



## 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

Lab Assignment 1 & 2

Creating an Instance for windows & Linux

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IT13033538

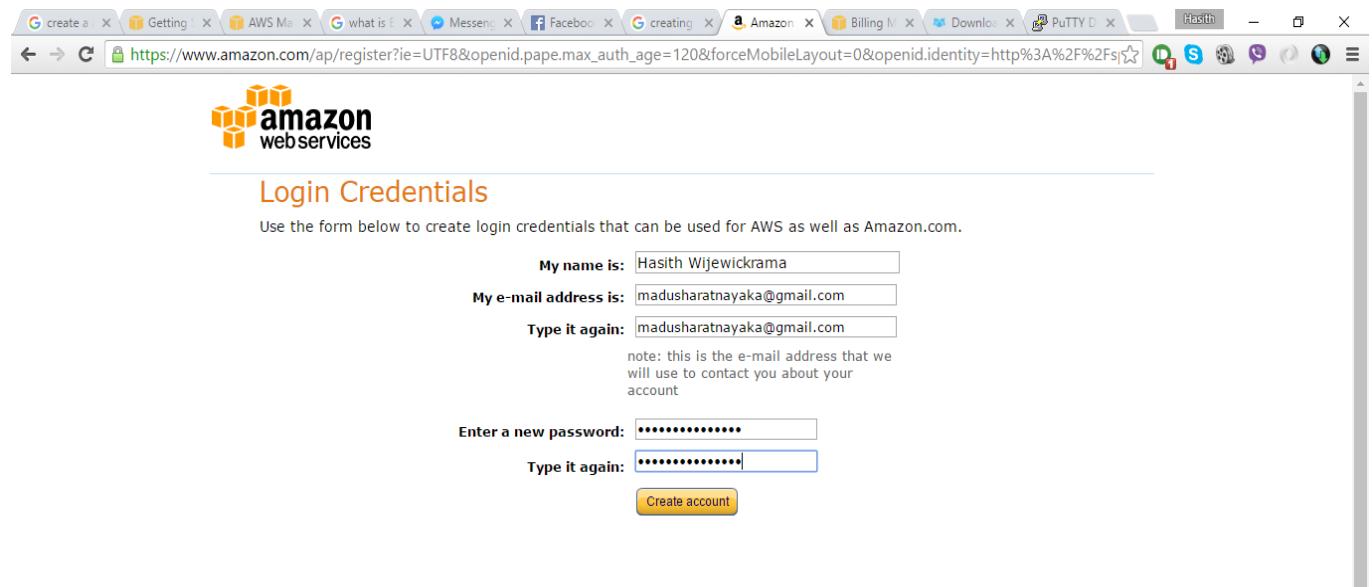
Weekday – IT

## Creating an Instance for windows

Here we are going to use **Amazon EC2** to create the instance and it is a cloud hosting service that provides resizeable virtual servers to make computing easier.

First of all you need to register with Amazon Web Services in order to remotely get the services.

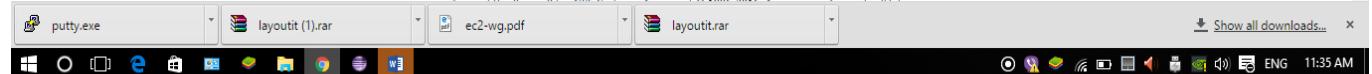
1. Provide a valid email and create a password.



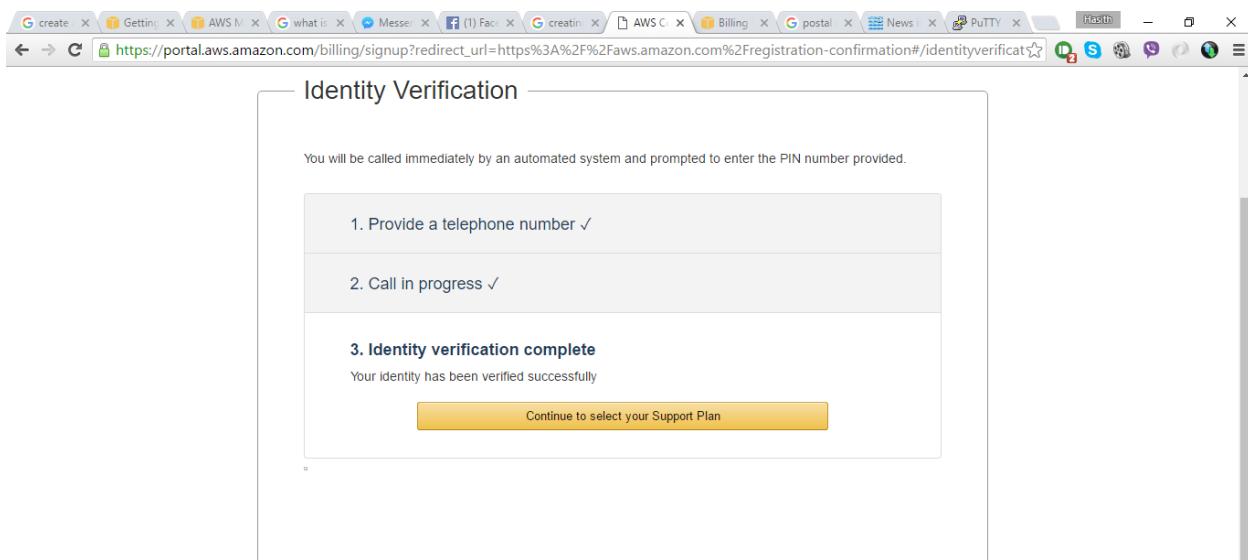
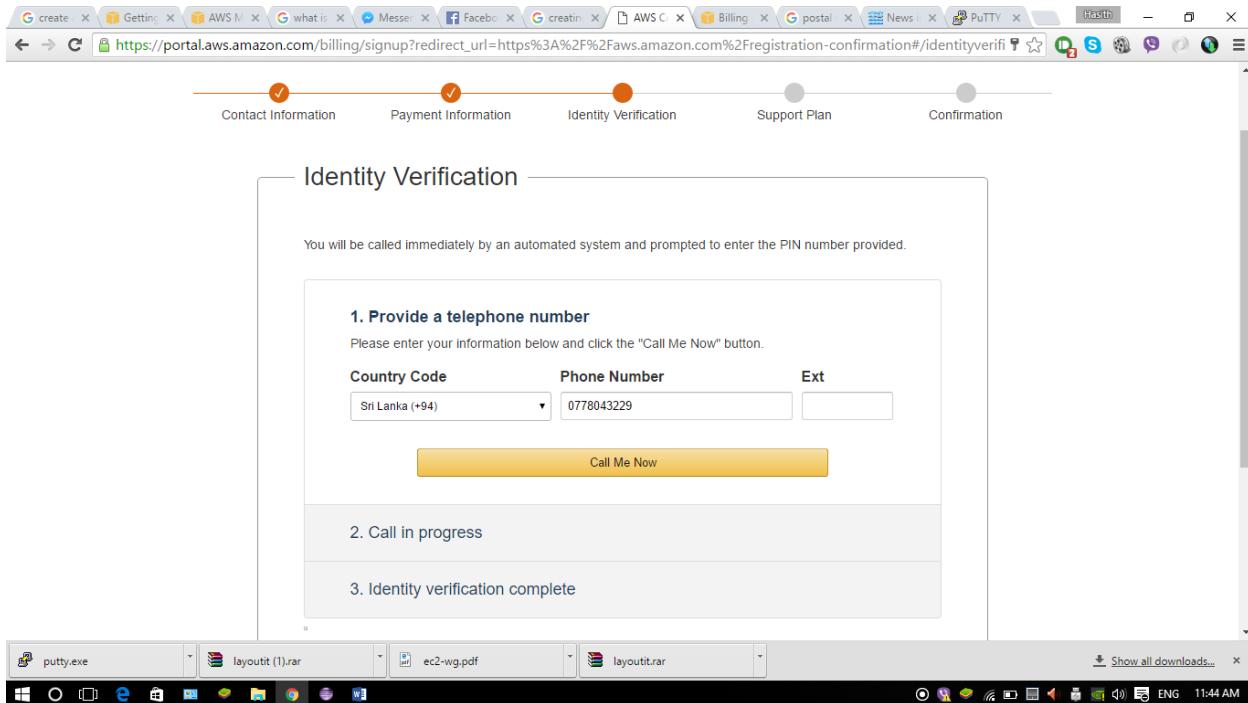
The screenshot shows a web browser window with the URL [https://www.amazon.com/ap/register?ie=UTF8&openid.pape.max\\_auth\\_age=120&forceMobileLayout=0&openid.identity=http%3A%2F%2Fs](https://www.amazon.com/ap/register?ie=UTF8&openid.pape.max_auth_age=120&forceMobileLayout=0&openid.identity=http%3A%2F%2Fs). The page title is "Login Credentials". It asks for "My name is:" (Hasith Wijewickrama), "My e-mail address is:" (madusharatnayaka@gmail.com), and "Type it again:" (madusharatnayaka@gmail.com). A note below says: "note: this is the e-mail address that we will use to contact you about your account". It also has fields for "Enter a new password:" and "Type it again:", both containing masked text. A "Create account" button is at the bottom. Below the form is a section titled "About Amazon.com Sign In" with a note about AWS Customer Agreement.

