



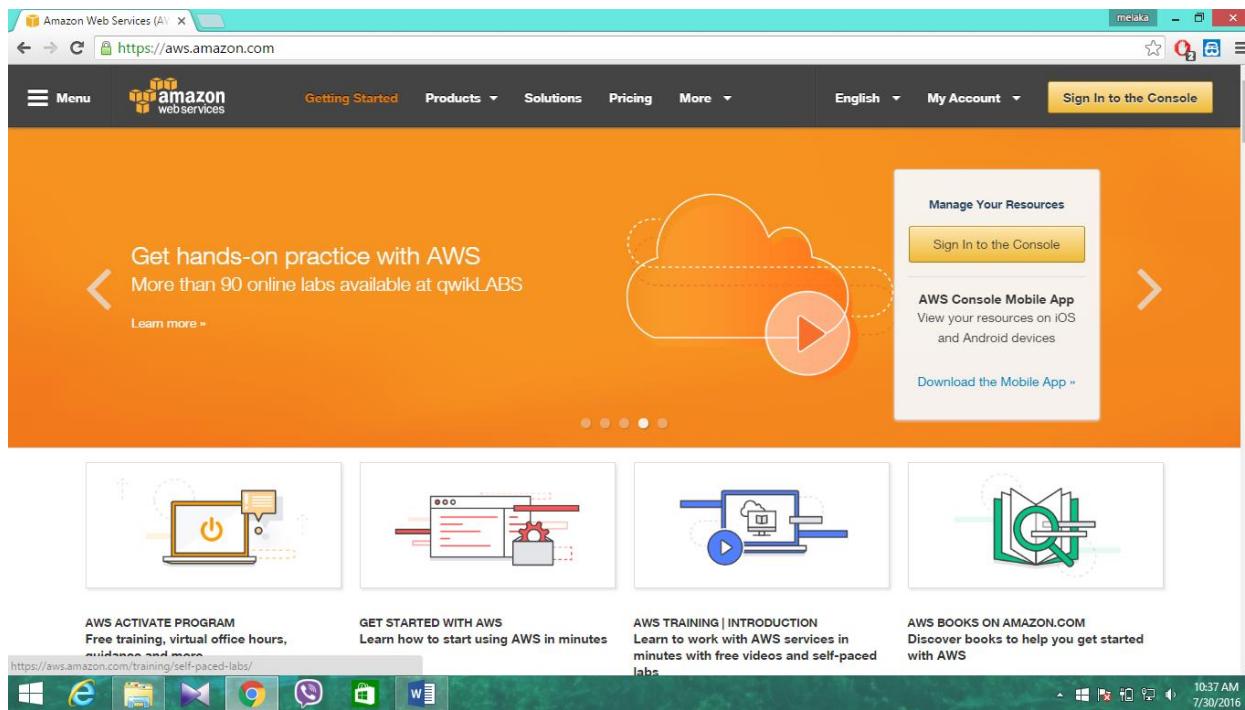
**Sri Lanka Institute of Information Technology**  
**Enterprise Standards and Best Practices for IT Infrastructure**  
**LAB Reports**

IT13087616

Gamage Y.M.K

Weekday

## Linux Instant



A screenshot of the AWS Management Console Home Page. The URL is https://us-west-2.console.aws.amazon.com/console/home?region=us-west-2. The top navigation bar includes 'AWS', 'Services', 'Edit', 'Melaka', 'Oregon', and 'Support'. On the left, there's a sidebar titled 'Amazon Web Services' with categories like Compute, Storage &amp; Content Delivery, Database, and others, each with corresponding service icons. The main content area is divided into sections: 'Resource Groups' (with a 'Create a Group' button), 'Additional Resources' (including 'Getting Started', 'AWS Console Mobile App', 'AWS Marketplace', and 'AWS re:Invent Announcements'), and 'Service Health'. The bottom of the page features a Windows taskbar with various icons and the system tray showing the date and time.

## After logging the AWS click “Launch Instant” Button

The screenshot shows the AWS EC2 Management Console interface. The left sidebar contains navigation links for EC2 Dashboard, Instances, Images, Elastic Block Store, Network & Security, and more. The main content area displays resource statistics: 1 Running Instances, 0 Dedicated Hosts, 1 Volumes, 1 Key Pairs, 0 Elastic IPs, 0 Snapshots, 0 Load Balancers, and 4 Security Groups. A callout box highlights the "Amazon Simple Workflow Service". Below this is a "Create Instance" section with a "Launch Instance" button. To the right, there are sections for "Service Health" (US West (Oregon) status: operating normally), "Scheduled Events" (no events), and "AWS Marketplace" (listing free software trial products). The bottom of the screen shows the Windows taskbar with various pinned icons.

Then select Linux Instant that we need to install

The screenshot shows the "Step 1: Choose an Amazon Machine Image (AMI)" page of the Launch Instance Wizard. It lists three AMIs: "Amazon Linux AMI 2016.03.3 (HVM)", "Red Hat Enterprise Linux 7.2 (HVM)", and "SUSE Linux Enterprise Server 12 SP1 (HVM)". Each entry includes a "Select" button and a note about its compatibility (e.g., "Free tier eligible", "64-bit"). The "Amazon Linux AMI" is currently selected. The bottom of the screen shows the Windows taskbar with various pinned icons.

## Click “Review and Launch button”

**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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## Click “Launch” Button

**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** Edit AMI

**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

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

Cancel Previous Launch

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## Create security key pair and select it

**Step 7: Review Instance Launch**

Please review your instance launch details. You can always change them later.

