

B.Sc. Special (Honors) Degree in Information Technology



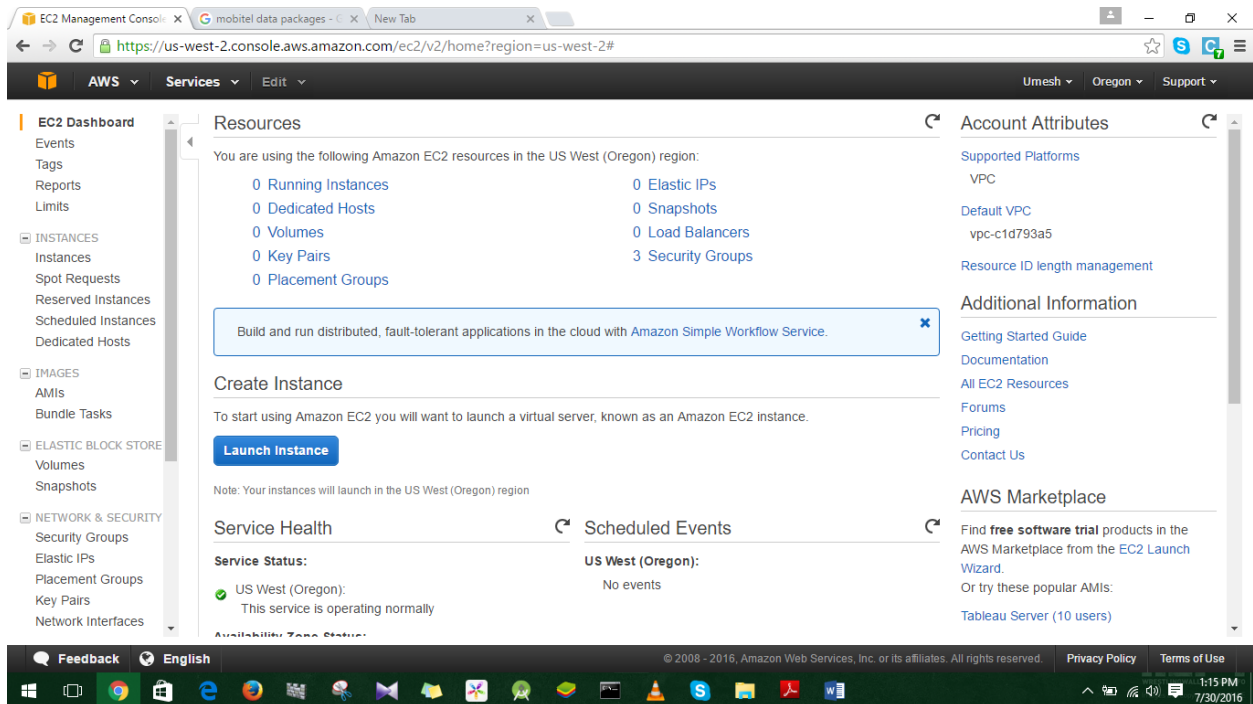
Configuring Windows and Linux Servers on AWS ESBPI LAB ASSIGNMENT 1

**P.U.Tharaka
IT13039646**

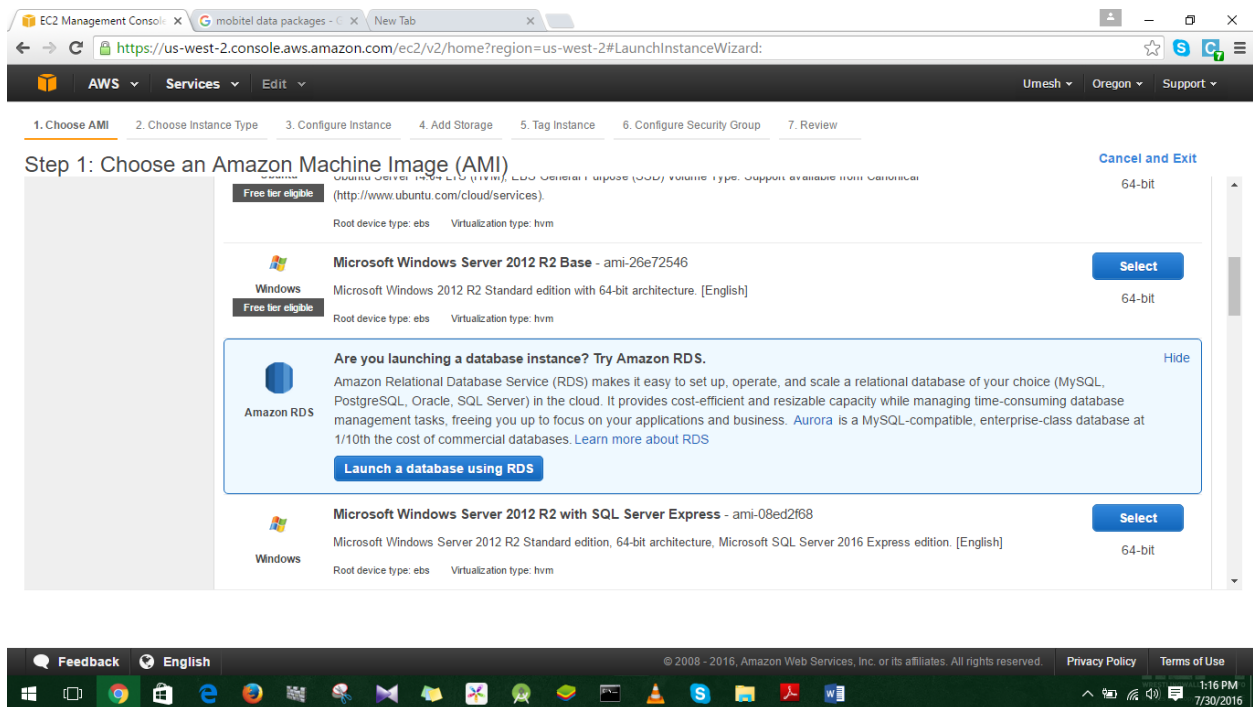
Week Day

Windows

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



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



3. Click 'Review and Launch'

EC2 Management Console | G | mobitel data packages - | New Tab |
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit | Umesh | 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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4. Click 'Launch'

