



SLIIT

COMPUTING

BUSINESS

ENGINEERING

Configuring Windows and Linux Servers on AWS

ESBPI LAB ASSIGNMENT 1

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Windows

EC2 Dashboard is seen below, Click 'Launch Instance' to create a new Windows instance.

The screenshot shows the AWS EC2 Management Console dashboard for the US West (Oregon) region. The left sidebar includes links for EC2 Dashboard, Instances, Images, Elastic Block Store, Network & Security, and Support. The main panel displays resource counts: 0 Running Instances, 0 Dedicated Hosts, 0 Volumes, 0 Key Pairs, 0 Elastic IPs, 0 Snapshots, 0 Load Balancers, and 1 Security Groups. A central box encourages building distributed applications with Amazon Simple Workflow Service. Below this is a 'Create Instance' section with a 'Launch Instance' button. To the right, there's an 'Account Attributes' section listing supported platforms (VPC), default VPC (vpc-3ed4905a), and resource ID length management. An 'Additional Information' sidebar provides links to Getting Started Guide, Documentation, All EC2 Resources, Forums, Pricing, and Contact Us. The bottom right shows the AWS Marketplace with a note about free software trials. The footer includes standard AWS links and a status bar showing 11:53 AM, 7/12/2016.

Click 'Select' in 'Microsoft Windows Server 2012 R2 Base'

The screenshot shows the 'Step 1: Choose an Amazon Machine Image (AMI)' page of the EC2 Launch Wizard. It lists two AMIs: 'Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9abeea4fb' and 'Microsoft Windows Server 2012 R2 Base - ami-8d0acfcd'. Both are marked as 'Free tier eligible'. The 'Ubuntu' entry is currently selected, indicated by a blue border around its 'Select' button. A callout box for 'Amazon RDS' suggests trying it for database instances. The footer is identical to the previous screenshot.

The screenshot shows the bottom of a web browser window with the AWS navigation bar, feedback link, language selection, and standard system icons. The status bar at the bottom right shows 11:57 AM, 7/12/2016.

Click 'Review and Launch'

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

Cancel Previous Review and Launch Next: Configure Instance Details

Click 'Launch'

Step 7: Review Instance Launch

AMI Details

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

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

Security group name: launch-wizard-1
Description: launch-wizard-1 created 2016-07-12T12:00:28.062+05:30

Cancel Previous Launch

Select 'Create a new key pair' and give any name to 'Key pair name' and click 'Download Key Pair' then a file named Gim.pem will download after that click 'Launch Instances'.

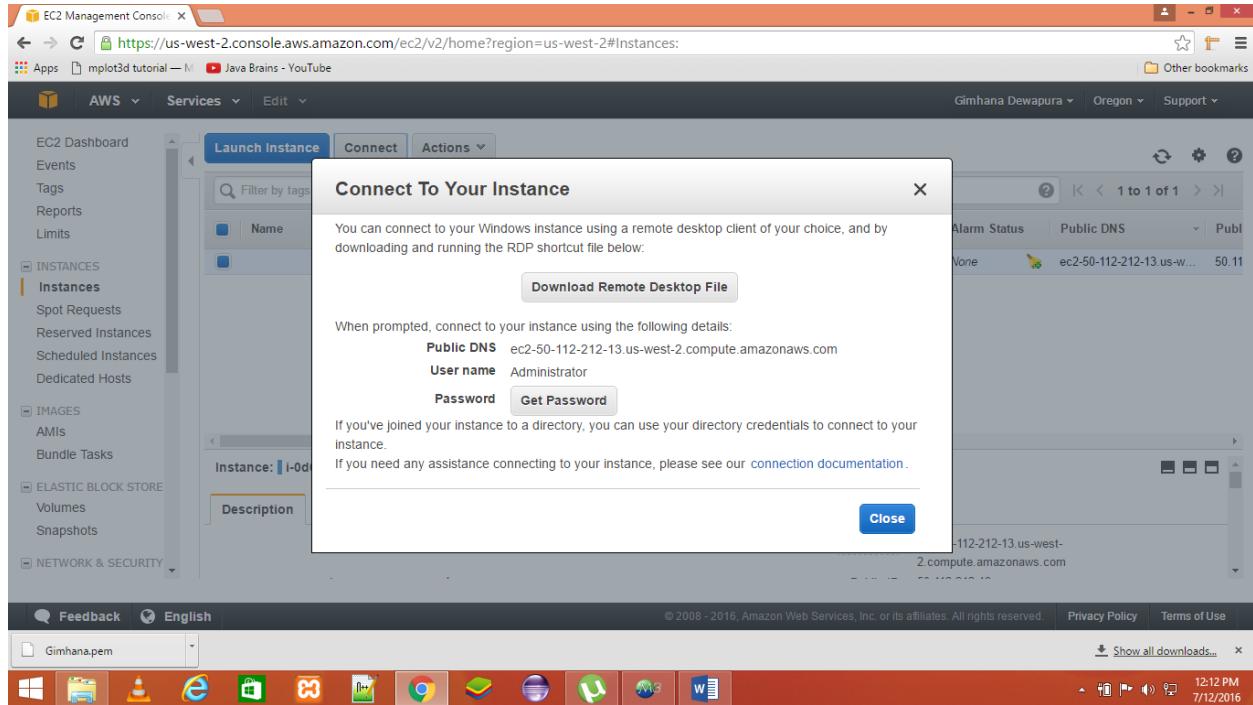
Click 'View Instances'

The screenshot shows the EC2 Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The page displays the 'Launch Status' section, which informs the user that instances are launching and may take a few minutes to reach the 'running' state. It includes a link to 'View Instances' and a list of helpful resources like the User Guide and Discussion Forum. Below this, there are links for creating status check alarms, attaching EBS volumes, and managing security groups. A prominent blue 'View Instances' button is located at the bottom right.

