

Sri Lanka Institute of Information Technology



4nd Year 2st Semester 2016

Enterprise Standards and Best Practices for IT Infrastructure

**Amazon EC2 Windows Instances
Assignment Report 01**

Reg No: IT 13 0031 42

Name: Gamage K.G.J.H.

To launch the Instance .First you need to open Amazon EC2 console at <https://console.aws.amazon.com/ec2/>. And do the following

The screenshot shows the AWS EC2 Dashboard. On the left sidebar, there are several navigation links: EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES (with sub-links for Instances, Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts), IMAGES (with sub-links for AMIs and Bundle Tasks), and ELASTIC BLOCK STORE (with sub-links for Volumes and Snapshots). The main content area displays resource counts: 0 Running Instances, 0 Dedicated Hosts, 0 Volumes, 0 Key Pairs, 0 Placement Groups, 0 Elastic IPs, 0 Snapshots, 0 Load Balancers, and 1 Security Groups. A callout box highlights the "Launch Instance" button. Below it, a note says "Build and run distributed, fault-tolerant applications in the cloud with Amazon Simple Workflow Service." To the right, the "Account Attributes" section shows supported platforms (VPC), default VPC (vpc-0b7e056f), and resource ID length management. The "Additional Information" section includes links to Getting Started Guide, Documentation, All EC2 Resources, Forums, Pricing, and Contact Us. The "AWS Marketplace" section promotes free software trial products.

The screenshot shows the "Choose an Amazon Machine Image (AMI)" step of the instance creation wizard. The top navigation bar includes links for Choose AMI, Choose Instance Type, Configure Instance, Add Storage, Tag Instance, Configure Security Group, and Review. The main content area is titled "Step 1: Choose an Amazon Machine Image (AMI)". It lists two AMI options: "Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9abea4fb" (Ubuntu, Free tier eligible) and "Microsoft Windows Server 2012 R2 Base - ami-8d0acfed" (Windows, Free tier eligible). Both entries show "Root device type: ebs" and "Virtualization type: hvm". To the right of each entry is a "Select" button and a "64-bit" link. A callout box at the bottom left encourages launching a database using Amazon RDS, mentioning its benefits for managing relational databases in the cloud. The "Cancel and Exit" button is located in the top right corner.

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 <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

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Instance Details](#)

[Feedback](#) [English](#)

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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-1, 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](#)



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

[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](#)

[Feedback](#) [English](#)

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AWS Services Edit Janith 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 always change them later.

⚠ Improve your instances' security

Your instances may be accessible from the Internet. You can also open additional ports in your security groups.

AMI Details

	Microsoft Windows Server 2012 R2 Standard
Free tier eligible	Microsoft Windows 2012 R2 Standard
	Root Device Type: ebs Virtualization type: HVM

Instance Type

Instance Type	ECUs
t2.micro	Variable

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](#).

Create a new key pair Key pair name: JanithKey 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

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Launch Status

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

Launch Status

 Your instances are now launching

The following instance launches have been initiated: i-0349842de55b75d61 [View launch log](#)

 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).

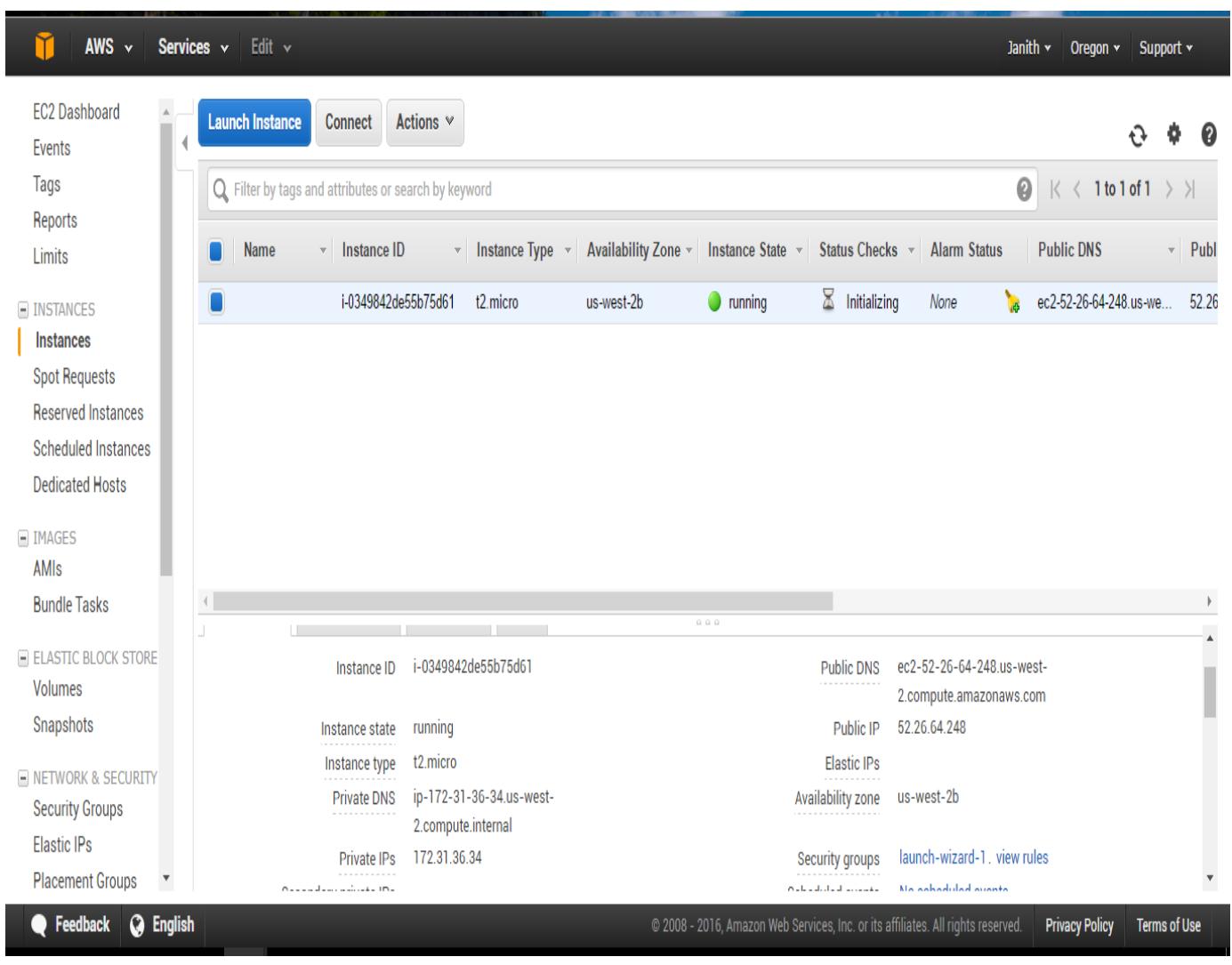
How to connect to your instances

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

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



The screenshot shows the AWS EC2 Dashboard. On the left, there's a sidebar with links like EC2 Dashboard, Events, Tags, Reports, Limits, Instances (which is selected), Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts, Images (AMIs), and Elastic Block Store (Volumes, Snapshots). The main content area has tabs for Launch Instance, Connect, and Actions. A search bar at the top says "Filter by tags and attributes or search by keyword". Below it is a table showing one instance: i-0349842de55b75d61, t2.micro, us-west-2b, running, Initializing, None, ec2-52-26-64-248.us-west-2.compute.amazonaws.com, 52.26.64.248. To the right of the table are detailed instance metrics: Instance ID (i-0349842de55b75d61), Public DNS (ec2-52-26-64-248.us-west-2.compute.amazonaws.com), Public IP (52.26.64.248), Instance state (running), Instance type (t2.micro), Private DNS (ip-172-31-36-34.us-west-2.compute.internal), Availability zone (us-west-2b), Private IPs (172.31.36.34), Security groups (launch-wizard-1, view rules), and two sections for scheduled events: "No scheduled events" and "No scheduled events". At the bottom, there are links for Feedback, English, and footer text: © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. | Privacy Policy | Terms of Use.

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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

Launch Instance Connect Actions

Filter by tags Name

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 ec2-52-26-64-248.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](#)

Subnet ID subnet-13961565 Network interfaces eth0 Platform windows IAM role -

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AWS Services Edit Janith Oregon Support

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

Launch Instance Connect Actions

Filter by tags Name

Connect To Your Instance > Get Password

The following Key Pair was associated with this instance when it was created.

Key Name JanithKey.pem

In order to retrieve your password you will need to specify the path of this Key Pair on your local machine:

Key Pair Path No file chosen

Or you can copy and paste the contents of the Key Pair below:

```
-----BEGIN RSA PRIVATE KEY-----  
MIIEowIBAAKCAQEArqNbKT5K3AfMfwD+mWwCMJsXxs7lgkDmumdzSjG3LFqmrN4va5tVhpptybg7  
Esh7qZxGpWMsKf4P3wTLazhyHEsMoCHMQY8cb1Ta/cGeLtpfLk51ybjtclZkVc/jAd5IWHzOZf  
VLOK8g1FA1ethn3B8KisT16K3BG33rJiExj80aW9ANlsM+FMFGczmPiYPUcgFcmtSj0LiWkn3  
+L5VffX5Vtb7PWRLEmVos2ZS+K2PvSt7M1kp6NcwuFkxV89EKbhNIPmWHieasg3P63W0RiLrpG
```

[Decrypt Password](#)

[Back](#) [Close](#)

Subnet ID subnet-13961565 Network interfaces eth0 Platform windows IAM role -

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Screenshot of the AWS EC2 Dashboard showing the "Connect To Your Instance" dialog.

The dialog box is titled "Connect To Your Instance". It contains the following text:

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: ec2-52-26-64-248.us-west-2.compute.amazonaws.com
User name: Administrator
Password: 2suylVAyCX

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](#)

Below the dialog, the EC2 instance details are shown:

VPC ID	vpc-0b7eu56f	AMI ID	Windows_Server-2012-R2-RTM-English-64Bit-Base-2016.06.15 (ami-8d0acfcd)
Subnet ID	subnet-13961565	Platform	windows
Network interfaces	eth0	IAM role	-

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Screenshot of a Windows desktop environment showing the Start Menu search results.