**AMI Details**

Amazon Linux AMI 2016.03.3 (HVM, SSD Volume Type)

**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](#).

Choose an existing key pair  
Select a key pair  
slit

I acknowledge that I have access to the selected private key file (slit.pem), and that without this file, I won't be able to log into my instance.

Cancel Launch Instances

## Launch Status

**Your instances are now launching**

The following instance launches have been initiated: i-043b0cb5fd0e7f5e8 [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
- Learn about AWS Free Usage Tier
- Amazon EC2: User Guide
- Amazon EC2: Discussion Forum

While your instances are launching you can also

Create static check alarms to be notified when these instances fail static checks. (Additional charges may apply)

The screenshot shows the AWS EC2 Management Console interface. On the left, there's a navigation sidebar with links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances (selected), 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). 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 with columns: Name, Instance ID, Instance Type, Availability Zone, Instance State, Status Checks, Alarm Status, Public DNS, and Pub. The table shows two rows:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Pub.
	i-036cb509541c6c852	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-52-37-206-140.us-west...	52.37
	i-043b0cb5fd0e7f5e8	t2.micro	us-west-2a	running	Initializing	None	ec2-52-40-149-49.us-west...	52.40

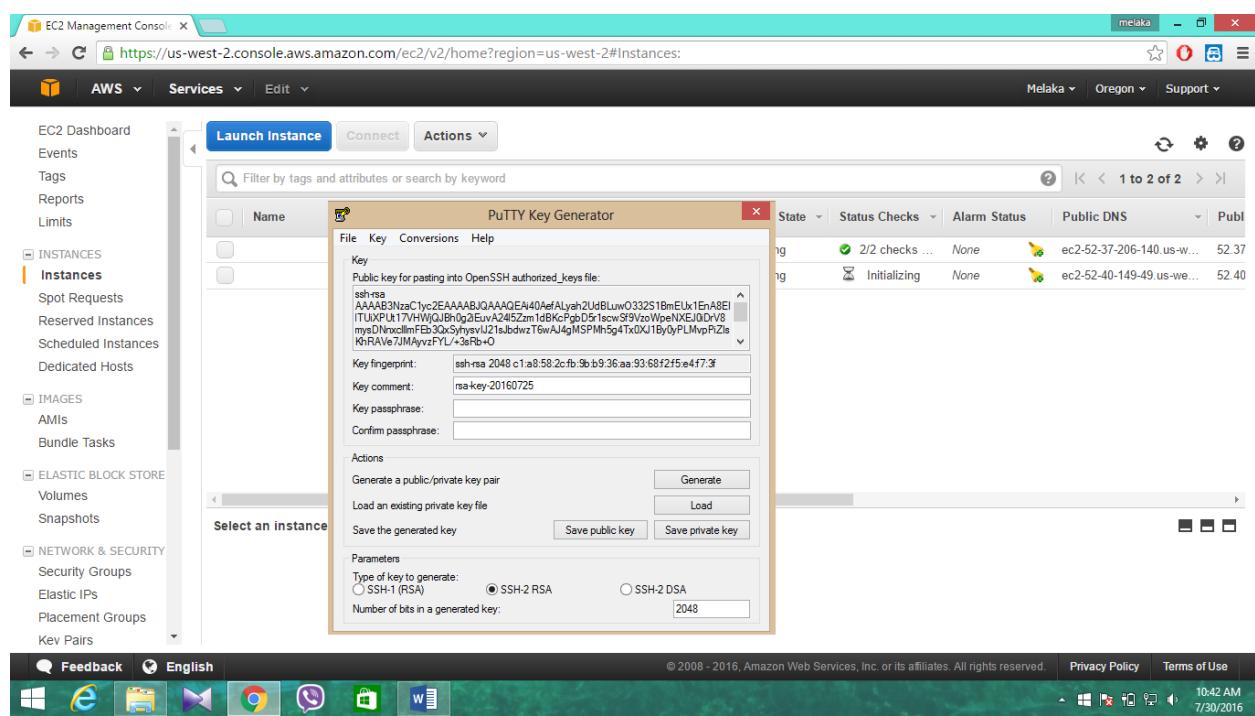
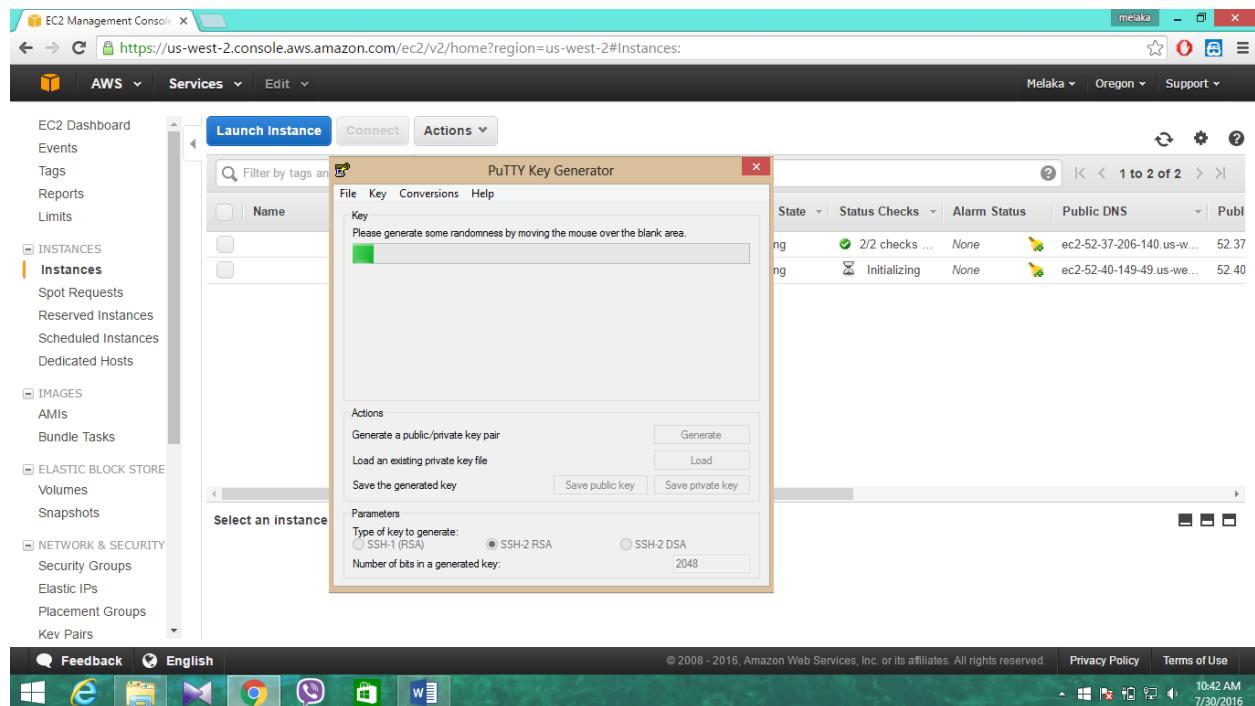
At the bottom, there's a message "Select an instance above" and a toolbar with icons for Feedback, English, and other system controls. The status bar at the bottom right shows "10:42 AM 7/30/2016".

