

# **Enterprise Standards and Best Practices for IT Infrastructure**

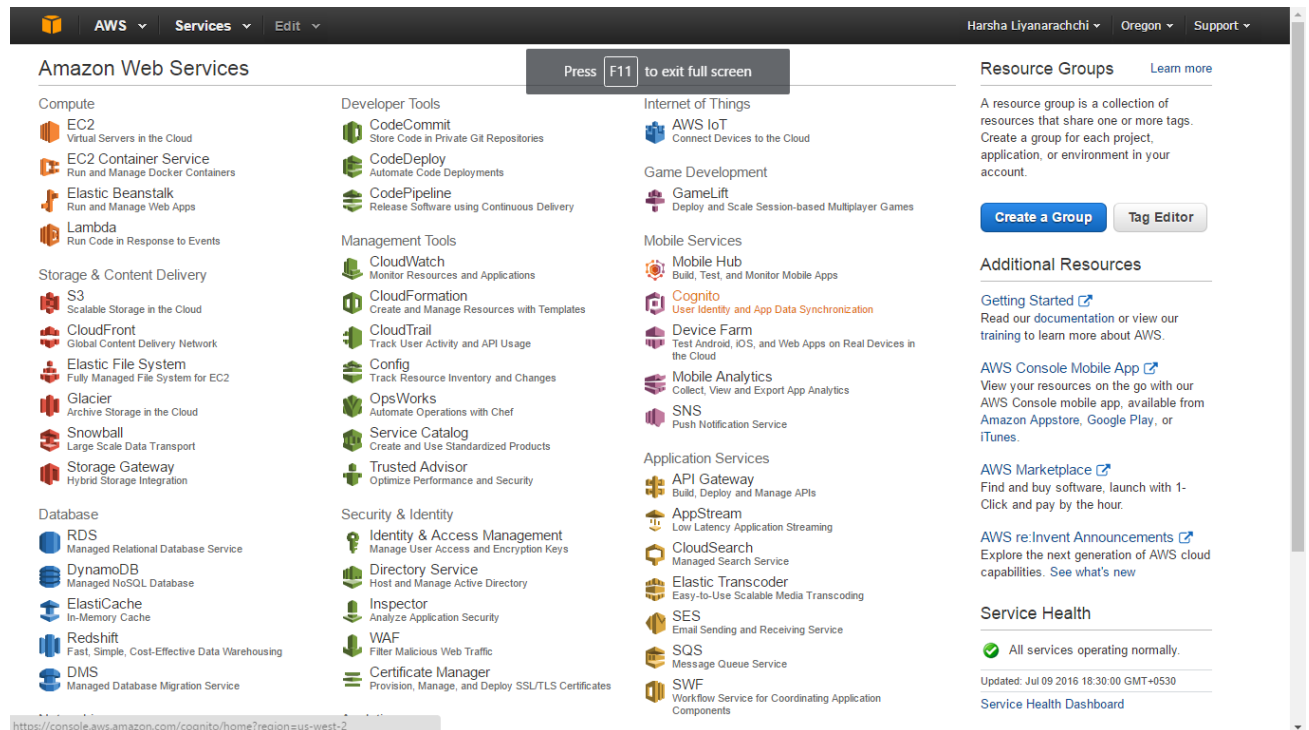
## **Lab 2 - Creating an Amazon EBS-Backed Windows AMI**