EC2 Management Console | G | mobitel data packages - | New Tab |
https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard:

AWS Services Edit | Umesh | 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

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](#)

Security group name: launch-wizard-1
Description: launch-wizard-1 created 2016-07-30T13:18:38.521+05:30

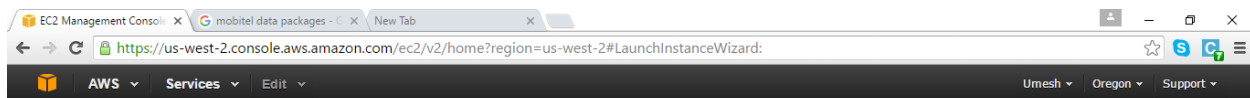
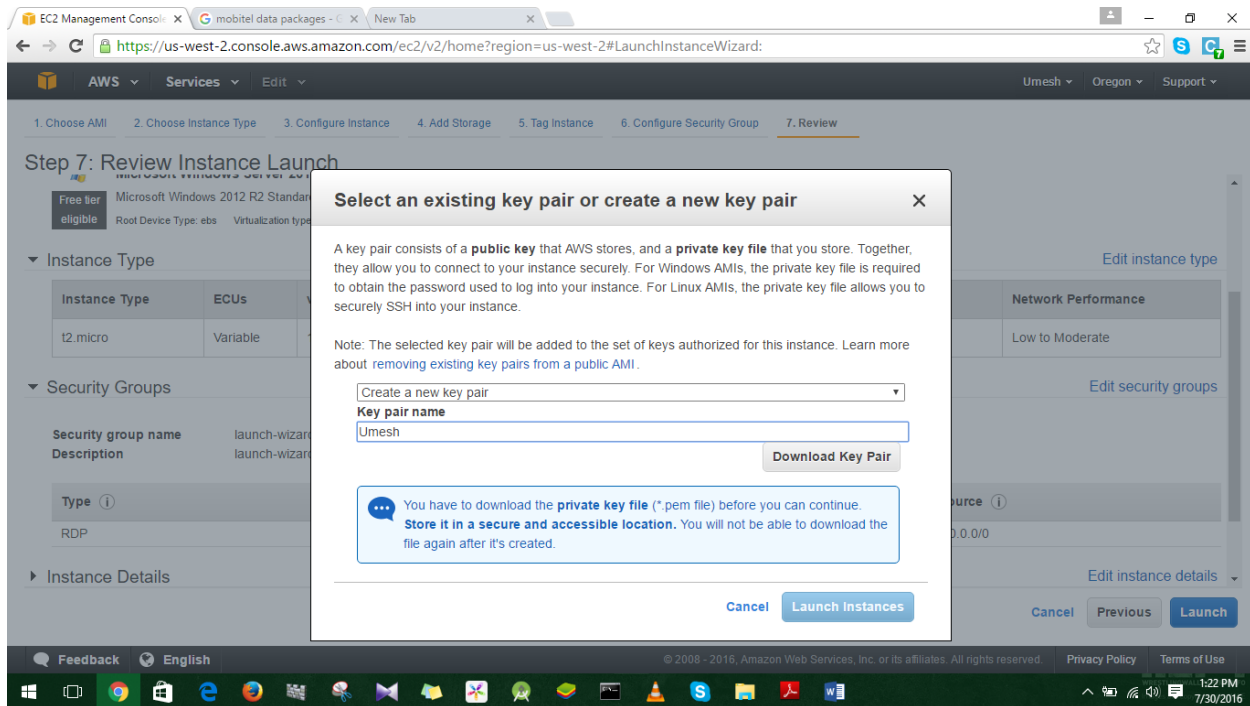
Type	Protocol	Port Range	Source
RDP	TCP	3389	0.0.0.0/0

Instance Details [Edit instance details](#)

Cancel Previous **Launch**

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



Launch Status

✓ Your instances are now launching

The following instance launches have been initiated: i-0f9c11021ff075495 [View launch log](#)

ℹ Get notified of estimated charges

Create [billing alerts](#) to get an email notification when estimated charges on your AWS bill exceed an amount you define (for example, if you exceed the free usage tier).

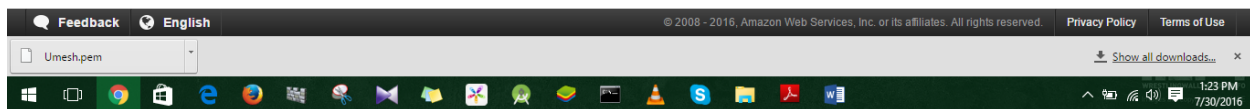
How to connect to your instances

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.