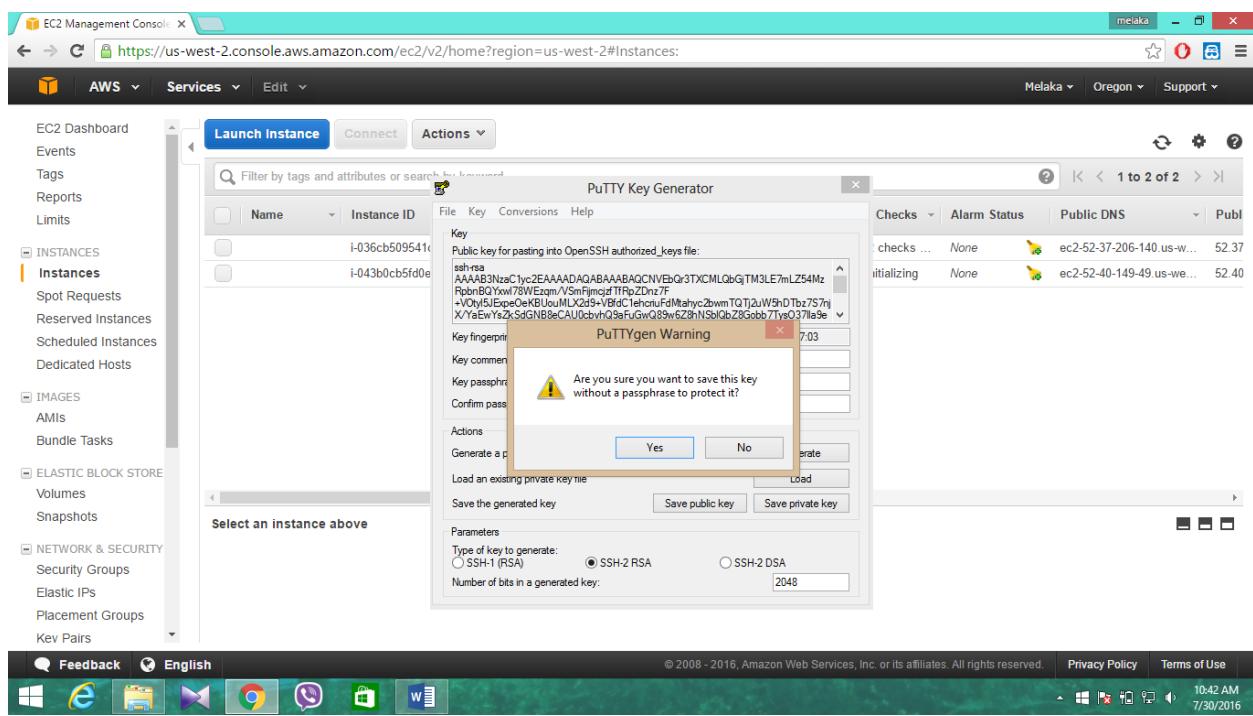
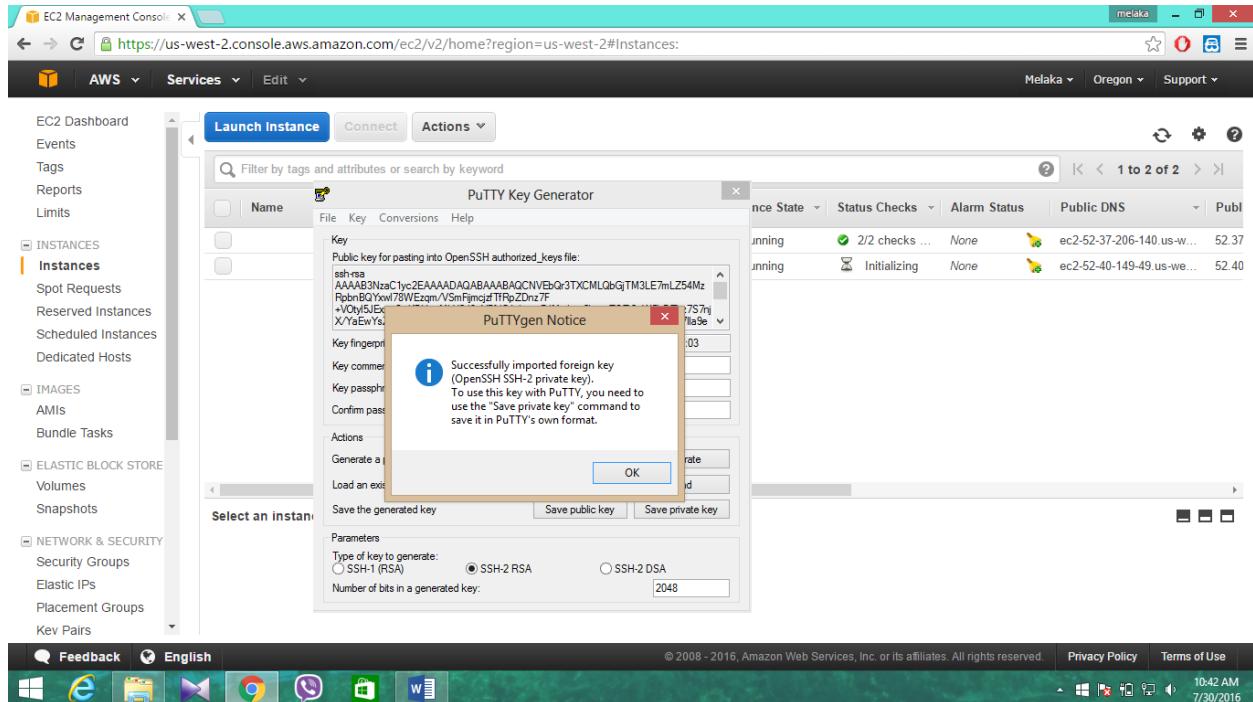
## Download Putty software

