



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

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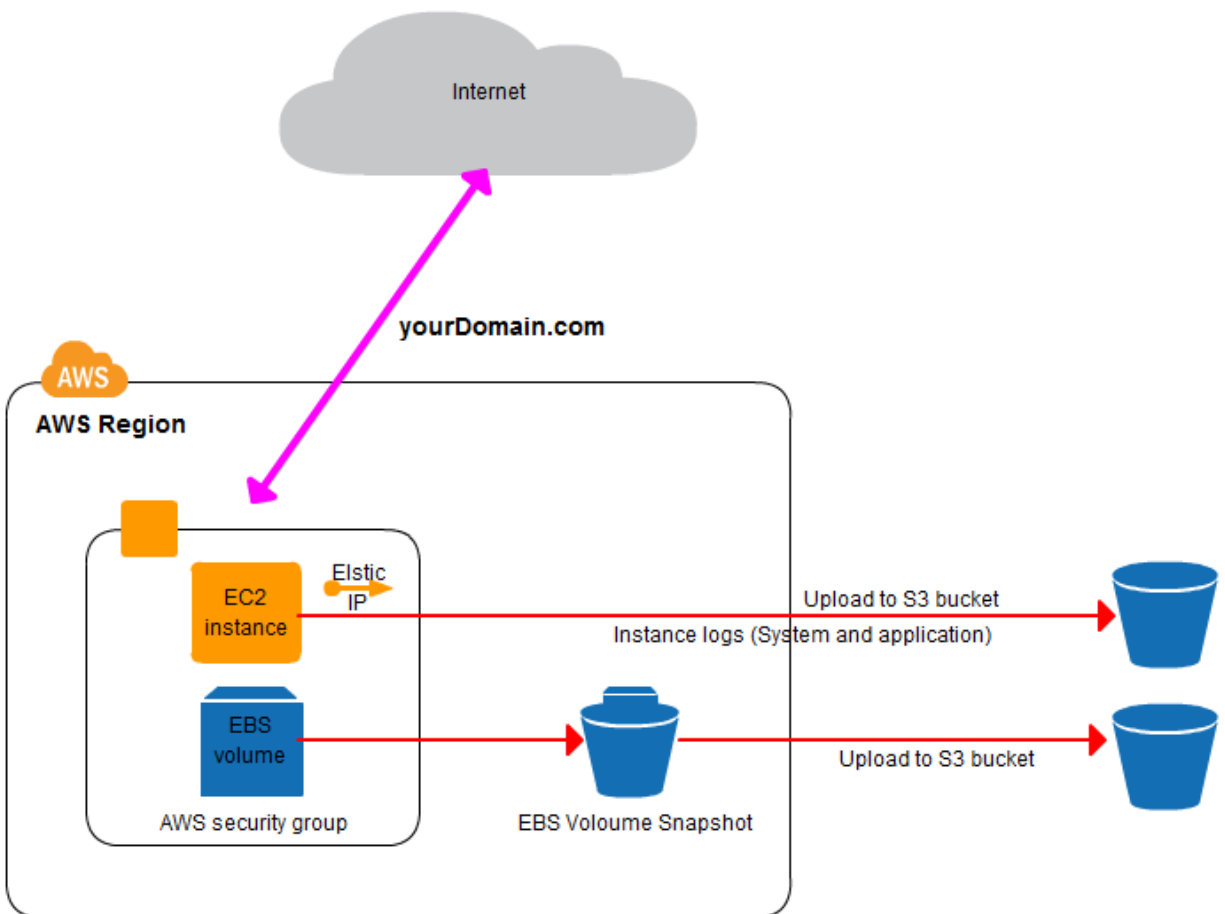
Evaluators Signature : _____

Introduction

An instance is a virtual server in the AWS cloud. With Amazon EC2, can set up and configure the operating system and applications that run on an instance.

The instance is an Amazon EBS-backed You can either specify the Availability Zone in which your instance runs, or let Amazon EC2 select an Availability Zone for you.

Basic structure of a AWS EC2 instance



[online diagramming & design]  creately.com

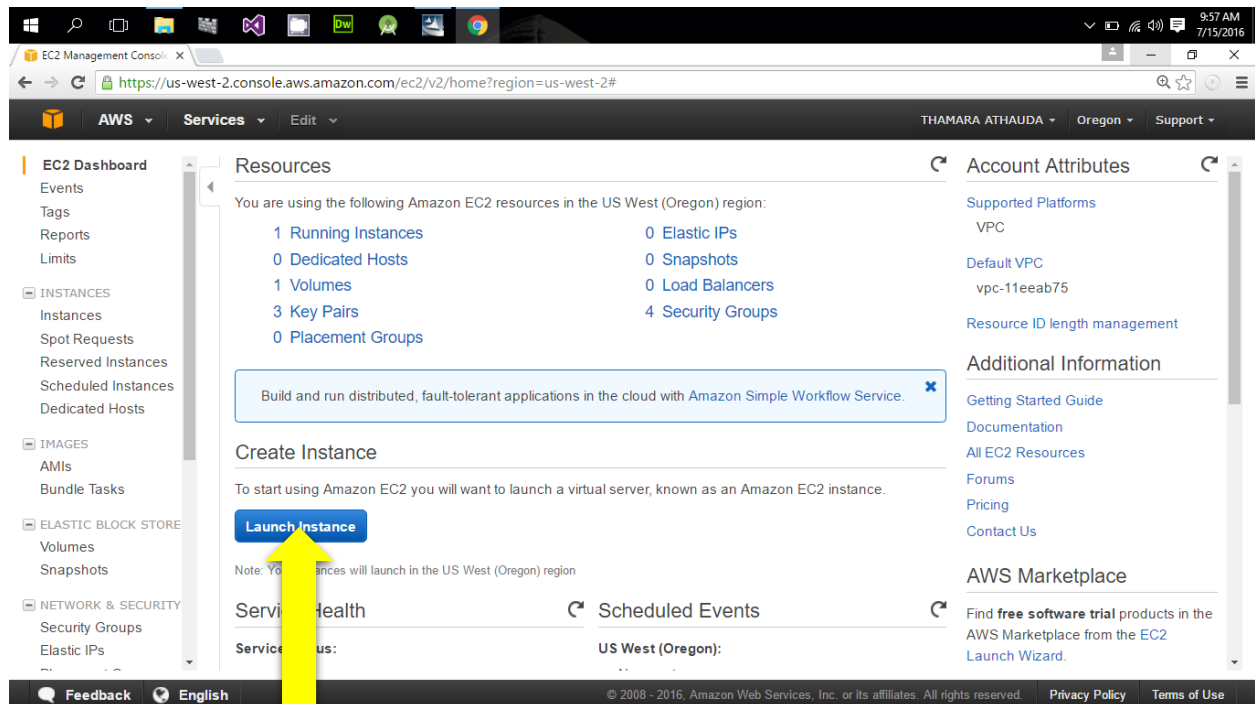
REF:- <https://creately.com/jupiter/diagram/image/h4jacmks2>

