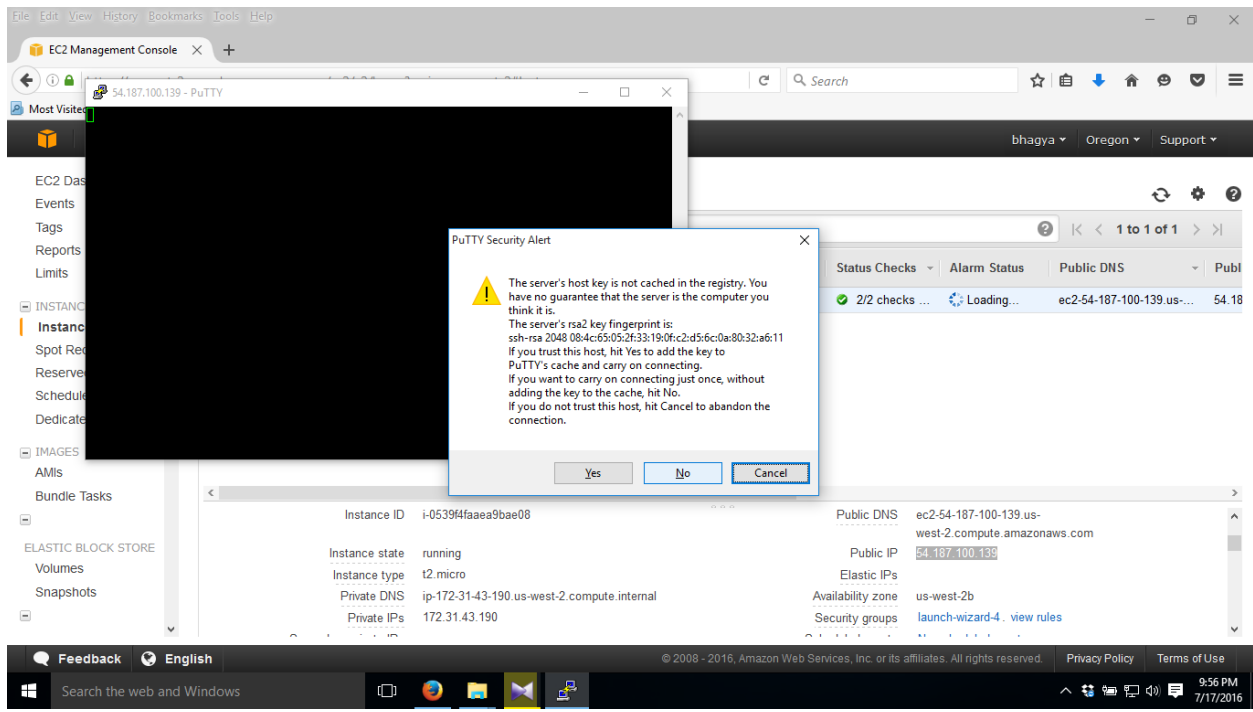
## Step 11: Save the private key



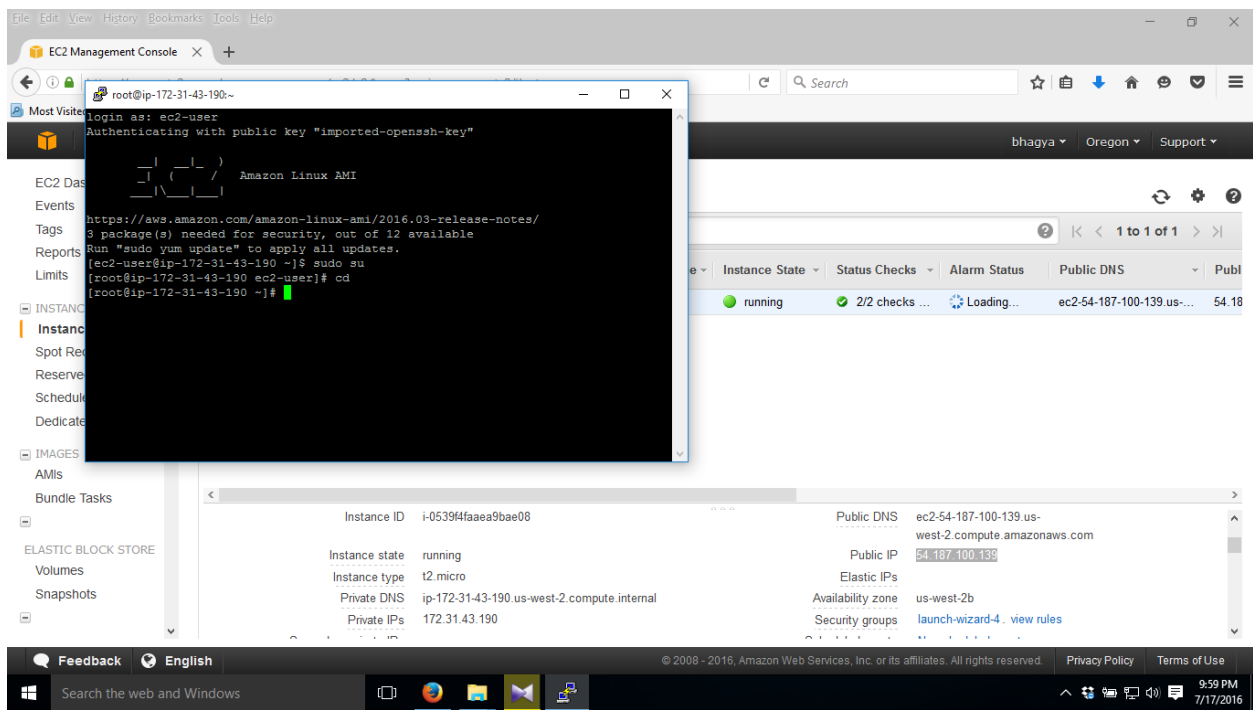
## Step 12: Past the IP address and browsing and open the saved private key