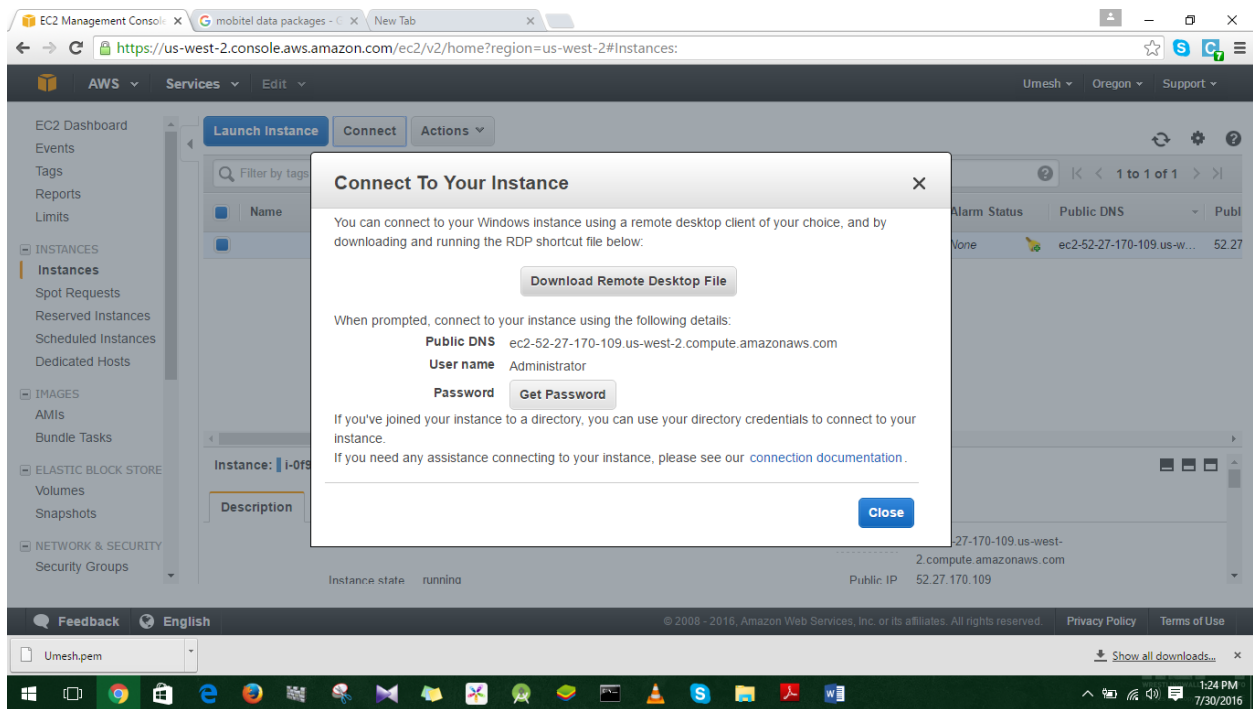
Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

▼ Here are some helpful resources to get you started

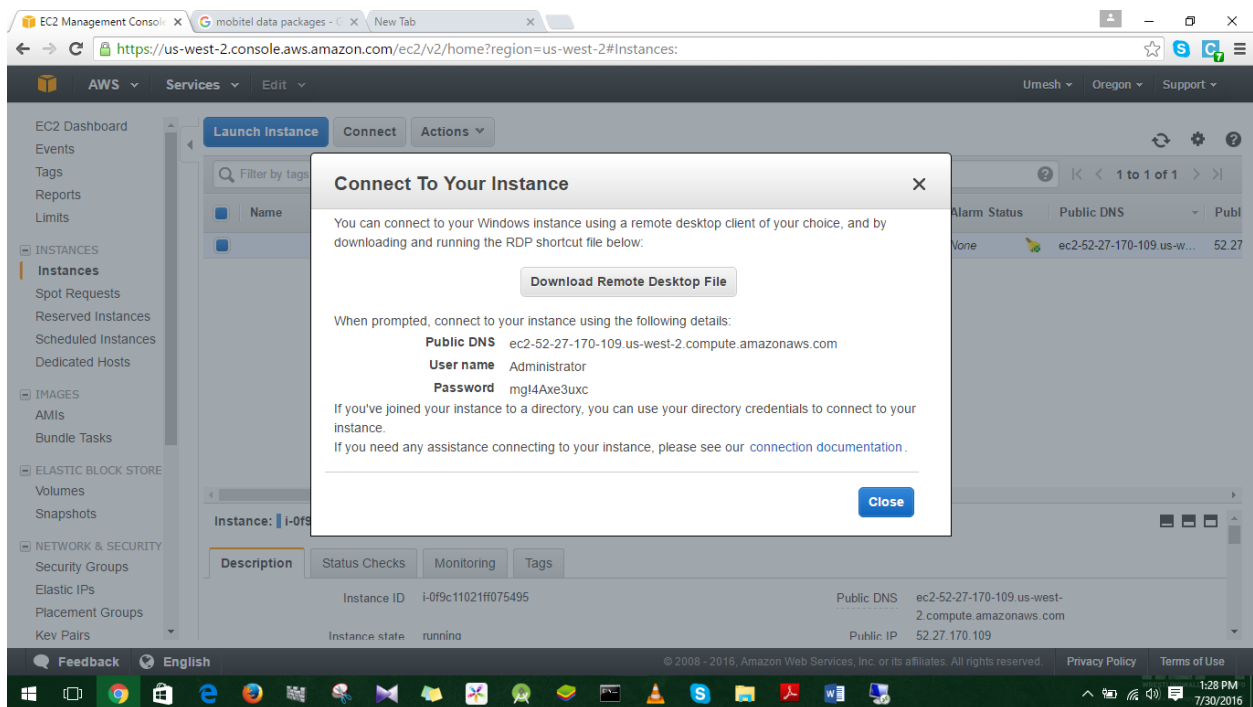
- [How to connect to your Windows instance](#)
[Learn about AWS Free Usage Tier](#)
- [Amazon EC2: User Guide](#)
- [Amazon EC2: Microsoft Windows Guide](#)
[Amazon EC2: Discussion Forum](#)