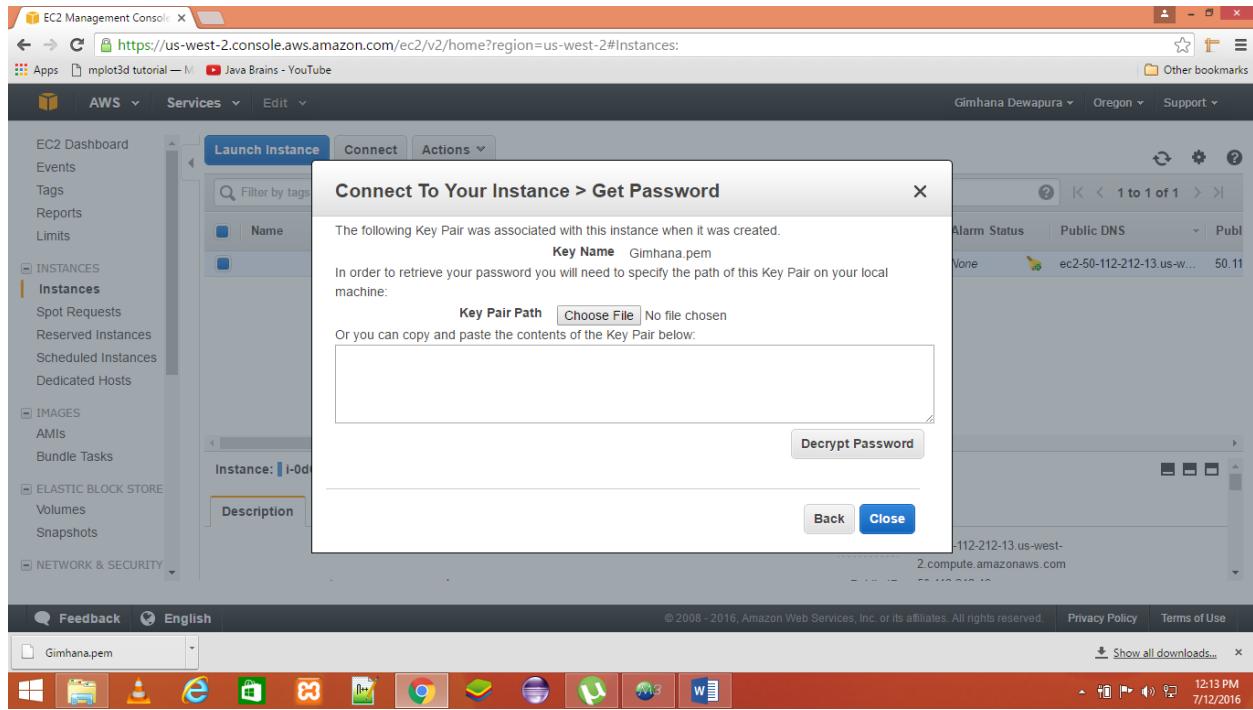
Click 'Connect'

The screenshot shows the EC2 Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances>. The left sidebar is expanded to show the 'Instances' section, which is currently selected. The main area displays a table of instances. One instance, with the ID i-0d65834a6a334b62a and type t2.micro, is selected and shown in a detailed view below the table. The instance is in the 'running' state. The bottom part of the screenshot shows the Windows taskbar with various pinned icons and the system tray indicating the date and time as 12:11 PM on 7/12/2016.