**Liyanarachchi H.P - IT13119836**

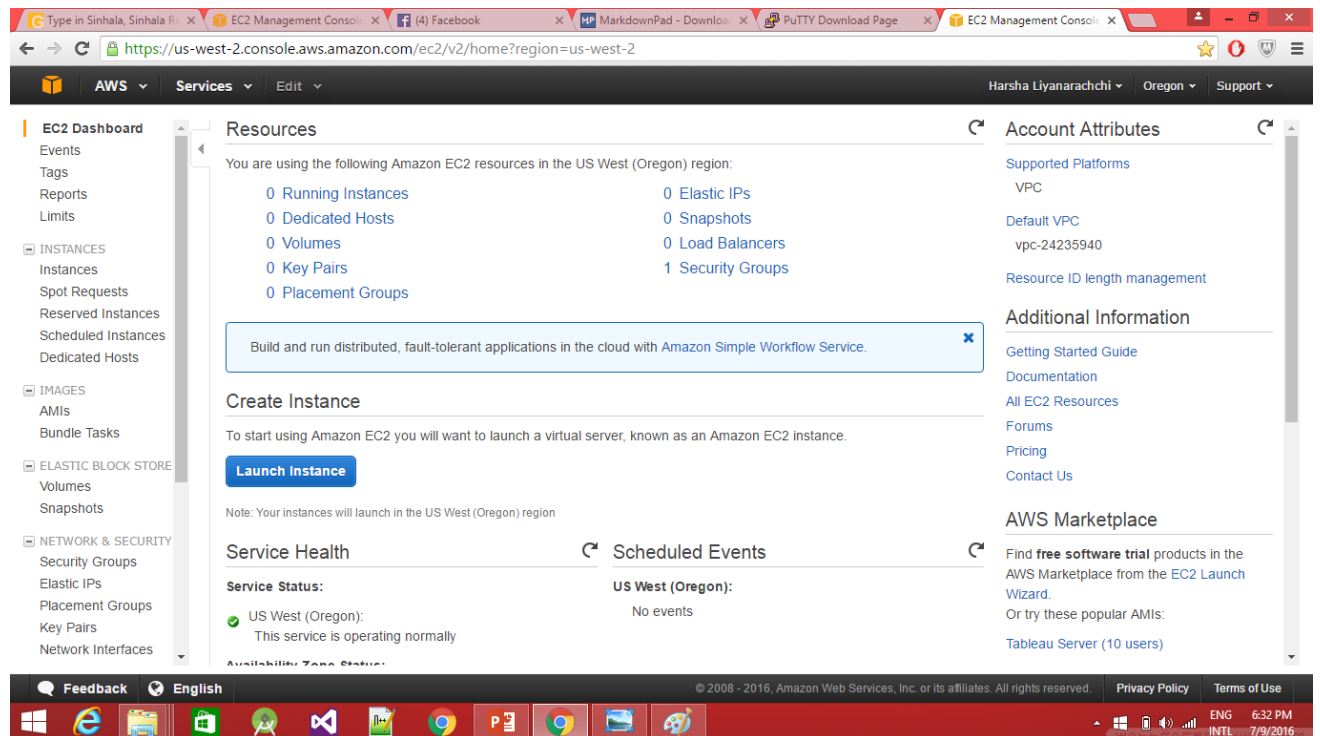
**Sri Lanka Institute of Information Technology**  
**B.Sc. Special (Honors) Degree in Information Technology**  
**Specialized in Information Technology**

# Creating an Amazon EBS-Backed Windows AMI

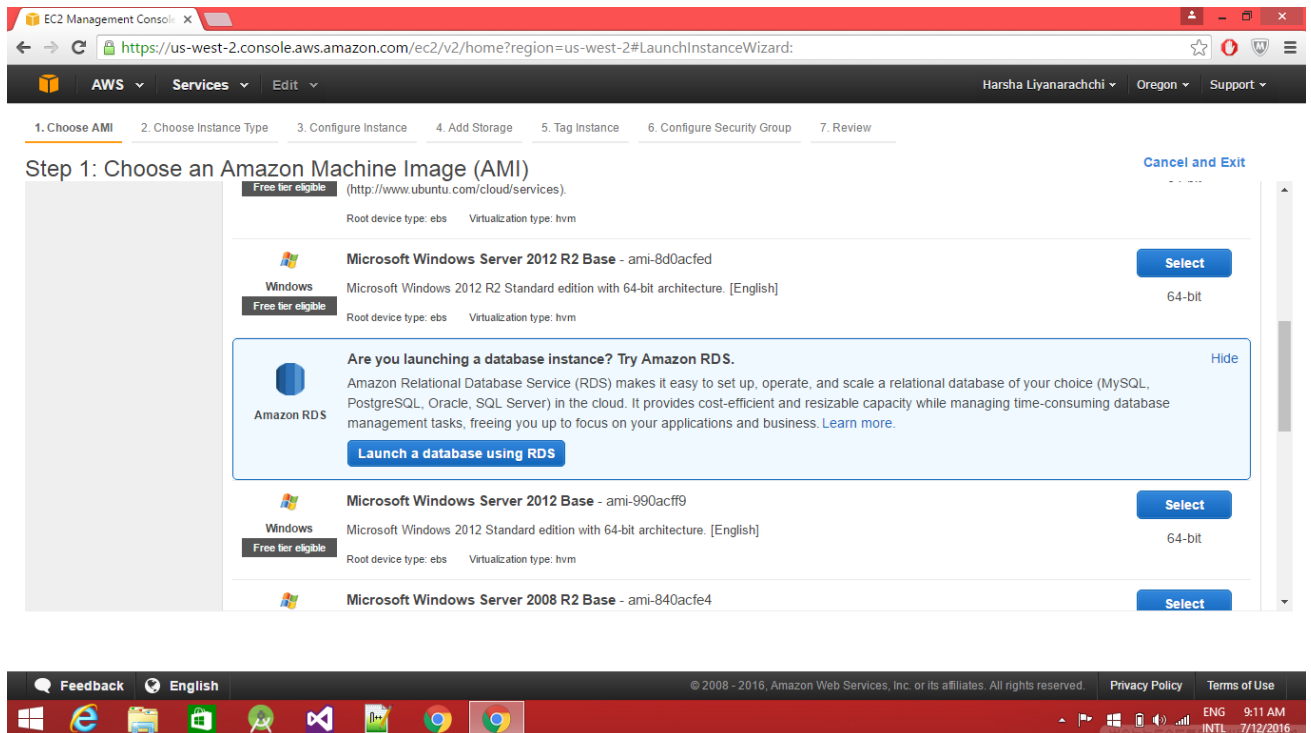
Step 01 - Select EC2 web service (virtual servers in cloud) from Amazon Web Services.