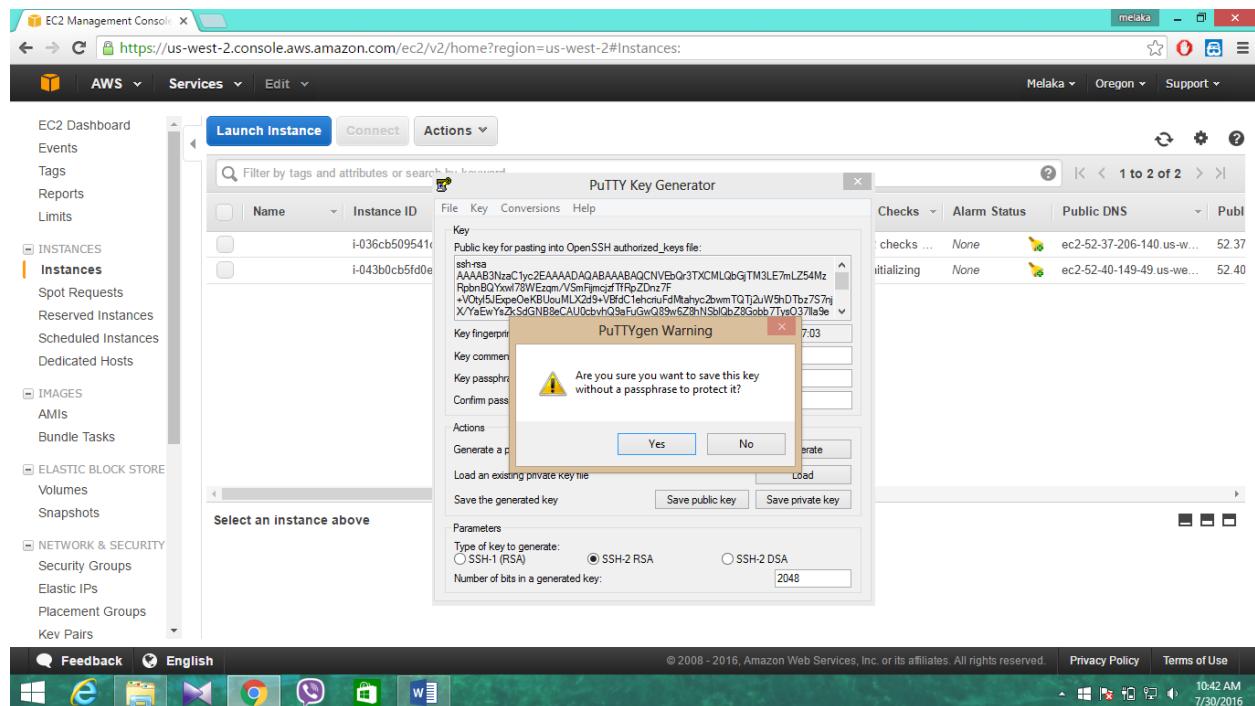
The screenshot shows a web browser window with the URL [www.chiark.greenend.org.uk/~sgtatham/putty/download.html](http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html). The page title is "PuTTY Download Page". The main content area is titled "Binaries" and contains the following text: "The latest release version (beta 0.67)". It states: "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." Below this, there's a section for "For Windows on Intel x86" with a table of binary files:

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

Below the table, there's a note: "A ZIP file containing all the binaries (except PuTTYtel), and also the help files" followed by a link to "putty.zip". There's also a note about a Windows MSI installer package: "A Windows MSI installer package for everything except PuTTYtel" followed by a link to "putty-0.67-installer.msi". At the bottom, there's a note about a legacy Inno Setup installer: "Legacy Inno Setup installer. [Reportedly insecure!](#) Use with caution, if the MSI fails." followed by a link to "putty-0.67-installer.exe".