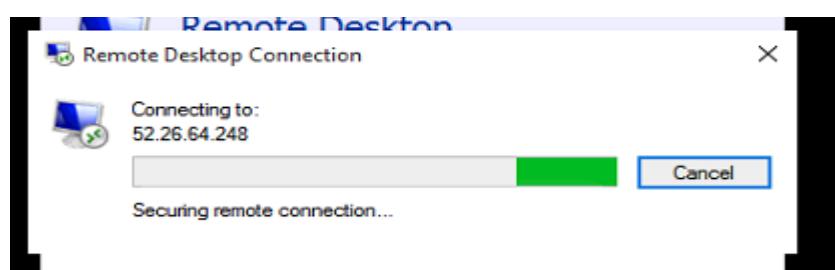
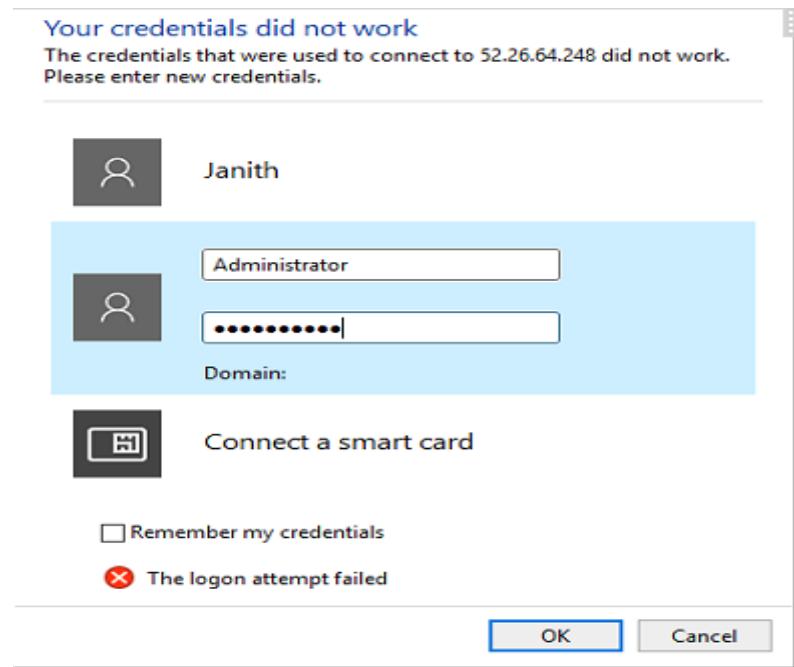
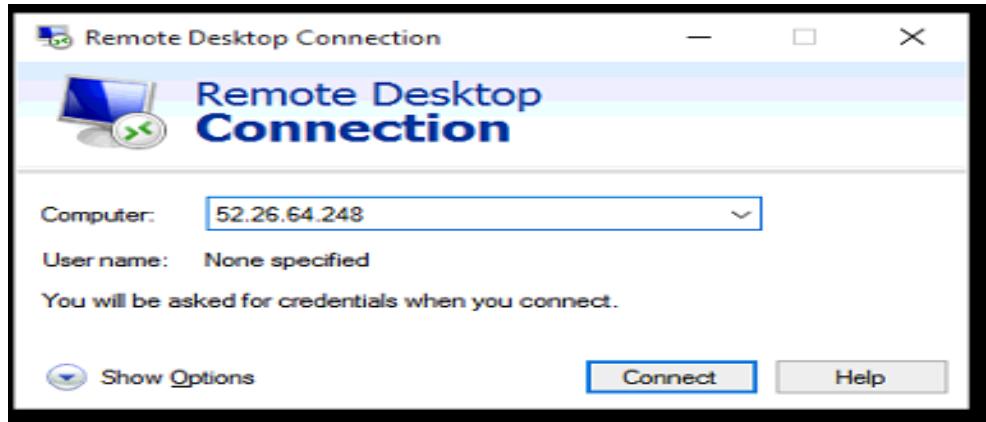
The search bar at the top left shows "Searching in: All" and "Best match" results:

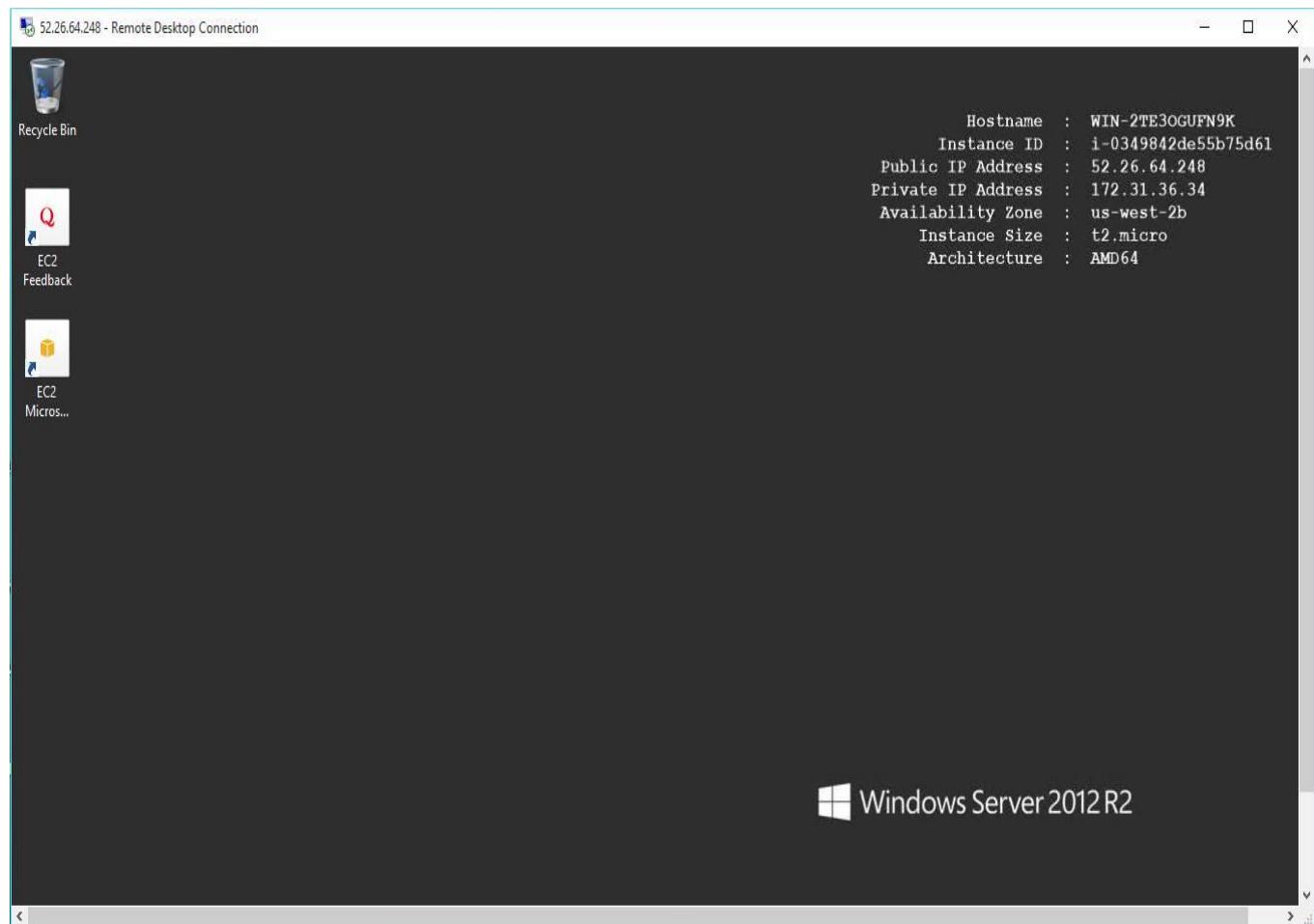
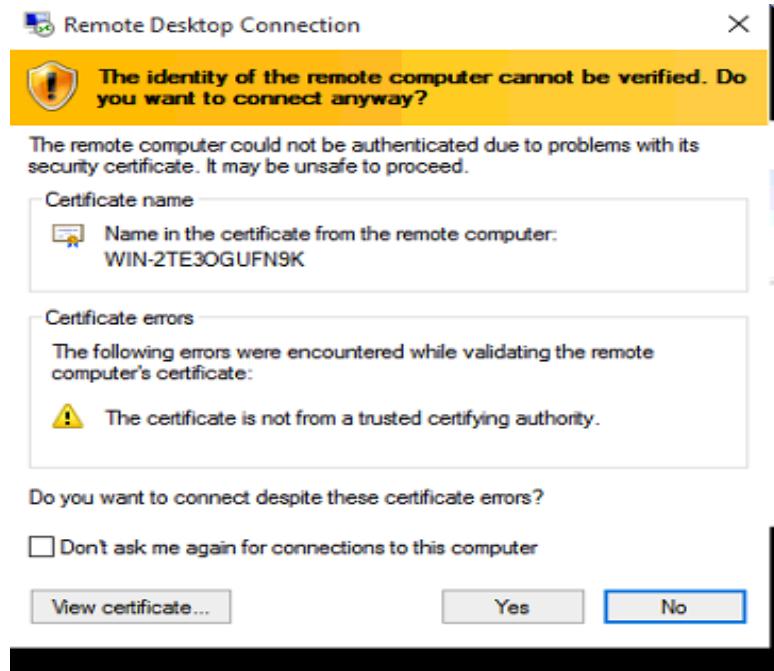
- Remote Desktop Connection

The search results are categorized as follows:

- Apps**: Resource Monitor, Reporting Services Configuration Manager, Voice Recorder.
- Folders**: Release.
- Documents**: Registration Notice - Computing.doc, 4th Year 1st - IT - Repeat (1).pdf, 6 - CDAP Assessment Instruments - Mid Review Presentation.docx.
- Web**: re

The desktop background is black, and the taskbar at the bottom shows icons for File Explorer, Google Chrome, FileZilla, and others.





EC2 Management Console https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Publ
i-0349842de55b75d61	t2.micro	us-west-2b					ec2-52-26-64-248.us-we...	52.26

Connect
Get Windows Password
Launch More Like This

Instance State
Instance Settings
Image
Networking
CloudWatch Monitoring

Start
Stop
Reboot
Terminate

EBS-optimized False

Root device type ebs

Root device /dev/sda1

Block devices /dev/sda1

Termination protection False

Lifecycle normal

Monitoring basic

Alarm status None

July 12, 2016 at 10:27:38 PM UTC+5:30 (less than one hour)

Feedback English

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ENG UK 22:51 12/07/2016

EC2 Dashboard Services Edit

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Instances

Terminate Instances

Warning
On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?
i-0349842de55b75d61 (ec2-52-26-64-248.us-west-2.compute.amazonaws.com)

Cancel Yes, Terminate

Root device type ebs

Root device /dev/sda1

Block devices /dev/sda1

Termination protection False

Lifecycle normal

Monitoring basic

Alarm status None

July 12, 2016 at 10:27:38 PM UTC+5:30 (less than one hour)

Feedback English

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Finally Remote Desktop Connection windows to connect to your instance

The screenshot shows the AWS EC2 Instances page. The left sidebar menu is visible with options like EC2 Dashboard, Events, Tags, Reports, Limits, INSTANCES (selected), Instances, Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts, IMAGES, AMIs, Bundle Tasks, ELASTIC BLOCK STORE, Volumes, Snapshots, and NETWORK & SECURITY. The main content area displays a single instance in a table:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Publ
	i-0349842de55b75d61	t2.micro	us-west-2b	terminated		None		

Below the table, detailed instance information is shown:

Root device type	ebs	Termination protection	-
Root device	-	Lifecycle	normal
Block devices	-	Monitoring	basic
		Alarm status	None
		Kernel ID	-
		RAM disk ID	-

At the bottom of the page, there are links for Feedback, English, and navigation icons.