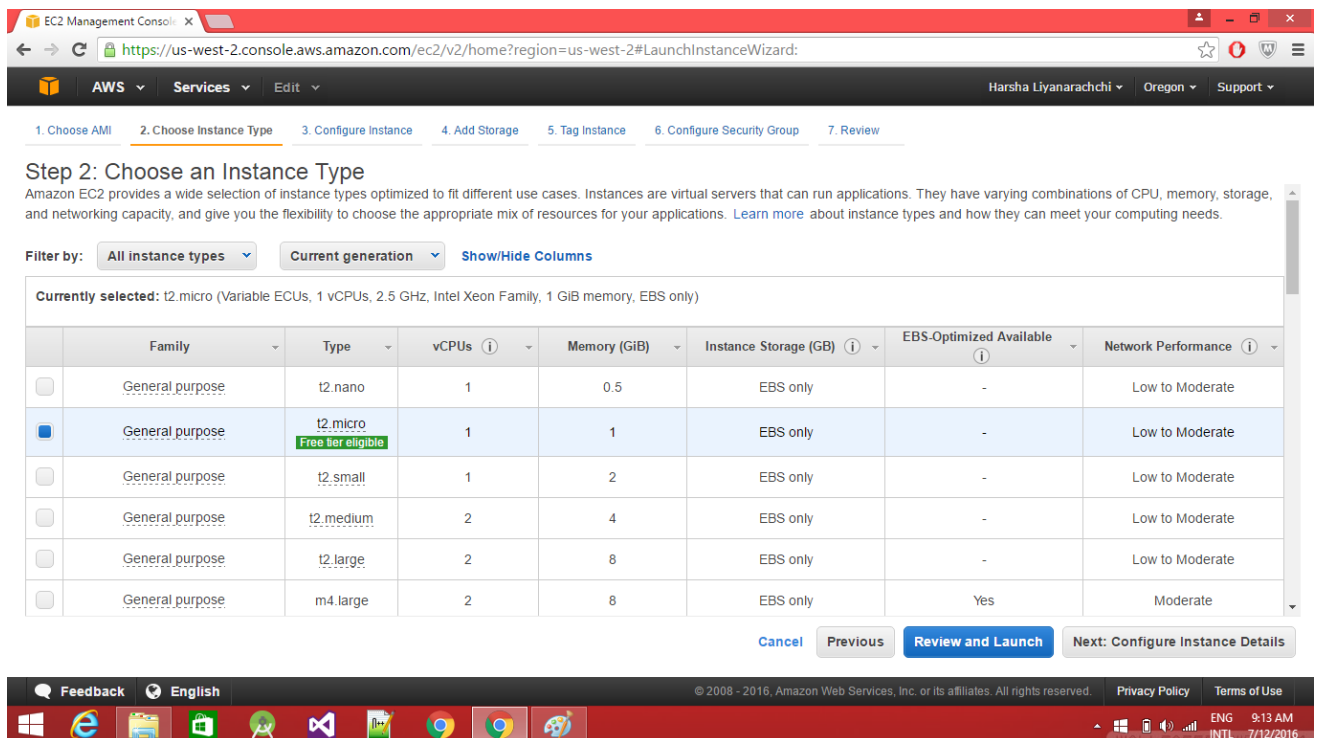
Step 02 – Select Launch Instance Button under the Create Instance.



Step 03 – Once after click Launch Instance select Microsoft Windows Server 2012 R2 Amazon Machine Image from list.



Step 04 – Then choose instance type from list and click the Review and Launch button.



Step 05 – Then click Launch button under Review Instance Launch tab.

EC2 Management Console

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

AWS Services Edit

Harsha Liyanarachchi Oregon Support

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-1, 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 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** [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

**Security Groups** [Edit security groups](#)

[Cancel](#) [Previous](#) [Launch](#)

Feedback English

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ENG 9:13 AM 7/12/2016

Step 06 – Once after click Launch Button Pop up Dialog will popup message where user have to create key pair and it will downloaded the key pair file once after click download key pair.