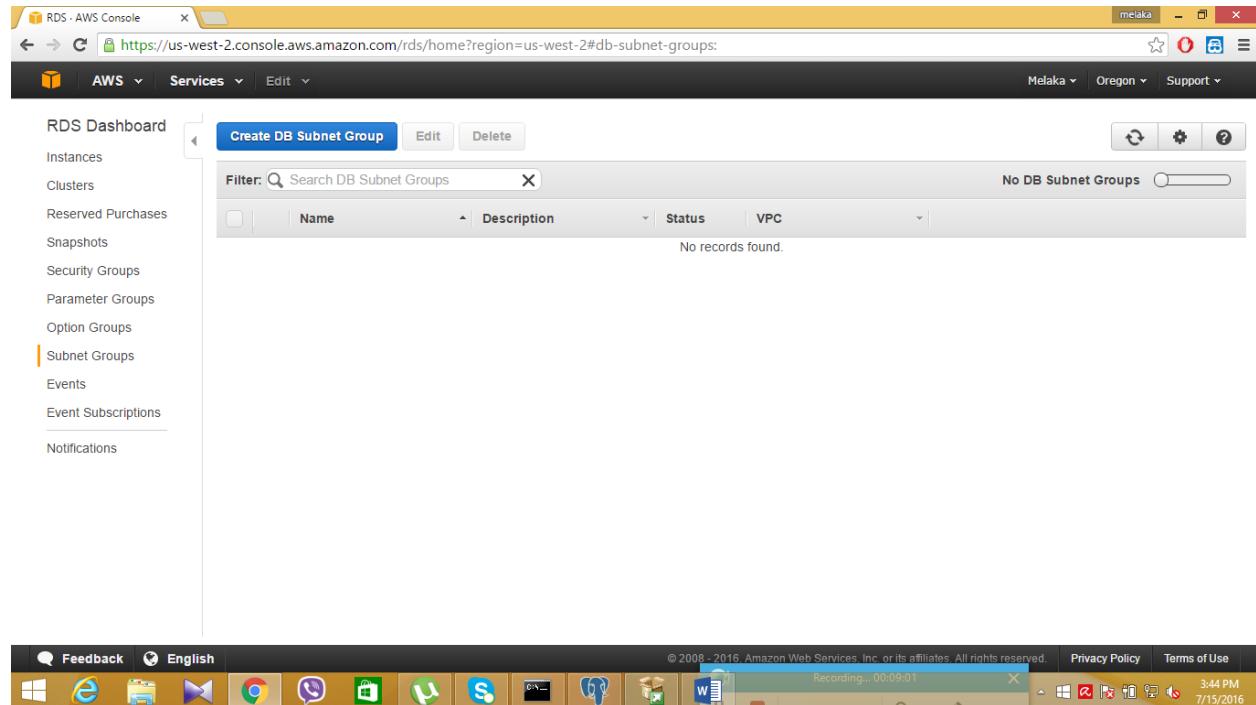






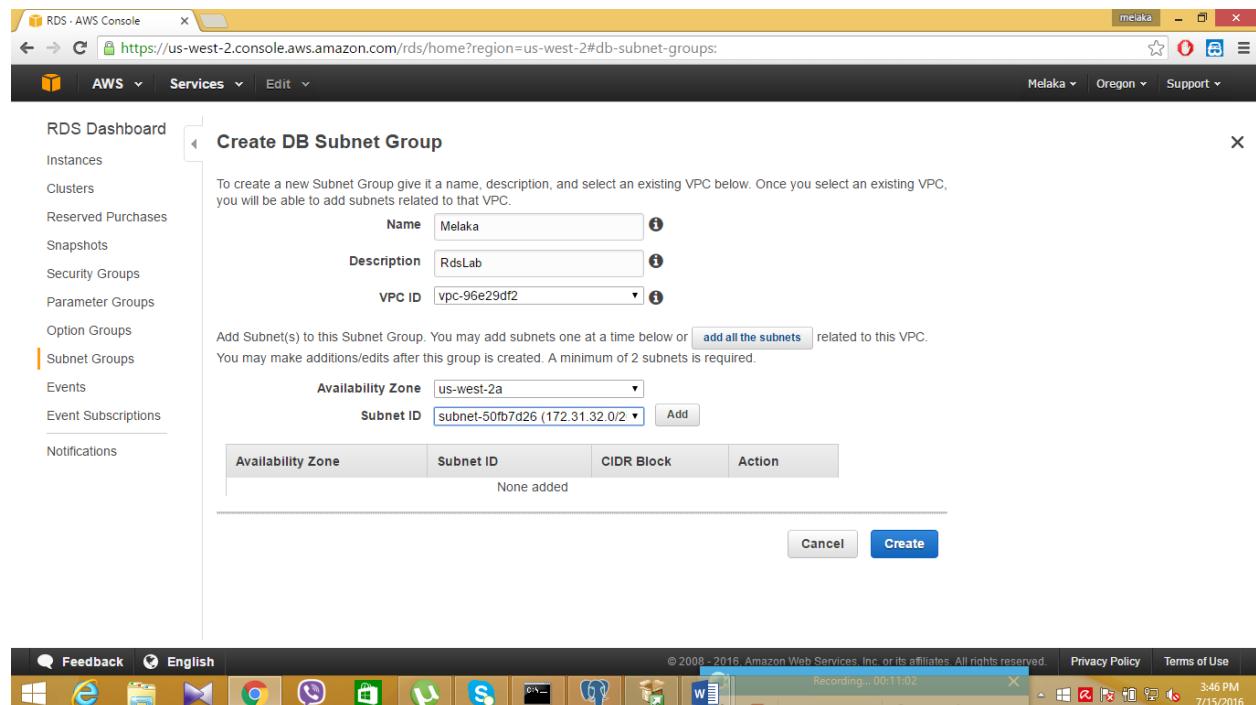
## DB Instant

Click “Create DB Subnet Group” Button



The screenshot shows the AWS RDS console interface. On the left, there is a navigation sidebar with various options like Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups (which is currently selected), Events, Event Subscriptions, and Notifications. The main content area has a heading "Create DB Subnet Group" with three buttons: "Create", "Edit", and "Delete". Below this is a search bar labeled "Filter: Search DB Subnet Groups" and a table header with columns "Name", "Description", "Status", and "VPC". A message at the bottom of the table says "No records found." At the bottom of the page, there is a standard Windows taskbar with icons for various applications.

## Create DB Subnet



The screenshot shows the "Create DB Subnet Group" configuration dialog. It includes fields for "Name" (set to "Melaka"), "Description" (set to "RdsLab"), and "VPC ID" (set to "vpc-96e29df2"). Below these, instructions say "Add Subnet(s) to this Subnet Group. You may add subnets one at a time below or [add all the subnets](#) related to this VPC." There is a table with columns "Availability Zone", "Subnet ID", "CIDR Block", and "Action". Under "Availability Zone", "us-west-2a" is selected. Under "Subnet ID", "subnet-50fb7d26 (172.31.32.0/2)" is listed with an "Add" button next to it. At the bottom right are "Cancel" and "Create" buttons. The bottom of the screen shows a Windows taskbar with various application icons.

RDS - AWS Console melaka

[https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#db-subnet-groups:](#)

AWS Services Edit Melaka Oregon Support

**Create DB Subnet Group**

To create a new Subnet Group give it a name, description, and select an existing VPC below. Once you select an existing VPC, you will be able to add subnets related to that VPC.

Name	Melaka	<small>i</small>
Description	RdsLab	<small>i</small>
VPC ID	vpc-96e29df2	<small>i</small>

Add Subnet(s) to this Subnet Group. You may add subnets one at a time below or [add all the subnets](#) related to this VPC. You may make additions/edits after this group is created. A minimum of 2 subnets is required.

Availability Zone	us-west-2a	<small>▼</small>
Subnet ID	subnet-50fb7d26 (172.31.32.0/2)	<small>▼</small>
<a href="#">Add</a>		

Availability Zone	Subnet ID	CIDR Block	Action
us-west-2a	subnet-50fb7d26	172.31.32.0/20	<a href="#">Remove</a>

[Cancel](#) [Create](#)

RDS - AWS Console melaka

[https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#db-subnet-groups:](#)