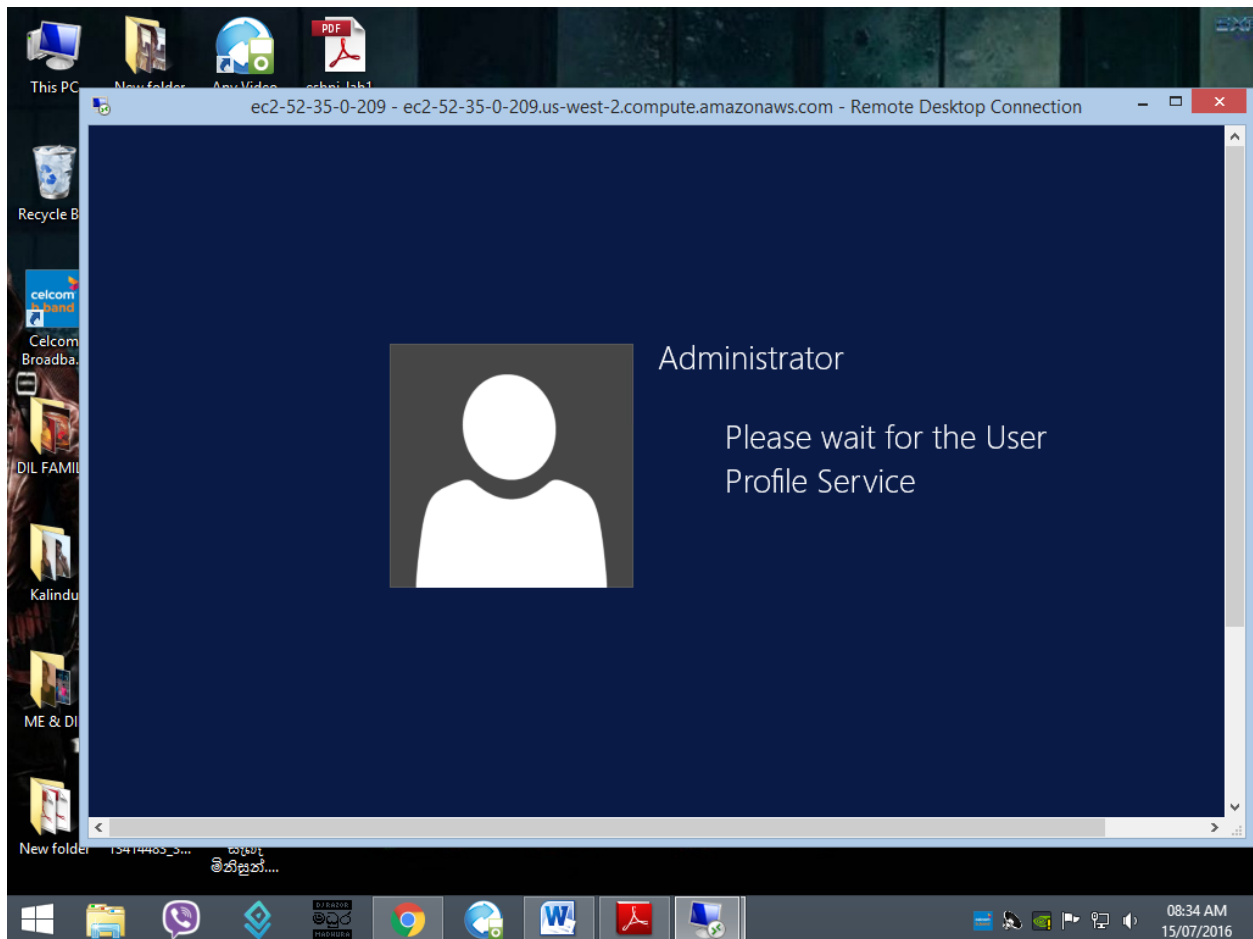
6. Click 'Connect'