## Step 13: Open the putty

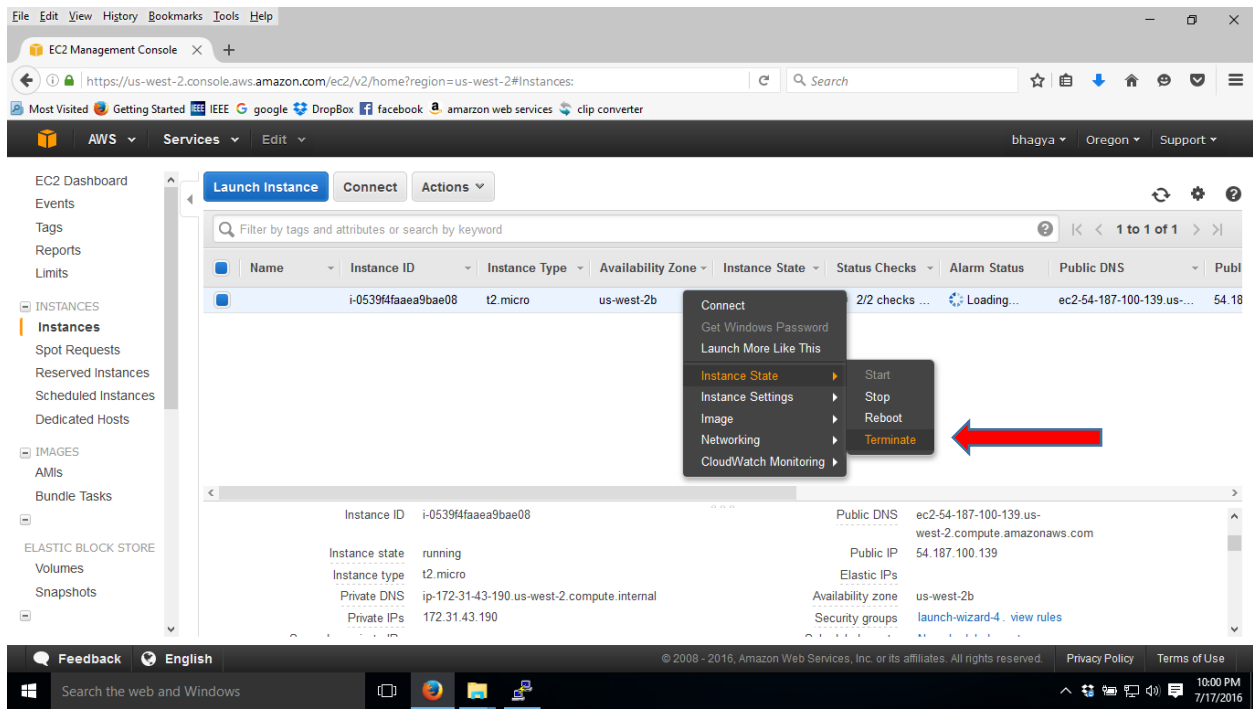


## Step 14: Run the command





## Step 15 : Terminate the connection



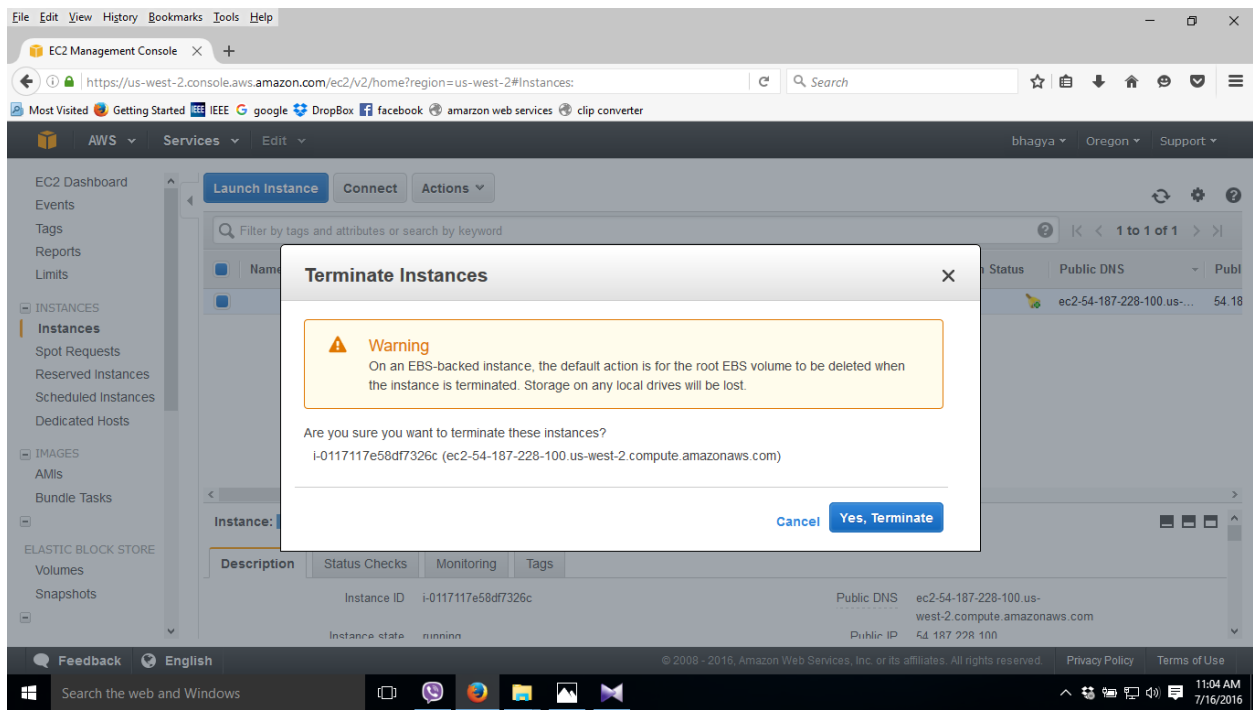
The screenshot shows the AWS Management Console interface. On the left, the navigation pane lists various services, with 'INSTANCES' expanded. The main content area displays a table of EC2 instances. The first instance, 'i-0539f4faaea9bae08', is selected. A context menu is open over this instance, showing options like 'Connect', 'Get Windows Password', and 'Instance State'. The 'Instance State' sub-menu is open, and the 'Terminate' option is highlighted with a red arrow. Below the table, a detailed view of the selected instance is shown, including its state (running), type (t2.micro), and network configuration.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-0539f4faaea9bae08	t2.micro	us-west-2b	running	2/2 checks ...	Loading...	ec2-54-187-100-139.us-west-2.compute.amazonaws.com	54.187.100.139

Instance details for i-0539f4faaea9bae08:

- Instance state: running
- Instance type: t2.micro
- Private DNS: ip-172-31-43-190.us-west-2.compute.internal
- Private IPs: 172.31.43.190
- Public DNS: ec2-54-187-100-139.us-west-2.compute.amazonaws.com
- Public IP: 54.187.100.139
- Elastic IPs: None
- Availability zone: us-west-2b
- Security groups: launch-wizard-4 - view rules

## Step 16:



The screenshot shows the AWS Management Console interface with the 'Terminate Instances' dialog box open. The dialog box contains a warning message: 'Warning: On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.' Below the warning, it asks 'Are you sure you want to terminate these instances?' and lists the instance ID 'i-0117117e58df7326c'. The 'Yes, Terminate' button is highlighted.

