



SRI LANKA INSTITUTE OF INFORMATION TECHNOLOGY

Enterprise Standards and Best Practices for IT Infrastructure

4th Year 2nd Semester 2014

Creating Linux Instance using AWS account

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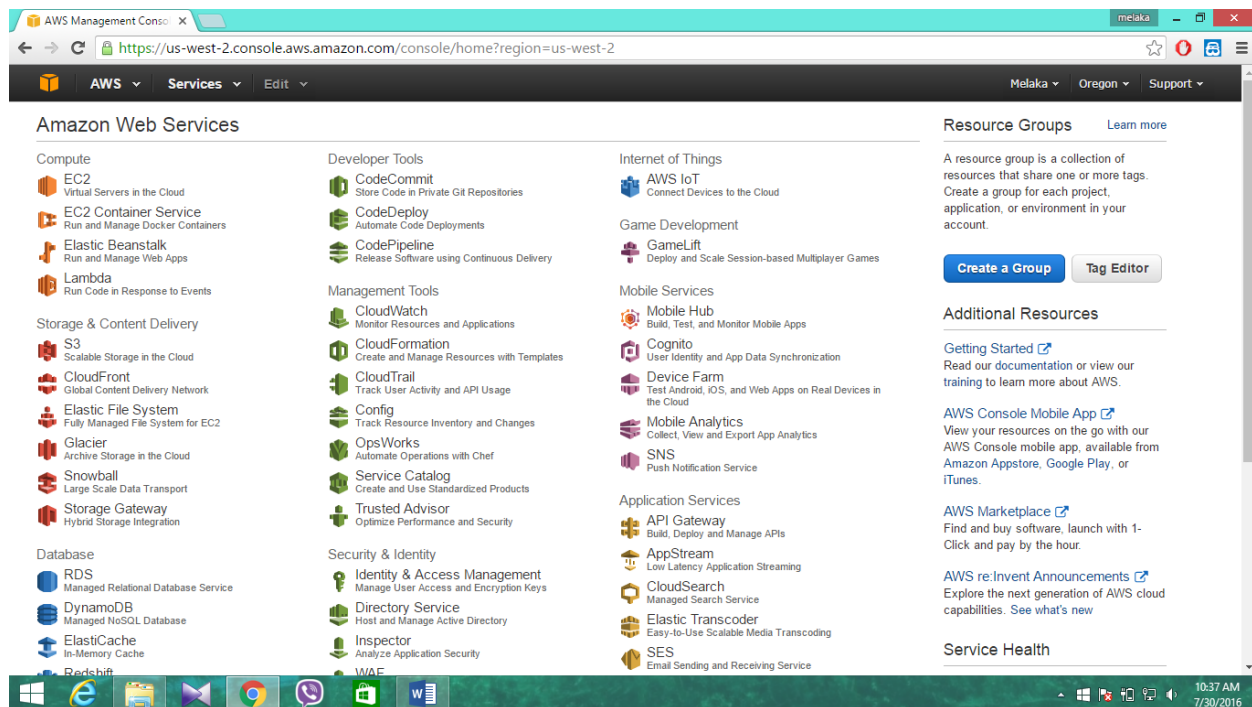
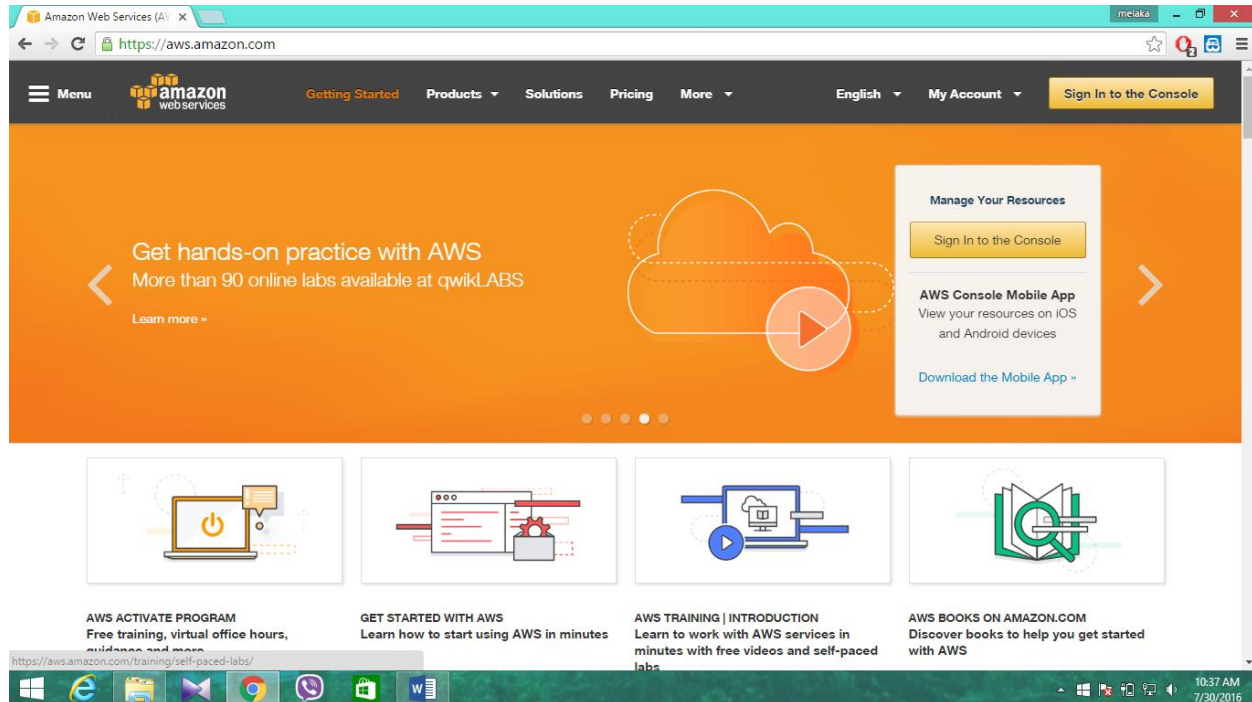
SLIIT ID: IT 13085872