**About Amazon.com Sign In**

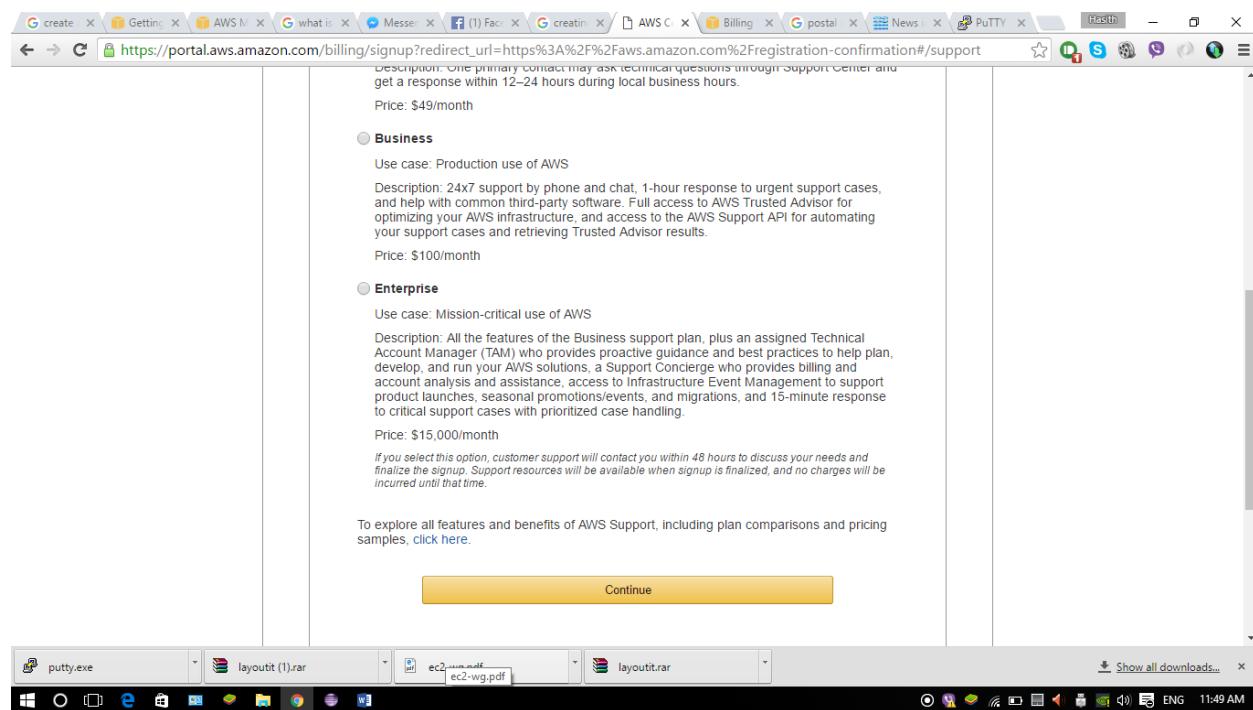
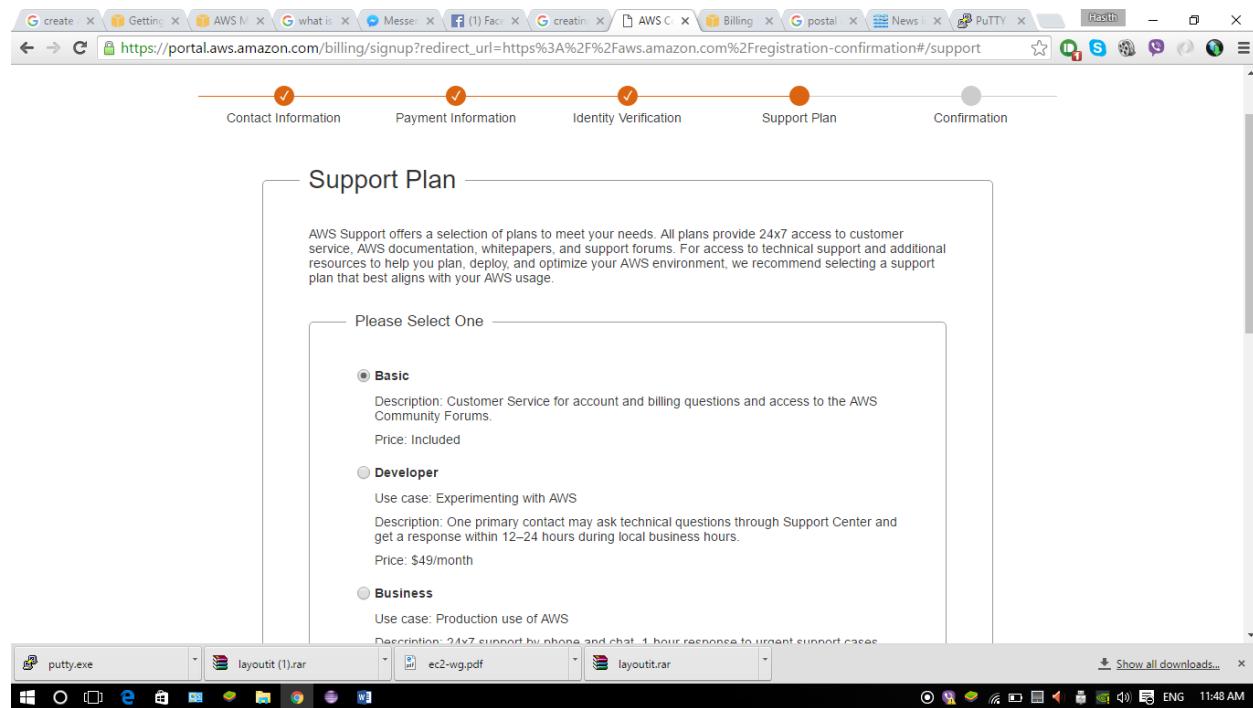
Amazon Web Services uses information from your Amazon.com account to identify you and allow access to Amazon Web Services. Your use of this site is governed by our Terms of Use and Privacy Policy linked below. Your use of Amazon Web Services products and services is governed by the AWS Customer Agreement linked below unless you purchase these products and services from an AWS Value Added Reseller.