EC2 Management Console

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

AWS Services Edit

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Root Device Type: ebs Virtualization type: hvm

**Instance Type** [Edit instance type](#)

Instance Type	ECUs
t2.micro	Variable

**Security Groups** [Edit security groups](#)

[Cancel](#) [Previous](#) [Launch](#)

Feedback English

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**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](#).

Create a new key pair

**Key pair name**

keyPair1

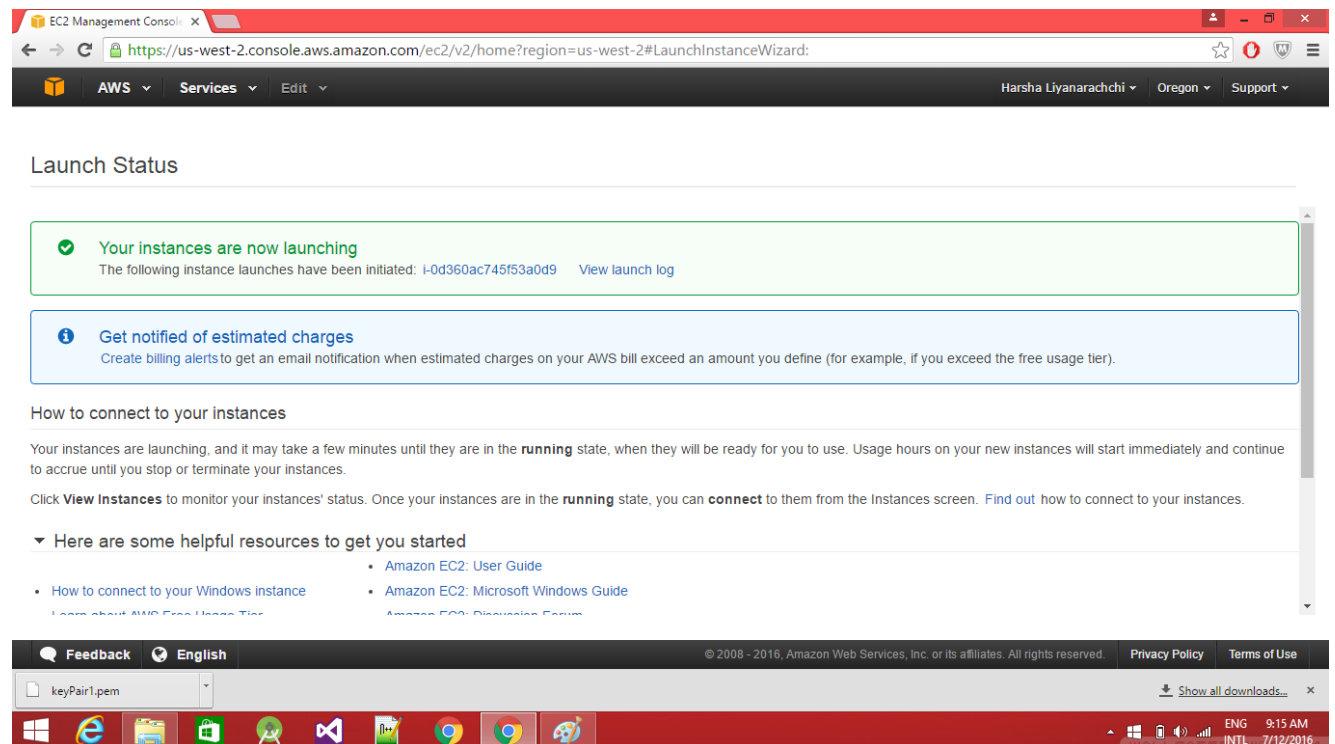
[Download Key Pair](#)

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.

[Cancel](#) [Launch Instances](#)