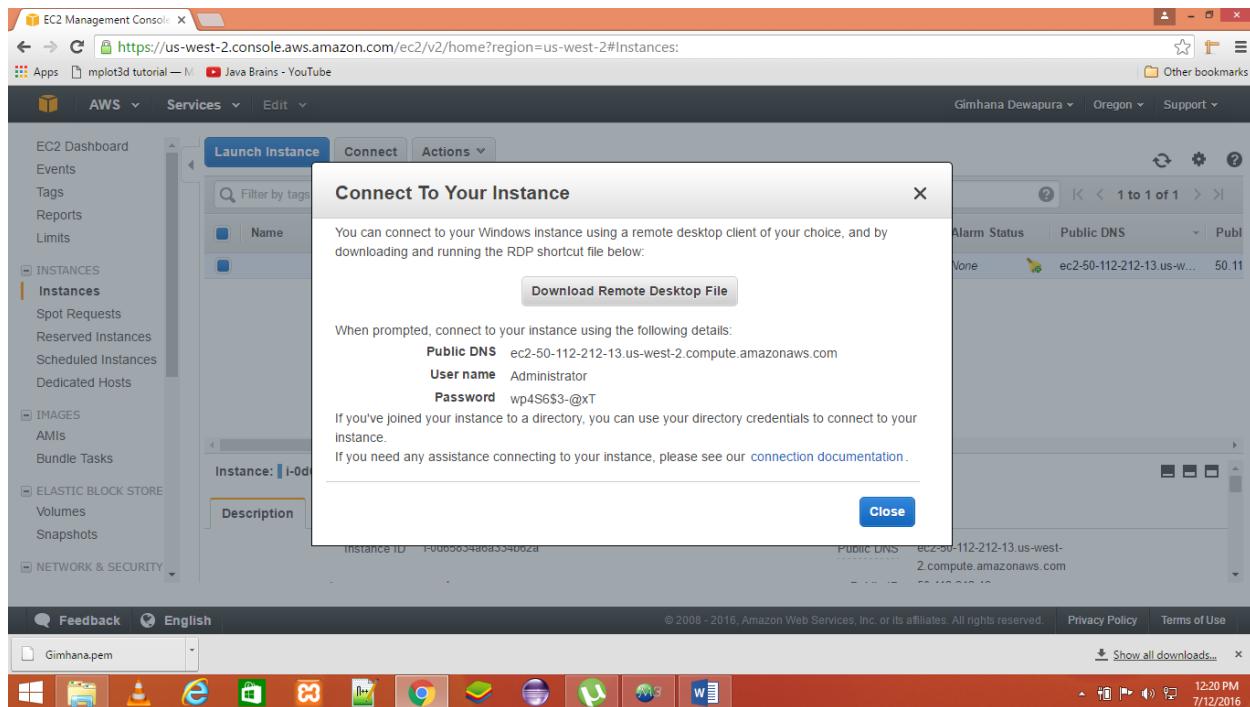
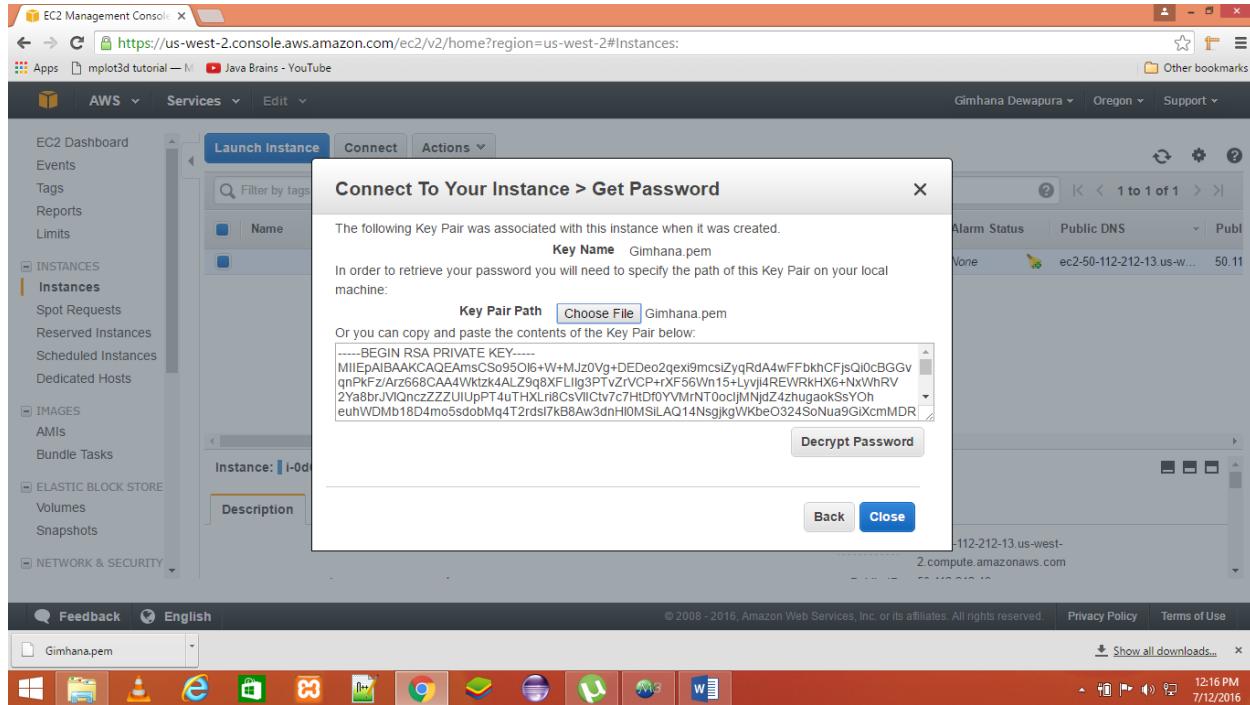
Click 'Get Password'