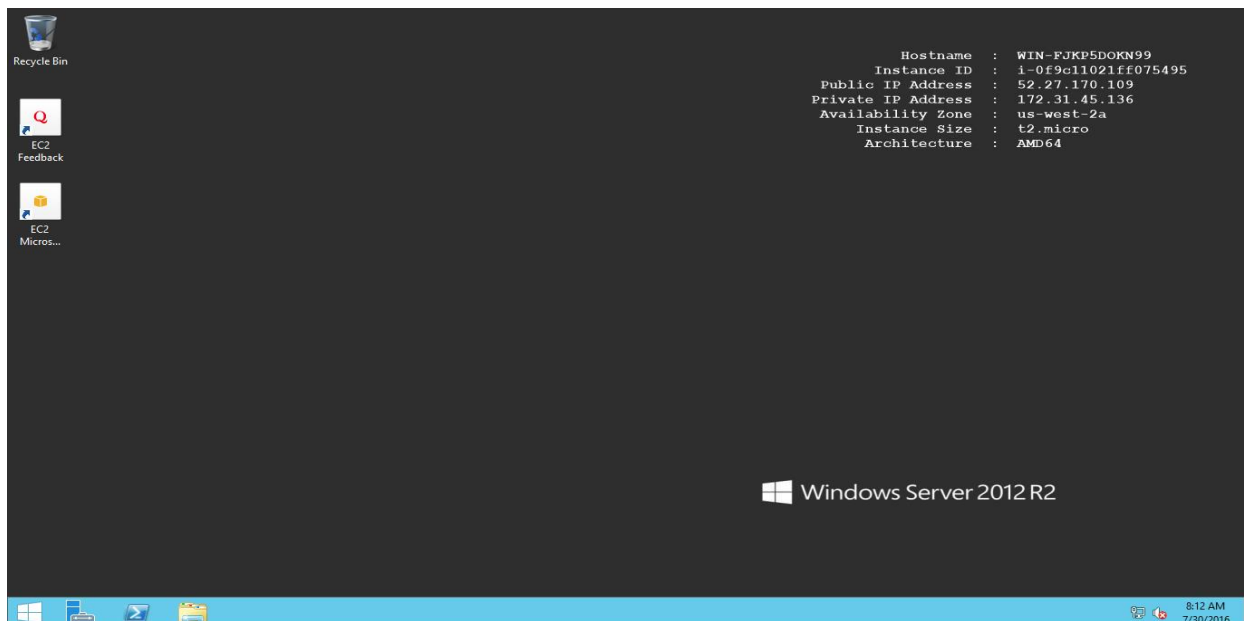
7. Click 'Get Password' & 'Decrypt Password'.



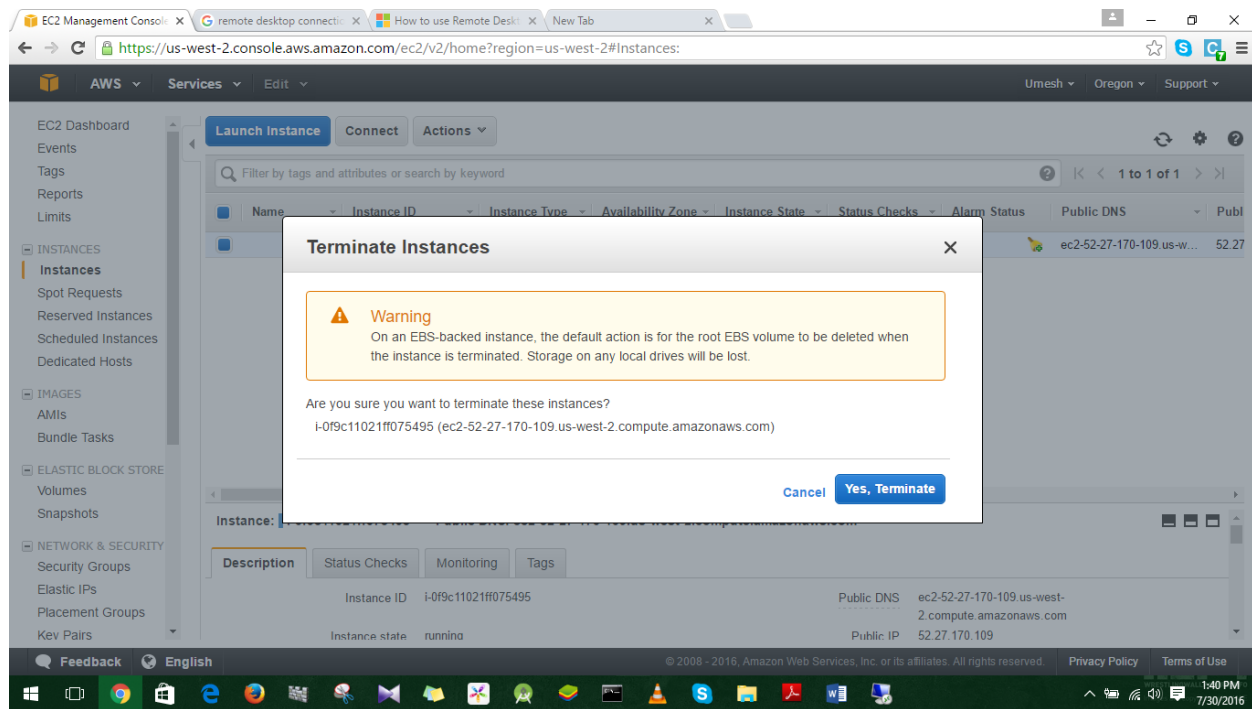
8. Now go to Remote Desktop Connection and provide the public IP and then click 'connect'.