Warning

On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

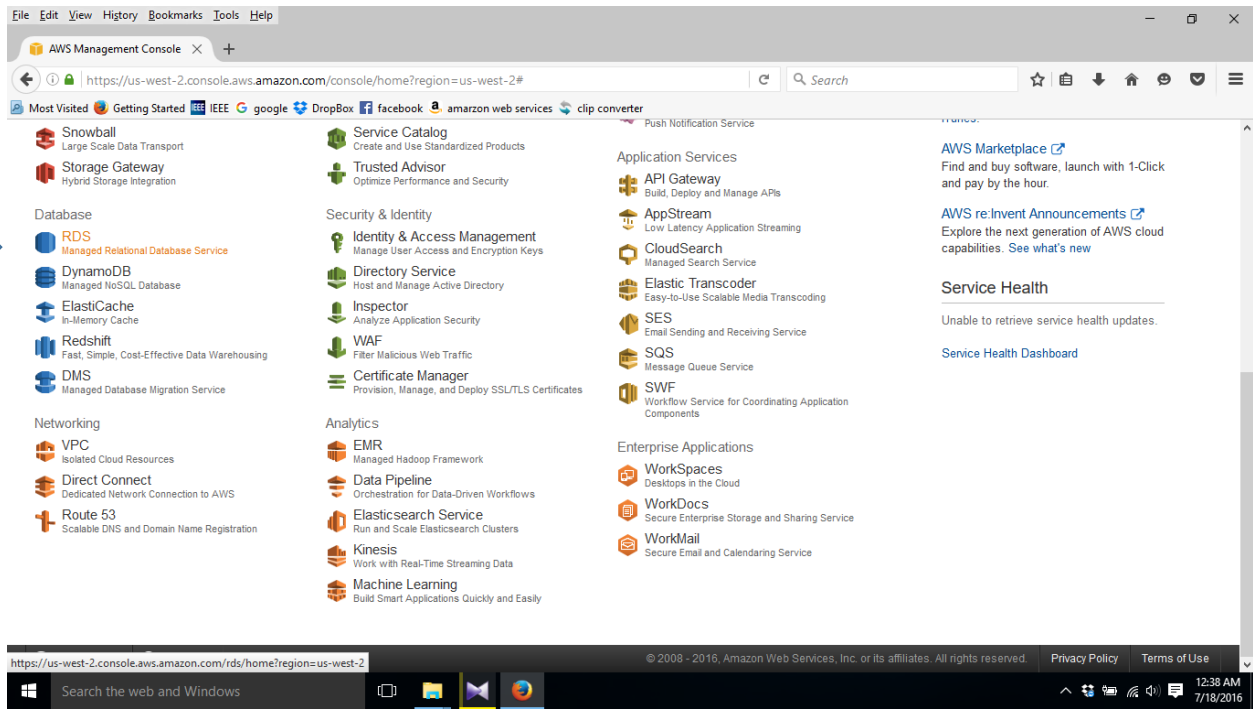
Are you sure you want to terminate these instances?

i-0117117e58df7326c (ec2-54-187-228-100.us-west-2.compute.amazonaws.com)