AWS Services Edit Melaka Oregon Support

**Create DB Subnet Group** [Edit](#) [Delete](#)

**Filter:**  Search DB Subnet Groups [X](#)

<input type="checkbox"/>	Name	Description	Status	VPC
No records found.				

RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:

AWS Services Edit Melaka Oregon Support

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 MySQL  
 Recommended Use Multi-AZ Deployment and Provisioned IOPS Storage as defaults for high availability and fast, consistent performance.

MySQL 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

RDS - AWS Console

Feedback English

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:

AWS Services Edit Melaka Oregon Support

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.](#)

**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

**Warning** Provisioning less than 100 GB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon

Feedback English

Recording... 00:16:10 3:51 PM 7/15/2016

Feedback English

Recording... 00:16:36 3:52 PM 7/15/2016

RDS - AWS Console

DB Instance using the RDS Instance Cost Calculator.

DB Instance Class: db.m1.small — 1 vCPU, 1.7 GB RAM

Multi-AZ Deployment: - Select One -

Storage Type: General Purpose (SSD)

Allocated Storage\*: 5 GB

**Warning:** Provisioning less than 100 GB of General Purpose (SSD) storage for high throughput workloads could result in higher latencies upon exhaustion of the initial General Purpose (SSD) IO credit balance. [Click here](#) for more details.

**Settings**

DB Instance Identifier: rds\_lab

Master Username\*: melaka.gamage@gmail.com

Master Password\*: .....  
Retype the value you specified for Master Password.

Confirm Password\*: .....

\* Required

Cancel Previous Next Step

RDS - AWS Console

Feedback English

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Recording... 00:18:39 3:54 PM 7/15/2016 melaka

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-96e29df2)

Subnet Group:

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

Option Group: default:mysq5-6

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Recording... 00:23:33 3:59 PM 7/15/2016

RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#launch-dbinstance:ct=gettingStarted:

AWS Services Edit Melaka 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**

RDS - AWS Console

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

AWS Services Edit Melaka Oregon Support

RDS Dashboard

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

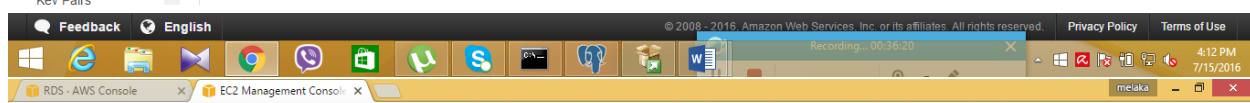
Launch DB Instance Show Monitoring Instance Actions