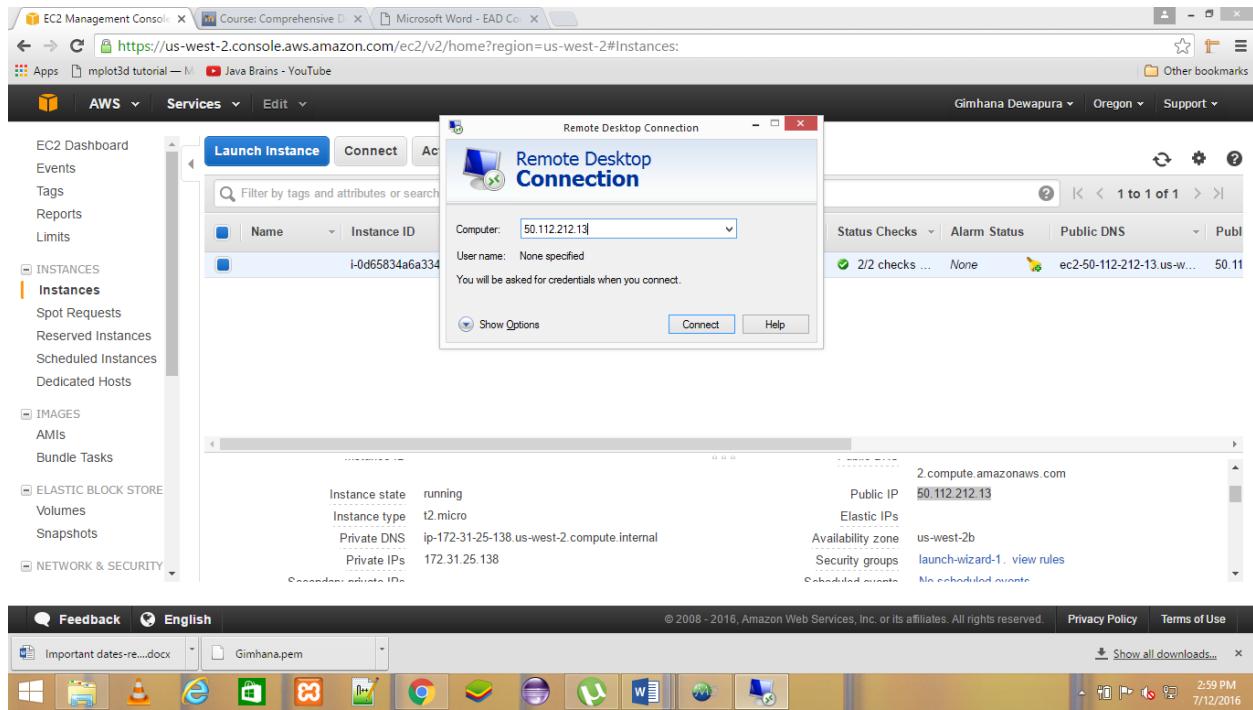
Click 'Choose File' and choose Gimhana.pem.



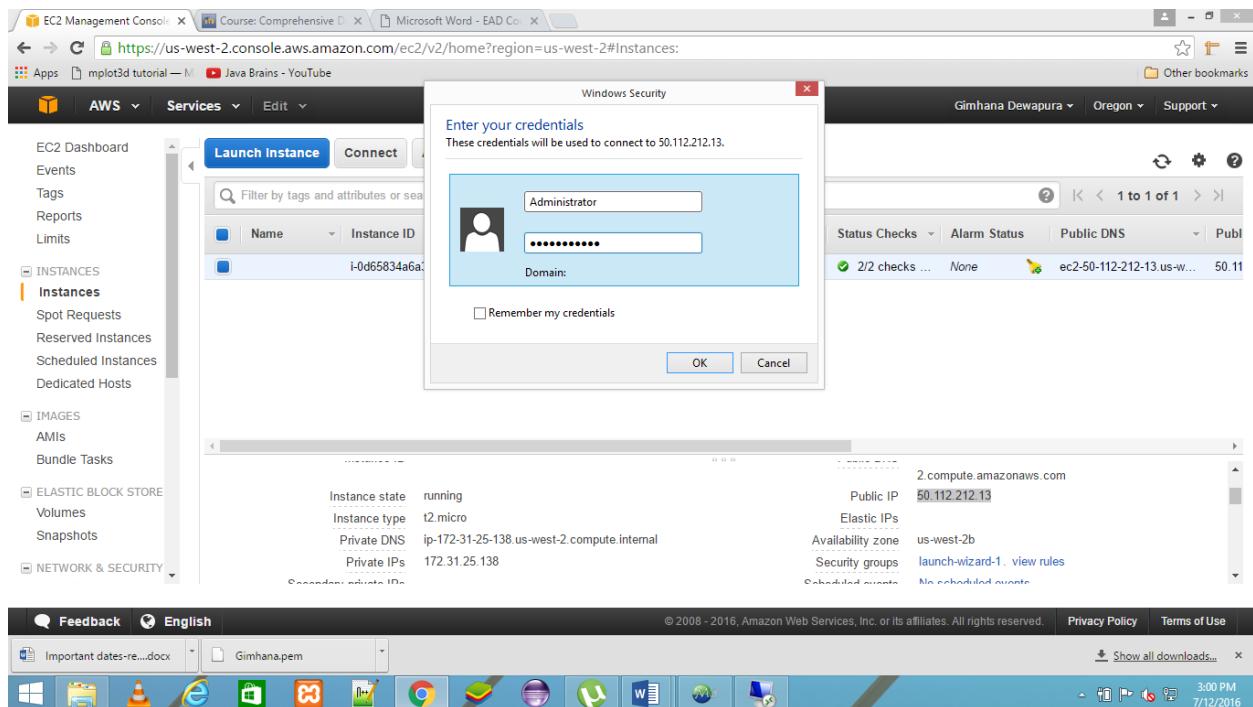
Click 'Decrypt Password'.