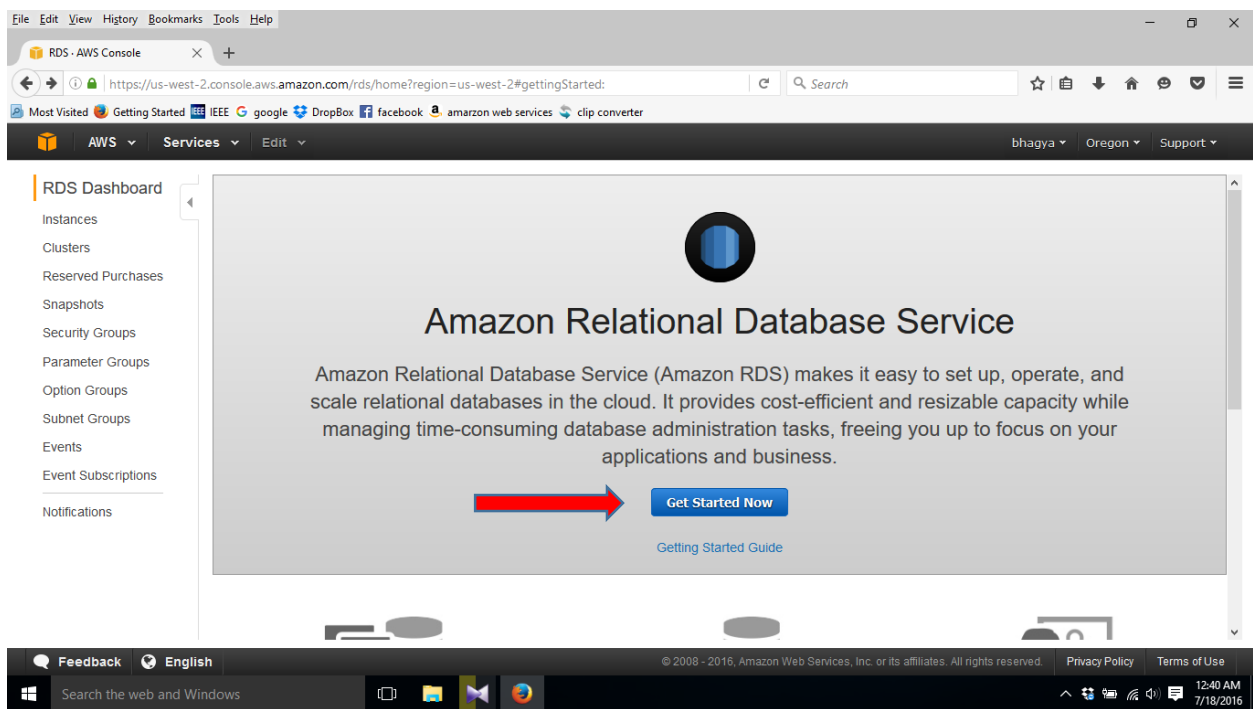
Cancel Yes, Terminate

# Create relational database service

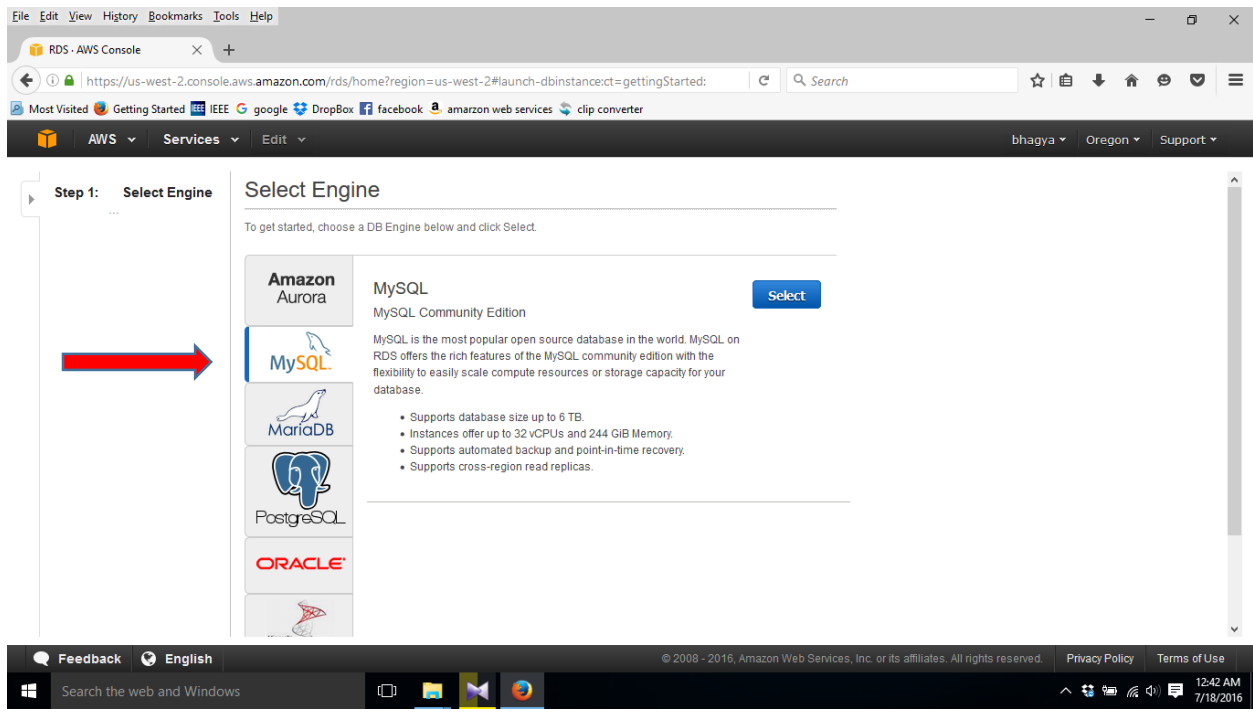
## Step 1: select the RDB in Database



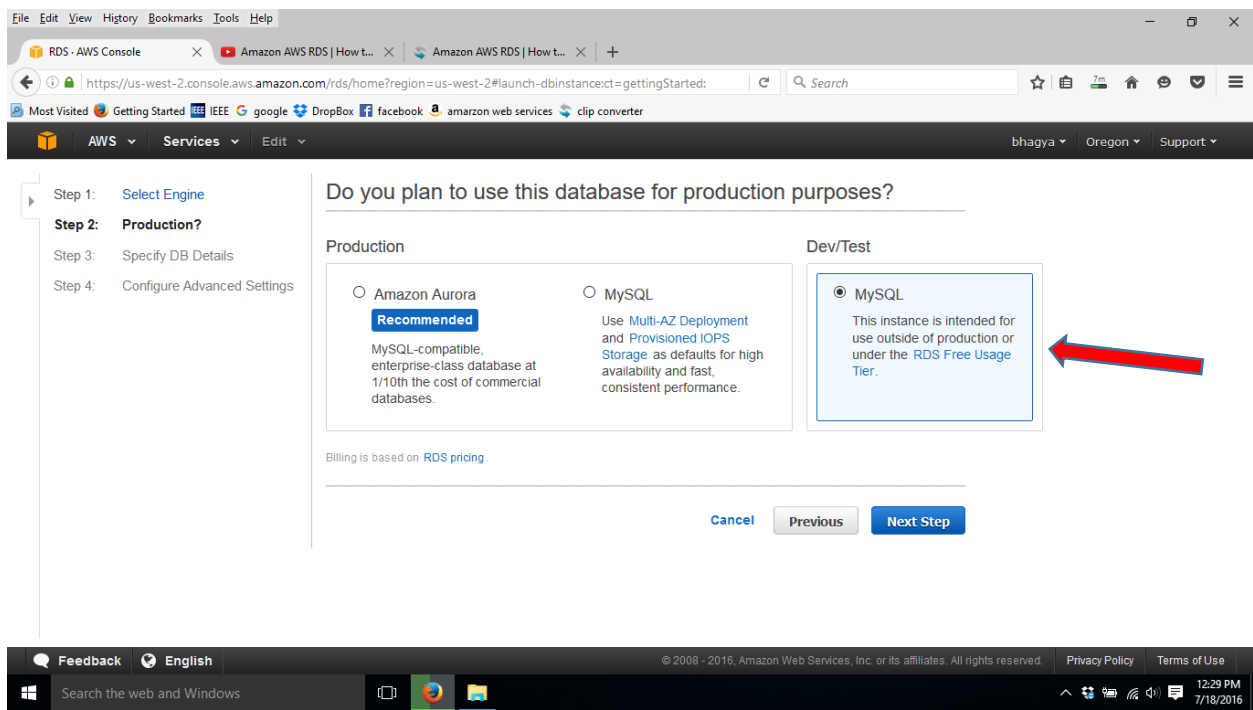
## Step 2: Start the Relational database service



## Step 3: Select MYSQL



## Step 4: select MYSQL free sage tier



## Step 5: Select DB instance class as micro

File Edit View History Bookmarks Tools Help

RDS - AWS Console Amazon AWS RDS | How to cr... Amazon AWS RDS | How to cr... +

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted: Search

Most Visited Getting Started IEEE google DropBox facebook amazon web services clip converter

AWS Services Edit bhagya Oregon Support

Step 1: [Select Engine](#)  
Step 2: [Production?](#)  
**Step 3: Specify DB Details**  
Step 4: [Configure Advanced Settings](#)

**Free Tier**  
The Amazon RDS Free Tier provides a single db.t2.micro instance as well as up to 20 GB of storage, allowing new AWS customers to gain hands-on experience with Amazon RDS. Learn more about the RDS Free Tier and the instance restrictions [here](#).  
☐ Only show options that are eligible for RDS Free Tier

**Instance Specifications**

DB Engine mysql  
License Model general-public-license  
DB Engine Version 5.6.19a

Review the [Known Issues/Limitations](#) to learn about potential compatibility issues with specific database versions.

DB Instance Class db.t2.micro — 1 vCPU, 1 GiB RAM  
Multi-AZ Deployment No

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

Search the web and Windows 12:37 PM 7/18/2016

## Step 6:

File Edit View History Bookmarks Tools Help

RDS - AWS Console Amazon AWS RDS | How to cr... Amazon AWS RDS | How to cr... +

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted: Search

Most Visited Getting Started IEEE google DropBox facebook amazon web services clip converter

AWS Services Edit bhagya Oregon Support

Your current selection is eligible for the free tier. [Learn More.](#)  
Estimate your monthly costs for the DB Instance using the [RDS Instance Cost Calculator](#).