## 2. Give a telephone number.



### 3. Select the support plan as basic and continue.

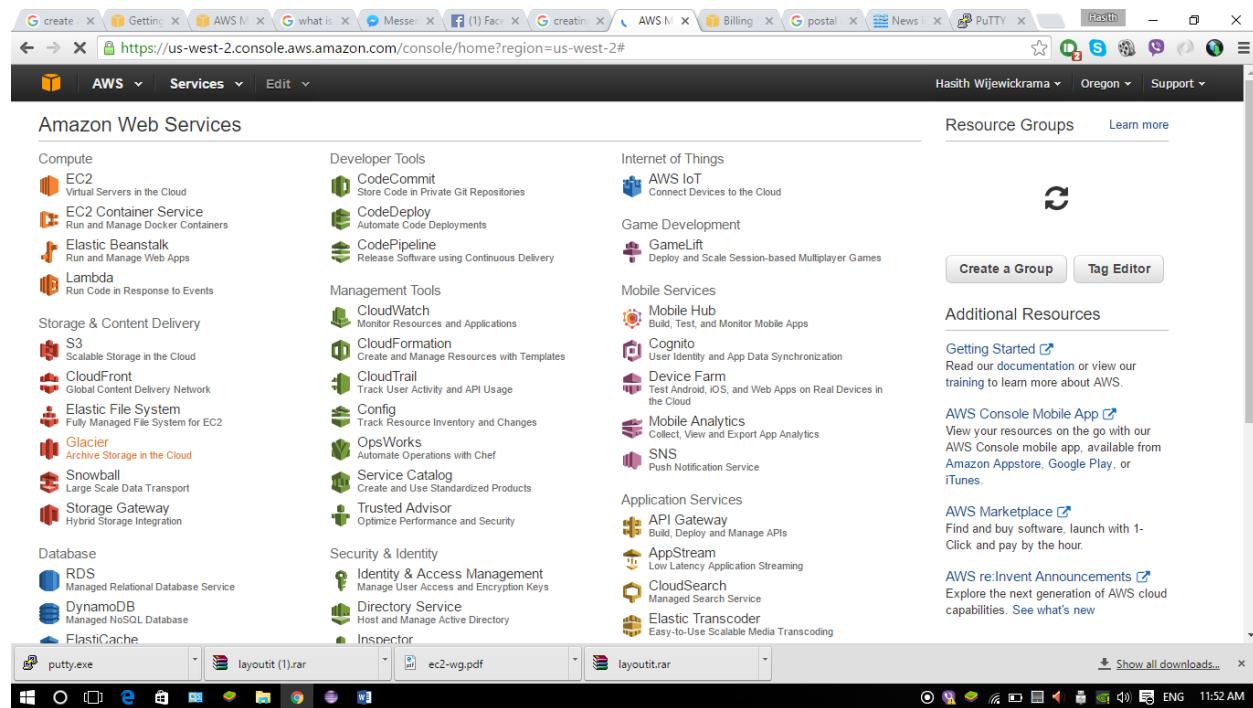


The screenshot shows a web browser window with the URL <https://aws.amazon.com/registration-confirmation/>. The page title is "Welcome to Amazon Web Services". It includes a message: "Thank you for creating an Amazon Web Services Account. We are activating your account, which should only take a few minutes. You will receive an email when this is complete." Below this are two buttons: "Sign In to the Console" (yellow) and "Contact Sales" (grey). A sidebar on the left lists "Menu", "Amazon web services", "English", "My Account", and "Sign Up". A central section titled "Try AWS with a 10-Minute Tutorial" features three icons: a green one for launching a Linux VM, a blue one for storing files in the cloud, and an orange one for launching a WordPress website. Below each icon is a link: "Launch a Linux Virtual Machine", "Store Your Files in the Cloud", and "Launch a WordPress Website". At the bottom right is a link "View all tutorials >>". The taskbar at the bottom shows several open windows, including Putty.exe, layoutit.rar, ec2-wg.pdf, and layoutit.rar.

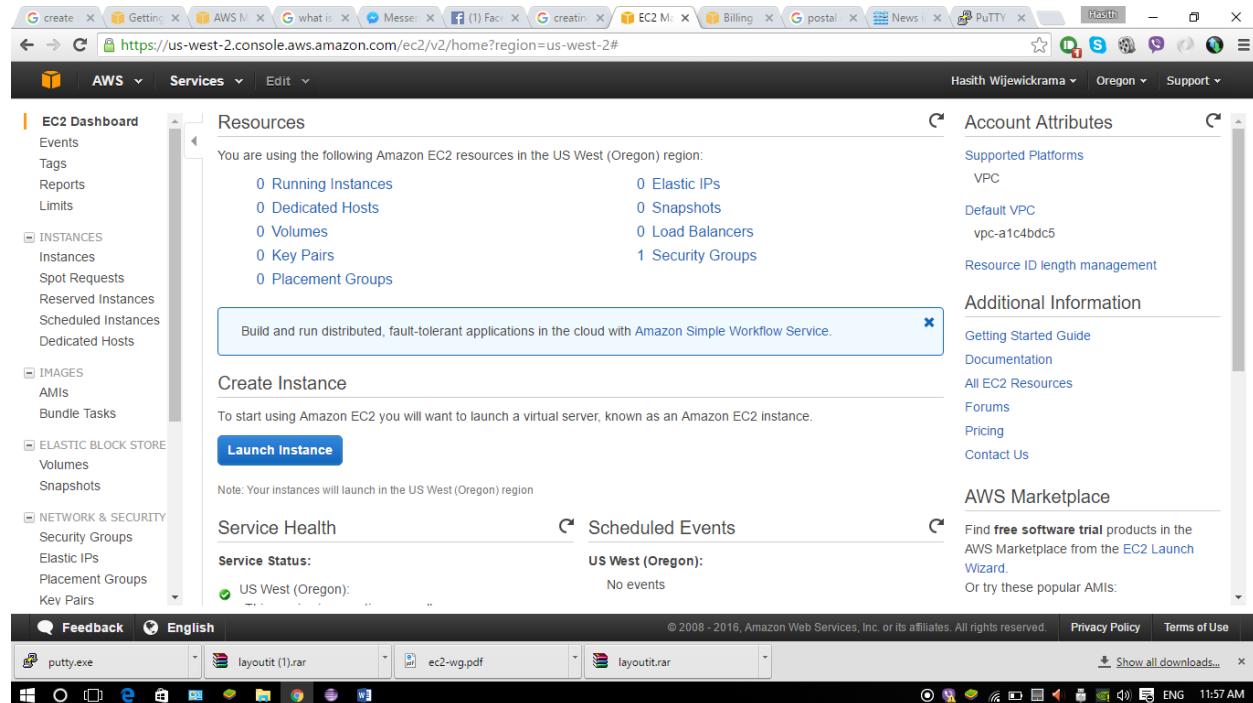
#### 4. Now you can sign in with previously created credentials

The screenshot shows a web browser window with the URL [https://www.amazon.com/ap/signin?openid.assoc\\_handle=aws&openid.return\\_to=https%3A%2F%2Fsignin.aws.amazon.com%2Foauth%3Fres%3D](https://www.amazon.com/ap/signin?openid.assoc_handle=aws&openid.return_to=https%3A%2F%2Fsignin.aws.amazon.com%2Foauth%3Fres%3D). The page title is "Sign In or Create an AWS Account". It asks for an "E-mail or mobile number" (input field containing "madusharatnayaka@gmail.com") and offers two options: "I am a new user." (radio button) and "I am a returning user and my password is:" (radio button, selected). Below this is a password input field and a "Sign in using our secure server" button. A link "Forgot your password?" is also present. To the right, there is an advertisement for "Amazon EC2 Container Service" with the text "Run Production Docker Workloads with" and an illustration of a container ship. At the bottom, a note says "Learn more about [AWS Identity and Access Management](#) and [AWS Multi-Factor Authentication](#), features that provide additional security for your AWS Account. View full [AWS Free Usage Tier](#) offer terms." The taskbar at the bottom shows several open windows, including Putty.exe, layoutit.rar, ec2-wg.pdf, and layoutit.rar.

## 5. Amazon web services can be accessed now and from there select EC2.



## 6. Now we can create an instance. Click on Launch Instance.

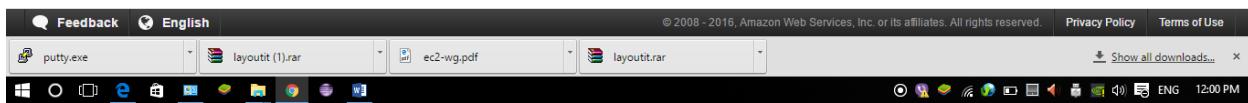


7. From the available Amazon machine images choose a Microsoft Windows server 2012R2 Base.

**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	AMIs	Select	64-bit
My AMIs	Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611	Select	64-bit
AWS Marketplace	Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type - ami-775e4f16	Select	64-bit
Community AMIs	SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type - ami-d2627db3	Select	64-bit
<input type="checkbox"/> Free tier only	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.		



**Step 1: Choose an Amazon Machine Image (AMI)**

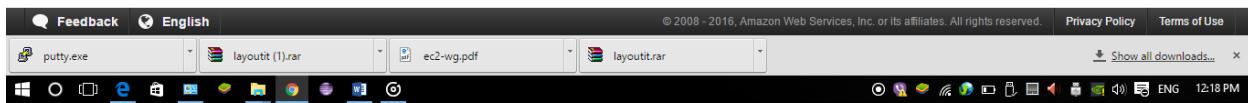
Root device type: ebs Virtualization type: hvm

	Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9abaea4fb	Select	64-bit
	Microsoft Windows Server 2012 R2 Base - ami-8d0acfed	Select	64-bit

**Are you launching a database instance? Try Amazon RDS.**

Amazon Relational Database Service (RDS) makes it easy to set up, operate, and scale a relational database of your choice (MySQL, PostgreSQL, Oracle, SQL Server) in the cloud. It provides cost-efficient and resizable capacity while managing time-consuming database management tasks, freeing you up to focus on your applications and business. [Learn more.](#)

[Launch a database using RDS](#)



## 8. Choose an Instance type.

**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.

	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 <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
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate

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

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

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

## 9. Configure the instance details. No need to do any additional modifications. Keep them as it is.

**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	<input type="text" value="1"/>	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot instances	
Network	vpc-a1c4bdc5 (172.31.0.0/16) (default) <input type="button" value="Create new VPC"/>	
Subnet	No preference (default subnet in any Availability Zone) <input type="button" value="Create new subnet"/>	
Auto-assign Public IP	Use subnet setting (Enable) <input type="button"/>	
Domain join directory	None <input type="button" value="Create new directory"/>	
IAM role	None <input type="button" value="Create new IAM role"/>	
Shutdown behavior	Stop <input type="button"/>	
Enable termination protection	<input type="checkbox"/> Protect against accidental termination	

**Buttons:** Cancel Previous Review and Launch Next: Add Storage

## 10. Add storage

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/sda1	snap-1baab85d	30	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.