Practical Session: Weekday Friday

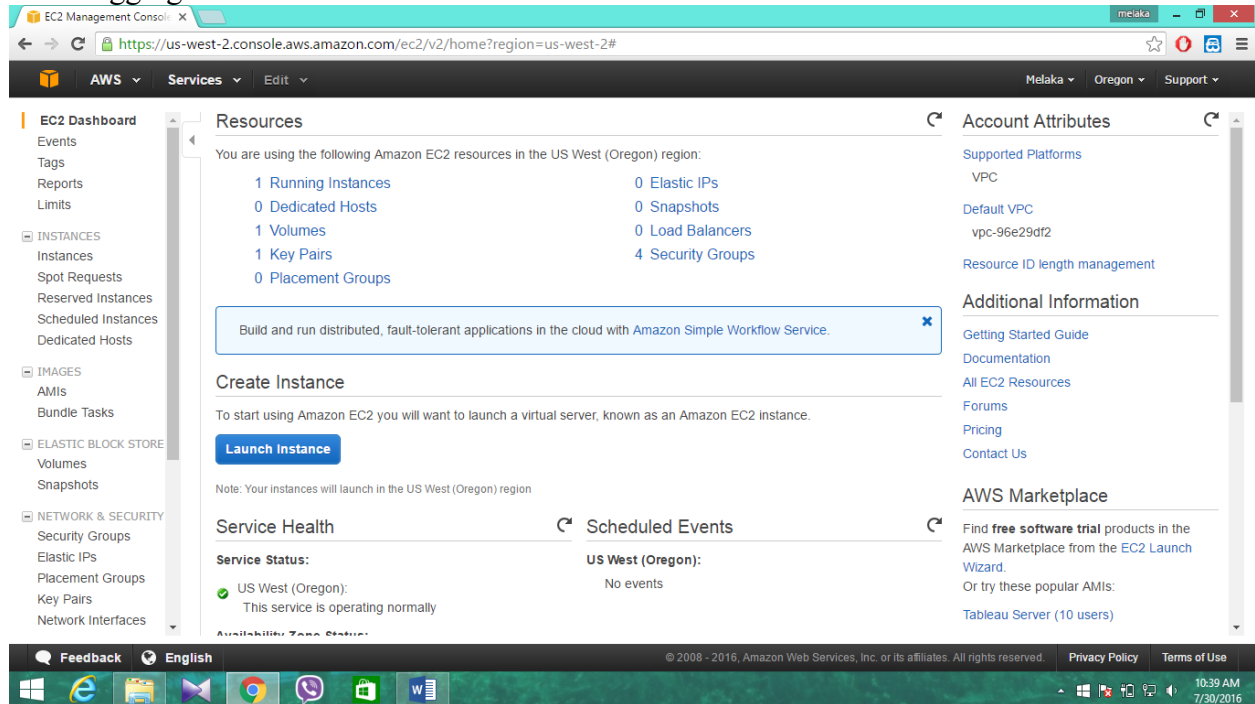
Practical Number: Lab 1

Date of Submission: 30/07/2016

First user has to login to the AWS account and then click “Launch Instance” button and from the list of AMI s appeared on the screen select “Amazon Linux AMI 2016.03.3 (HVM)” AMI to create Linux instance.



After logging the AWS click “Launch Instant” Button



EC2 Management Console

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

AWS Services Edit

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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
 - Network Interfaces

Resources

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

- 1 Running Instances
- 0 Elastic IPs
- 0 Dedicated Hosts
- 0 Snapshots
- 1 Volumes
- 0 Load Balancers
- 1 Key Pairs
- 4 Security Groups
- 0 Placement Groups

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-96e29df2

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](#).

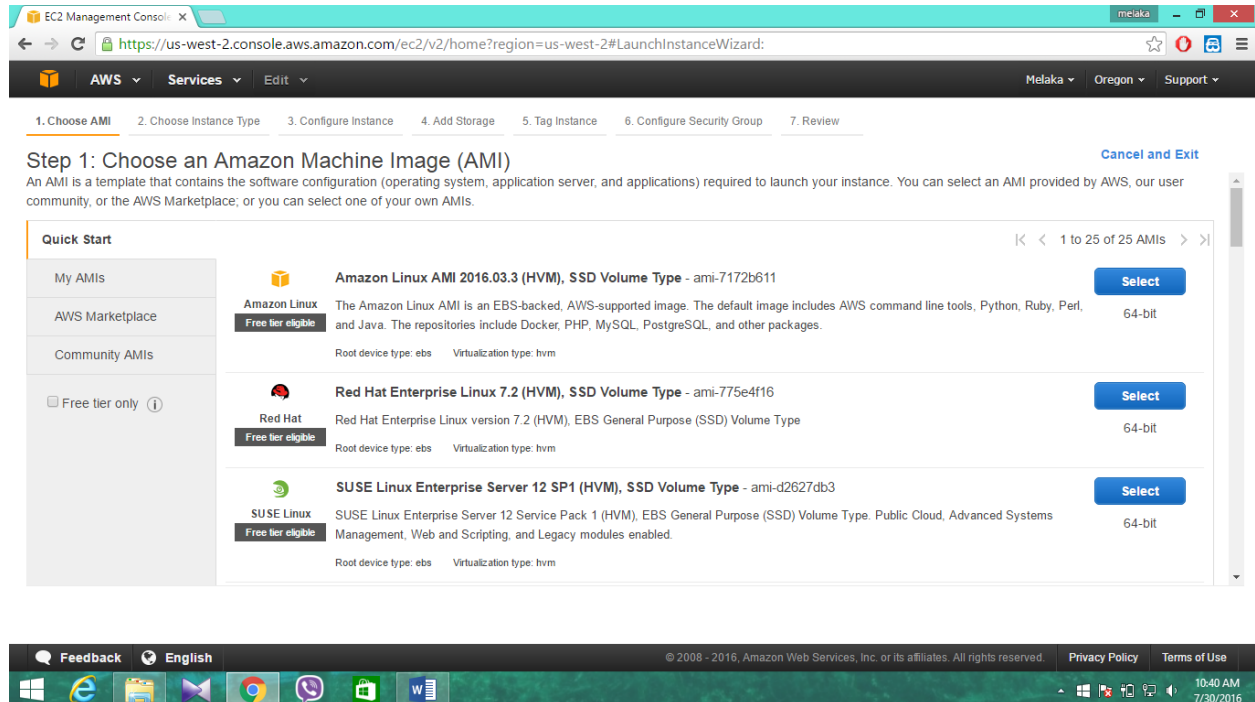
Or try these popular AMIs:

[Tableau Server \(10 users\)](#)

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Then select Linux Instant that we need to install



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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Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

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

My AMIs

AWS Marketplace

Community AMIs

☐ Free tier only

| | | |
|--|--|----------------------------------|
|  Amazon Linux Free tier eligible | 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 Free tier eligible | 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 Free tier eligible | 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. Root device type: ebs Virtualization type: hvm | Select 64-bit |

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Click “Review and Launch button”

EC2 Management Console

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

AWS Services Edit

Melaka 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 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 |
| <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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After creating the instance next step is reviewing the instance created. Click the “Launch” button to continue.