Create a Linux instance

- **Launch an instance**

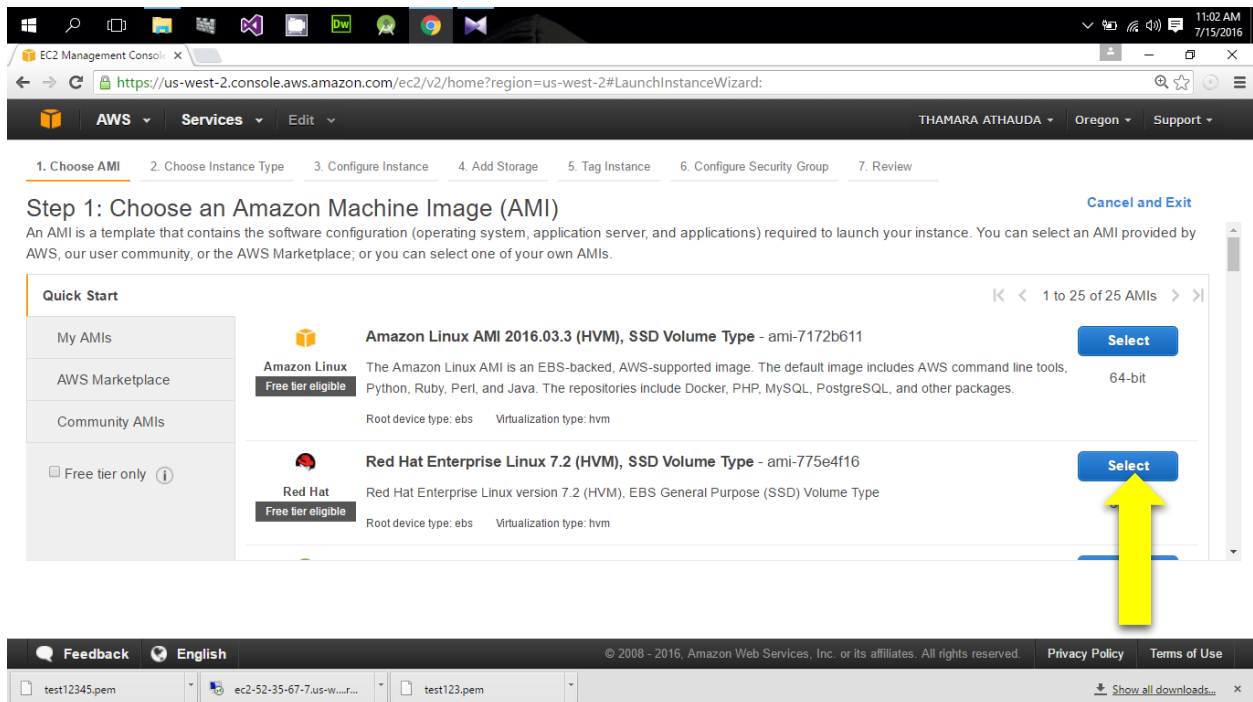
Open the Amazon EC2 console at <https://console.aws.amazon.com/ec2/>

From the console dashboard, choose **Launch Instance**



The **Choose an Amazon Machine Image (AMI)** page displays a list of basic configurations.

Select the HVM edition of the Amazon Linux AMI.



The screenshot shows the AWS Management Console interface for the 'Launch Instance Wizard'. The first step is 'Choose an Amazon Machine Image (AMI)'. The page lists several AMIs, including 'Amazon Linux AMI 2016.03.3 (HVM)' and 'Red Hat Enterprise Linux 7.2 (HVM)'. A yellow arrow points to the 'Select' button for the Amazon Linux AMI.

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.