## 11. Review Instance Launch

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.

**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

If you plan to use this AMI for an application that benefits from Microsoft License Mobility, fill out the [License Mobility Form](#). Don't show me this again

**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

**Launch**

Feedback English © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. Privacy Policy Terms of Use Show all downloads... 12:26 PM

## 12. 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](#).

**Type**

- Choose an existing key pair
- Choose an existing key pair
- Create a new key pair**
- Proceed without a key pair

**No key pairs found**

You don't have any key pairs. Please create a new key pair by selecting the [Create a new key pair](#) option above to continue.

**Cancel** **Launch Instances**

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**

hasith

**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**

## 13. Launch Instance

The screenshot shows the AWS Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The top navigation bar includes 'AWS Services' and 'Edit'. The user 'Hasith Wijewickrama' is logged in, with 'Oregon' selected. The main content area is titled 'Launch Status' and contains sections on how to connect to instances, helpful resources, and launching status. A 'View Instances' button is at the bottom right.

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](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

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](#)

## 14. Connect to your Instance. Connect to your windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below.

The screenshot shows the AWS Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances>. The top navigation bar includes 'AWS Services' and 'Edit'. The user 'Hasith Wijewickrama' is logged in, with 'Oregon' selected. The left sidebar shows 'Instances' selected. A modal dialog box titled 'Connect To Your Instance' is open, providing instructions to download an RDP shortcut file and detailing connection details like Public DNS and User name. The background shows the EC2 Instances list with one instance named 'i-0cae...'. The bottom navigation bar includes 'Feedback' and 'English'.

Connect To Your Instance

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

[Download Remote Desktop File](#)

When prompted, connect to your instance using the following details:

**Public DNS** ec2-54-218-59-95.us-west-2.compute.amazonaws.com  
**User name** Administrator  
**Password** [Get Password](#)

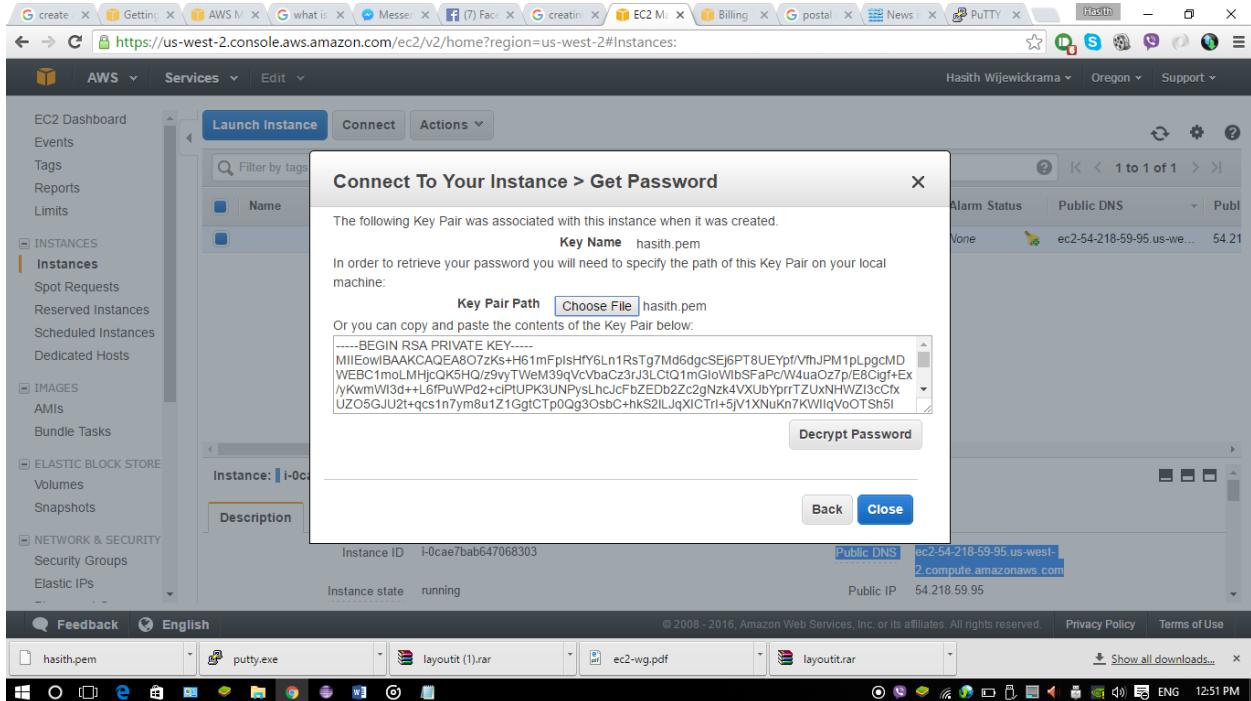
If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.

If you need any assistance connecting to your instance, please see our [connection documentation](#).

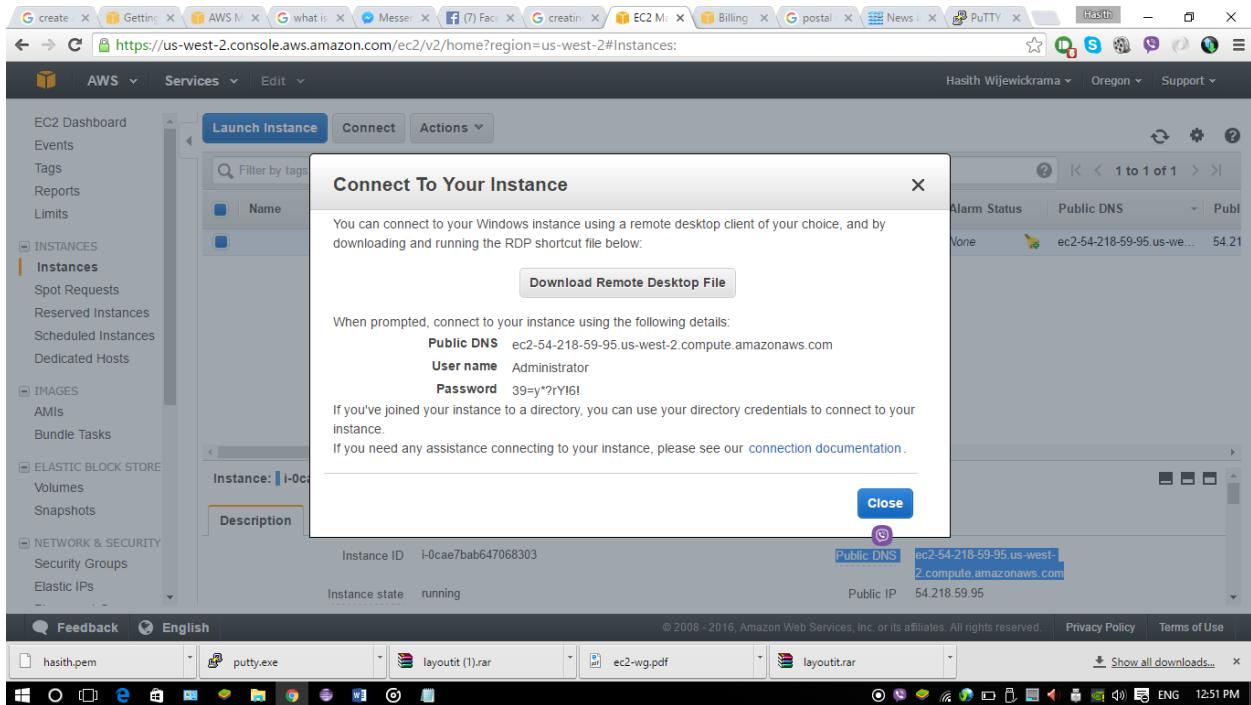
Close

Instance ID	Description	Public DNS	Public IP
i-0cae/bab647068303	Instance state: running	ec2-54-218-59-95.us-west-2.compute.amazonaws.com	54.218.59.95