EC2 Management Console

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

AWS Services Edit

Melaka 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-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](#)

AMI Details [Edit AMI](#)

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

Instance Type [Edit instance type](#)

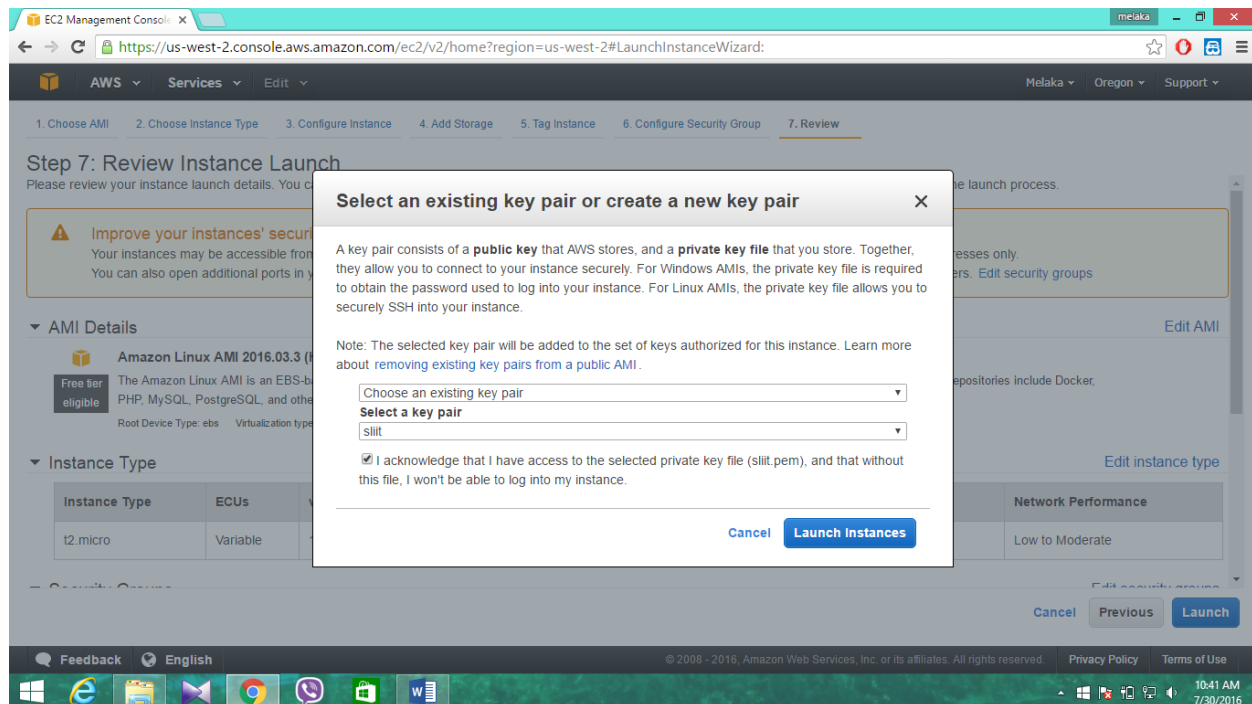
| Instance Type | ECUs | vCPUs | Memory (GiB) | Instance Storage (GB) | EBS-Optimized Available | Network Performance |
|---------------|----------|-------|--------------|-----------------------|-------------------------|---------------------|
| t2.micro | Variable | 1 | 1 | EBS only | - | Low to Moderate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