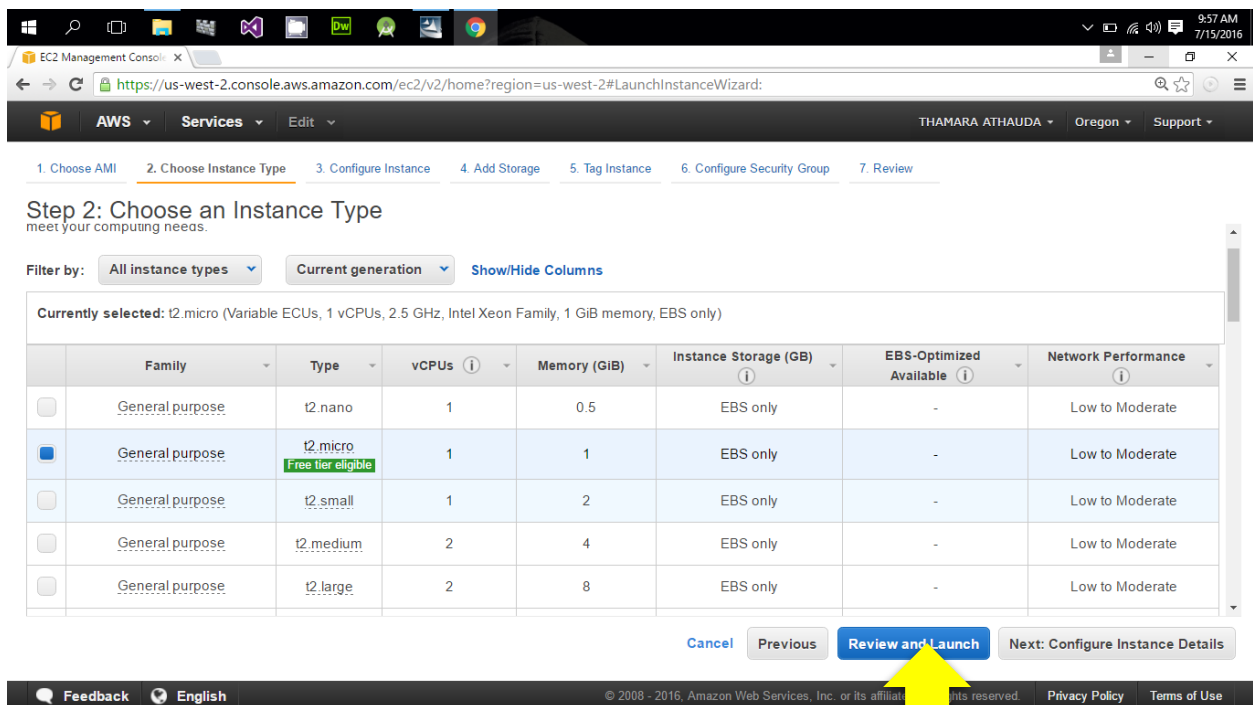
Quick Start

1 to 25 of 25 AMIs

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

Image ID	Image Name	Architecture	Root Device Type	Virtualization Type	Actions
ami-7172b611	Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type	64-bit	ebs	hvm	Select
ami-775e4f16	Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type	64-bit	ebs	hvm	Select

Choose **Review and Launch** to let the wizard complete the other configuration settings for you.



The screenshot shows the AWS Management Console interface for the 'Launch Instance Wizard'. The second step is 'Choose an Instance Type'. The page displays a table of instance types, including 't2.nano', 't2.micro', 't2.small', 't2.medium', and 't2.large'. A yellow arrow points to the 'Review and Launch' button.

Step 2: Choose an Instance Type

meet your computing needs.

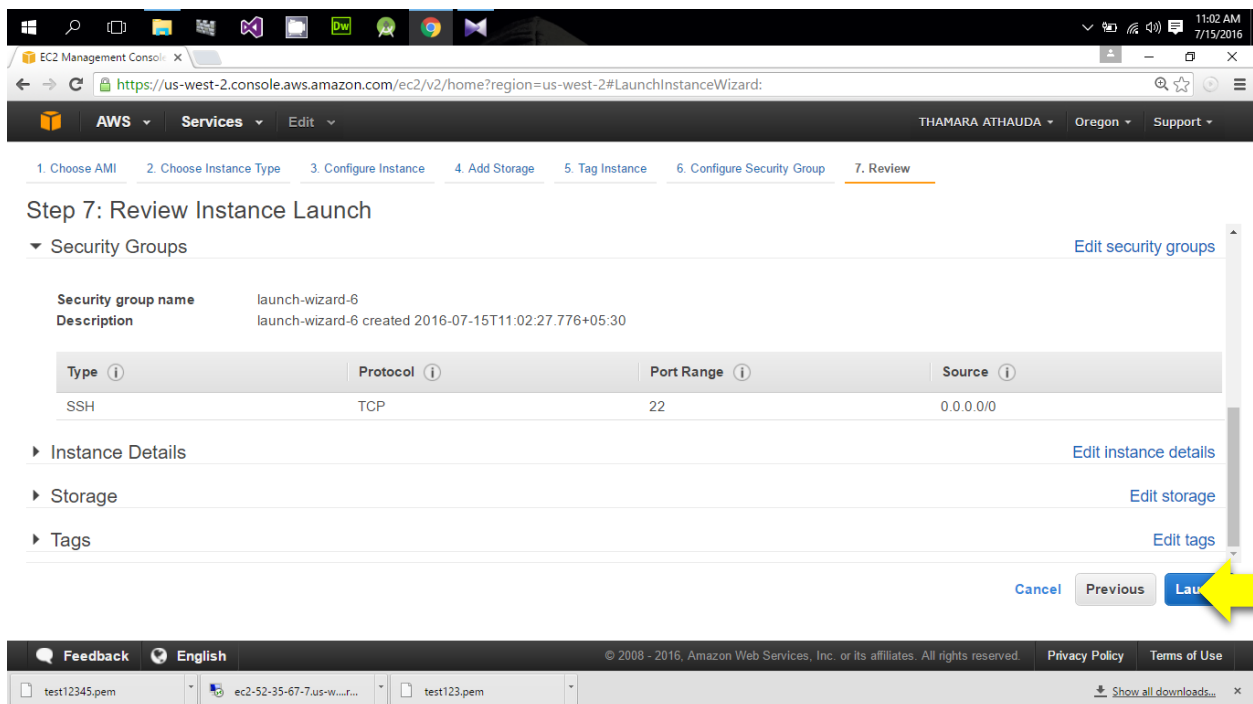
Filter by: All instance types | Current generation | Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