Enterprise Standards and Best Practices for IT Infrastructure

Amazon EC2 Linux Instances Assignment Report 02

Reg NO :- IT 13003142
Name :- Gamage K.G.J.H

AWS Management Console - https://us-west-2.console.aws.amazon.com/console/home?region=us-west-2

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Quick Starts

- Build a web app
- Launch a virtual machine [Learn More](#)
- Back up your files [Learn More](#)
- Build a backend for your mobile app
- Host a static website [Learn More](#)
- Analyze big data [Learn More](#)

AWS Services

SHOW CATEGORIES

COMPUTE	DEVELOPER TOOLS	INTERNET OF THINGS
EC2	CodeCommit	AWS IoT
EC2 Container Service	CodeDeploy	
Elastic Beanstalk	CodePipeline	
Lambda		
MANAGEMENT TOOLS		
STORAGE & CONTENT DELIVERY	CloudWatch	GAME DEVELOPMENT
S3	CloudFormation	GameLift
CloudFront	CloudTrail	
Elastic File System	Config	
Glacier	OpsWorks	
Snowball	Service Catalog	
Storage Gateway	Trusted Advisor	
MOBILE SERVICES		
DATABASE	IAM	API Gateway
RDS	Directory Service	AppStream
DynamoDB		CloudSearch
Amazon Kinesis		Amazon Transcribe
SECURITY & IDENTITY		
APPLICATION SERVICES		

Service Health [View Dashboard](#)

All services are operating normally. Updated Jul 17 2016 02:37:00 GMT-0700

3:08 PM 7/17/2016

EC2 Management Console - https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#

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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

Resources

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

0 Running Instances	0 Elastic IPs
0 Dedicated Hosts	0 Snapshots
0 Volumes	0 Load Balancers
1 Key Pairs	2 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-0b7e056f
- 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)

Feedback English Search the web and Windows 3:08 PM 7/17/2016

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			
<input type="checkbox"/> My AMIs	 Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611	<input type="button" value="Select"/>	1 to 25 of 25 AMIs
<input type="checkbox"/> AWS Marketplace	Amazon Linux <small>Free tier eligible</small>	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
<input type="checkbox"/> Community AMIs		Root device type: ebs Virtualization type: hvm	
<input type="checkbox"/> Free tier only <small>(i)</small>	 Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type - ami-775e4f16	<input type="button" value="Select"/>	64-bit
	Red Hat <small>Free tier eligible</small>	Red Hat Enterprise Linux version 7.2 (HVM). EBS General Purpose (SSD) Volume Type	
	 SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type - ami-d2627db3	<input type="button" value="Select"/>	64-bit
	SUSE Linux <small>Free tier eligible</small>	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		

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Search the web and Windows 3:09 PM 7/17/2016

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 <small>(i)</small>	Memory (GiB)	Instance Storage (GB) <small>(i)</small>	EBS-Optimized Available <small>(i)</small>	Network Performance <small>(i)</small>
<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

Cancel Previous Review and Launch Next: Configure Instance Details

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Search the web and Windows 3:09 PM 7/17/2016

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

Janith | 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.

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

Edit instance type

Cancel Previous Launch

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Show all downloads... 3:11 PM 7/17/2016

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

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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.

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

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](#).

Create a new key pair Key pair name: Linux-Janith **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

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Show all downloads... 3:12 PM 7/17/2016

Screenshot of the AWS EC2 Management Console showing the "Step 7: Review Instance Launch" wizard. The user is prompted to "Select an existing key pair or create a new key pair". A note states: "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." A warning message says: "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." Buttons for "Cancel" and "Launch Instances" are visible.

Screenshot of the AWS EC2 Management Console showing the "Launch Status" page. It displays a green box stating: "Your instances are now launching. The following instance launches have been initiated: i-0ef73d1c43b76f9b1 View launch log". Below this, there is a blue box with the heading "Get notified of estimated charges" and a subtext: "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)". A section titled "How to connect to your instances" provides instructions and links to helpful resources like the Amazon EC2 User Guide and Discussion Forum. The status bar at the bottom shows the date and time as 3:12 PM 7/17/2016.

The screenshot shows the AWS Management Console interface. The top navigation bar has tabs for EC2 Management Console, putty download - Google, PuTTY Download Page, and Download PuTTY - a free. The main content area is titled "Launch Status". It displays a green success message: "Your instances are now launching" with the instance ID i-0ef73d1c43b76f9b1 and a link to "View launch log". Below this is a blue info message: "Get notified of estimated charges" with a link to "Create billing alerts". A section titled "How to connect to your instances" explains that instances are launching and provides a link to "View Instances". A sidebar lists helpful resources like "How to connect to your Linux instance" and "Learn about AWS Free Usage Tier". The bottom of the page includes standard AWS footer links: Feedback, English, Privacy Policy, Terms of Use, and a search bar.

Launch Status

Your instances are now launching

The following instance launches have been initiated: [i-0ef73d1c43b76f9b1](#) [View launch log](#)

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.

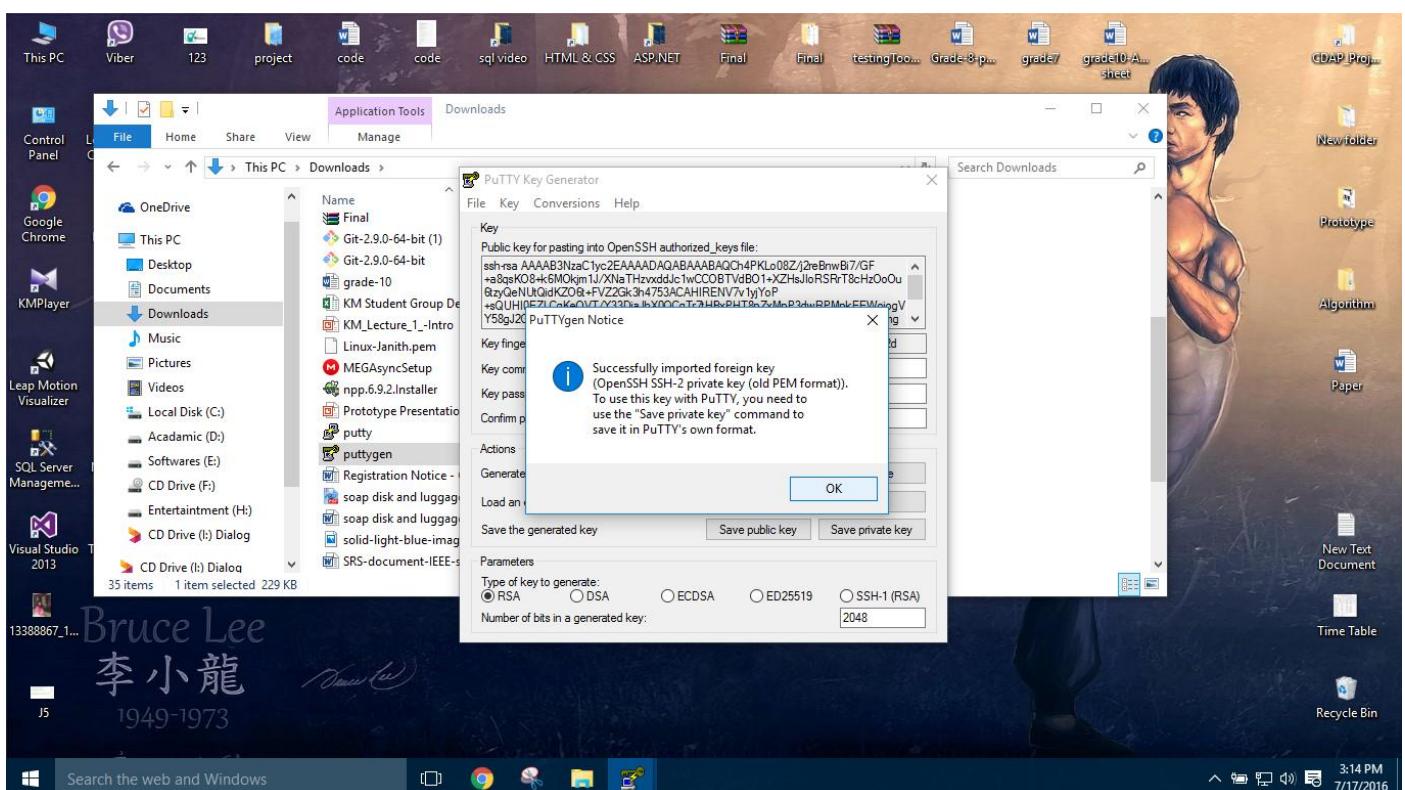
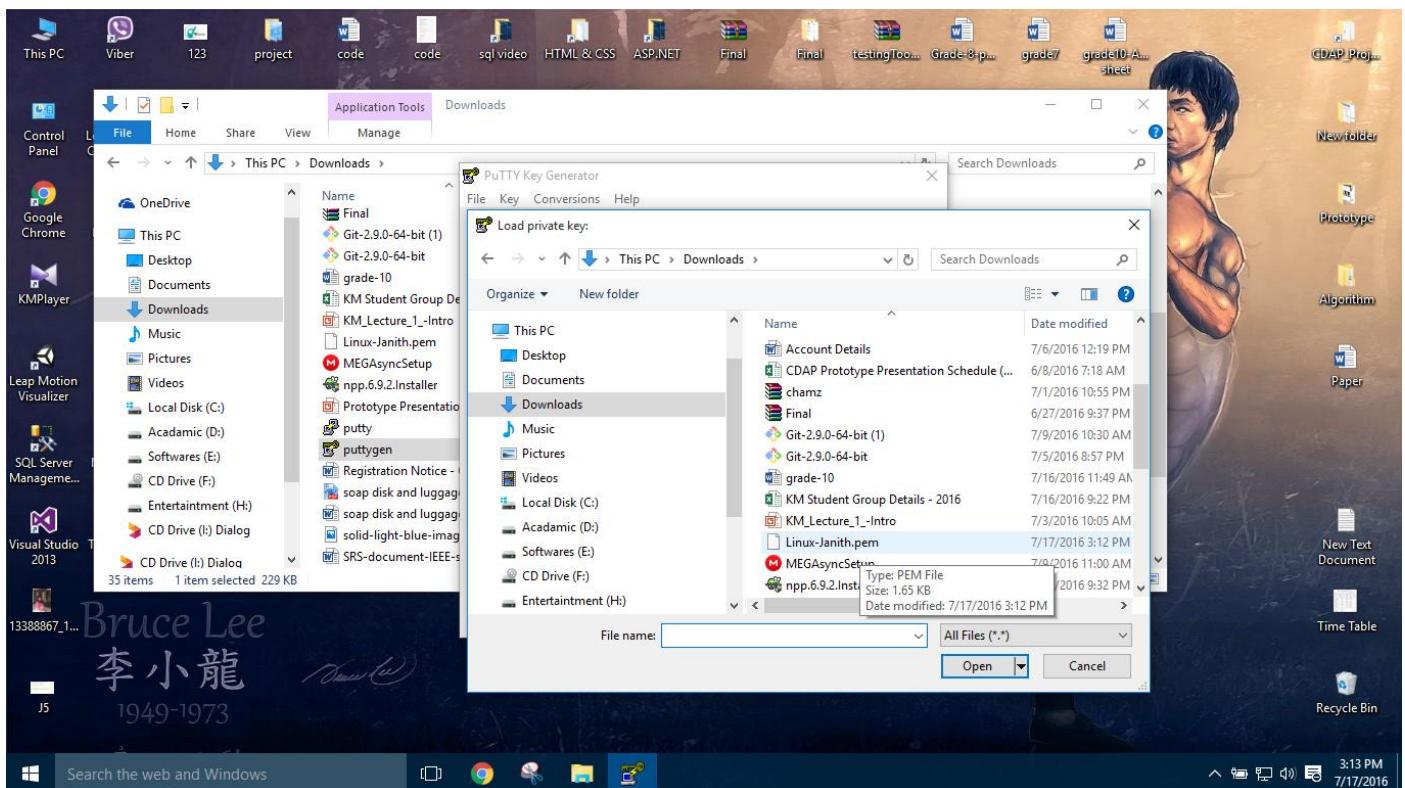
Here are some helpful resources to get you started