Cancel Previous **Launch**

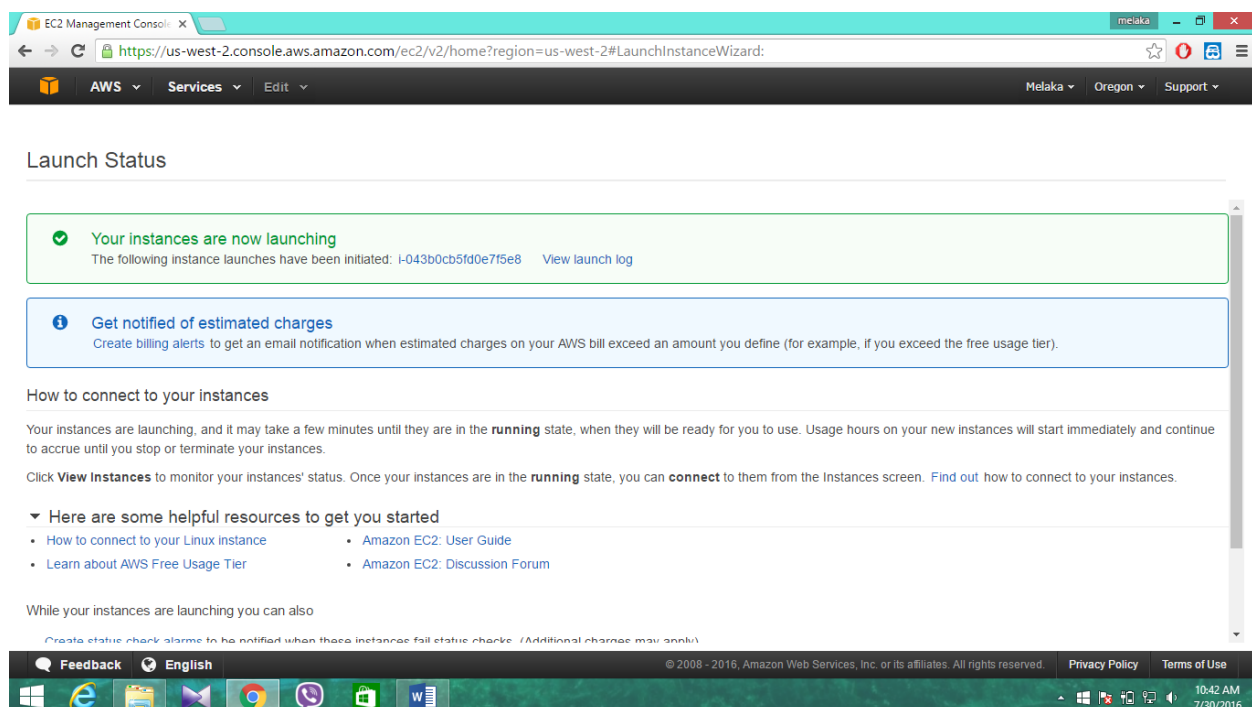
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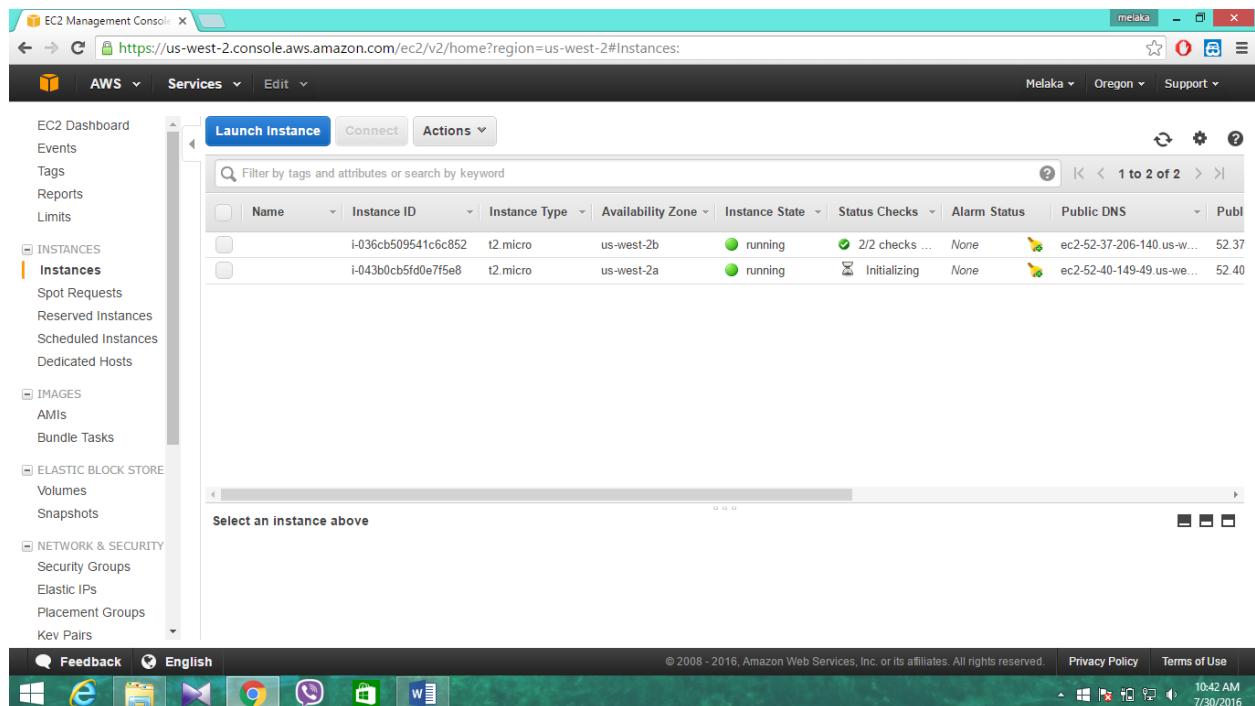
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Next user has to create a new key pair to launch the newly created instance by providing a name to the key pair and then click “Download key pair” button to download the key pair to your system. Click on ‘Launch Instances” button.



The created instance will be launched as shown below and click the “View instances” button to view the instance you created.





Then download putty.exe and puttygen.exe files.

www.chiark.greenend.org.uk/~sgtatham/putty/download.html

Binaries

The latest release version (beta 0.67)

This will generally be a version we think is reasonably likely to work well. If you have a problem with the release version, it might be worth trying out the latest development snapshot (below) to see if we've already fixed the bug, before reporting it.