9. Now you can see the 'Windows Server'.

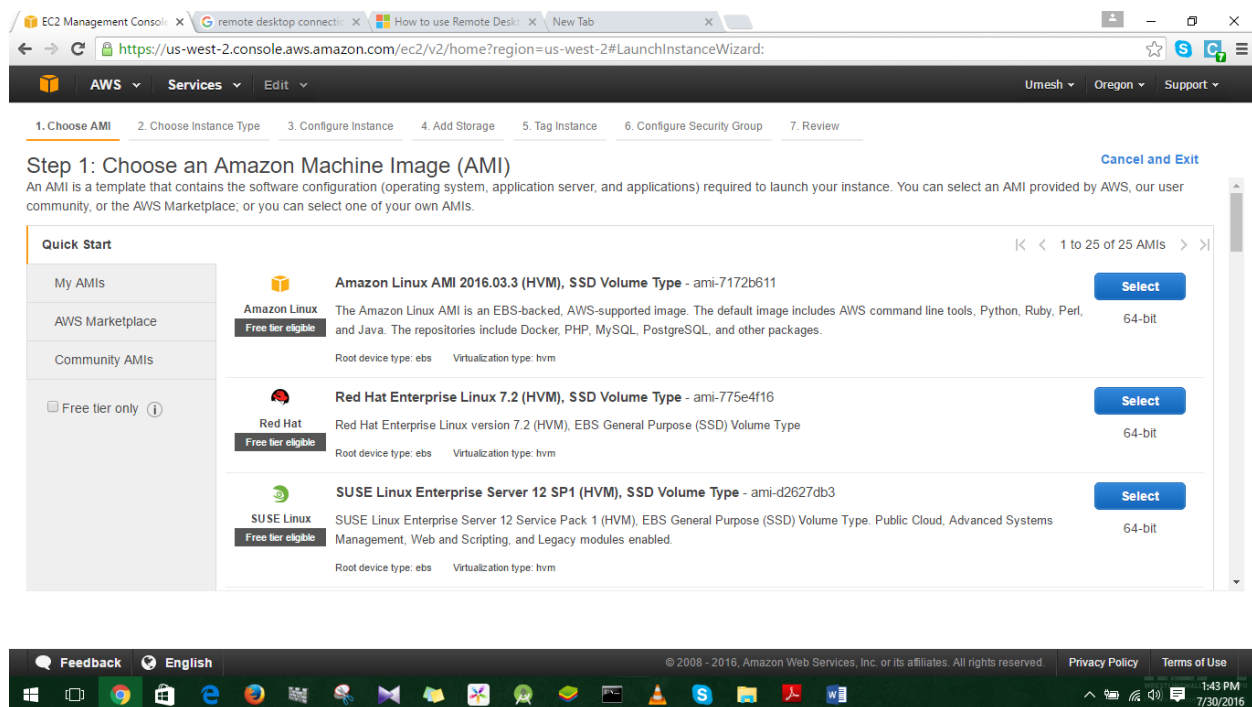


10. When you are terminating the instance right click -> terminate-> Yes, Terminate.



LINUX

1. Select Amazon Linux Now



2. Now click 'Review and Launch'.

EC2 Management Console | remote desktop connect | How to use Remote Desk | New Tab

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

AWS Services Edit Umesh 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

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
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	High

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

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3. Click 'Launch'

EC2 Management Console | remote desktop connect | How to use Remote Desk | New Tab

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

AWS Services Edit Umesh 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

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 [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](#)

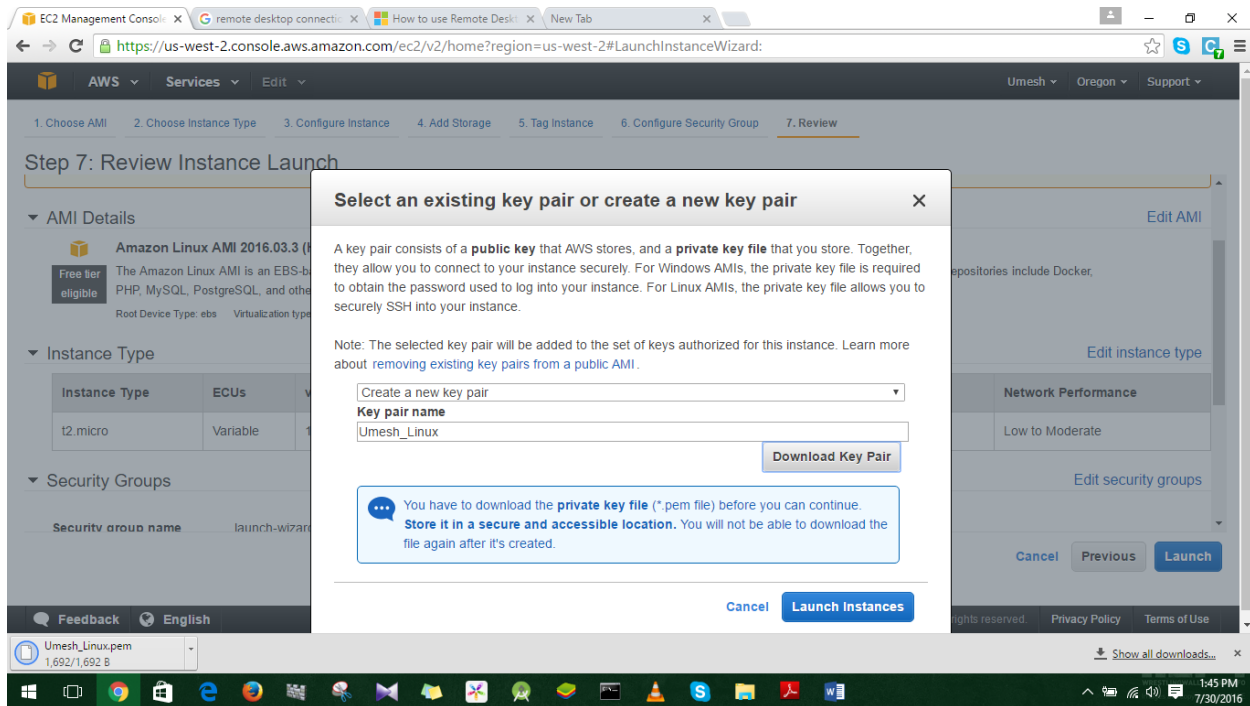
Security group name: launch-wizard-2
Description: launch-wizard-2 created 2016-07-30T13:44:08.609+05:30