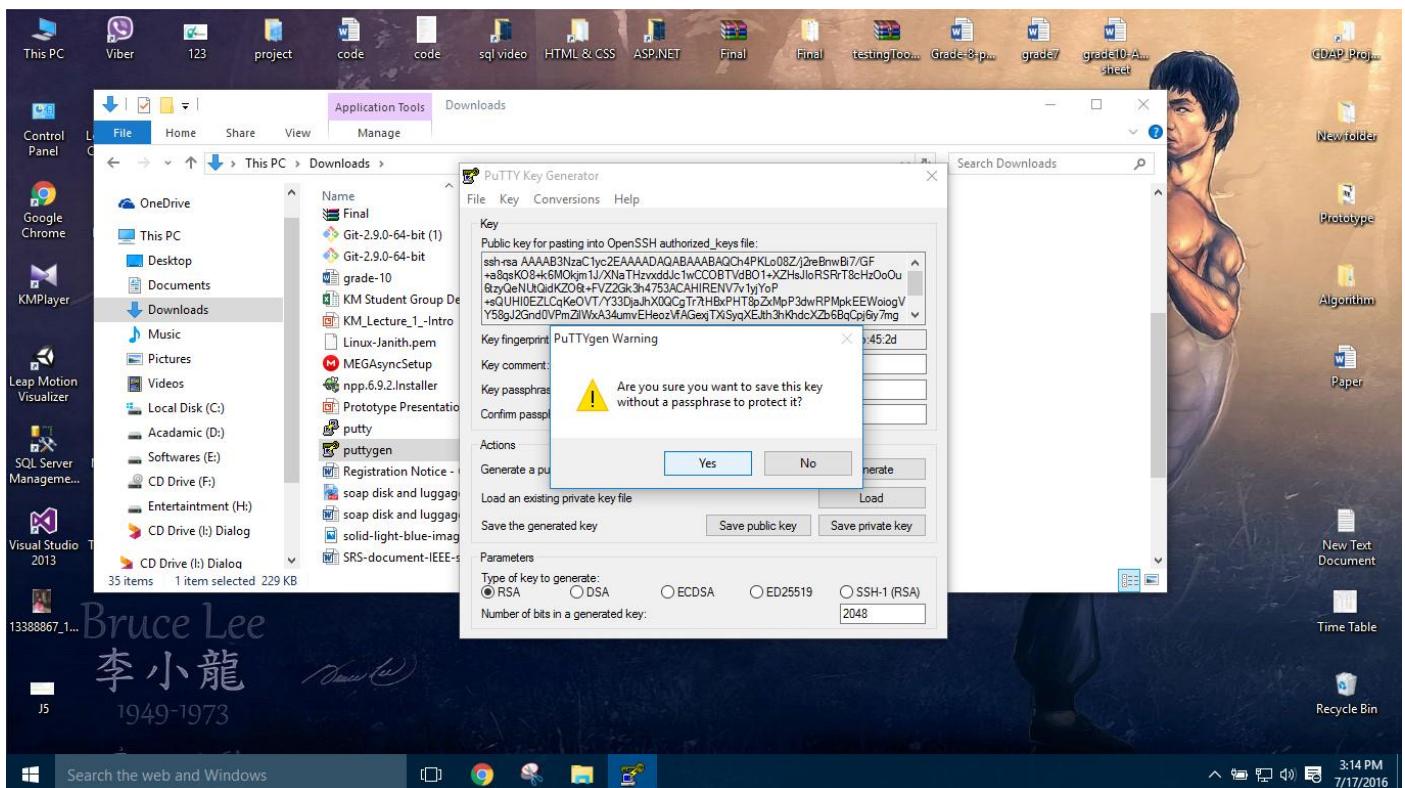
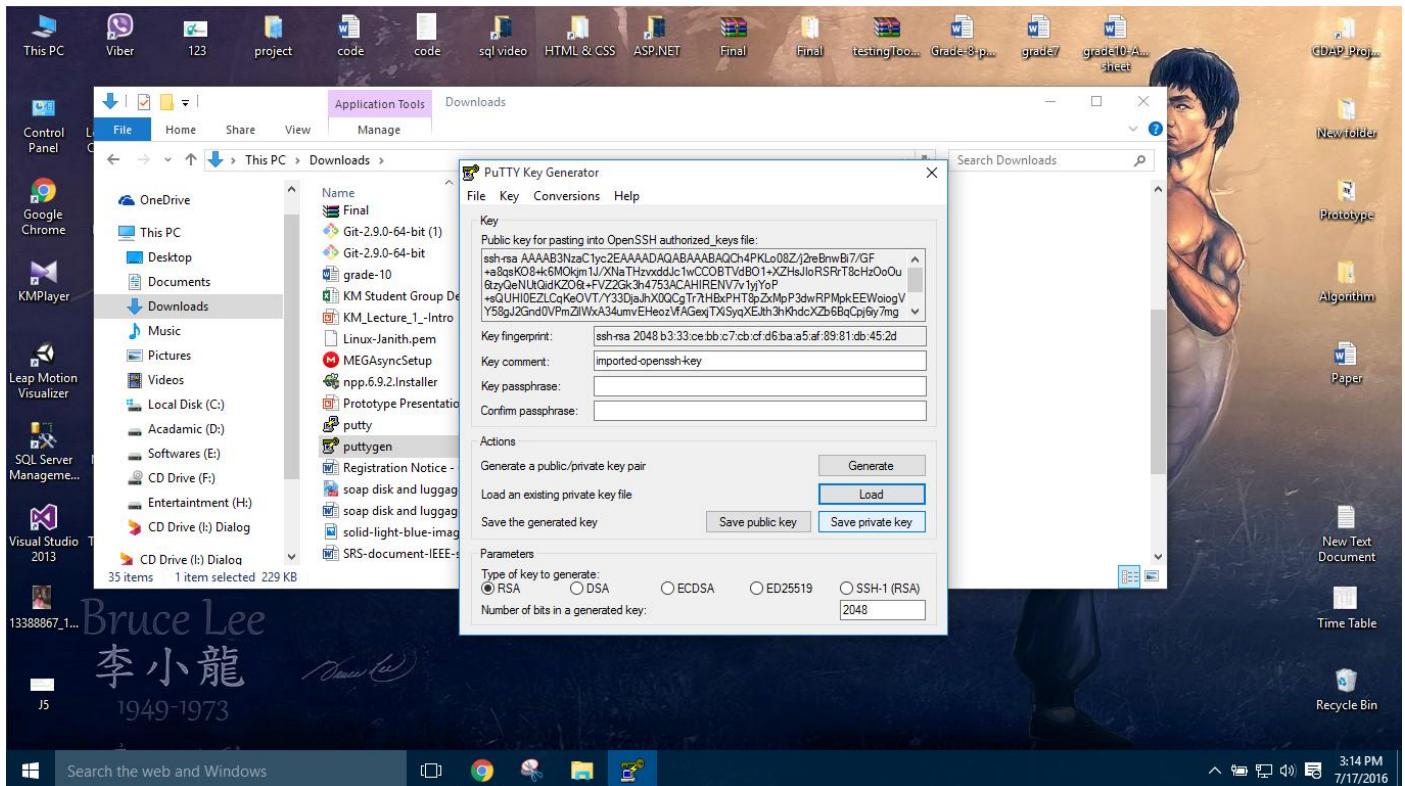
- [How to connect to your Linux instance](#)
- [Amazon EC2: User Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