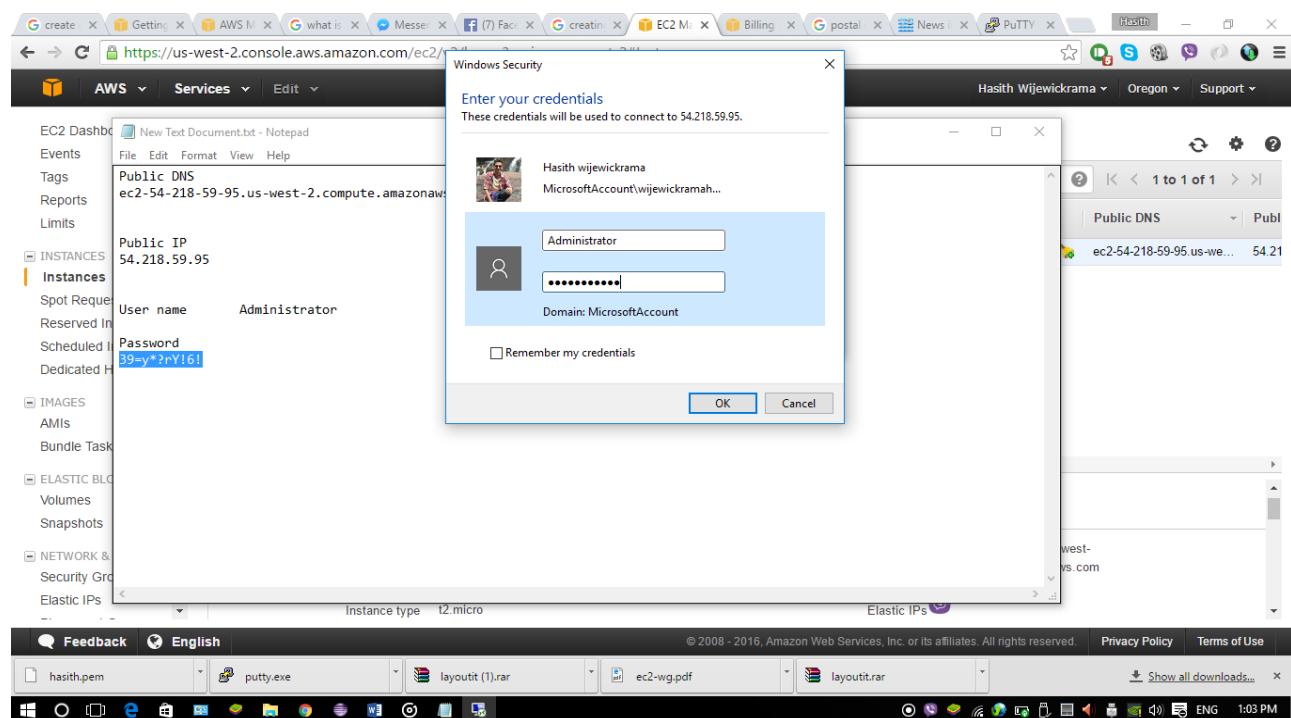
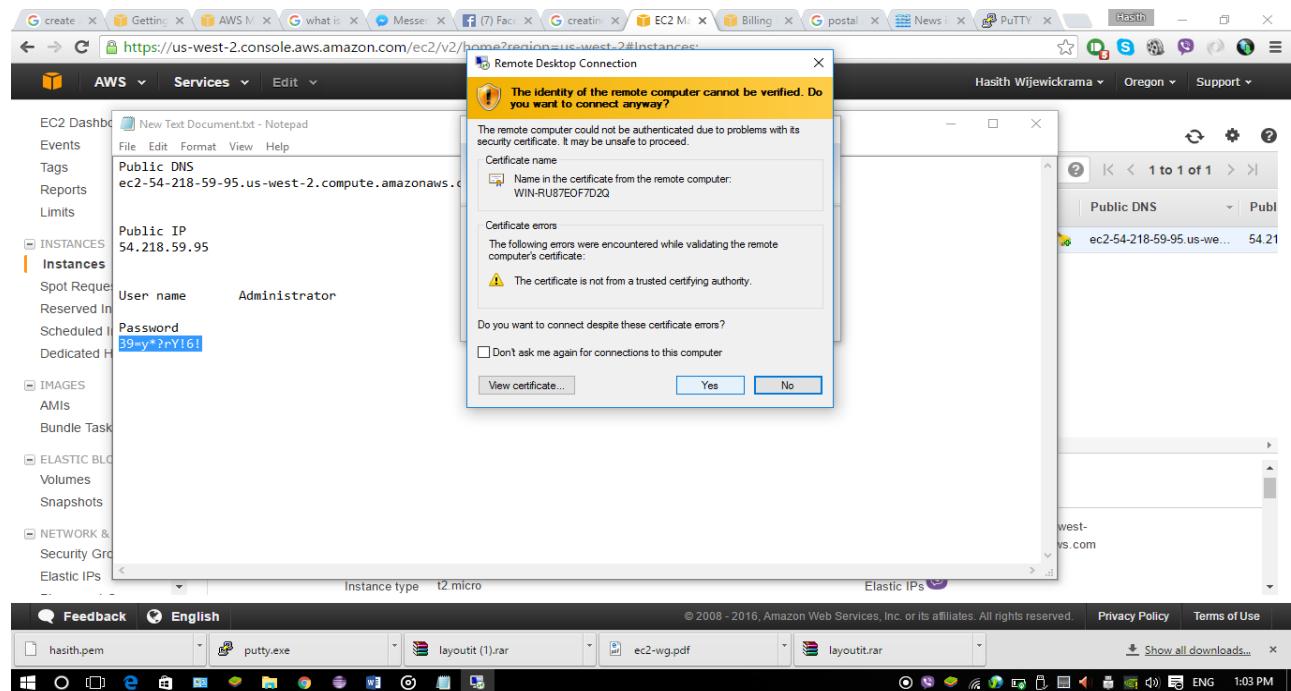
15. Connecting to the instance. The following key pair was associated with this instance when it was created.