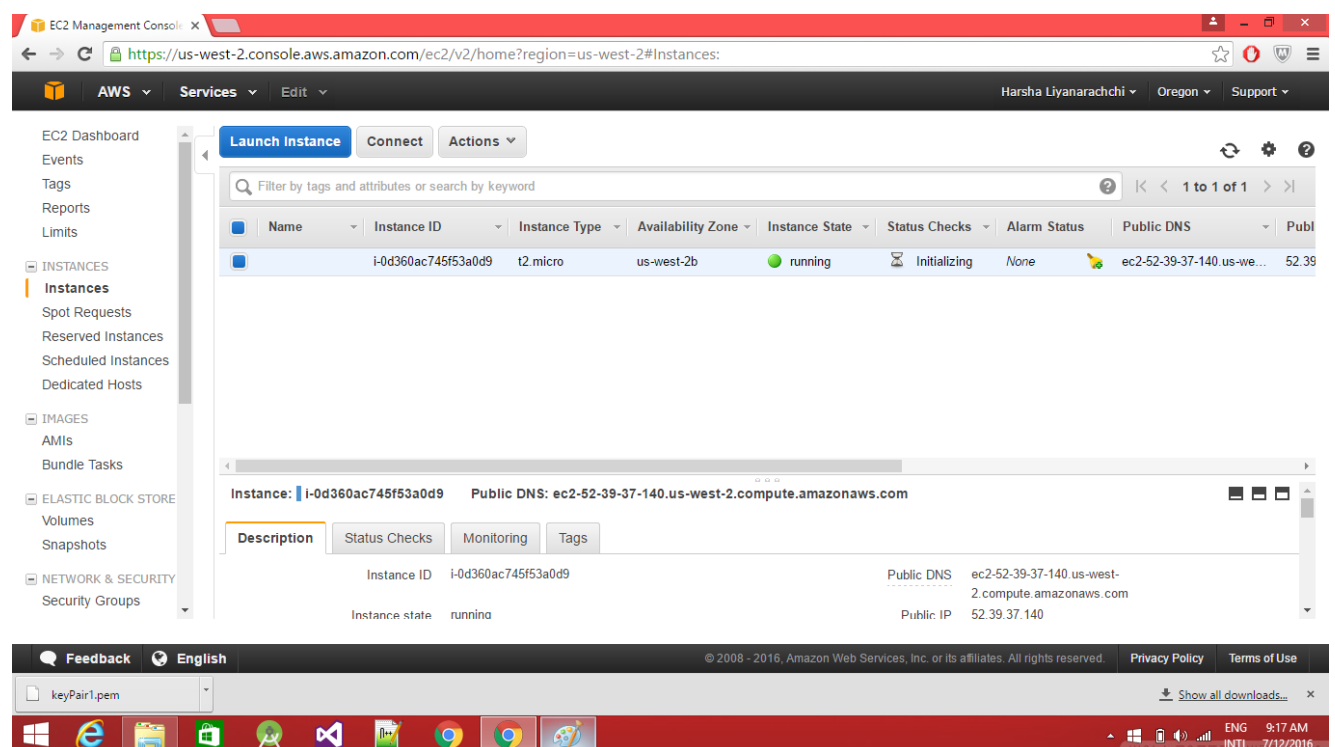
After download key pair then click the Launch Instance.

Step 07 – After click Launch Instance button it will display Launch status for the instance as shown below.

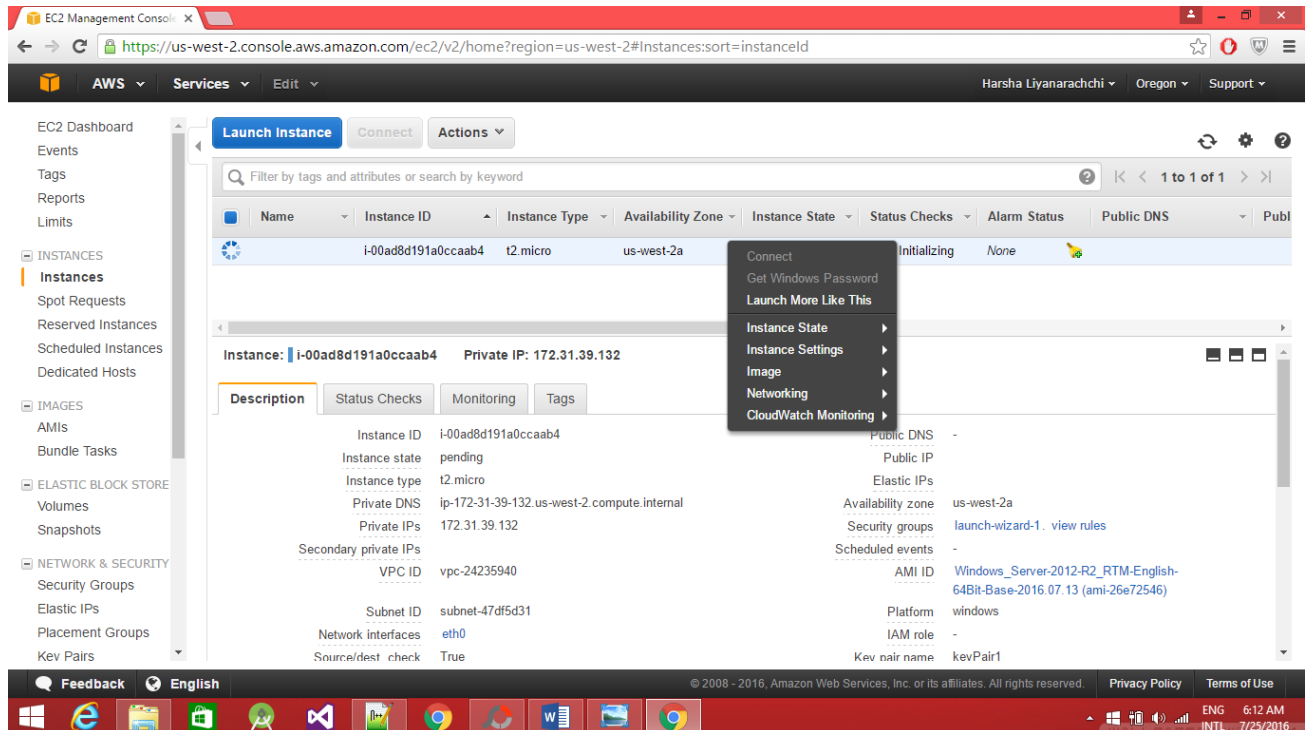


Then click the view instance button in the bottom of that page.