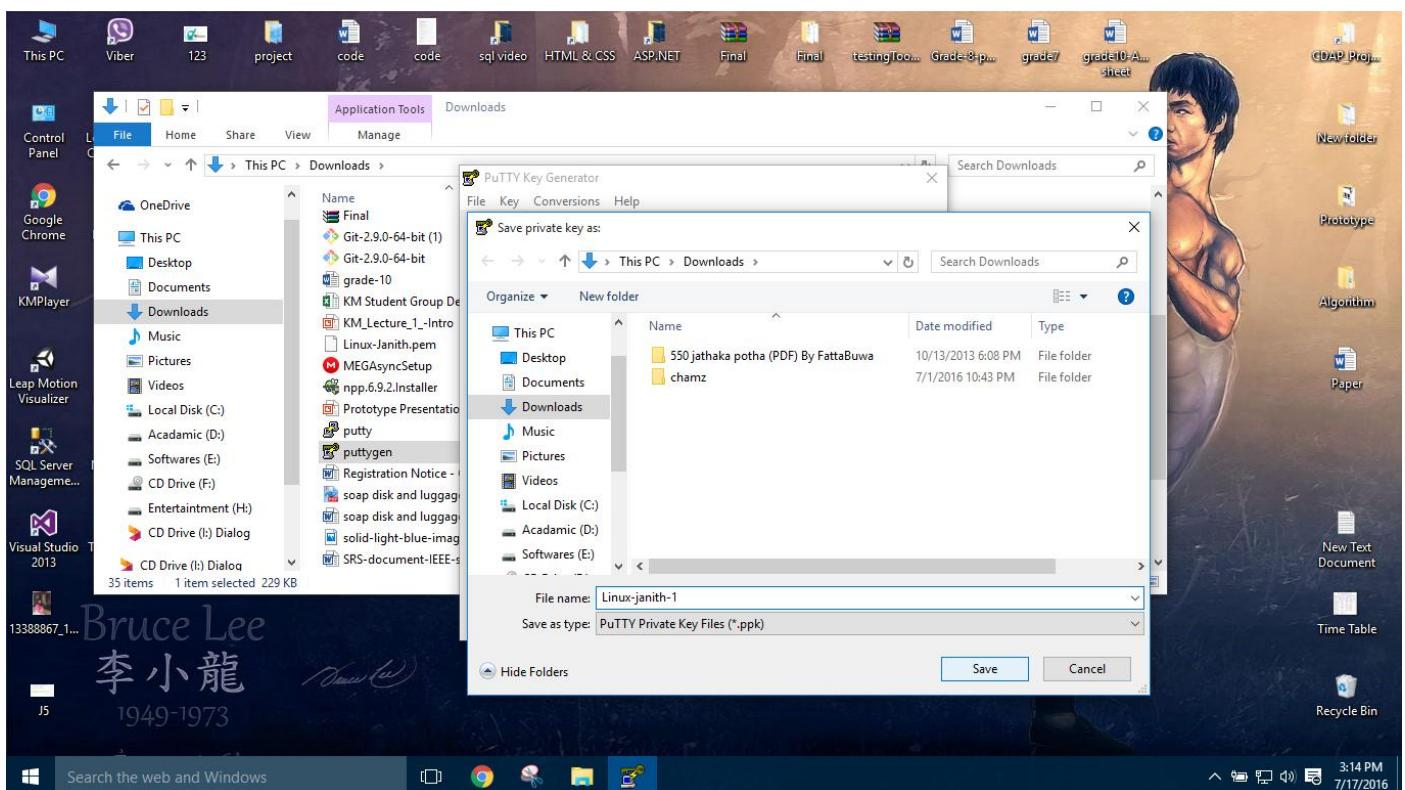
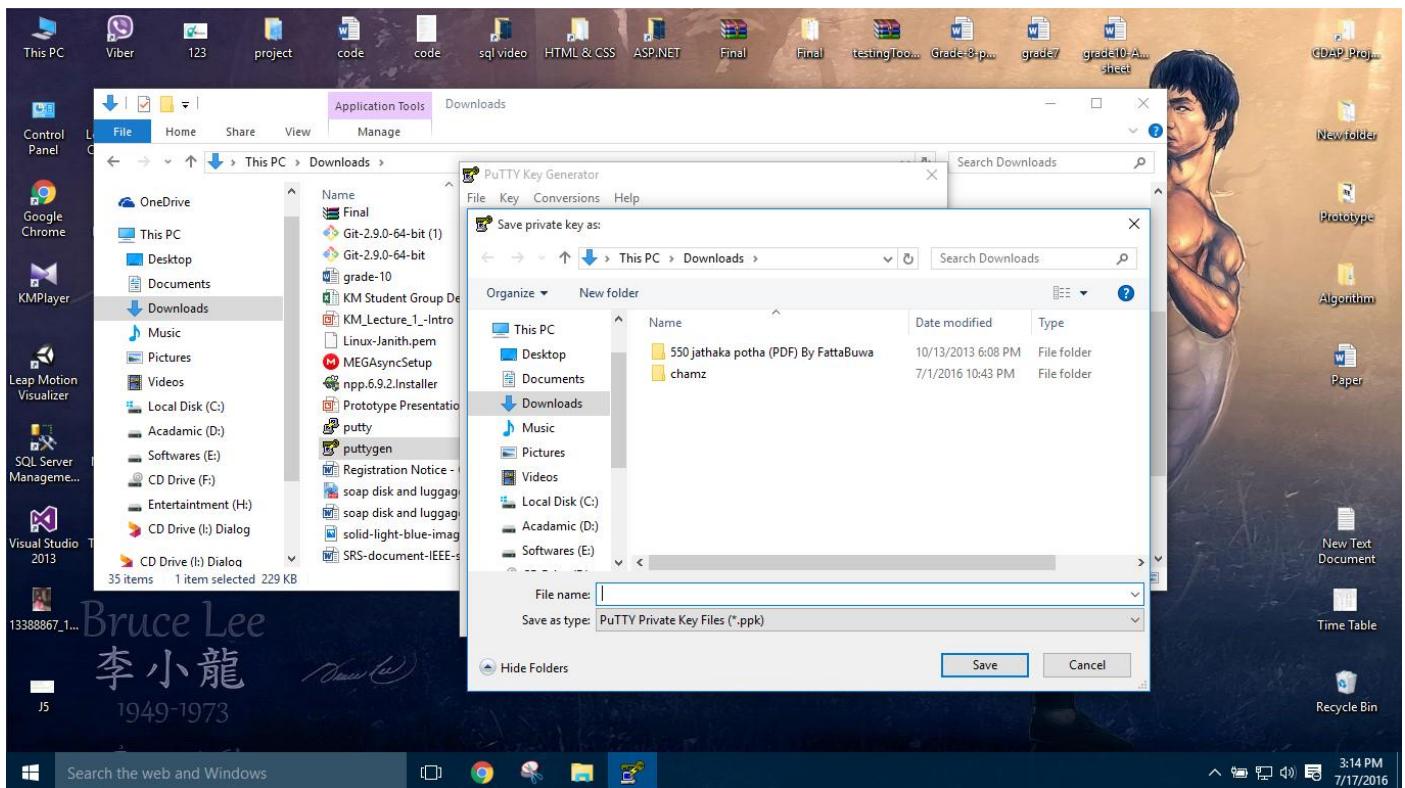
While your instances are launching you can also

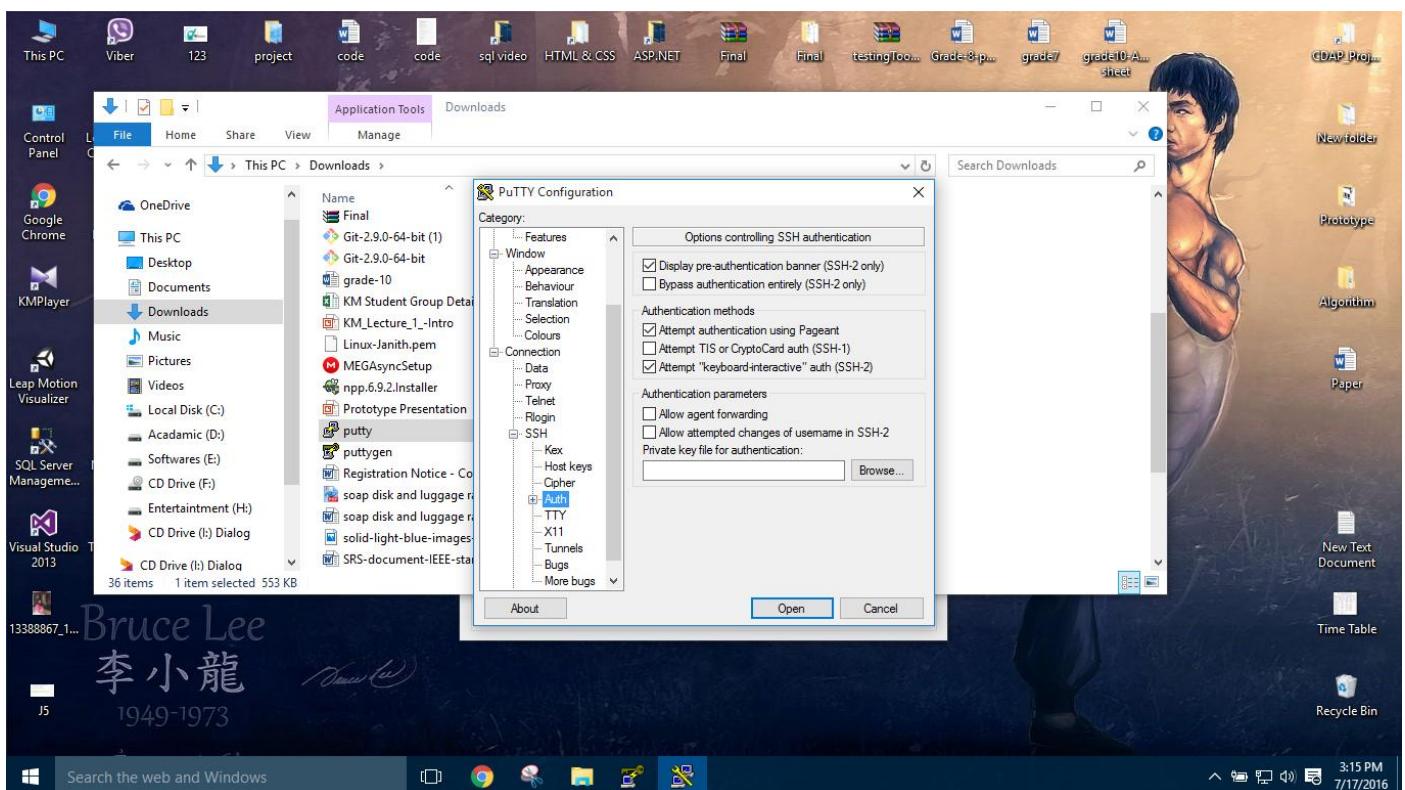
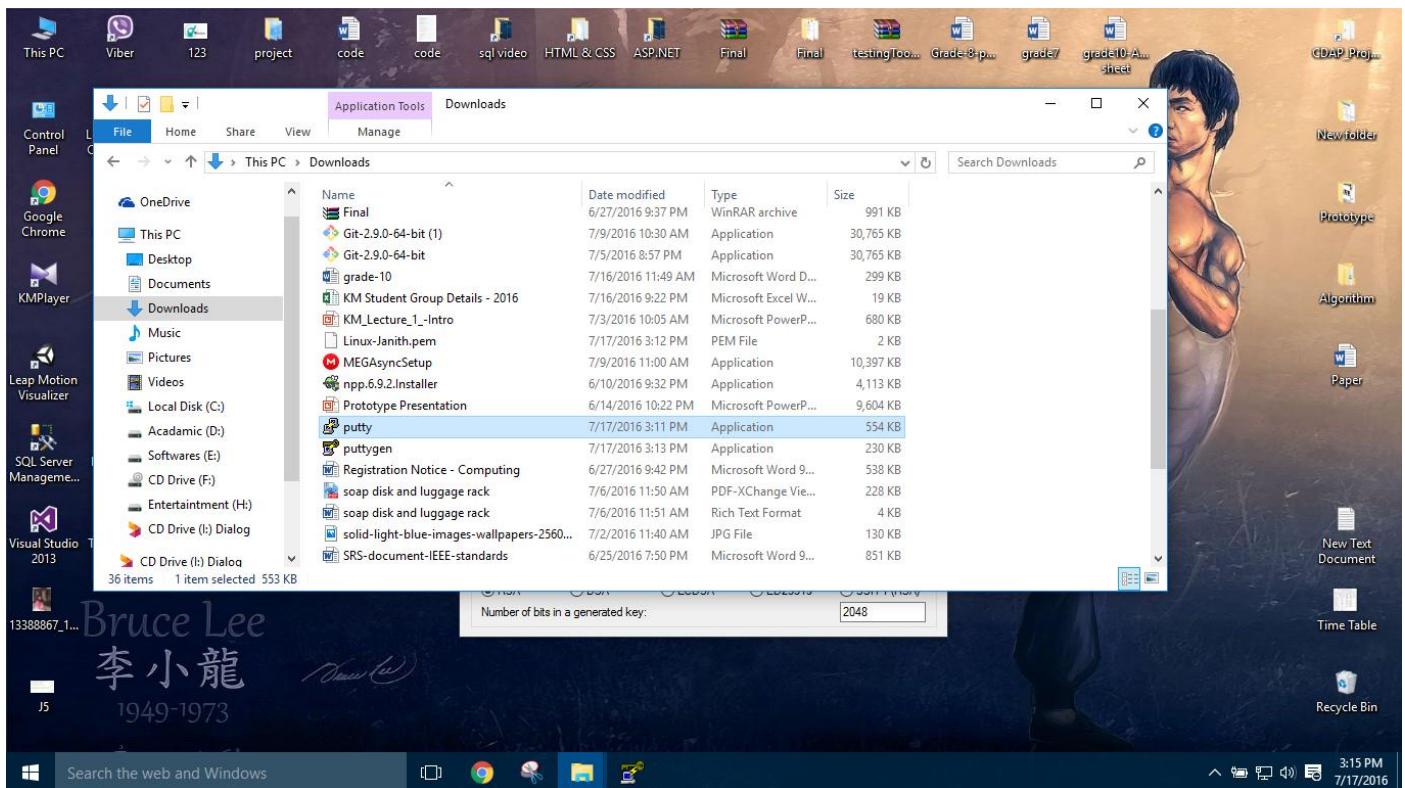
The screenshot shows a Windows taskbar at the bottom of the screen. It features several pinned icons: File Explorer, Task View, Edge browser, File Explorer again, and others. The system tray shows the date and time as 3:12 PM on 7/17/2016.