For Windows on Intel x86

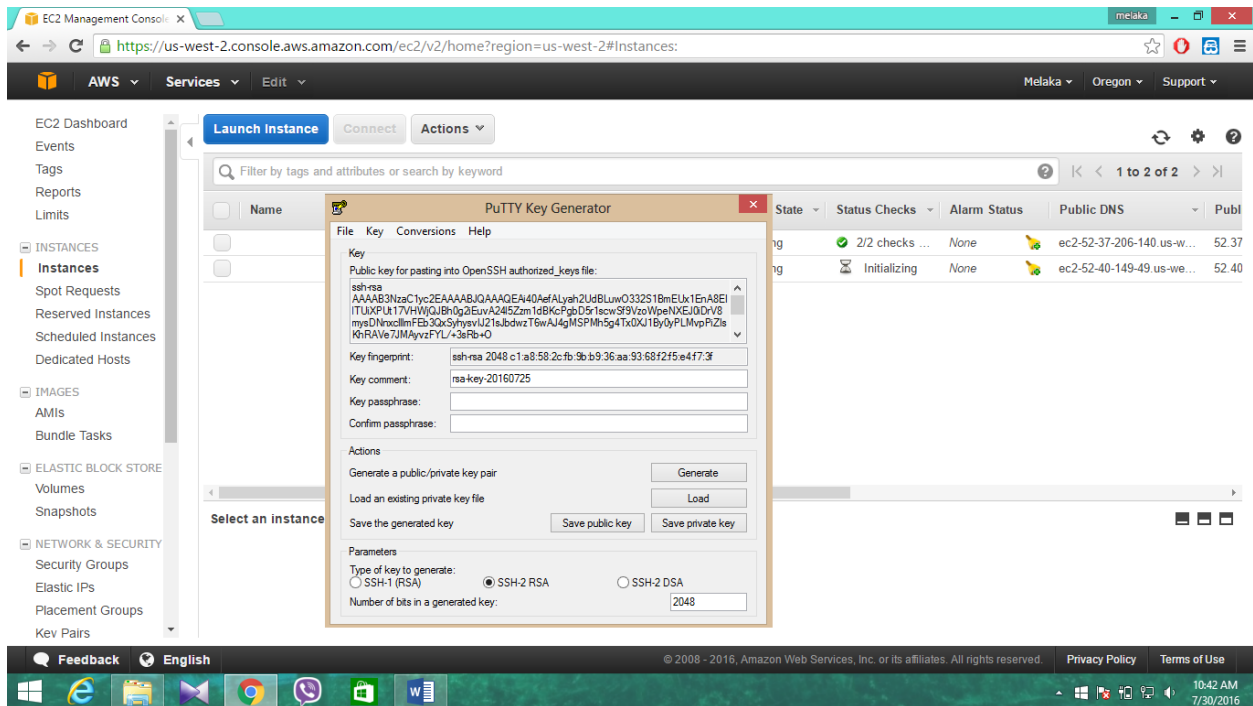
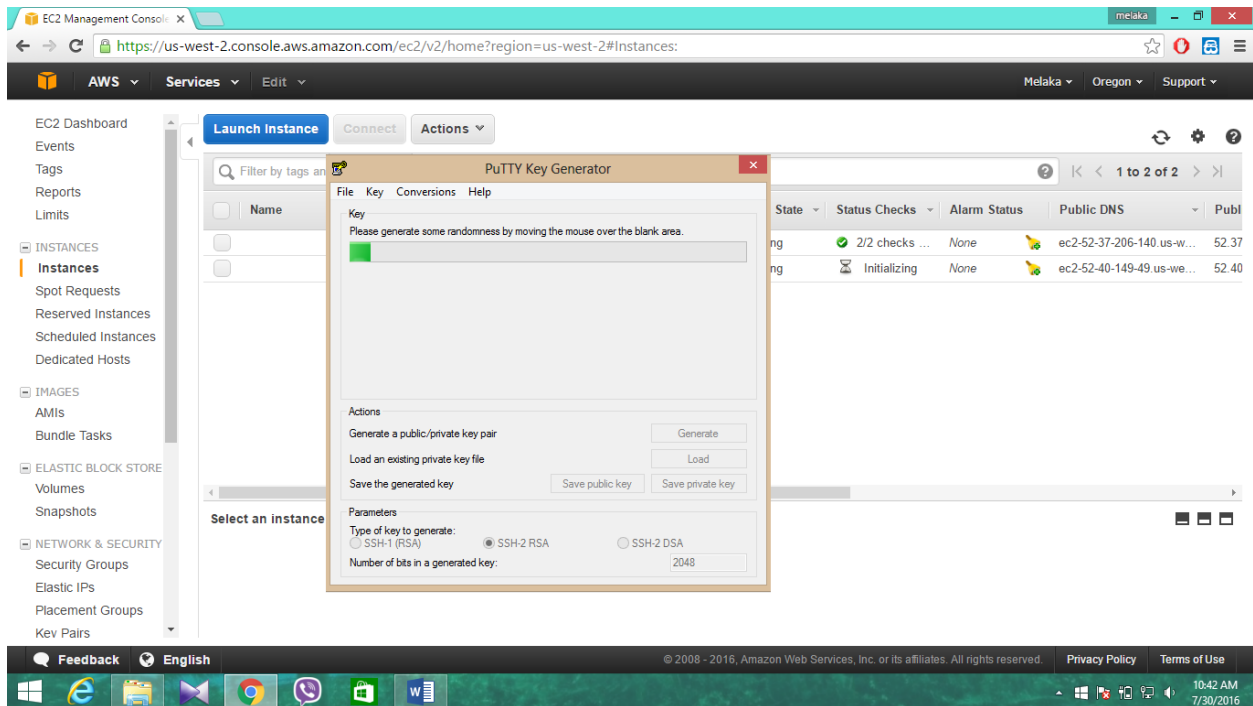
| | | | |
|-----------|------------------------------|-------------|-------------|
| PuTTY: | putty.exe | (or by FTP) | (signature) |
| PuTTYtel: | puttytel.exe | (or by FTP) | (signature) |
| PSCP: | pscp.exe | (or by FTP) | (signature) |
| PSFTP: | psftp.exe | (or by FTP) | (signature) |
| Plink: | plink.exe | (or by FTP) | (signature) |
| Pageant: | pageant.exe | (or by FTP) | (signature) |
| PuTTYgen: | puttygen.exe | (or by FTP) | (signature) |

A .ZIP file containing all the binaries (except PuTTYtel), and also the help files
 Zip file: [putty.zip](#) (or by FTP) (signature)