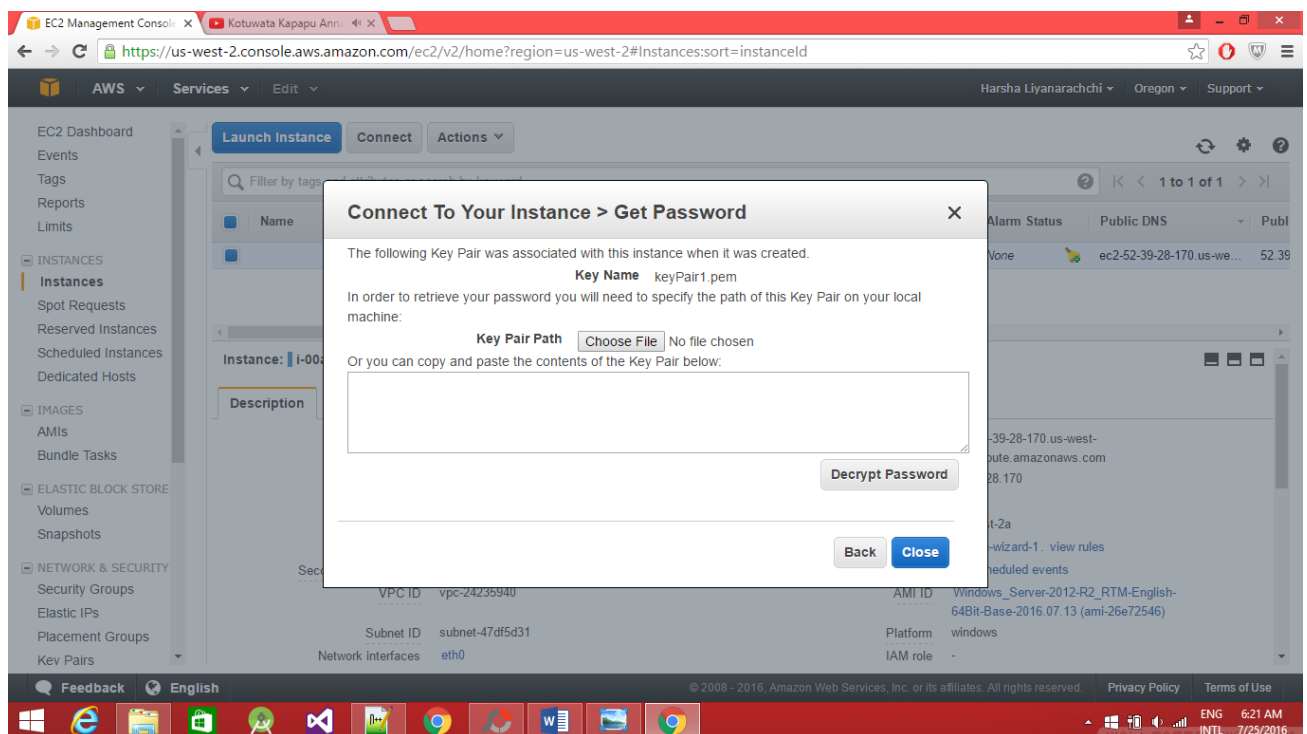
Step 08 – Once after the creation of instance, can see instance running on the instance list in the EC2 Dashboard.