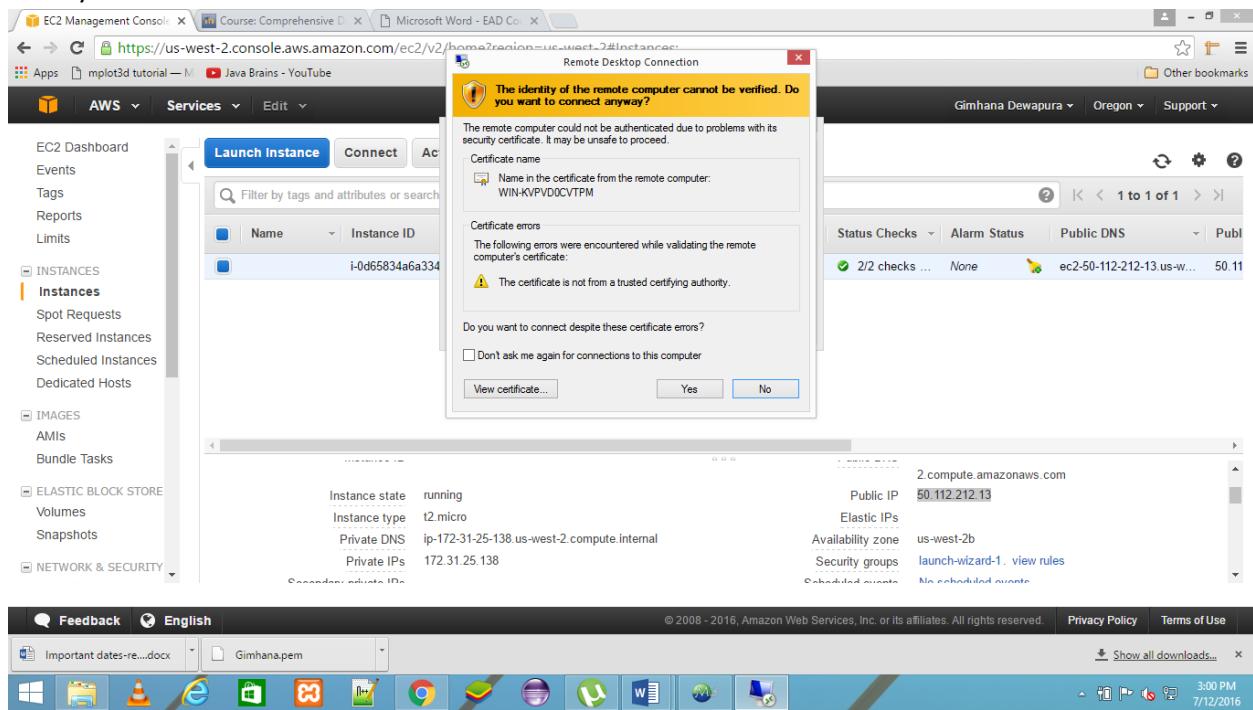
Now go to Remote Desktop Connection and provide the public IP and then click 'connect'.



Now provide username and password which was given earlier and click 'ok'



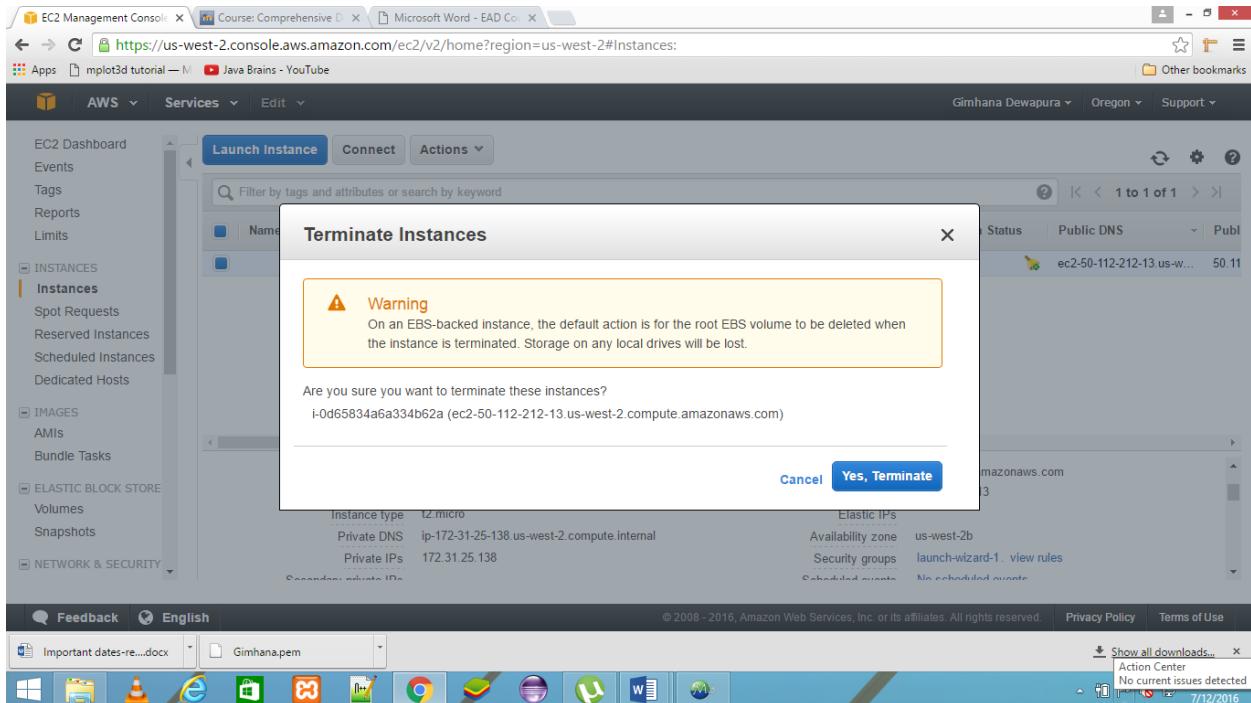
Click 'yes'