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

	Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication Role	E
0	MySQL	rdslab	creating			None	db.m1.small	vpc-96e29df2	No		

Create Security Group					
Actions					
<input type="text"/> Filter by tags and attributes or search by keyword					
Name	Group ID	Group Name	VPC ID	Description	
sg-20ae3546		default	vpc-96e29df2	default VPC security group	
sg-9f81e4f9		launch-wizard-2	vpc-96e29df2	launch-wizard-2 created 2016-07-06T09:43:40.937+05:30	
sg-c3b0d5a5		launch-wizard-1	vpc-96e29df2	launch-wizard-1 created 2016-07-06T09:02:57.669+05:30	

Select a security group above



### Create Security Group

Security group name: Mela

Description: esbpilab3

VPC: vpc-96e29df2 (172.31.0.0/16) \*

\* denotes default VPC

Security group rules:

Inbound    Outbound

Type	Protocol	Port Range	Source
MySQL/Aurora	TCP	3306	Custom CIDR, IP or Security Group

Add Rule

Cancel    Create

Screenshot of the AWS EC2 Management Console showing the list of Security Groups.

The left sidebar shows the navigation menu:

- 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

The main content area displays the "Create Security Group" button and a table of existing security groups:

Name	Group ID	Group Name	VPC ID	Description
sg-20ae3546		default	vpc-96e29df2	default VPC security group
sg-9f81e4f9		launch-wizard-2	vpc-96e29df2	launch-wizard-2 created 2016-07-06T09:43:40.937+05:30
sg-9f85f5f9		Mela	vpc-96e29df2	esbpillab3
sg-c3b0d5a5		launch-wizard-1	vpc-96e29df2	launch-wizard-1 created 2016-07-06T09:02:57.669+05:30

A message at the bottom says "Select a security group above".

Below this, another screenshot shows the same interface with the "Mela" security group selected (highlighted with a blue border). The table now shows:

Name	Group ID	Group Name	VPC ID	Description
sg-20ae3546		default	vpc-96e29df2	default VPC security group
sg-9f81e4f9		launch-wizard-2	vpc-96e29df2	launch-wizard-2 created 2016-07-06T09:43:40.937+05:30
<b>sg-9f85f5f9</b>		<b>Mela</b>	vpc-96e29df2	<b>esbpillab3</b>
sg-c3b0d5a5		launch-wizard-1	vpc-96e29df2	launch-wizard-1 created 2016-07-06T09:02:57.669+05:30

The message "Select a security group above" is no longer present.

The bottom part of the screenshot shows the Windows taskbar with various icons and the system tray indicating the recording is 4:16 PM on 7/15/2016.

RDS - AWS Console EC2 Management Console

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

AWS Services Edit Melaka 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 Key Pairs

Feedback English

RDS - AWS Console

https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#db-subnet-groups:

AWS Services Edit Melaka Oregon Support

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

Create DB Subnet Group Edit Delete

Filter: Search DB Subnet Groups X No DB Subnet Groups

Name	Description	Status	VPC
No records found.			

Feedback English

## Windows Instant

Click EC2

The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with links for AWS, Services, and Edit. On the right side of the bar, there are dropdown menus for Melaka, Oregon, and Support, along with a 'Learn more' link. Below the navigation bar is a search bar containing the URL <https://us-west-2.console.aws.amazon.com/console/home?region=us-west-2>. The main content area is titled "Amazon Web Services" and lists various services under several categories:

- Compute**: EC2 (Virtual Servers in the Cloud), EC2 Container Service (Run and Manage Docker Containers), Elastic Beanstalk (Run and Manage Web Apps), Lambda (Run Code in Response to Events).
- Storage & Content Delivery**: S3 (Scalable Storage in the Cloud), CloudFront (Global Content Delivery Network), Elastic File System (Fully Managed File System for EC2), Glacier (Archive Storage in the Cloud), Snowball (Large Scale Data Transport), Storage Gateway (Hybrid Storage Integration).
- Database**: RDS (Managed Relational Database Service), DynamoDB (Managed NoSQL Database), ElastiCache (In-Memory Cache).
- Developer Tools**: CodeCommit (Store Code in Private Git Repositories), CodeDeploy (Automate Code Deployments), CodePipeline (Release Software using Continuous Delivery).
- Management Tools**: CloudWatch (Monitor Resources and Applications), CloudFormation (Create and Manage Resources with Templates), CloudTrail (Track User Activity and API Usage), Config (Track Resource Inventory and Changes), OpsWorks (Automate Operations with Chef), Service Catalog (Create and Use Standardized Products), Trusted Advisor (Optimize Performance and Security).
- Security & Identity**: Identity & Access Management (Manage User Access and Encryption Keys), Directory Service (Host and Manage Active Directory), Inspector (Analyze Application Security).
- Internet of Things**: AWS IoT (Connect Devices to the Cloud).
- Game Development**: GameLift (Deploy and Scale Session-based Multiplayer Games).
- Mobile Services**: Mobile Hub (Build, Test, and Monitor Mobile Apps), Cognito (User Identity and App Data Synchronization), Device Farm (Test Android, iOS, and Web Apps on Real Devices in the Cloud), Mobile Analytics (Collect, View and Export App Analytics), SNS (Push Notification Service).
- Application Services**: API Gateway (Build, Deploy and Manage APIs), AppStream (Low Latency Application Streaming), CloudSearch (Managed Search Service), Elastic Transcoder (Easy-to-Use Scalable Media Transcoding), SES (Email Sending and Receiving Service).
- Resource Groups**: A resource group is described as a collection of resources that share one or more tags. It includes a "Create a Group" button and a "Tag Editor".
- Additional Resources**: Getting Started (Read our documentation or view our training to learn more about AWS), AWS Console Mobile App (View your resources on the go with our AWS Console mobile app, available from Amazon Appstore, Google Play, or iTunes), AWS Marketplace (Find and buy software, launch with 1-Click and pay by the hour), AWS re:Invent Announcements (Explore the next generation of AWS cloud capabilities. See what's new), and Service Health.