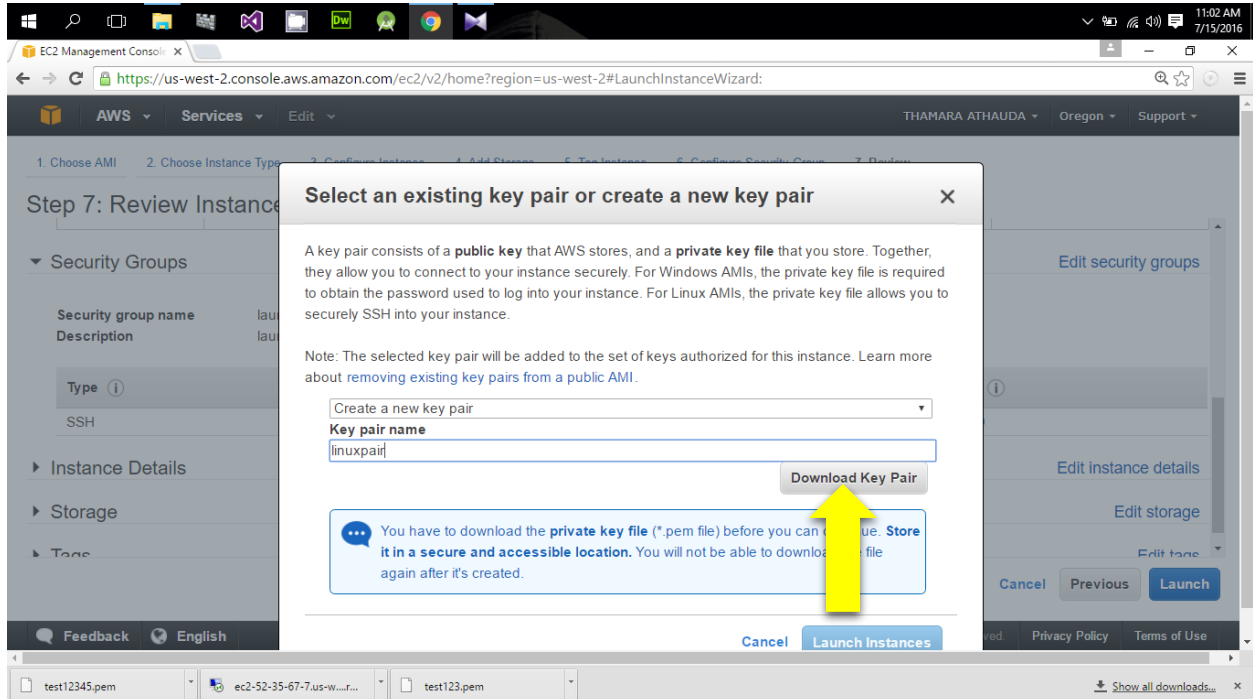
	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate
<input type="checkbox"/>	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
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate

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

On the **Review Instance Launch** page, choose **Launch**.



Select **Create a new key pair**, enter a name for the key pair, and then choose **Download Key Pair**.



A confirmation page lets you know that your instance is launching. Choose **View Instances** to close the confirmation page and return to the console.

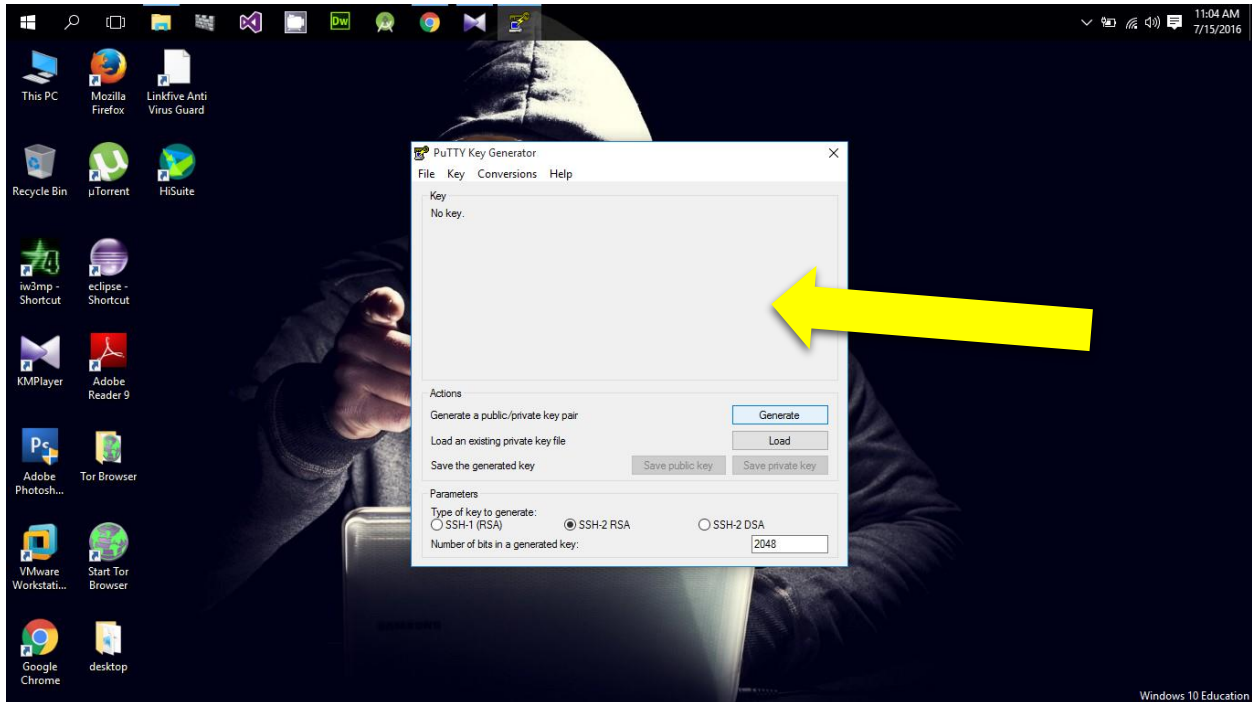
The screenshot shows the 'Launch Status' page in the AWS Management Console. The page title is 'Launch Status'. Below the title, there is a paragraph explaining that instances are launching and may take a few minutes to reach the 'running' state. It also mentions that usage hours start immediately and continue to accrue until the instances are stopped or terminated. A link to 'View Instances' is provided to monitor the status of the instances. Below this, there are some helpful resources to get started, including links to 'How to connect to your Linux instance', 'Amazon EC2: User Guide', 'Learn about AWS Free Usage Tier', and 'Amazon EC2: Discussion Forum'. At the bottom of the page, there is a 'View Instances' button highlighted with a yellow arrow.