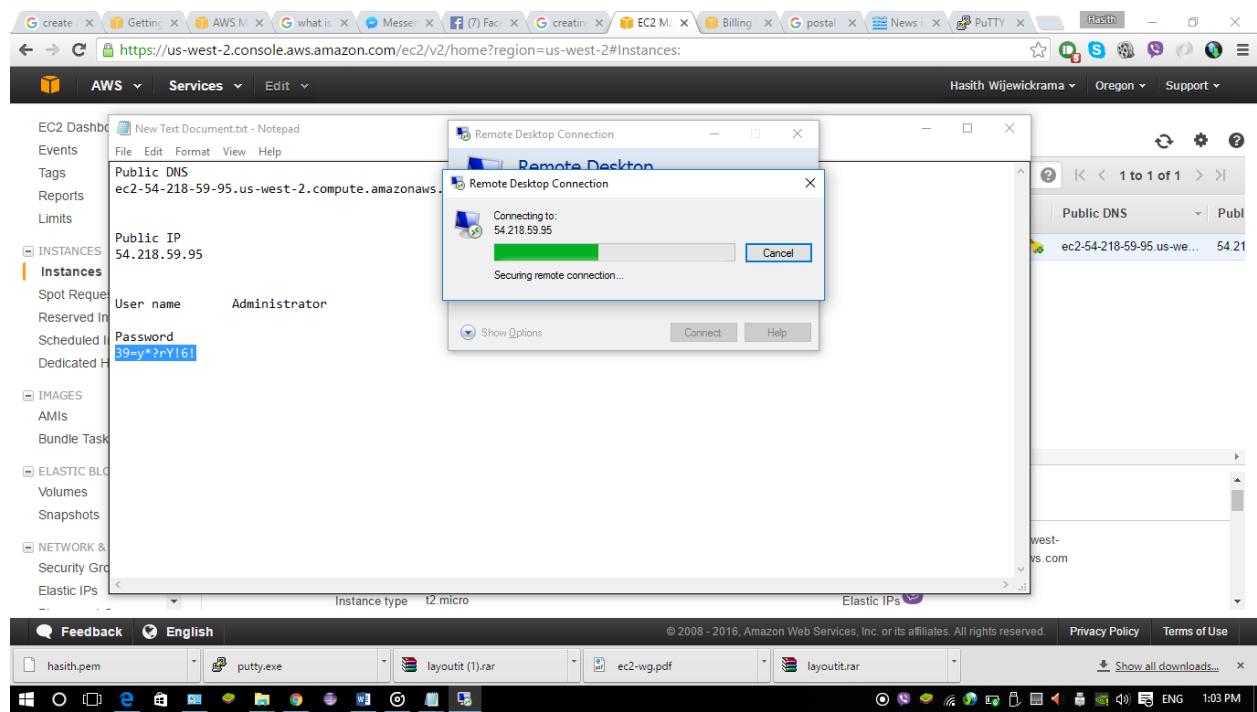
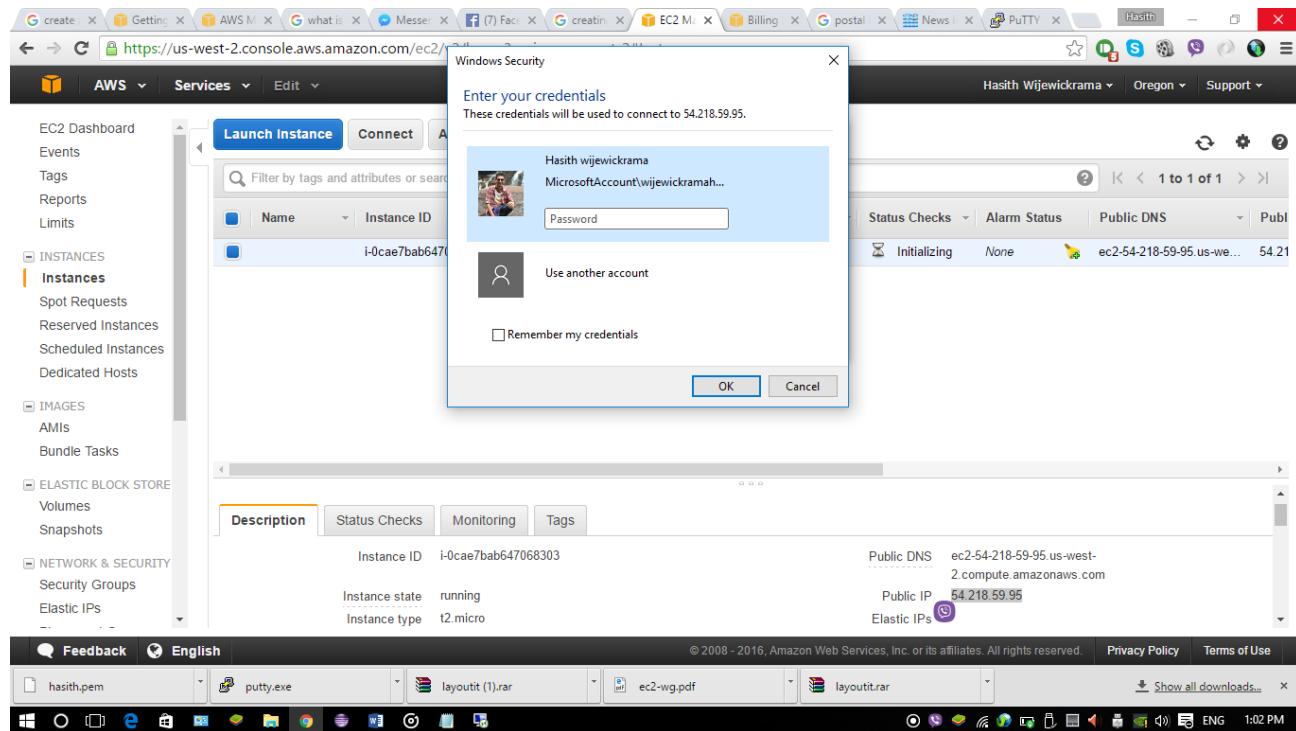


16. After decrypting the key value we can get the user name and the password.



## 17. Get the remote desktop connection. Provide the public IP address.



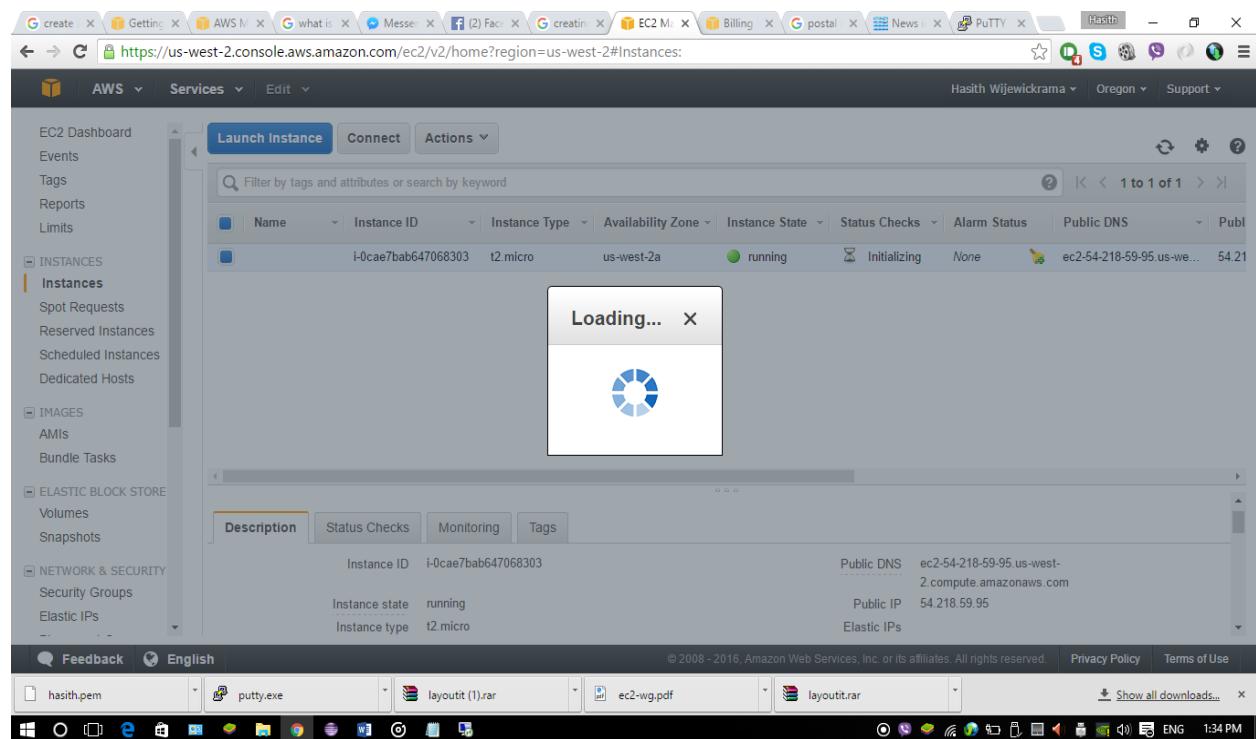
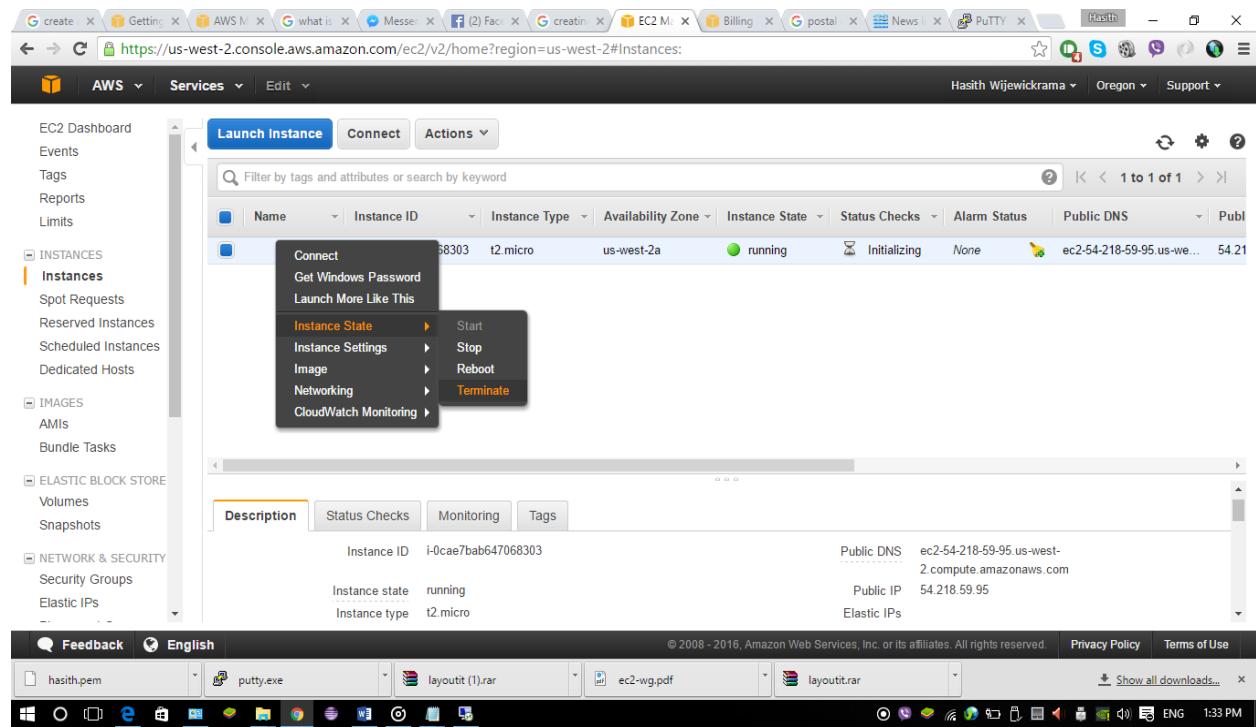