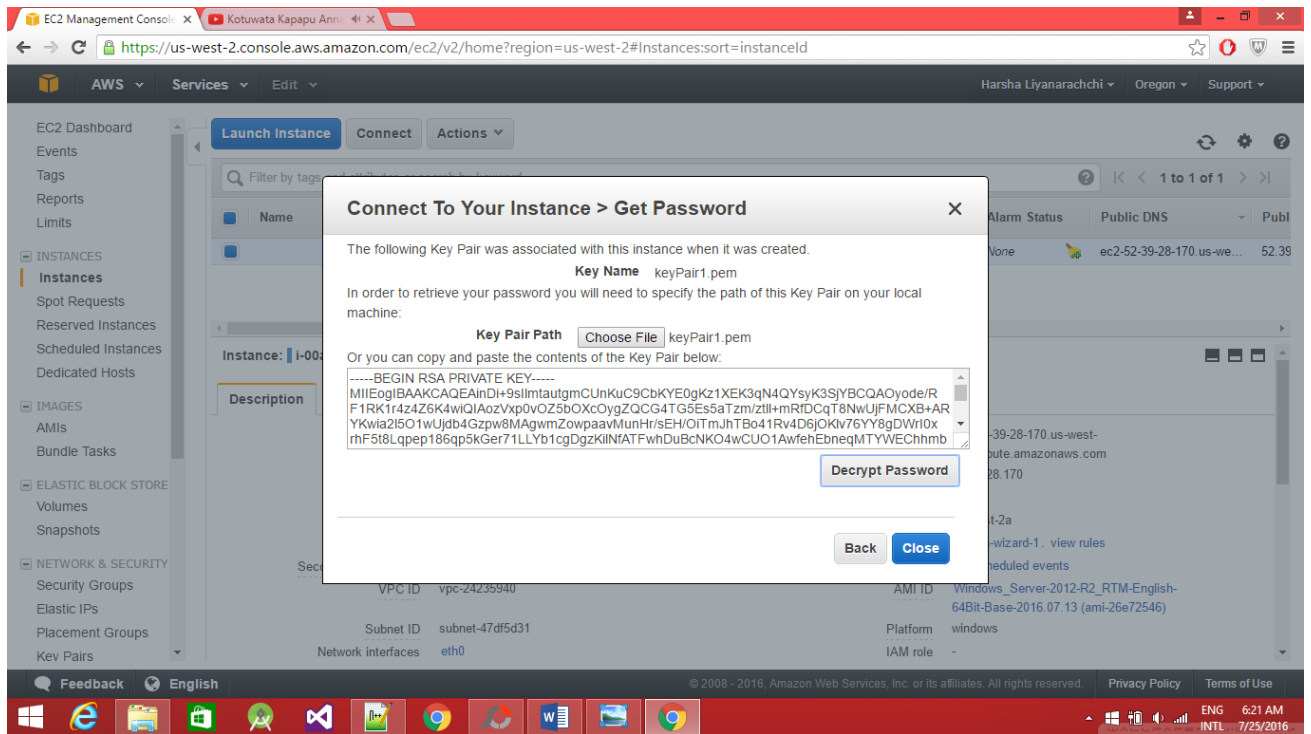
Step 09 – Then click on the instance and select one instance then instance description will display on that page bottom. Then click on the instance and it will display menu with certain set of operations.



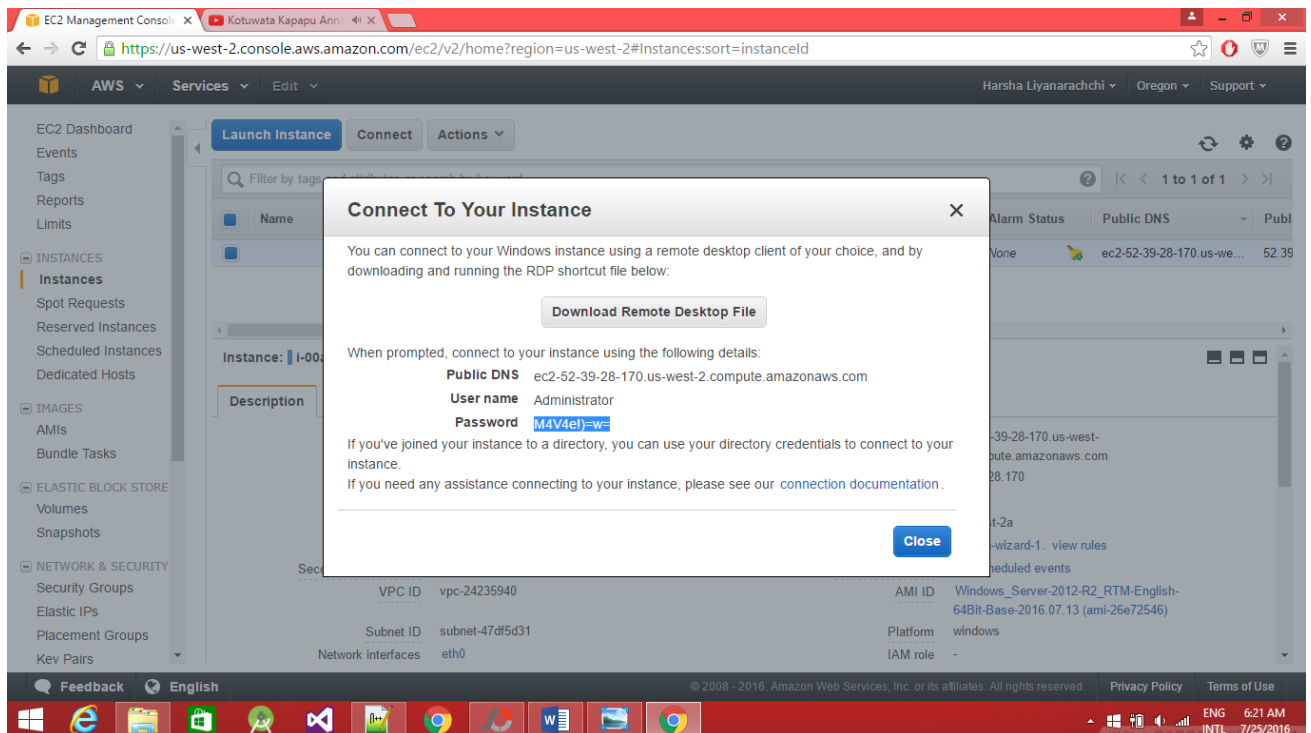
Step 10 – Click the connect option in the menu and it will display popup as below.