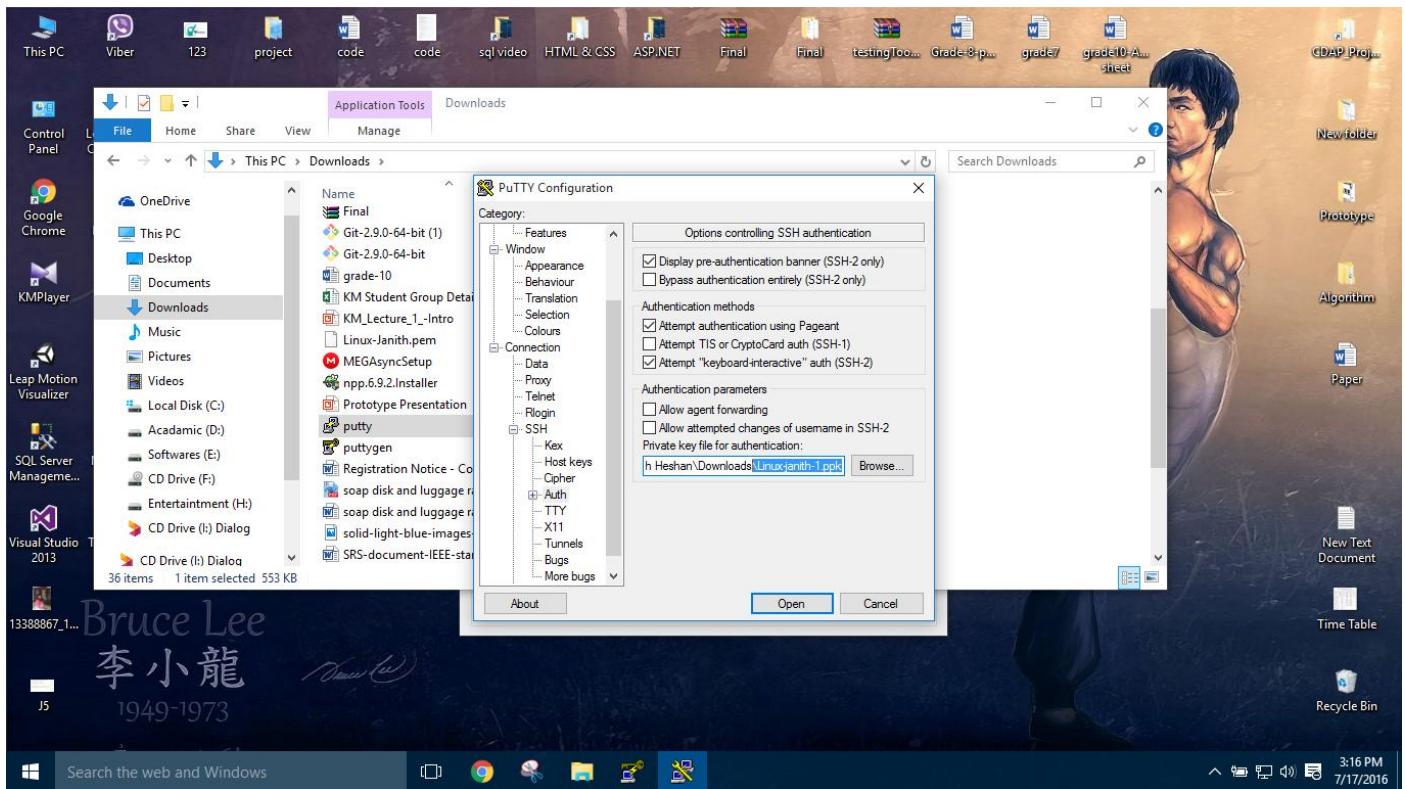
The screenshot shows the AWS Management Console with the EC2 Instances page selected. The left sidebar shows navigation options like EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Images, AMIs, and more. The main content area shows a table of instances. One instance is highlighted: i-0ef73d1c43b76f9b1, t2.micro, us-west-2b, running. A detailed view panel on the right shows the instance's public DNS (ec2-52-42-38-222.us-west-2.compute.amazonaws.com) and public IP (52.42.38.222). The bottom of the page includes standard AWS footer links: Feedback, English, Privacy Policy, Terms of Use, and a search bar.



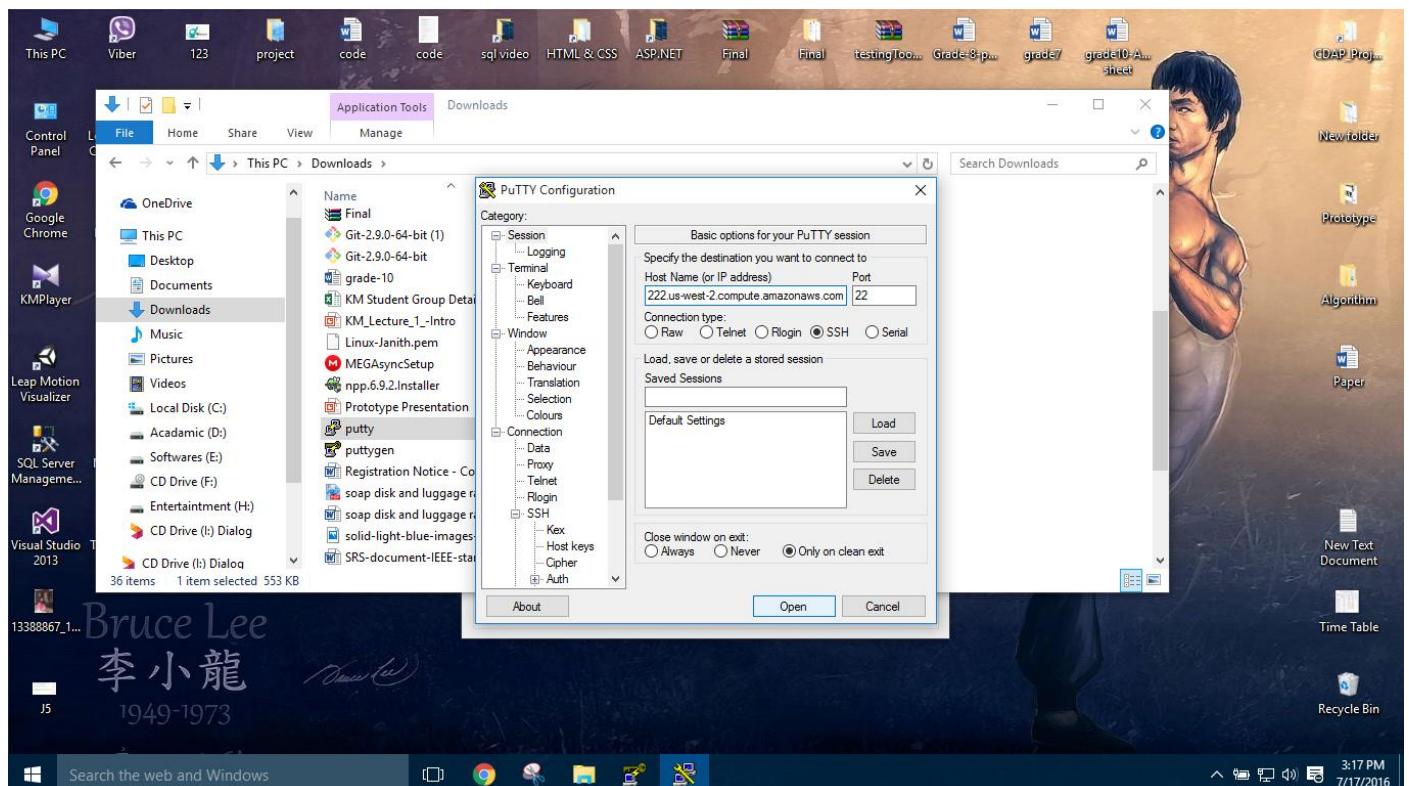
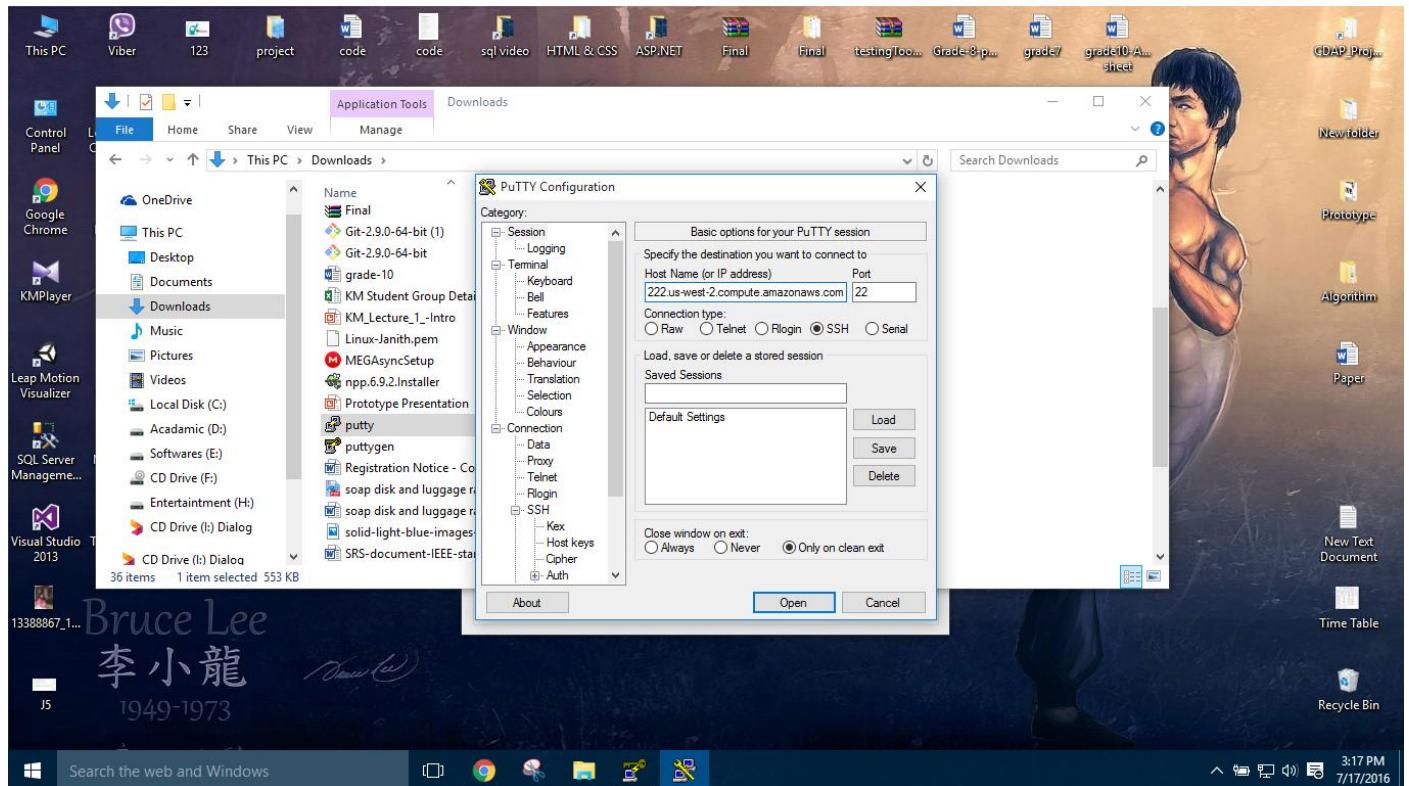