On the **Instances** screen, you can view the status of the launch. It takes a short time for an instance to launch. When you launch an instance, its initial state is pending. After the instance starts, its state changes to running and it receives a public DNS name. (If the **Public DNS** column is hidden, choose the Show/Hide icon in the top right corner of the page and then select **Public DNS**.)

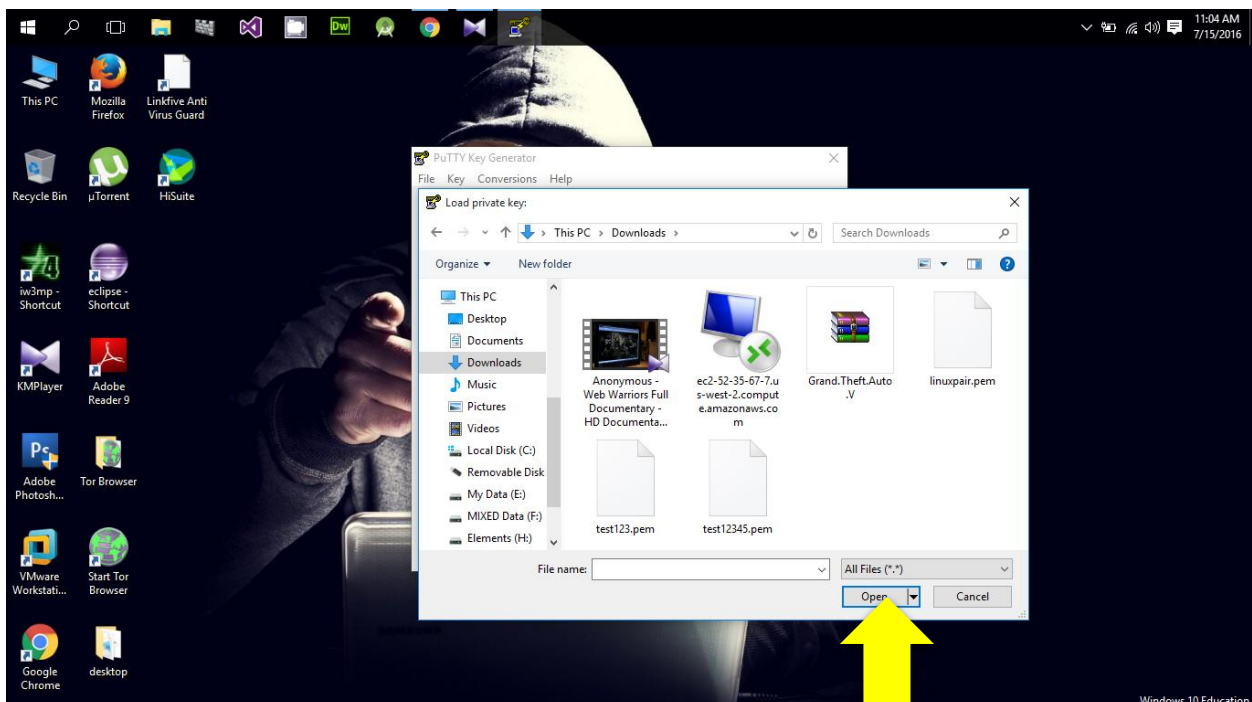
The screenshot shows the 'Instances' screen in the AWS Management Console. The page title is 'Instances'. Below the title, there is a search bar and a table of instances. The table has columns for Name, Instance ID, Instance Type, Availability Zone, State, Status Checks, Alarm Status, and Public DNS. The first instance is highlighted with a blue row. A yellow arrow points to the 'Connect' button for this instance. Below the table, there is a section for the selected instance, showing details like Instance ID, Instance state, Instance type, Private DNS, Private IPs, and Secondary private IPs. The 'Connect' button is also visible in the top right corner of the page.