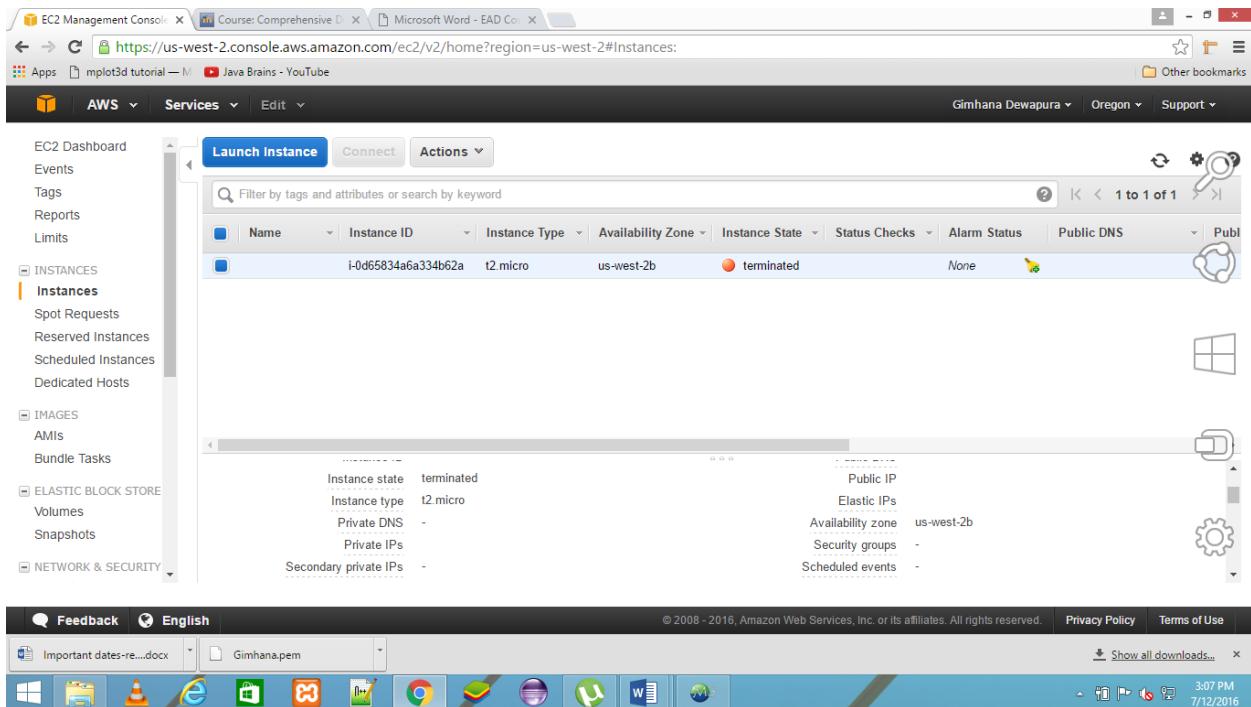
Now you can see the 'Windows Server'.



When you are terminating the instance right click -> terminate-> Yes, Terminate.



Instance is terminated.



Linux

Select Amazon Linux

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 <small>(1)</small>

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

Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type - ami-775e4f16
Red Hat Free tier eligible
Red Hat Enterprise Linux version 7.2 (HVM), EBS General Purpose (SSD) Volume Type
Root device type: ebs Virtualization type: hvm

SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type - ami-d2627db3



Now click 'Review and Launch'.

Step 2: Choose an Instance Type

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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
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<input checked="" type="checkbox"/>	General purpose	t2.micro <small>Free tier eligible</small>	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



Click 'Launch'.

The screenshot shows the AWS Management Console EC2 service. The user is at Step 7: Review Instance Launch. The main content area displays the instance configuration: AMI (Amazon Linux AMI 2016.03.3), Instance Type (t2.micro), and other details like EBS-Optimized storage. A prominent orange callout box highlights a security note: "Improve your instances' security. Your security group, launch-wizard-2, is open to the world." Below this, there's a note about security groups and ports. At the bottom right of the main form, the "Launch" button is highlighted with a blue border. The status bar at the bottom shows the date and time as 3:08 PM 7/12/2016.

Select 'Create a new key pair' from the dropdown and give any name to 'Key pair name' and click 'Download Key Pair'.

This screenshot shows the same EC2 wizard interface as above, but with a modal dialog box overlaid. The dialog is titled "Select an existing key pair or create a new key pair". It contains instructions about key pairs and a note that the selected key pair will be added to the instance's authorized keys. A dropdown menu shows "Create a new key pair" is selected, and a text input field shows the key pair name "Gims". Below the input field is a message: "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 dialog are "Cancel" and "Launch Instances" buttons. The background of the main window is dimmed, and the status bar at the bottom shows 3:09 PM 7/12/2016.

Now click 'View Instances'.

The screenshot shows the AWS EC2 Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The page is titled 'Launch Status'. It contains sections on how to connect to instances, helpful resources (like the User Guide and Discussion Forum), and status check alarms. A 'View Instances' button is visible at the bottom right. The browser toolbar at the top includes tabs for 'Course: Comprehensive D...', 'Microsoft Word - EAD Co...', and 'Other bookmarks'. The AWS navigation bar shows 'AWS Services Edit'. The status bar at the bottom indicates the user is in the Oregon region.