**Instance Specifications**

DB Engine mysql  
License Model general-public-license  
DB Engine Version 5.6.19a

Review the [Known Issues/Limitations](#) to learn about potential compatibility issues with specific database versions.

DB Instance Class db.t2.micro — 1 vCPU, 1 GiB RAM  
Multi-AZ Deployment No

Storage Type General Purpose (SSD)  
Allocated Storage\* 5 GB

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) I/O credit balance. [Click here](#) for more details.

Settings

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

Search the web and Windows 12:38 PM 7/18/2016

## Step 7: Select the username and password

The screenshot shows the Amazon RDS console with the 'Create DB Instance' wizard. The 'Storage Type' is set to 'General Purpose (SSD)' and 'Allocated Storage' is 5 GB. A warning message 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.' The 'Settings' section includes 'DB Instance Identifier' (testDbInstance), 'Master Username' (testuser), 'Master Password' (masked with dots), and 'Confirm Password' (masked with dots). A note on the right says 'Retype the value you specified for Master Password.' At the bottom, there are 'Cancel', 'Previous', and 'Next Step' buttons.

## Step 8: Do the configuration setting

The screenshot shows the Amazon RDS console with the 'Create DB Instance' wizard. The 'Configure Advanced Settings' section is active. Under 'Network & Security', 'VPC' is set to 'Default VPC (vpc-a3e2a7c7)', 'Subnet Group' is 'default', 'Publicly Accessible' is 'Yes', 'Availability Zone' is 'No Preference', and 'VPC Security Group(s)' is 'Create new Security Group'. Under 'Database Options', 'Database Name' is 'users' and 'Database Port' is '3306'. A note states: 'Note: If no database name is specified then no initial MySQL database will be created on the DB Instance.' At the bottom, there are 'Cancel', 'Previous', and 'Next Step' buttons.

## Step 9:

The screenshot shows the Amazon RDS console configuration page for a new database instance. The browser address bar shows the URL: `https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:`. The console header includes the AWS logo, navigation tabs (AWS, Services, Edit), and user information (bhagya, Oregon, Support).

**Configuration Fields:**

- Database Name:**
- Database Port:**
- DB Parameter Group:**
- Option Group:**
- Copy Tags To Snapshots:** ☐
- Enable Encryption:**

**Backup Section:**

Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to detail [here](#).

- Backup Retention Period:**  days
- Backup Window:**

**Monitoring Section:**

- Enable Enhanced Monitoring:**

The bottom of the console shows a feedback bar, language selection (English), copyright notice (© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved.), and links to Privacy Policy and Terms of Use. The Windows taskbar at the bottom shows the search bar and system tray with the time 12:44 PM on 7/18/2016.

## Step 10: Created the DB instant

The screenshot shows the Amazon RDS console after the database instance has been created. The browser address bar shows the same URL as in Step 9. The console header is identical.

**Left Navigation Panel:**

- Step 1: [Select Engine](#)
- Step 2: [Production?](#)
- Step 3: [Specify DB Details](#)
- Step 4: [Configure Advanced Settings](#)

**Main Content Area:**

**✓ Your DB Instance is being created.**

Note: Your instance may take a few minutes to launch.

**Connecting to your DB Instance**

You will be unable to connect to your database instance unless you have previously authorized access on your chosen security group.

[Go to the Security Groups Page](#)

**Related AWS Services**

**Amazon ElastiCache**

Add a managed Memcached or Redis-compatible in-memory cache to speed up your database access.

[Click here to learn more and launch your Cache Cluster](#)

[View Your DB Instances](#)

The bottom of the console shows the same feedback bar, language selection, copyright notice, and links to Privacy Policy and Terms of Use. The Windows taskbar at the bottom shows the search bar and system tray with the time 12:47 PM on 7/18/2016.