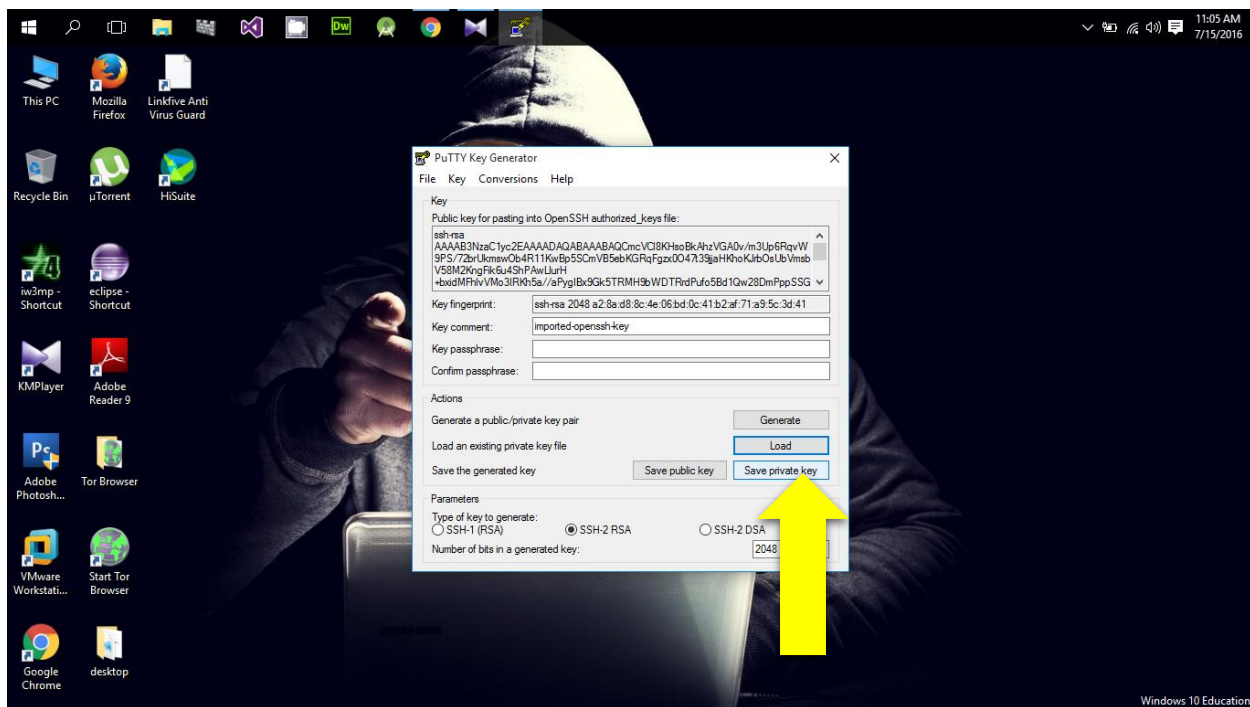
- **Connect to the Instance**

There are several ways to connect to a Linux instance. In this procedure, you'll connect using your browser. Alternatively, you can connect using PuTTY or an SSH client. Select generate button.

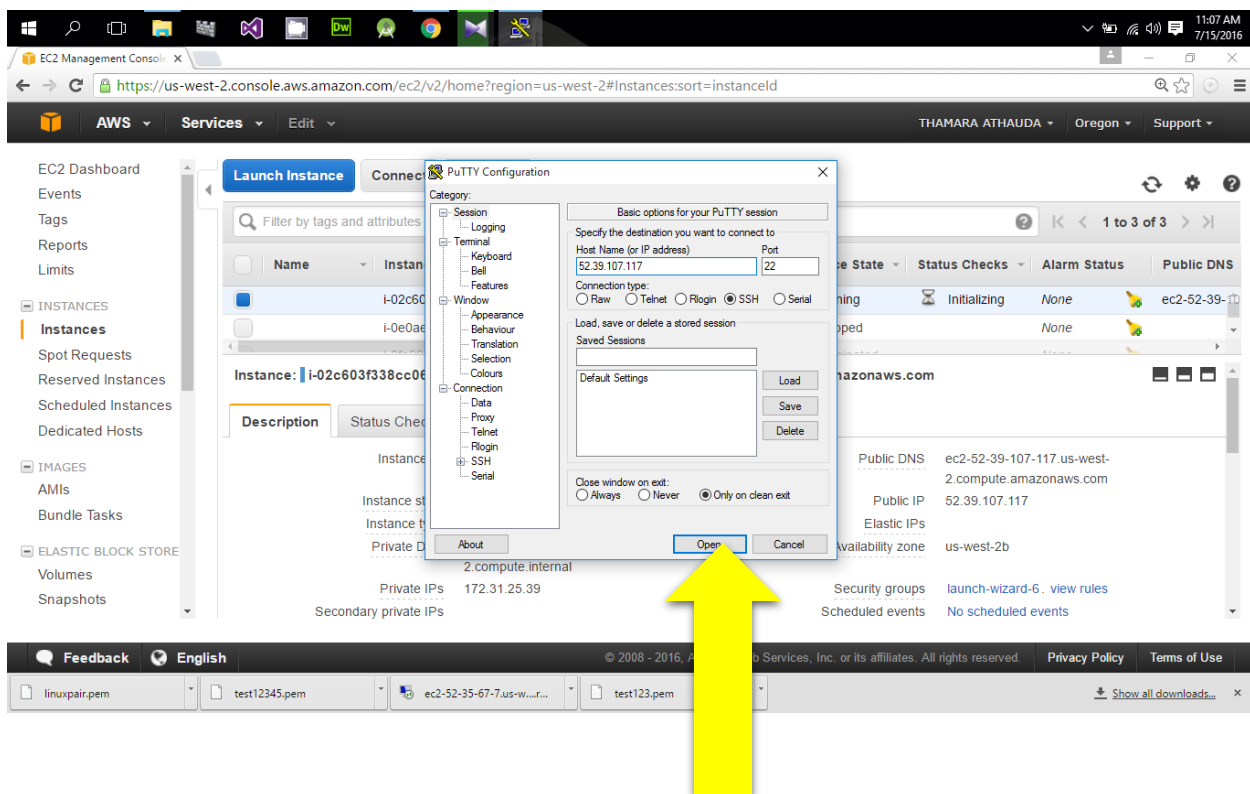


The key will appear. And to save the key select save private key button. And to the warning message, select ok to save the key.