Instance is running.

The screenshot shows the AWS EC2 Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances>. The page is titled 'Instances'. On the left, there's a 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. The main content area shows a table of instances:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Pub
	i-0c602837e700f7a74	t2.micro	us-west-2b	running	Initializing	None	ec2-52-41-97-42.us-wes...	52.41
	i-0d65834a6a334b62a	t2.micro	us-west-2b	terminated		None		

Below the table, there's a note: 'Select an instance above'. The browser toolbar and AWS navigation bar are visible at the top, and the status bar at the bottom shows the user is in the Oregon region.

Download putty.exe and puttygen.exe.



Checksums for all the above files

MD5:	md5sums	(or by FTP)	(signature)
SHA-1:	sha1sums	(or by FTP)	(signature)
SHA-256:	sha256sums	(or by FTP)	(signature)
SHA-512:	sha512sums	(or by FTP)	(signature)

The latest development snapshot

This will be built every day, automatically, from the current development code - in *whatever* state it's currently in. If you need a fix for a particularly inconvenient bug, you may well be able to find a fixed PuTTY here well before the fix makes it into the release version above. On the other hand, these snapshots might sometimes be unstable.

(The filename of the development snapshot installer contains the snapshot date, so it will change every night.)

For Windows on Intel x86

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

A ZIP file containing all the binaries (except PuTTYtel), and also the help files

Zip file:	putty.zip	(signature)
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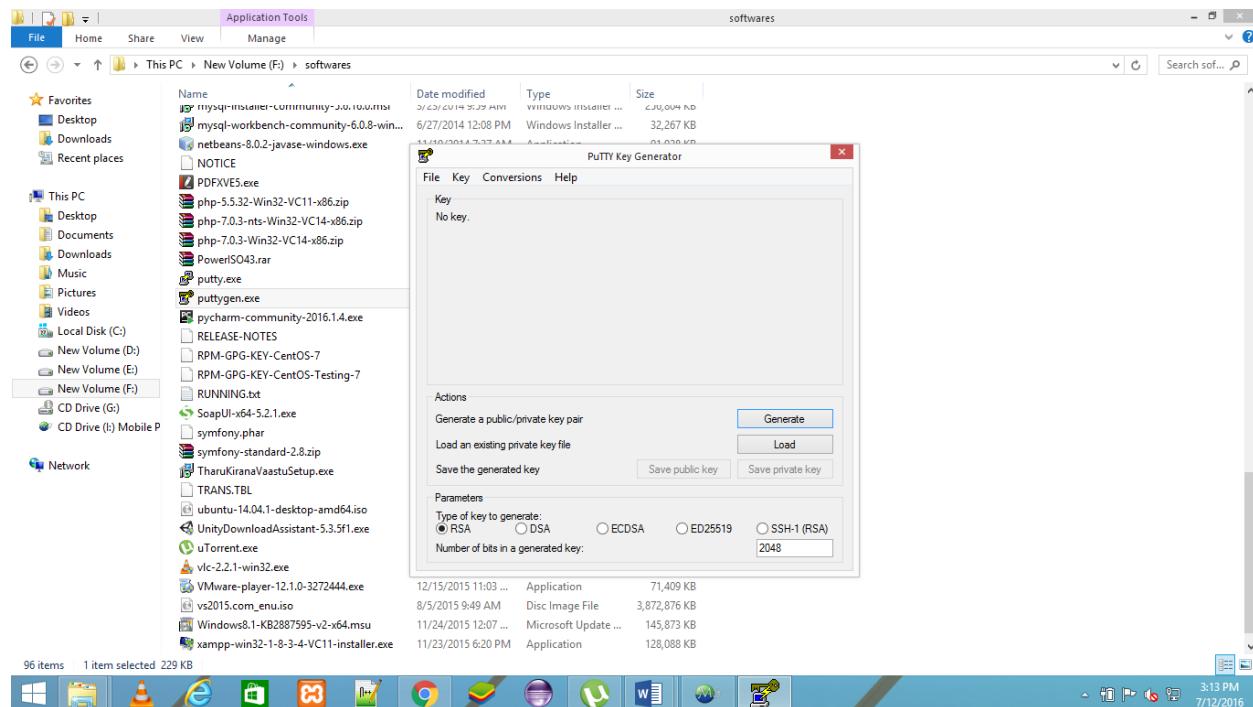
A Windows MSI installer package for everything except PuTTYtel