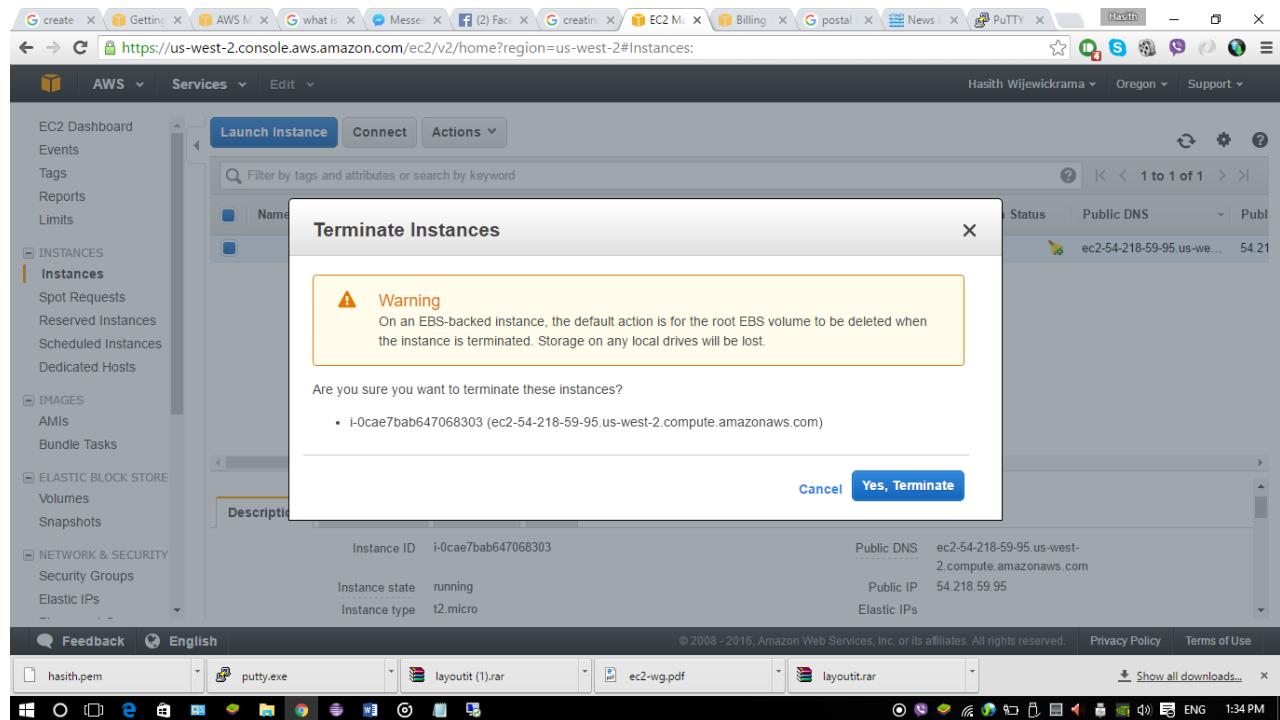
The screenshot shows the AWS EC2 Instances page. On the left sidebar, there are categories like EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts, Images, AMIs, Bundle Tasks, Elastic Block Store, Volumes, Snapshots, Network & Security, Security Groups, and Elastic IPs. The main content area displays a table with one row. The columns are Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS, and Public IP. The instance listed is 'i-0cae7bab647068303' of type 't2.micro' in 'us-west-2a'. It is currently 'running' with status checks 'Initializing' and alarm status 'None'. The public DNS is 'ec2-54-218-59-95.us-west-2.compute.amazonaws.com' and the public IP is '54.218.59.95'. Below the table, there are tabs for Description, Status Checks, Monitoring, and Tags. The status checks section shows the same information as the table. At the bottom, there are links for Feedback, English, Privacy Policy, and Terms of Use, along with download links for files like 'hasith.pem', 'putty.exe', etc. The taskbar at the bottom shows various icons and the date/time '1:04 PM'.

18. Finally you will be connected to the windows remote instance.



## 19. Terminate the windows remote instance.





# Creating Linux instance

20. Choose an Amazon Machine image (AMI) to create a linux instance.

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

Category	AMI Name	Description	Type	Select
My AMIs	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.	64-bit	Select
AWS Marketplace	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	64-bit	Select
Community AMIs	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.	64-bit	Select
Free tier only				



21. Choose an instance type for the linux.

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

## 22. Configure instance details.

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

Purchasing option: Request Spot instances

Network: vpc-a1c4bd5 (172.31.0.0/16) (default)

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

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

IAM role: None

Shutdown behavior: Stop

Enable termination protection: Protect against accidental termination

Monitoring: Enable CloudWatch detailed monitoring

## 23. Add storage. We can attach additional ESB volumes and instance store volumes to your instance, or edit the settings of the root volume.

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.

**Step 5: Tag Instance**

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. [Learn more](#) about tagging your Amazon EC2 resources.

Key	(127 characters maximum)	Value	(255 characters maximum)
Name			X

**Create Tag** (Up to 10 tags maximum)

Cancel Previous Review and Launch Next: Configure Security Group

24. Configure the security group. It is a set of firewall rules that control the traffic for your instance. We can add rules to allow specific traffic to reach your instance. Then review instance launch

**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.

**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

**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

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

25. Select an existing key pair or create a new key pair. Then it will help to download the .pem file.

The screenshot shows the AWS Management Console with the EC2 Instances page open. The left sidebar shows navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Images, AMIs, Bundle Tasks, Elastic Block Store, Volumes, Snapshots, Network & Security, Security Groups, and Elastic IPs. The main content area displays a table of instances. The table has columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS, and Price. Two instances are listed:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Price
	i-0c3f11f9499b67698	t2.micro	us-west-2b	running	Initializing	None	ec2-54-149-42-109.us-w...	54.14
	i-0cae7bab647068303	t2.micro	us-west-2a	terminated		None		

Below the table, a message says "Select an instance above". The browser's address bar shows the URL: <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances>. The status bar at the bottom right shows "Show all downloads..." and the time "1:48 PM".

## 26. Download putty.exe and puttyGen.rxe.

The screenshot shows the Putty download page at [www.chiark.greenend.org.uk/~sgtatham/putty/download.html](http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html). The page provides download links for different Putty components:

- A ZIP file containing all the binaries (except PuTTYtel), and also the help files: [putty.zip](#) (or by [FTP](#)) ([signature](#))
- A Windows MSI installer package for everything except PuTTYtel: [putty-0.67-installer.msi](#) (or by [FTP](#)) ([signature](#))
- Legacy Inno Setup installer: **Reportedly insecure!** Use with caution, if the MSI fails: [putty-0.67-installer.exe](#) (or by [FTP](#)) ([signature](#))
- Checksums for all the above files:
 

MD5:	<a href="#">putty.exe</a>	(or by <a href="#">FTP</a> )	( <a href="#">signature</a> )
SHA-1:	<a href="#">shasum.exe</a>	(or by <a href="#">FTP</a> )	( <a href="#">signature</a> )
SHA-256:	<a href="#">sha256sums.exe</a>	(or by <a href="#">FTP</a> )	( <a href="#">signature</a> )
SHA-512:	<a href="#">sha512sums.exe</a>	(or by <a href="#">FTP</a> )	( <a href="#">signature</a> )