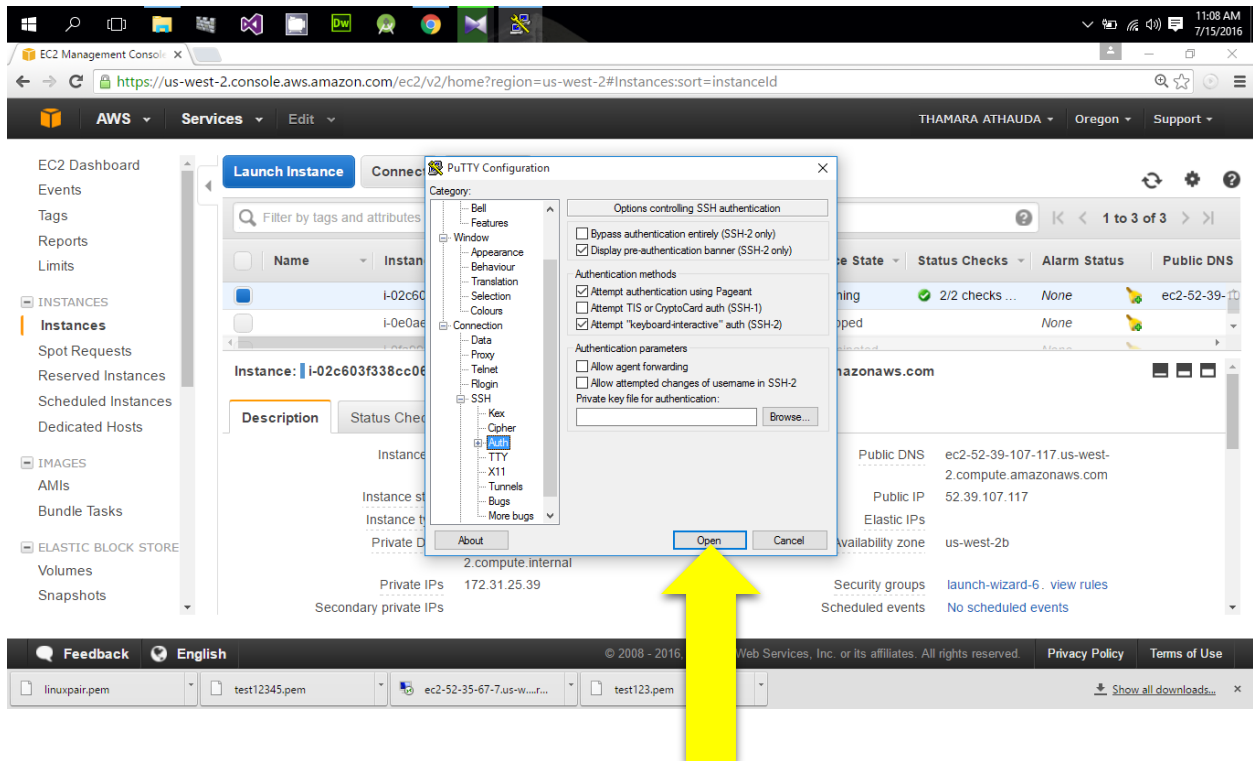




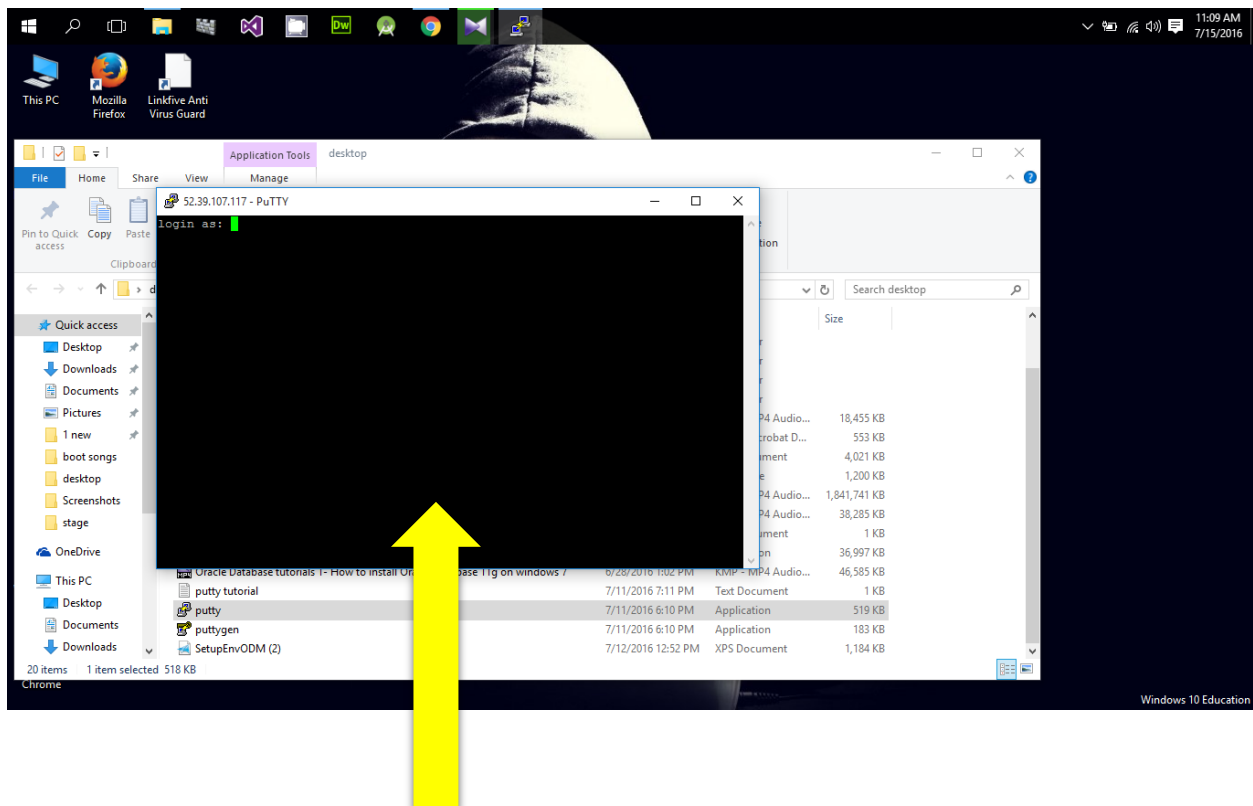
Then open PuTTY .