Type	Protocol	Port Range	Source
SSH	TCP	22	0.0.0.0/0

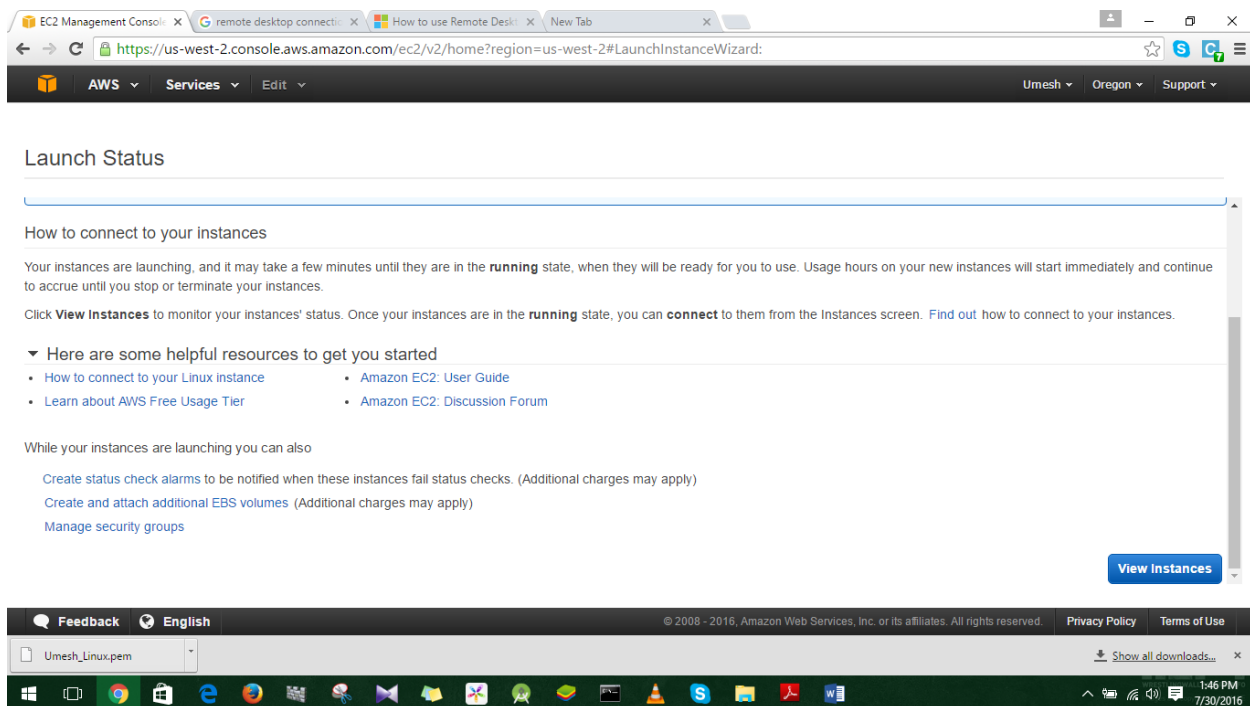
Cancel Previous **Launch**

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



5. Now click 'View Instances'.



6.Instance is running.

The screenshot shows the AWS Management Console for the 'us-west-2' region. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES, IMAGES, ELASTIC BLOCK STORE, and NETWORK & SECURITY. The main content area displays a table of EC2 instances. Two instances are listed, both in a 'running' state. Below the table, there is a prompt to 'Select an instance above'. The bottom of the screenshot shows a Windows taskbar with various application icons and a system clock indicating 1:47 PM on 7/30/2016.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Public IP
	i-0345a0739b454938e	t2.micro	us-west-2b	running	Initializing	None	ec2-52-42-53-195.us-we...	52.42
	i-0f9c11021f075495	t2.micro	us-west-2a	running	2/2 checks ...	None	ec2-52-27-170-109.us-w...	52.27

7.Download putty.exe and puttygen.exe.

The screenshot shows the PuTTY Download Page from the website www.chiark.greenend.org.uk/~sgtatham/putty/download.html. The page includes a navigation menu with links to Home, Licence, FAQ, Docs, Download, Keys, Links, Mirrors, Updates, Feedback, Changes, Wishlist, and Team. A list of PuTTY files is provided, including PuTTY (the SSH and Telnet client itself), PSCP (an SCP client), PSFTP (an SFTP client), PuTTYtel (a Telnet-only client), Plink (a command-line interface to the PuTTY back ends), Pageant (an SSH authentication agent), and PuTTYgen (an RSA and DSA key generation utility). A legal warning is present, stating that the use of PuTTY, PSCP, PSFTP, and Plink is illegal in countries where encryption is outlawed. The page also mentions that the Telnet-only binary (PuTTYtel) is unrestricted by any cryptography laws. A section titled 'Binaries' highlights the latest release version (beta 0.67) and provides links to download the binaries for Windows on Intel x86. The bottom of the screenshot shows a Windows taskbar with various application icons and a system clock indicating 1:52 PM on 7/30/2016.

PuTTY Download Page

[Home](#) | [Licence](#) | [FAQ](#) | [Docs](#) | [Download](#) | [Keys](#) | [Links](#)
[Mirrors](#) | [Updates](#) | [Feedback](#) | [Changes](#) | [Wishlist](#) | [Team](#)

Here are the PuTTY files themselves:

- PuTTY (the SSH and Telnet client itself)
- PSCP (an SCP client, i.e. command-line secure file copy)
- PSFTP (an SFTP client, i.e. general file transfer sessions much like FTP)
- PuTTYtel (a Telnet-only client)
- Plink (a command-line interface to the PuTTY back ends)
- Pageant (an SSH authentication agent for PuTTY, PSCP, PSFTP, and Plink)
- PuTTYgen (an RSA and DSA key generation utility).