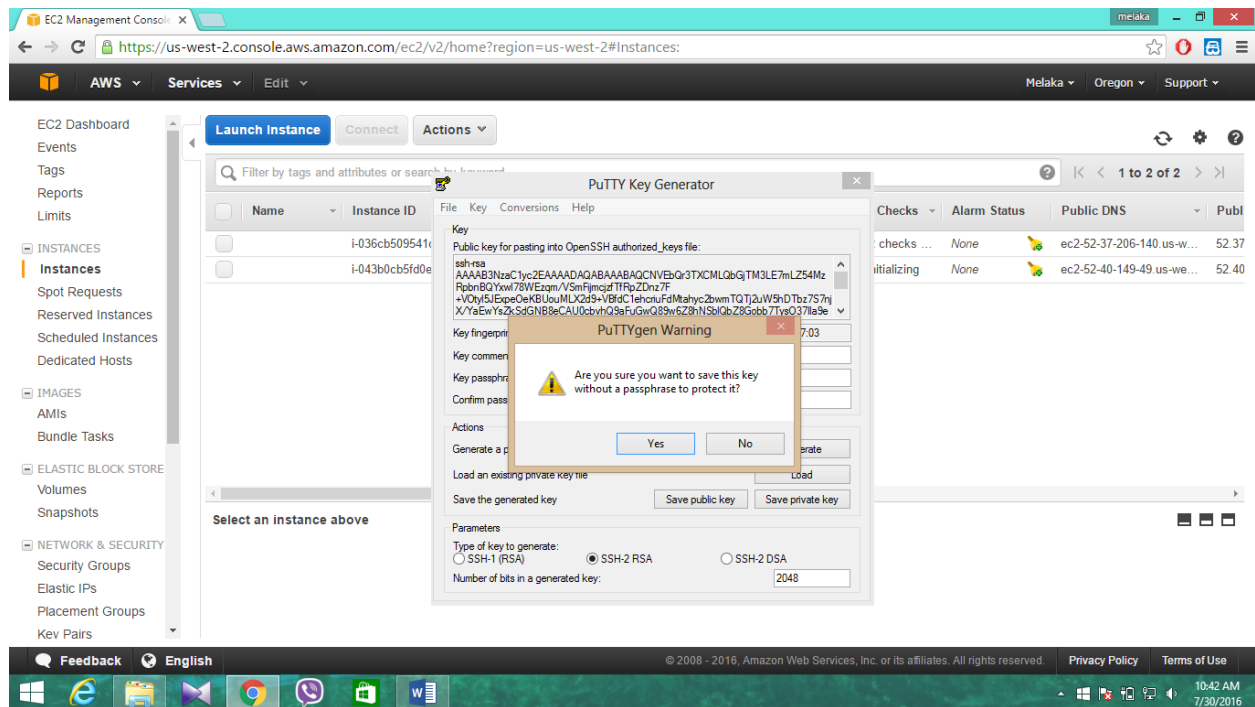
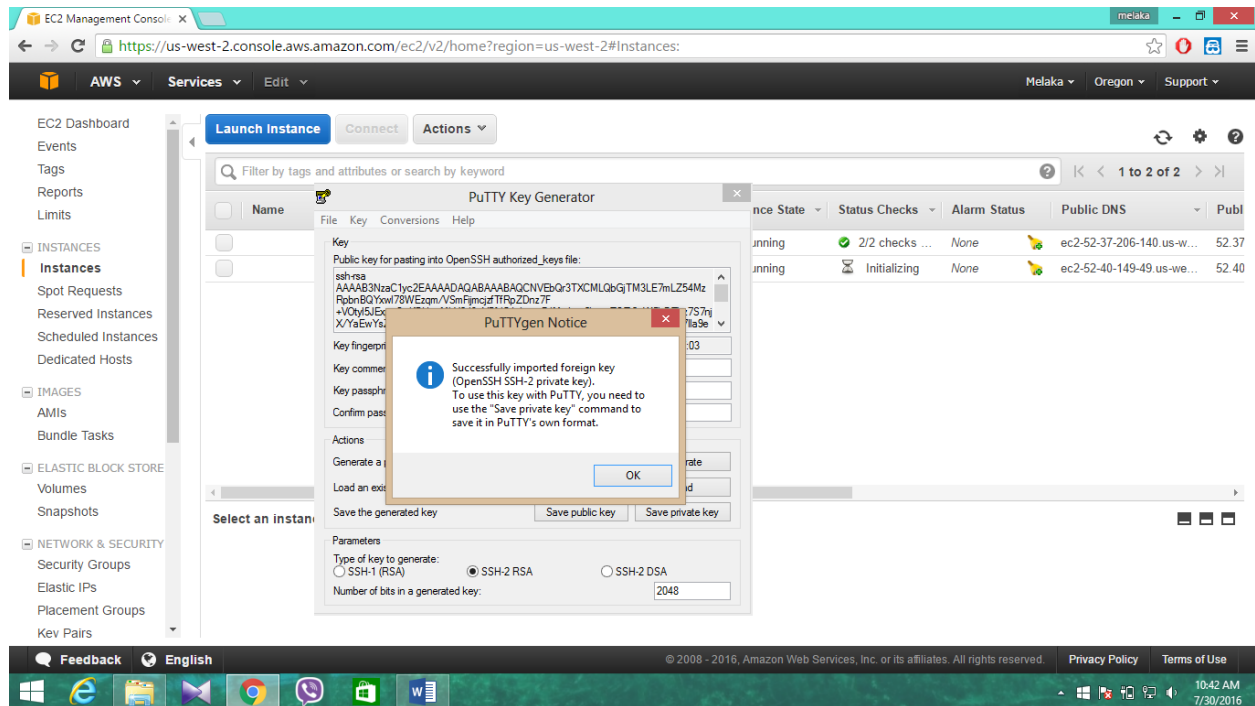
A Windows MSI installer package for everything except PuTTYtel
 Installer: [putty-0.67-installer.msi](#) (or by FTP) (signature)