Installer:	putty-<version>-installer.msi	(signature)
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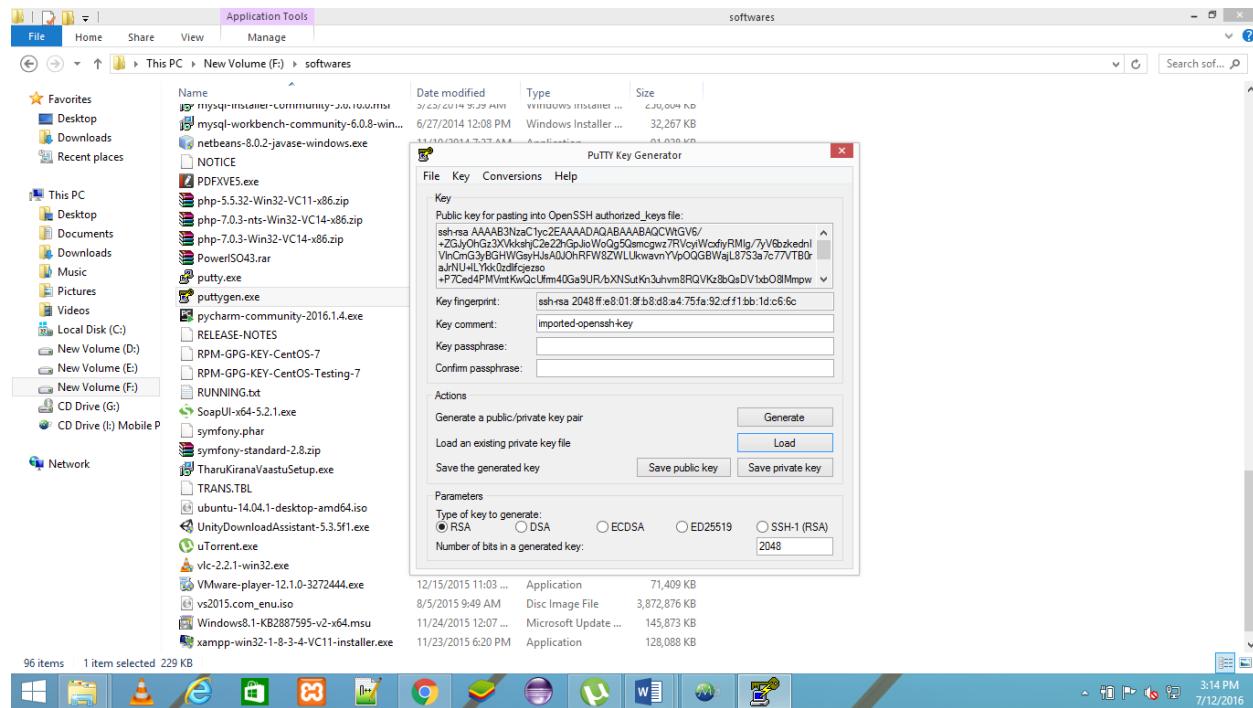
Legacy Inno Setup installer: **Reportedly insecure!** Use with caution, if the MSI fails.

Legacy installer:	putty-<version>-installer.exe	(signature)
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Run puttygen.exe and click 'Load' and browse Gims.pen.

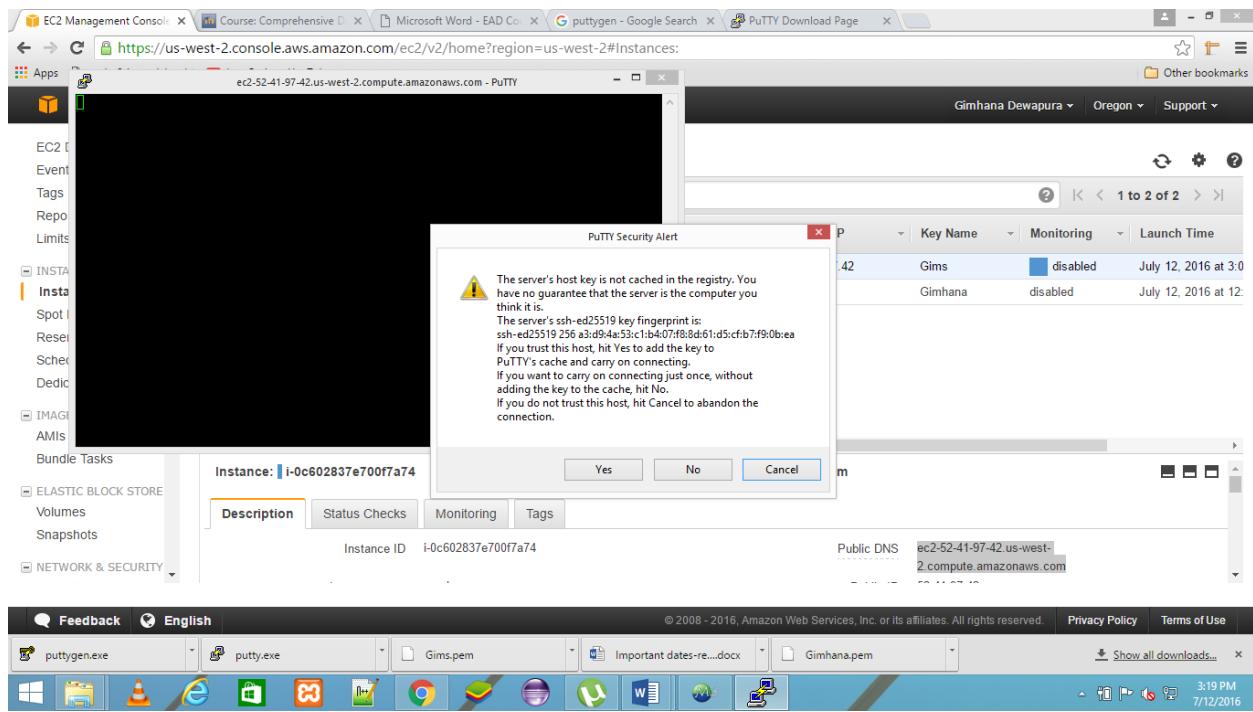


Now run putty.exe. Copy public DNS . go to SSH -> Auth -> Browse



Go to SSH -> Auth -> Browse -> Open .

Click 'Yes'.



Provide 'ec2-user' for login as. Now the linux server is done.