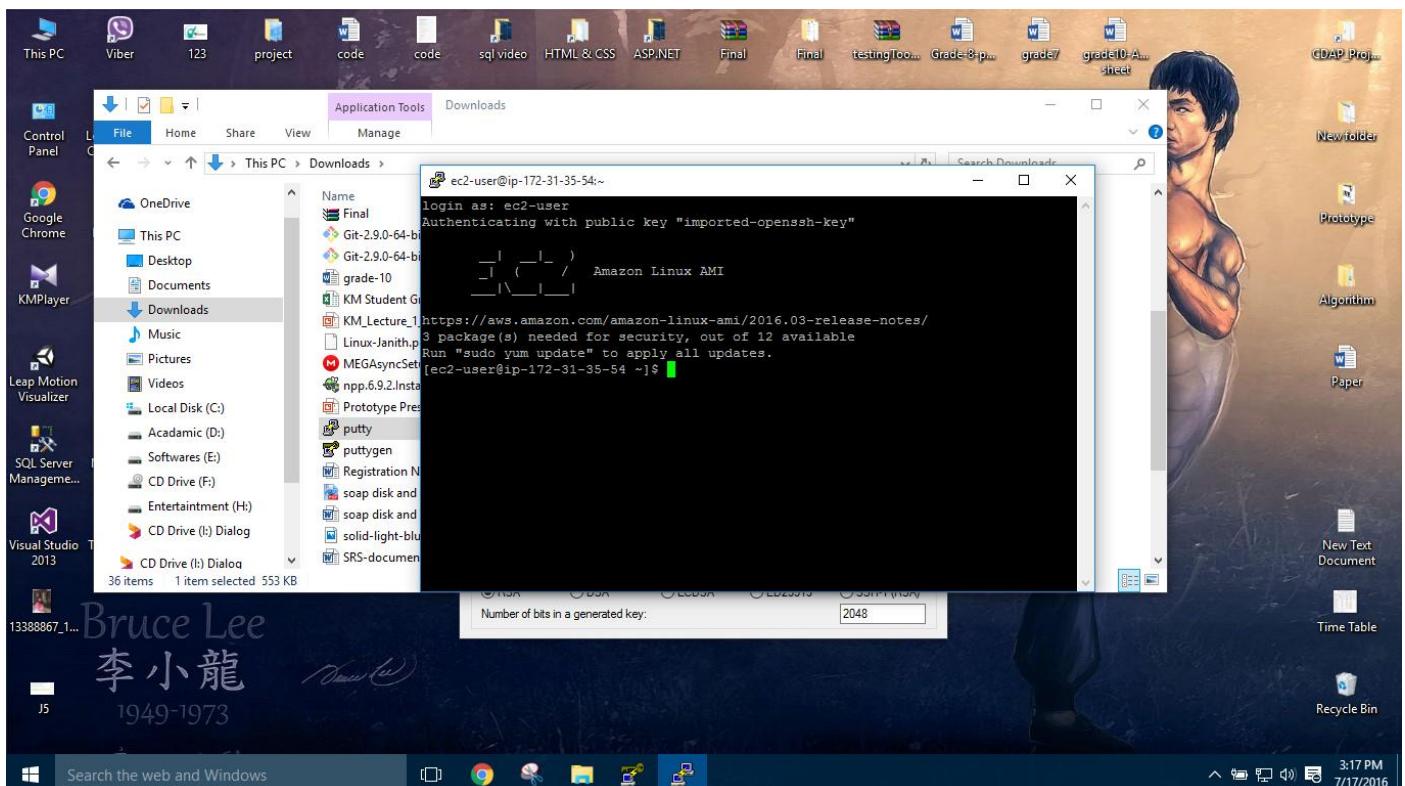
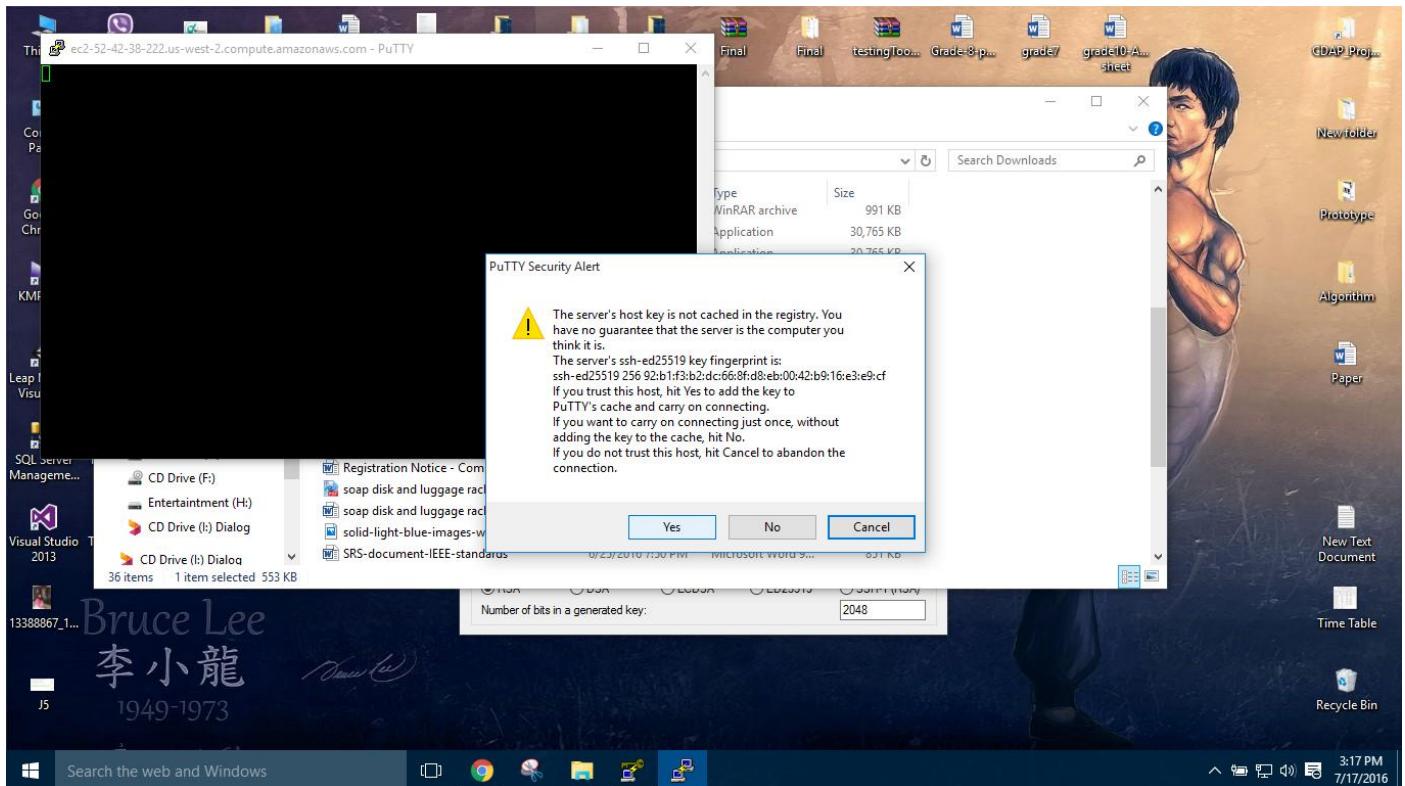


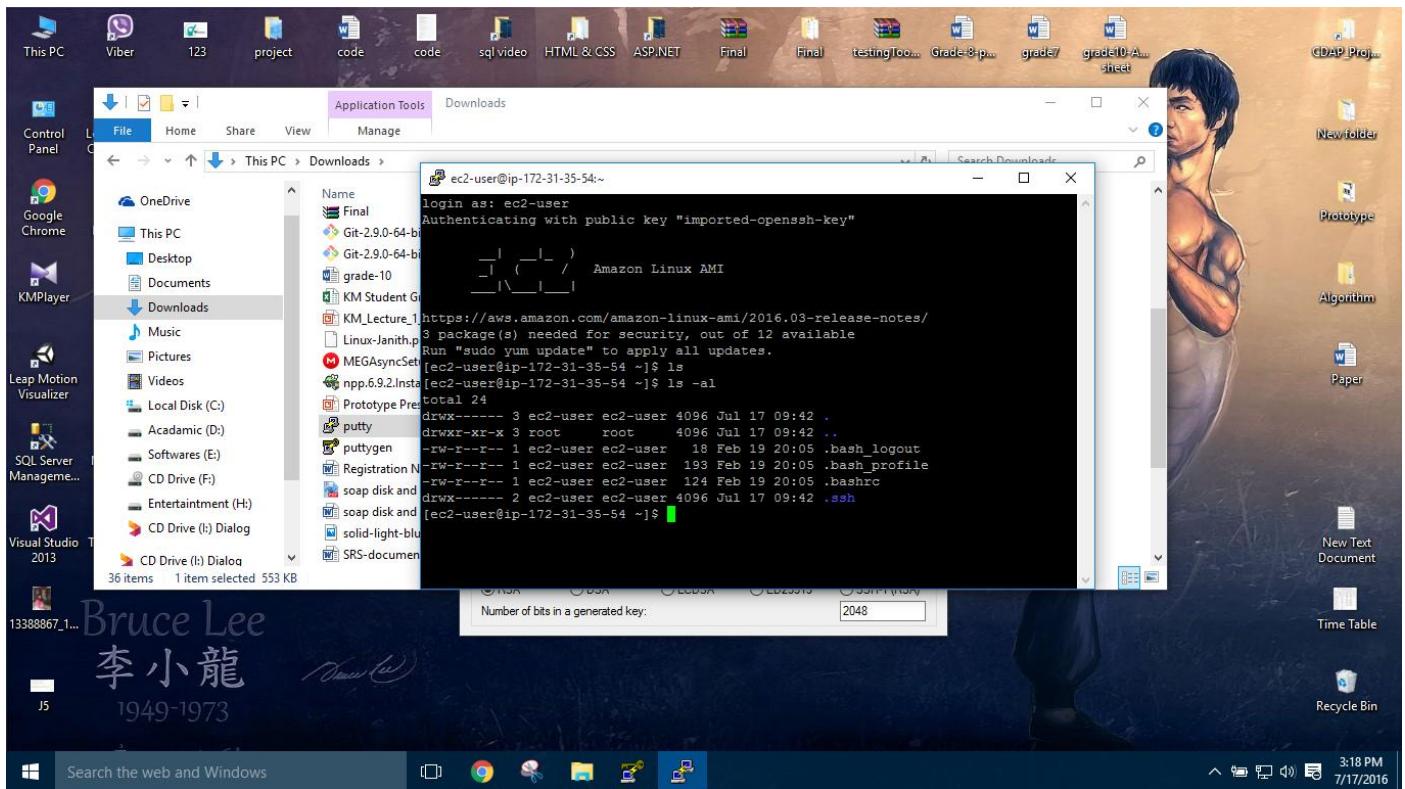




A screenshot of the AWS EC2 Management Console. The left sidebar shows navigation options like EC2 Dashboard, Instances, Images, and Network & Security. The main content area displays an instance named 'i-0ef73d1c43b76f9b1' which is running in the 'us-west-2b' availability zone. The Public DNS is listed as 'ec2-52-42-38-222.us-west-2.compute.amazonaws.com'. The bottom status bar shows the date and time as 7/17/2016 at 3:16 PM.