At the bottom of the screen, there's a taskbar with icons for various Windows applications like File Explorer, Task View, and Start. The status bar shows the time as 5:35 PM and the date as 7/30/2016.

## Click “Launch Instance”

The screenshot shows the AWS EC2 Management Console dashboard. On the left, there's a sidebar with links for EC2 Dashboard, Instances, AMIs, and Network & Security. The main area displays "Resources" and "Account Attributes". Under Resources, it shows 2 Running Instances, 0 Dedicated Hosts, 2 Volumes, 1 Key Pairs, and 0 Placement Groups. Under Account Attributes, it lists Supported Platforms (VPC), Default VPC (vpc-96e29df2), and Resource ID length management. There are also links for Getting Started Guide, Documentation, All EC2 Resources, Forums, Pricing, and Contact Us. A "Create Instance" section with a "Launch Instance" button is also visible.

## Click “Review and Launch”

The screenshot shows the "Step 2: Choose an Instance Type" page of the EC2 Launch Instance Wizard. It lists various instance types under "Current generation": t2.nano, t2.micro (Free tier eligible), t2.small, t2.medium, t2.large, and m4.large. The m4.large instance is currently selected. The page includes a "Show/Hide Columns" button and navigation buttons for "Cancel", "Previous", "Review and Launch", and "Next: Configure Instance Details".

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
0	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
0	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate
0	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
0	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
0	General purpose	t2.large	2	8	EBS only	-	Low to Moderate
0	General purpose	m4.large	2	8	EBS only	Yes	Moderate

EC2 Management Console melaka

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

AWS Services Edit Melaka Oregon Support

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

**Step 7: Review Instance Launch**  
**Microsoft Windows Server 2012 with SQL Server Standard - ami-75d91b15**  
 Microsoft Windows Server 2012 Standard edition, 64-bit architecture. Microsoft SQL Server 2012 Standard edition. [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
m4.large	6.5	2	8	EBS only	Yes	Moderate

**Security Groups** Edit security groups

**Security group name:** launch-wizard-4  
**Description:** launch-wizard-4 created 2016-07-30T18:21:13.612+05:30

Type (i)	Protocol (i)	Port Range (i)	Source (i)
MS SQL	TCP	1433	0.0.0.0/0
RDP	TCP	3389	0.0.0.0/0

**Cancel Previous Launch**

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## Generating Key Pair

EC2 Management Console melaka

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

AWS Services Edit Melaka Oregon Support

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

**Step 7: Review Instance Launch**  
**Microsoft Windows Server 2012 Standard Edition - ami-75d91b15**  
 Microsoft Windows Server 2012 Standard edition, 64-bit architecture. Microsoft SQL Server 2012 Standard edition. [English]  
Root Device Type: ebs Virtualization type: hvm

**Instance Type** Edit instance type

Instance Type	ECUs	vCPUs
m4.large	6.5	2

**Security Groups** Edit security groups

**Security group name:** launch-wizard-4  
**Description:** launch-wizard-4 created 2016-07-30T18:21:13.612+05:30

Type (i)	Protocol (i)	Port Range (i)	Source (i)
MS SQL	TCP	1433	0.0.0.0/0
RDP	TCP	3389	0.0.0.0/0

**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](#).

Choose an existing key pair Select a key pair   
 I acknowledge that I have access to the selected private key file (slit.pem), and that without this file, I won't be able to log into my instance.

**Cancel Launch Instances**

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The screenshot shows the EC2 Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The top navigation bar includes AWS, Services, Edit, Melaka, Oregon, and Support. A green box at the top left says "Your instances are now launching" with the instance ID i-0b5aa6e901dfa7f81 and a "View launch log" link.

## Launch Status

A blue box contains the message "Get notified of estimated charges" with a sub-instruction: "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](#)
- [Amazon EC2: Microsoft Windows Guide](#)
- [Learn about AWS Free Usage Tier](#)
- [Amazon EC2: Discussion Forum](#)

While your instances are launching you can also

The browser toolbar includes Feedback, English, Back, Forward, Stop, Refresh, Home, and a search bar. The status bar shows 6:22 PM and 7/30/2016.

The screenshot shows the EC2 Management Console with the URL <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#Instances>. The left sidebar has sections for EC2 Dashboard, Events, Tags, Reports, Limits, Instances (selected), 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, Kev Pairs, and a feedback link. The main content area shows a table of instances:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Publ
	i-036cb509541c6c852	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-52-37-206-140.us-w...	52.37
	i-043b0cb5fd0e7f5e8	t2.micro	us-west-2a	running	2/2 checks ...	None	ec2-52-40-149-49.us-w...	52.40
	i-0b5aa6e901dfa7f81	m4.large	us-west-2c	running	2/2 checks ...	None	ec2-52-42-158-98.us-w...	52.42

Below the table, a message says "Select an instance above". The browser toolbar and status bar are visible at the bottom.