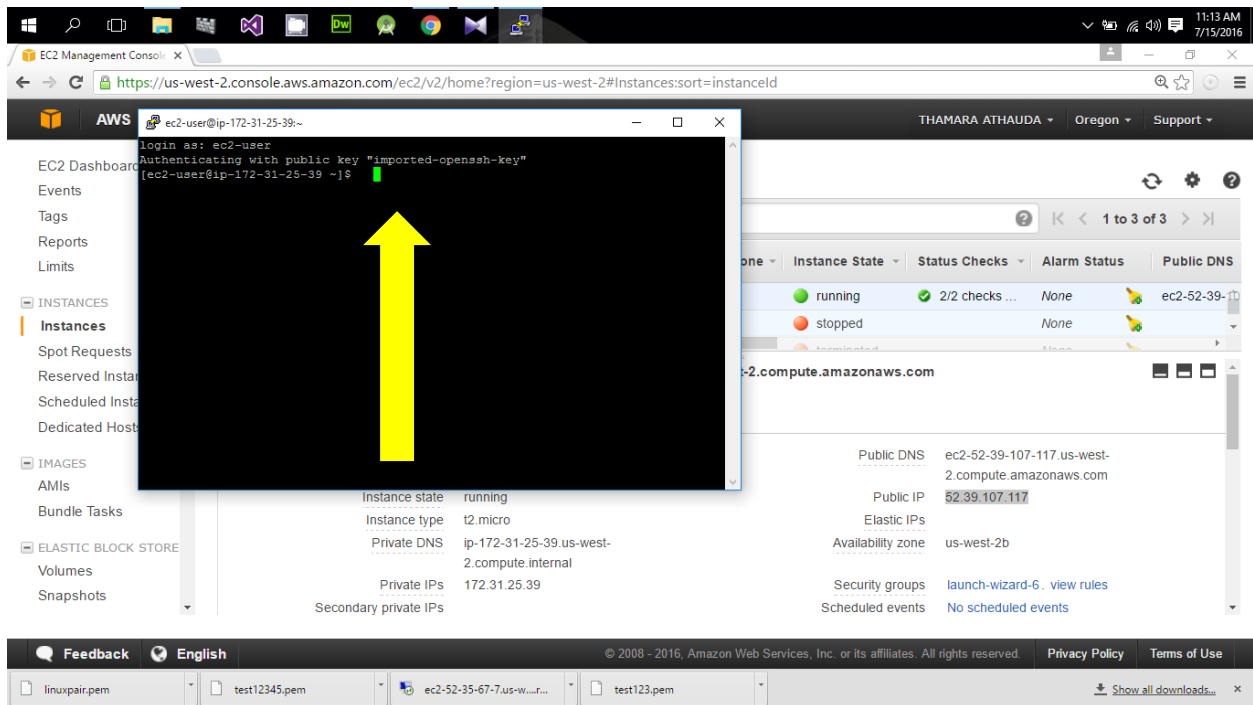


In category list go to Connection>SSH>Auth. And in the text box enter the place that your key is downloaded (private key path) using browse button. And select open.

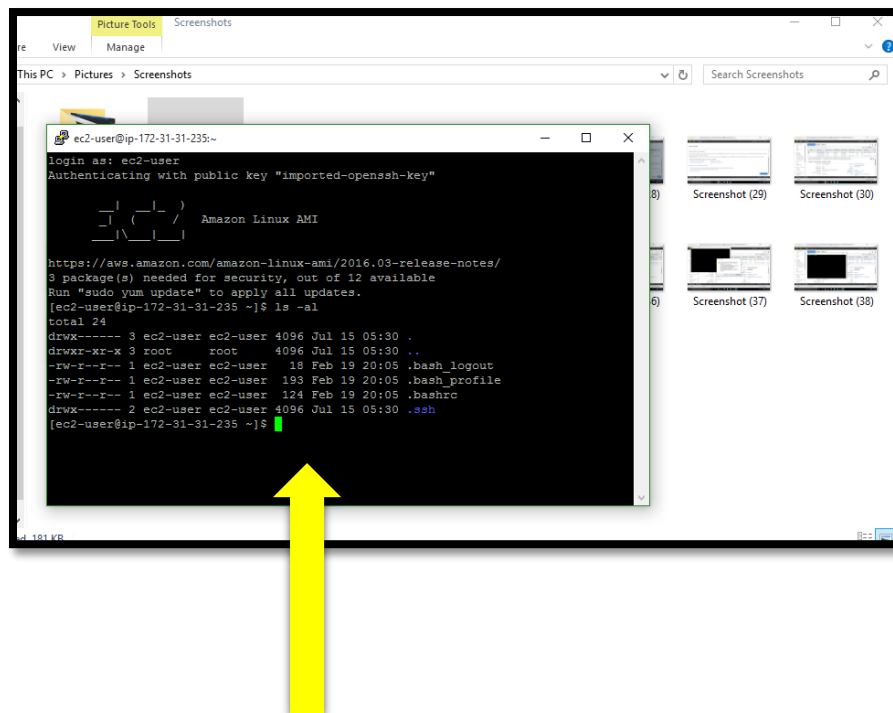


Finally you will get a command prompt and set user name as ec2-user.





Then you can check weather Linux commands are running on that terminal.



- **References:**

http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EC2_GetStarted.html

http://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/EC2_GetStarted.html