A screenshot of the AWS EC2 Management Console. The main view shows a table of instances. One instance, with the ID 'i-0ef73d1c43b76f9b1' and type 't2.micro', is selected. A context menu is open over this instance, with the 'Terminate' option highlighted. The table includes columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS, and Public IP. Below the table, detailed information for the selected instance is shown, including its instance ID, state, and network details. The AWS navigation bar at the top includes 'AWS Services' and 'Edit'. The left sidebar lists other services like EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Images, and Network & Security.

EC2 Management Console https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Terminate Instances

Warning
On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?
i-0ef73d1c43b76f9b1 (ec2-52-42-38-222.us-west-2.compute.amazonaws.com)

Cancel Yes, Terminate

Description	Status Checks	Monitoring	Tags
Instance ID: i-0ef73d1c43b76f9b1	Public DNS: ec2-52-42-38-222.us-west-2.compute.amazonaws.com	Public IP: 52.42.38.222	
Instance state: running			

Feedback English

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3:19 PM 7/17/2016

EC2 Management Console https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances:

Launch Instance Connect Actions

Filter by tags and attributes or search by keyword

Instances

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Publ
i-0ef73d1c43b76f9b1	i-0ef73d1c43b76f9b1	t2.micro	us-west-2b	shutting-down	None		-	

Feedback English

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Enterprise Standards and Best Practices for IT Infrastructure

Amazon Relational Database Services Assignment Report 03

**Reg NO :- IT 13003142
Name :- Gamage K.G.J.H**

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 **Amazon Relational Database Service**

Amazon Relational Database Service (Amazon RDS) makes it easy to set up, operate, and scale relational databases in the cloud. It provides cost-efficient and resizable capacity while managing time-consuming database administration tasks, freeing you up to focus on your applications and business.

[Get Started Now](#)

[Getting Started Guide](#)

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Step 1: Select Engine

Select Engine

To get started, choose a DB Engine below and click Select.

Amazon Aurora

MySQL MySQL Community Edition

MySQL is the most popular open source database in the world. MySQL on RDS offers the rich features of the MySQL community edition with the flexibility to easily scale compute resources or storage capacity for your database.

- Supports database size up to 6 TB.
- Instances offer up to 32 vCPUs and 244 GiB Memory.
- Supports automated backup and point-in-time recovery.
- Supports cross-region read replicas.

MariaDB

PostgreSQL

ORACLE

Microsoft SQL Server

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Step 1: Select Engine
Step 2: Production?
Step 3: Specify DB Details
Step 4: Configure Advanced Settings

Do you plan to use this database for production purposes?

Production Dev/Test

Amazon Aurora **Recommended**
MySQL-compatible, enterprise-class database at 1/10th the cost of commercial databases.

MySQL
Use Multi-AZ Deployment and Provisioned IOPS Storage as defaults for high availability and fast, consistent performance.
This instance is intended for use outside of production or under the RDS Free Usage Tier.

Billing is based on [RDS pricing](#).

Cancel Previous Next Step

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Step 1: Select Engine
Step 2: Production?
Step 3: Specify DB Details
Step 4: Configure Advanced Settings

Your current selection is eligible for the free tier.
[Learn More](#).
Estimate your monthly costs for the DB Instance using the [RDS Instance Cost Calculator](#).

Specify DB Details

Free Tier
The Amazon RDS Free Tier provides a single db.t2.micro instance as well as up to 20 GB of storage, allowing new AWS customers to gain hands-on experience with Amazon RDS. Learn more about the RDS Free Tier and the instance restrictions [here](#).

Only show options that are eligible for RDS Free Tier

Instance Specifications

DB Engine: mysql
License Model: general-public-license
DB Engine Version: 5.6.27

Review the [Known Issues/Limitations](#) to learn about potential compatibility issues with specific database versions.

DB Instance Class: - Select One -
Multi-AZ Deployment: - Select One -
Storage Type: - Select One -
Allocated Storage*: 5 GB

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eligible for the free tier:

- Multi-AZ Deployment
- DB Instance Class

You will be charged normal RDS Prices. [Learn More](#).

Estimate your monthly costs for the DB Instance using the [RDS Instance Cost Calculator](#).

DB Engine: mysql
License Model: general-public-license
DB Engine Version: 5.6.27

Review the [Known Issues/Limitations](#) to learn about potential compatibility issues with specific database versions.

DB Instance Class: db.m1.small — 1 vCPU, 1.7 GB RAM
Multi-AZ Deployment: Yes
Storage Type: Magnetic
Allocated Storage*: 5 GB

Settings

DB Instance Identifier*: Janith
Master Username*: Janith
Master Password*:
Confirm Password*:
Passwords do not match

Retype the value you specified for Master Password.

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You will be charged normal RDS Prices. [Learn More](#).

Estimate your monthly costs for the DB Instance using the [RDS Instance Cost Calculator](#).

DB Engine Version: 5.6.27

Review the [Known Issues/Limitations](#) to learn about potential compatibility issues with specific database versions.

DB Instance Class: db.m1.small — 1 vCPU, 1.7 GB RAM
Multi-AZ Deployment: Yes
Storage Type: Magnetic
Allocated Storage*: 5 GB

Settings

DB Instance Identifier*: Janith
Master Username*: Janith
Master Password*:
Confirm Password*:

Retype the value you specified for Master Password.

* Required Cancel Previous Next Step

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Step 1: Select Engine
Step 2: Production?
Step 3: Specify DB Details
Step 4: Configure Advanced Settings

Configure Advanced Settings

Network & Security

VPC* Default VPC (vpc-0b7e056f)
Subnet Group default
Publicly Accessible Yes
Availability Zone No Preference
VPC Security Group(s) Create new Security Group
default (VPC)
launch-wizard-1 (VPC)
launch-wizard-2 (VPC)

Database Options

Database Name
Note: if no database name is specified then no initial MySQL database will be created on the DB Instance.
Database Port 3306
DB Parameter Group default.mysql5.6

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DB Parameter Group default.mysql5.6
Option Group default:mysql-5-6
Copy Tags To Snapshots
Enable Encryption No

Backup

Please note that automated backups are currently supported for InnoDB storage engine only. If you are using MyISAM, refer to detail [here](#).
Backup Retention Period 0 days
A backup retention period of zero days will disable automated backups for this DB Instance.

Backup Window No Preference

Select the number of days, between 1 and 35, that Amazon RDS should retain automatic backups of this DB instance. The backup retention period determines the period for which you can perform a point-in-time recovery. Select 0 to disable backups. [Learn More](#).

Maintenance

Auto Minor Version Upgrade Yes
Maintenance Window No Preference

* Required Cancel Previous **Launch DB Instance**

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AWS Services Edit Janith Oregon Support

Step 1: Select Engine
Step 2: Production?
Step 3: Specify DB Details
Step 4: Configure Advanced Settings

>Your DB Instance is being created.

Note: Your instance may take a few minutes to launch.

Connecting to your DB Instance

You will be unable to connect to your database instance unless you have previously authorized access on your chosen security group.

[Go to the Security Groups Page](#)

Related AWS Services

Amazon ElastiCache
Add a managed Memcached or Redis-compatible in-memory cache to speed up your database access.
[Click here to learn more and launch your Cache Cluster](#)

[View Your DB Instances](#)

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AWS Services Edit Janith Oregon Support

Step 1: Select Engine
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Your DB Instance is being created.

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[View Your DB Instances](#)

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Screenshot of the AWS RDS Dashboard showing the launch of a MySQL DB instance named 'janith'.

RDS Dashboard

- Instances
- Clusters
- Reserved Purchases
- Snapshots
- Security Groups
- Parameter Groups
- Option Groups
- Subnet Groups
- Events
- Event Subscriptions
- Notifications

Launch DB Instance | Show Monitoring | Instance Actions

Filter: All Instances | Search DB Instances... | Viewing 1 of 1 DB Instances

Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replicati
MySQL	janith	available	7.00%	0 Connections	None	db.m1.small	vpc-0b7e056f	Yes	

Endpoint: janith.cbdjeekkmiku.us-west-2.rds.amazonaws.com:3306 (authorized)

Alarms and Recent Events

TIME (UTC-7)	EVENT
Jul 17 3:09 AM	Applying modification to convert to a Multi-AZ DB Instance
Jul 17 3:09 AM	DB instance created

Monitoring

CURRENT VALUE	THRESHOLD	LAST HOUR	CURRENT VALUE	LAST HOUR
CPU	No Data		Read IOPS	No Data
Memory	No Data		Write IOPS	No Data
Storage	No Data		Swap Usage	No Data

Instance Actions | Tags | Logs



Screenshot of the MySQL Workbench interface showing a successful connection to a MySQL instance.

Setup New Connection

Connection Name: west2mysqlinstance1
Connection Method: Standard (TCP/IP)

Parameters Advanced

Hostname: sxdl3swz.us-west-2.rds.amazonaws.com Port: 3306
Username: ITI3003I42
Password: (Store in Vault... / Clear)

Default Schema:

MySQL Workbench

Connected to MySQL at west2mysqlinstance1.cxn5sxdl3swz....:3306 with user ITI3003I42
Connection parameters are correct.

OK

Test Connection Cancel OK

Server Administration
Configure your database server, setup user accounts, browse status variables and server logs.

Server Administration
Or click to manage a database server instance.

New Connection
Add a new database connection for querying.

Edit Table Data
Select a connection and schema table to edit.

Edit SQL Script
Open an existing SQL Script file for editing.

Manage Connections
Modify connection settings or add connections.

Create New EER Model
Create a new EER Model from scratch.

Create EER Model From Existing Database
Create by connecting and reverse engineering.

Create EER Model From SQL Script
Import an existing SQL file.

New Server Instance
Register a new server instance to manage.

Manage Import / Export
Create a dump file or restore data from a file.

Manage Security
Manage user accounts and assign privileges.

Manage Server Instances
Add, delete and update server instance settings.

Connection cancelled