Choose the previously downloaded keypair and click decrypt password button.

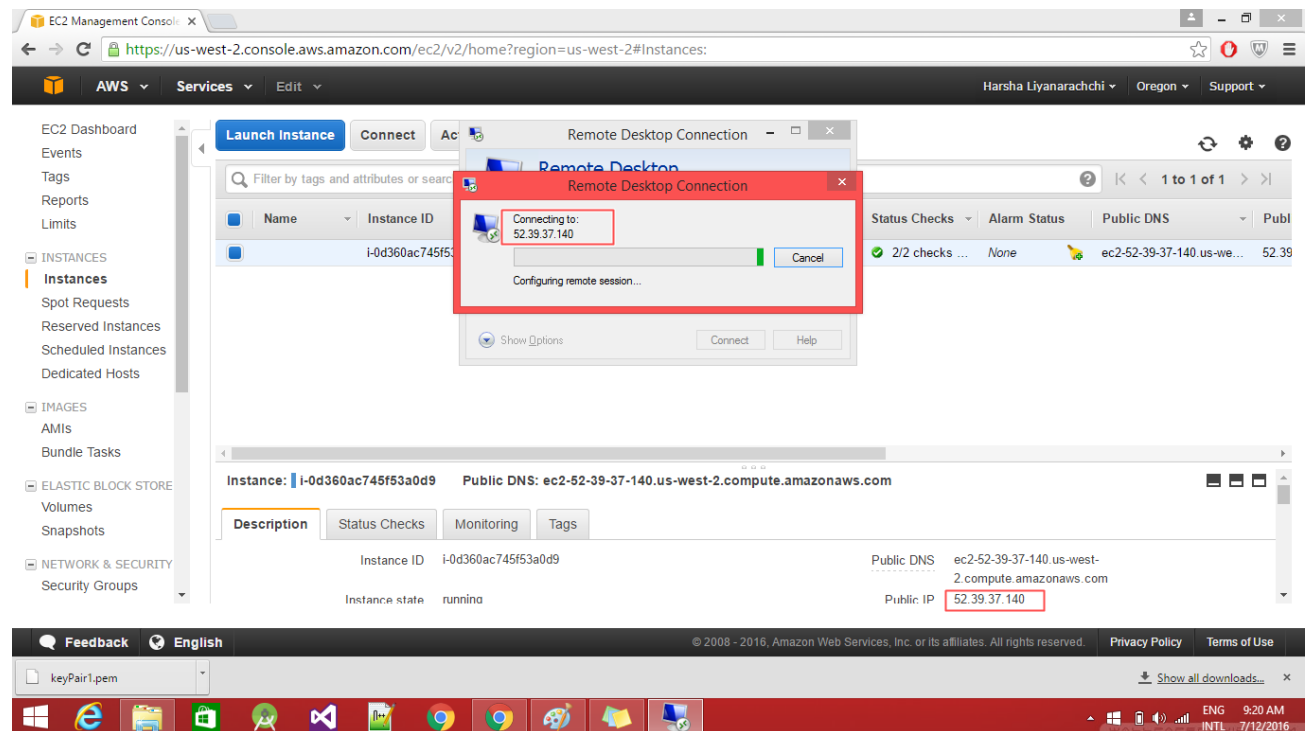


Step 11 – Once after click the decrypt, it will generate password for the instance remote login which can be used to log from remote desktop connection.





Step 12 – Open the remote desktop connection and set the computer ip as the public ip generated by the instance created.



Then while try to connecting to the server it will prompt to enter username and password which is generated previous step.

Username – Administrator and password - M4V4e!)=w=

Step 13 – Click yes to the popup which is given below when it prompt.





Step 14 – Once successfully logged into the server. It will look like below.



Step 15 - Once after done with the server can terminate the instance by click on the instance and select instance status and click terminate.