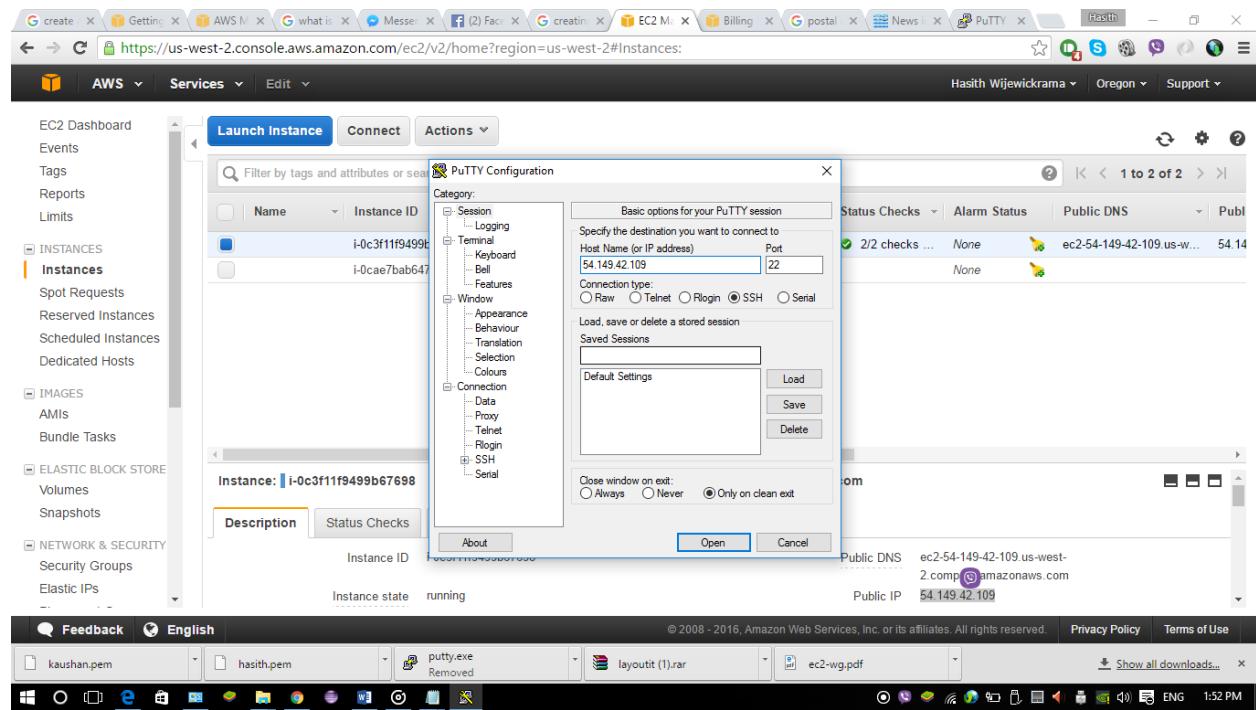
The page also includes a section for the latest development snapshot, noting it will be built every day from the current development code. It lists files for Windows on Intel x86:

PuTTY:	<a href="#">putty.exe</a>	( <a href="#">signature</a> )
PuTTYtel:	<a href="#">puttytel.exe</a>	( <a href="#">signature</a> )
PSCP:	<a href="#">pscp.exe</a>	( <a href="#">signature</a> )
PSFTP:	<a href="#">psftp.exe</a>	( <a href="#">signature</a> )
Plink:	<a href="#">plink.exe</a>	( <a href="#">signature</a> )
Pageant:	<a href="#">pageant.exe</a>	( <a href="#">signature</a> )
PuTTYgen:	<a href="#">puttygen.exe</a>	( <a href="#">signature</a> )

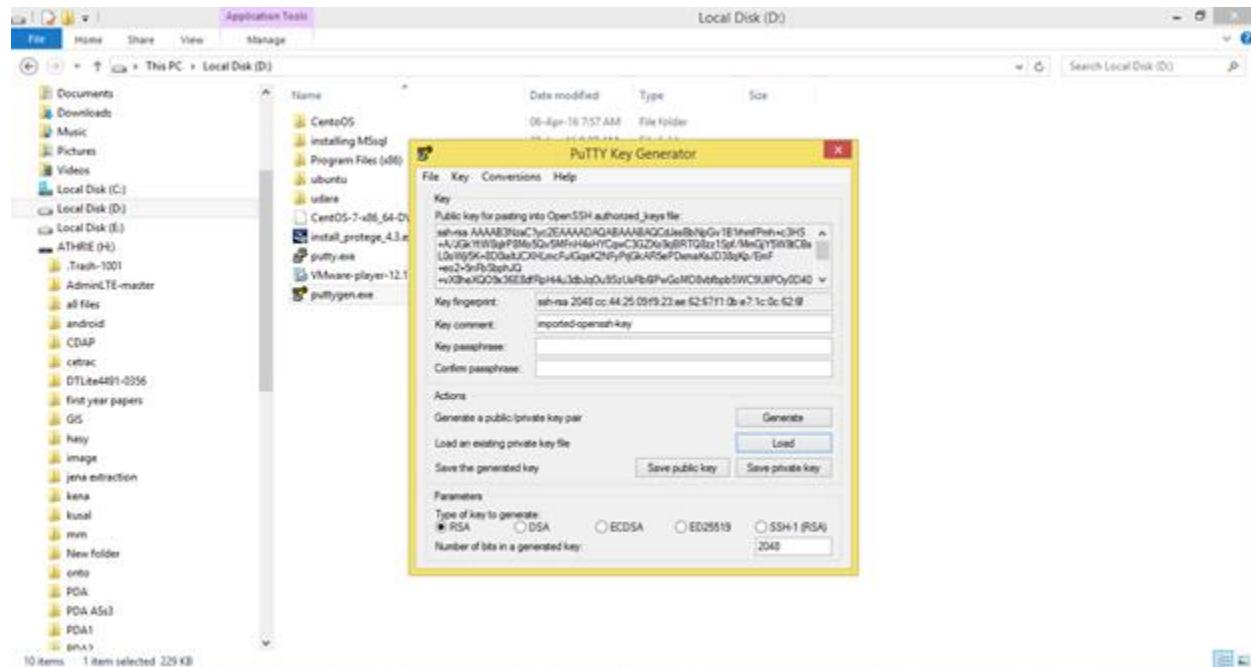
A ZIP file containing all the binaries (except PuTTYtel), and also the help files: [putty-0.67-snapshot.zip](#) (or by [FTP](#)) ([signature](#))

The browser's address bar shows the URL: [www.chiark.greenend.org.uk/~sgtatham/putty/download.html](http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html). The status bar at the bottom right shows "Show all downloads..." and the time "1:48 PM".

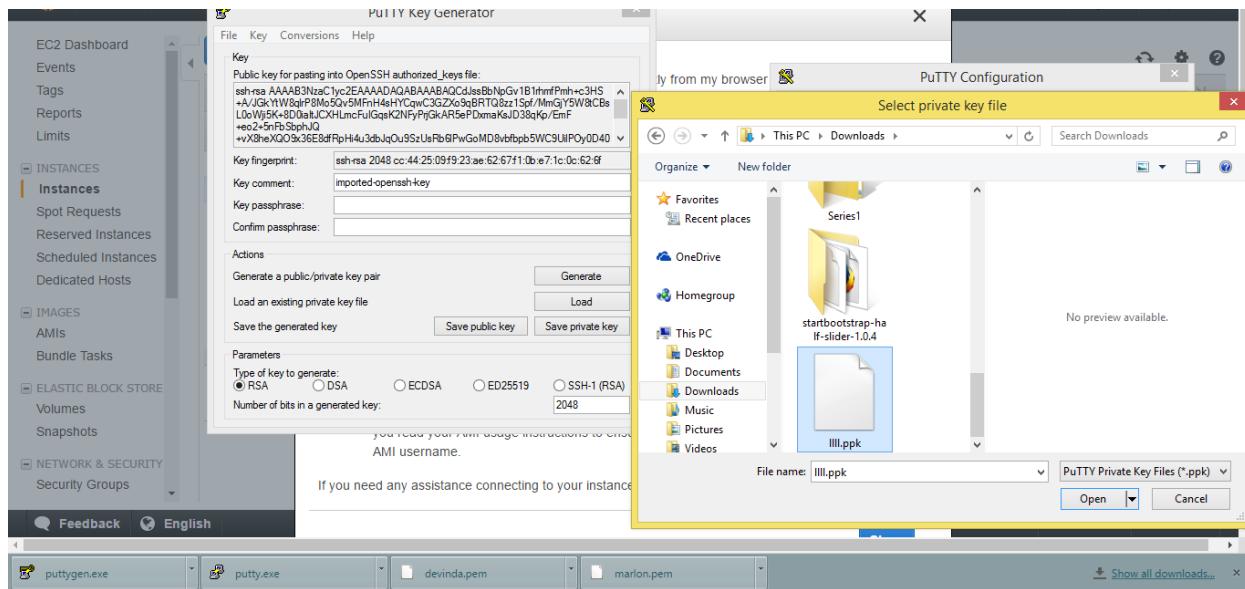
## 27. Run the putty key



## 28. Add the key value



## 29. Create a file which is called .ppk files.



## 30. Connecting to the linux instance