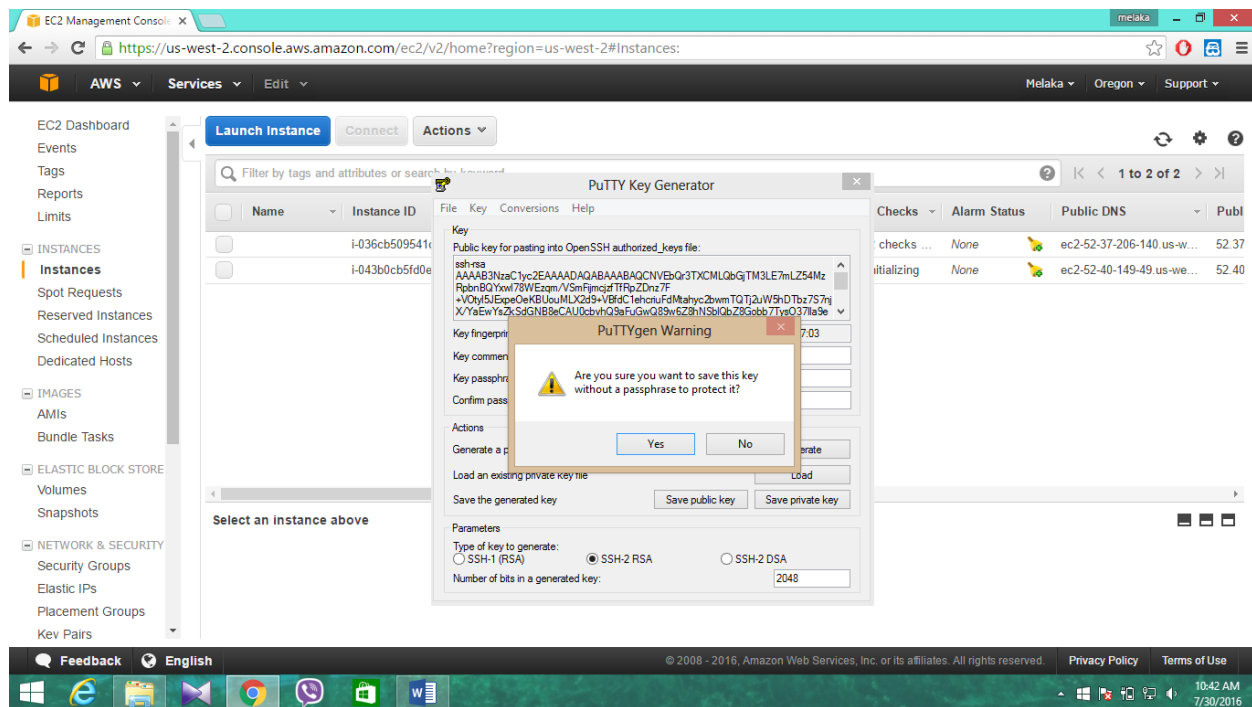
Legacy Inno Setup installer: **Reportedly insecure!** Use with caution, if the MSI fails.
 Legacy installer: [putty-0.67-installer.exe](#) (or by FTP) (signature)

Next open the puttygen.exe file and click “Load” button to get the putty key. Under type of key to generate, select SSH-2 RSA.

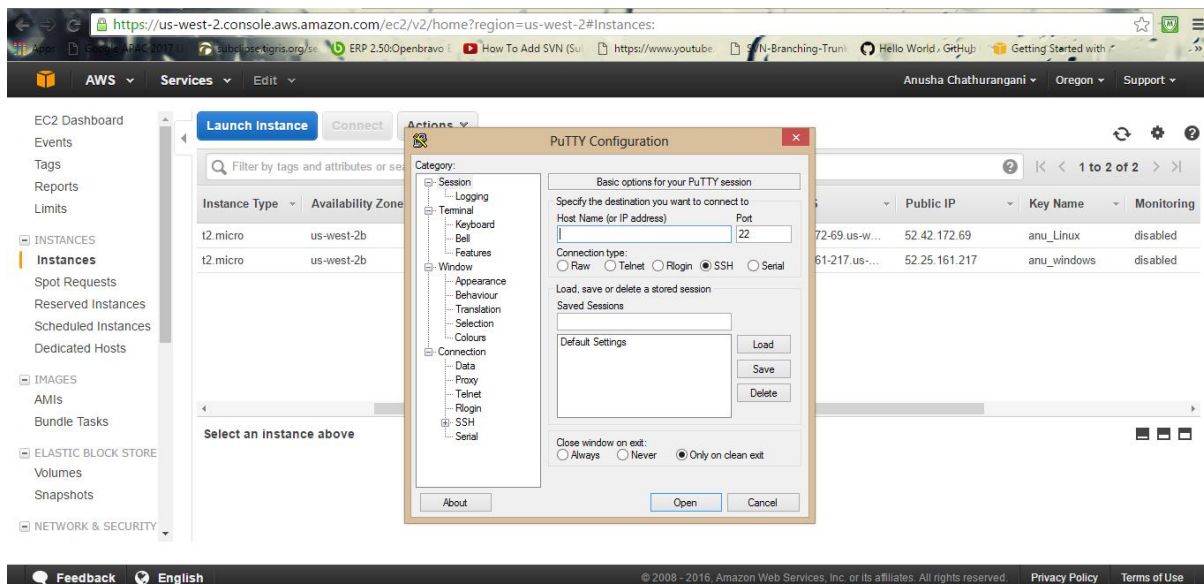


After generating the putty key it should be saved by clicking “Save Private Key” to use it in putty. Click “Yes” to continue and define the place where the putty key should be saved.