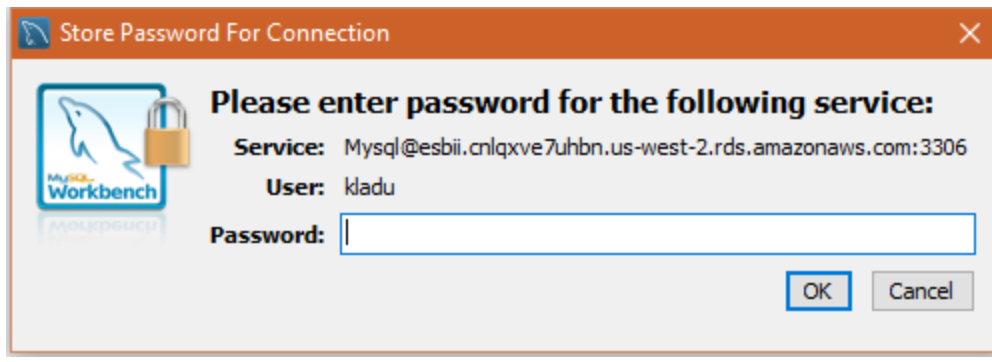
## Step 10: Instance Details

The screenshot shows the AWS RDS console interface. The left sidebar contains navigation links: Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups, Events, Event Subscriptions, and Notifications. The main content area displays the details for an Amazon RDS instance. The instance is named 'esbii' and is of class 'db.t2.micro'. It is running MySQL 5.6.19a. The instance is in the 'available' state. The endpoint is 'esbii.cn1qxve7uhbn.us-west-2.rds.amazonaws.com:3306'. The instance is publicly accessible. The security groups are 'rds-launch-wizard (sg-1d48157b)' and 'rds-launch-wizard (sg-1d48157b)'. The VPC is 'vpc-9da1e5f9'. The subnets are 'subnet-a15cd0d7', 'subnet-49e63211', and 'subnet-7882f71c'. The instance is in the 'us-west-2c' availability zone. The license model is 'General Public License'. The created time is 'July 30, 2016 at 3:49:55 PM UTC+5:30'. The DB name is 'esbii'. The username is 'kladu'. The option group is 'default:mysql-5-6 (in-sync)'. The parameter group is 'default:mysql5.6 (in-sync)'. The copy tags to snapshots is 'No'. The resource ID is 'db-HYA45HEZEATFS5H7TG3DUOCV1'. The instance class is 'db.t2.micro'. The storage type is 'General Purpose (SSD)'. The IOPS is 'disabled'. The storage is '5 GB'. The encryption details show 'Encryption Enabled' as 'No'. The availability and durability details show 'DB Instance Status' as 'available', 'Multi AZ' as 'No', 'Automated Backups' as 'Enabled (7 Days)', and 'Latest Restore Time' as 'July 30, 2016 at 3:55:00 PM'. The maintenance details show 'Auto Minor Version Upgrade' as 'Yes', 'Maintenance Window' as 'Tue:07:48-tue:08:18', 'Backup Window' as '11:53-12:23', and 'Pending Maintenance' as 'None'.

## Step 11:

The screenshot shows the AWS RDS console interface. The left sidebar contains navigation links: Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups, Events, Event Subscriptions, and Notifications. The main content area displays the details for an Amazon RDS instance. The instance is named 'esbii' and is of class 'db.t2.micro'. It is running MySQL 5.6.19a. The instance is in the 'available' state. The endpoint is 'esbii.cn1qxve7uhbn.us-west-2.rds.amazonaws.com:3306'. The instance is publicly accessible. The security groups are 'rds-launch-wizard (sg-1d48157b)' and 'rds-launch-wizard (sg-1d48157b)'. The VPC is 'vpc-9da1e5f9'. The subnets are 'subnet-a15cd0d7', 'subnet-49e63211', and 'subnet-7882f71c'. The instance is in the 'us-west-2c' availability zone. The license model is 'General Public License'. The created time is 'July 30, 2016 at 3:49:55 PM UTC+5:30'. The DB name is 'esbii'. The username is 'kladu'. The option group is 'default:mysql-5-6 (in-sync)'. The parameter group is 'default:mysql5.6 (in-sync)'. The copy tags to snapshots is 'No'. The resource ID is 'db-HYA45HEZEATFS5H7TG3DUOCV1'. The instance class is 'db.t2.micro'. The storage type is 'General Purpose (SSD)'. The IOPS is 'disabled'. The storage is '5 GB'. The encryption details show 'Encryption Enabled' as 'No'. The availability and durability details show 'DB Instance Status' as 'available', 'Multi AZ' as 'No', 'Automated Backups' as 'Enabled (7 Days)', and 'Latest Restore Time' as 'July 30, 2016 at 3:55:00 PM'. The maintenance details show 'Auto Minor Version Upgrade' as 'Yes', 'Maintenance Window' as 'Tue:07:48-tue:08:18', 'Backup Window' as '11:53-12:23', and 'Pending Maintenance' as 'None'.

## Step 12: Enter the password



## Step 13: Open the MYSQL Workbench