LEGAL WARNING: Use of PuTTY, PSCP, PSFTP and Plink is illegal in countries where encryption is outlawed. We believe it is legal to use PuTTY, PSCP, PSFTP and Plink in England and Wales and in many other countries, but we are not lawyers, and so if in doubt you should seek legal advice before downloading it. You may find useful information at [cryptolaw.org](#), which collects information on cryptography laws in many countries, but we can't vouch for its correctness.

Use of the Telnet-only binary (PuTTYtel) is unrestricted by any cryptography laws.

There are cryptographic signatures available for all the files we offer below. We also supply cryptographically signed lists of checksums. To download our public keys and find out more about our signature policy, visit the [Keys page](#). If you need a Windows program to compute MD5 checksums, you could try this one at [pc-tools.net](#). (This MD5 program is also cryptographically signed by its author.)

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)

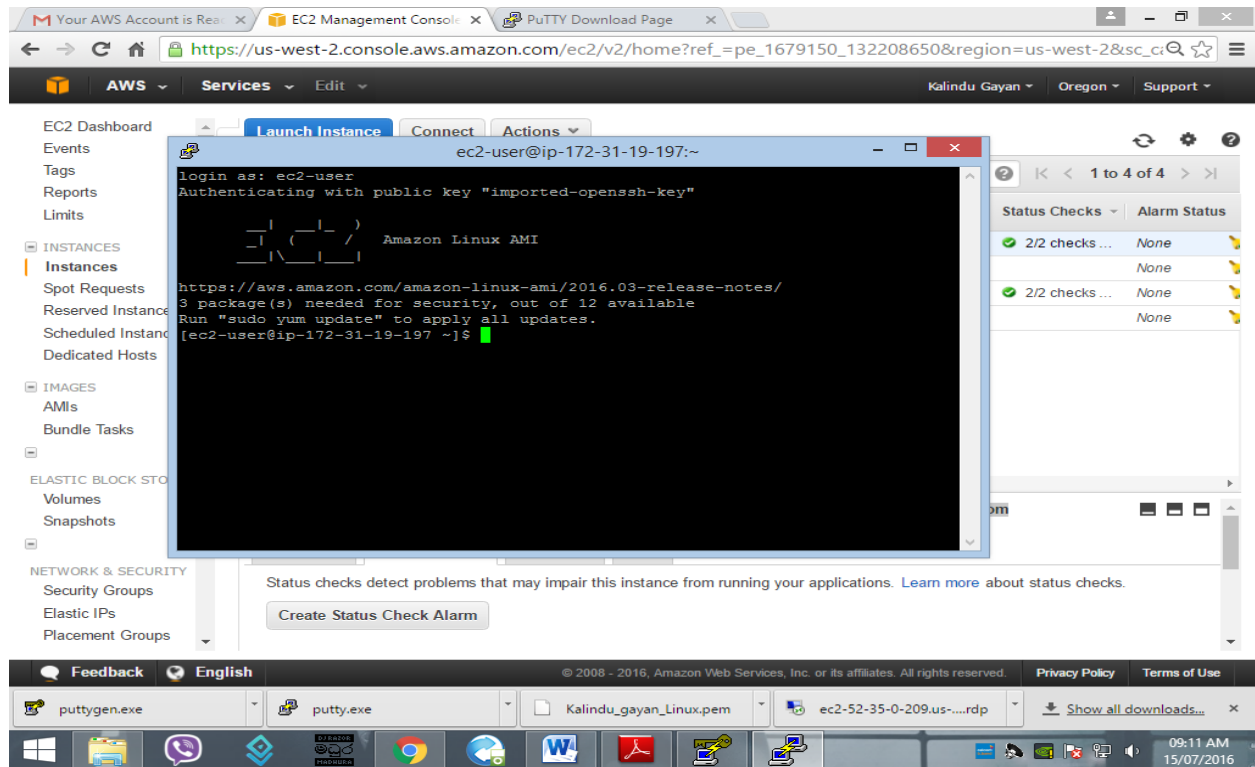
8. Run puttygen.exe and click 'Load' and browse Gims.pen.

The screenshot shows a web browser window with the address bar displaying www.chiark.greenend.org.uk/~sgtatham/putty/download.html. The page content includes a section titled "Binaries" with links to various PuTTY executables and a "The latest release version (beta 0.67)" section. A "PuTTY Key Generator" dialog box is open, showing the "Key" tab. The "Public key for pasting into OpenSSH authorized_keys file:" field contains a long base64-encoded string. The "Key fingerprint:" field shows "ssh-rsa 2048 38 bdf a:1a:3c:2d 0f 5d b7 8f 02 23 b1 ef d3 4c". The "Key comment:" field is set to "imported-openssh-key". The "Type of key to generate:" is set to "SSH-2 RSA". The "Number of bits in a generated key:" is set to "2048". The "Load" button is highlighted.

9. Now run putty.exe. Copy public DNS . go to SSH -> Auth -> Browse & Go to SSH -> Auth -> Browse -> Open .

The screenshot shows the same web browser window as before, but now the "PuTTY Configuration" dialog box is open. The "Category:" list on the left has "SSH" selected. The "Options controlling SSH authentication" section on the right has "Bypass authentication entirely (SSH-2 only)" checked. The "Authentication methods" section has "Attempt authentication using Pageant" checked. The "Authentication parameters" section has "Allow agent forwarding" checked. The "Private key file for authentication:" field is set to "C:\Users\Auser\PC\Documents\Default.n". The "Open" button is highlighted.

10. Click 'Yes'.



THE END.