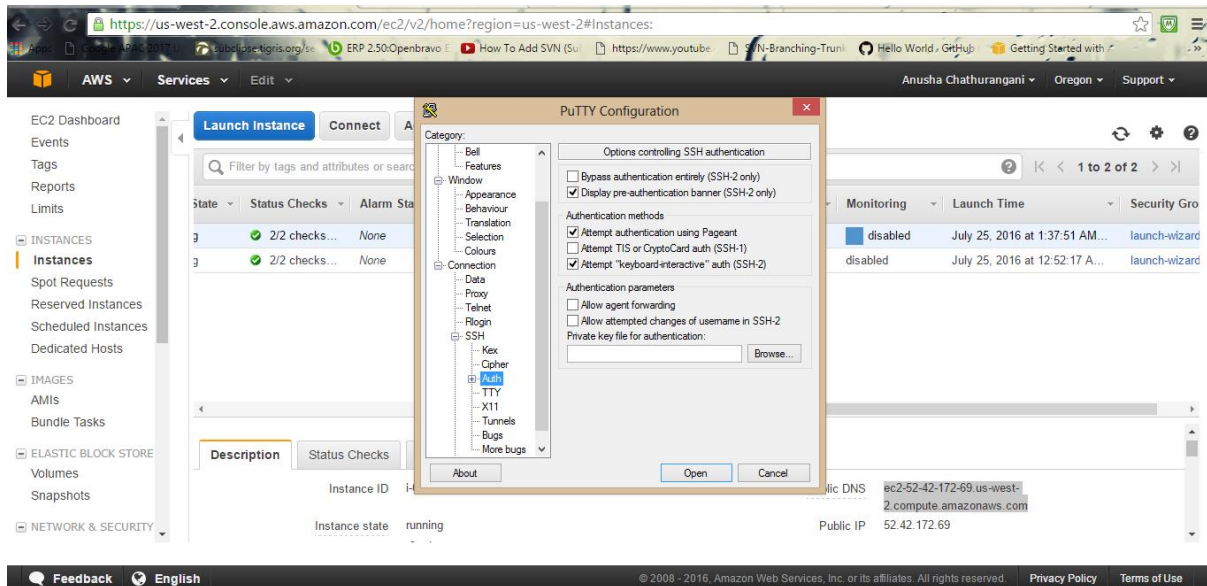




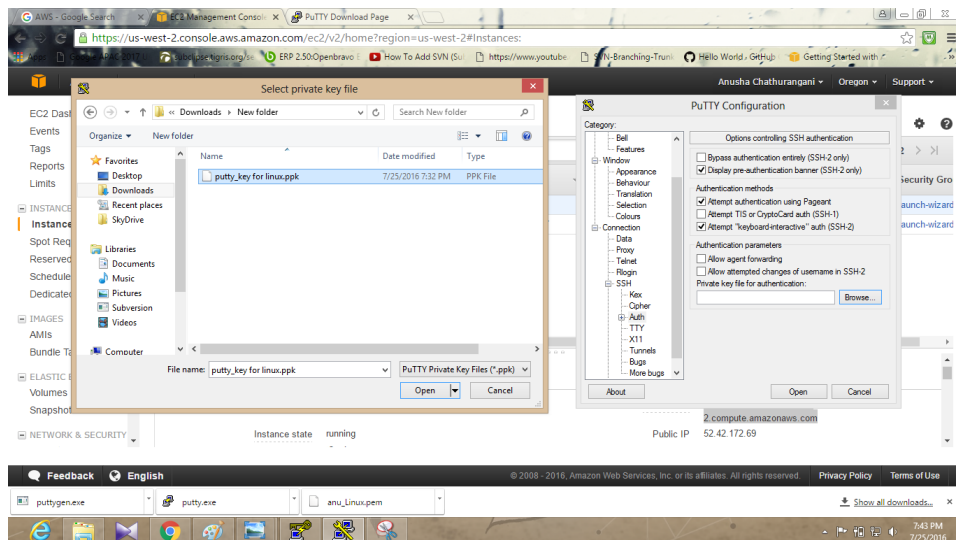
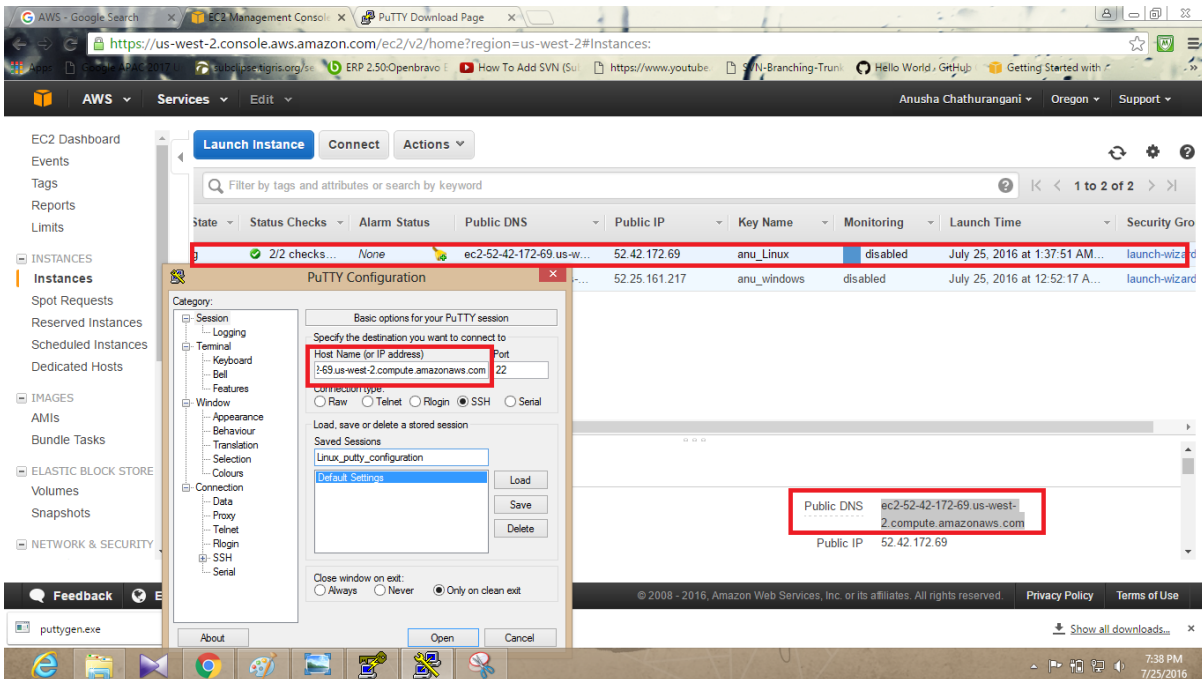
Then open the putty.exe file to connect to the Linux instance and give the public DNS as hostname and provide a name to save the creating session and click “Save”. (To view the public DNS click on the created Linux instance).

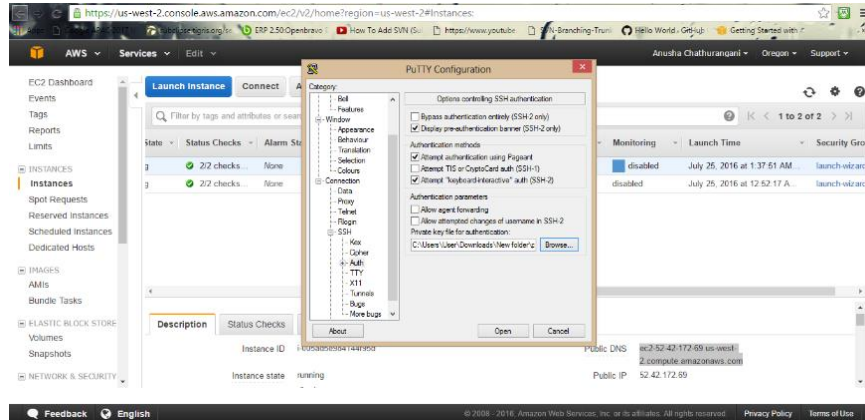


Then go to Connection -> SSH -> Auth to control SSH authentication.



Then locate the saved private key to start the Linux instance with putty by using Browse button.





Then the console will appear and user has to login as “ec2-user” to launch the Linux AMI instance.

