

Sri Lanka Institute of Information Technology

4th Year – 2nd Semester

ESBII – 2016

AWS INSTANCES SUMMARY

Submitted By: IT13405328

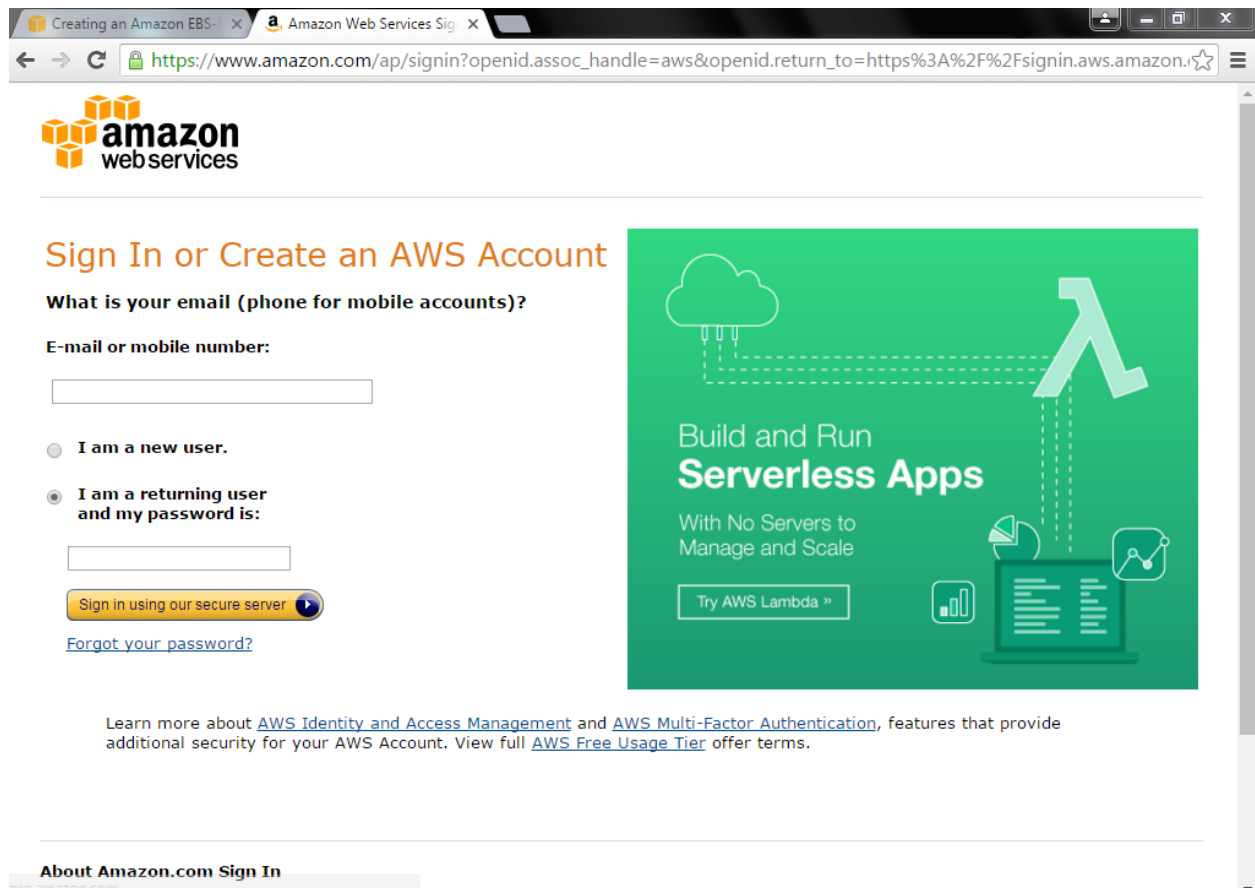
Perera K.D.R.S

Creating an Amazon EBS-Backed Windows AMI

Amazon Elastic Compute Cloud (Amazon EC2) provides resizable computing capacity in the Amazon Web Services (AWS) cloud. Using Amazon EC2 eliminates your need to invest in hardware up front, so you can develop and deploy applications faster. You can use Amazon EC2 to launch as many or as few virtual servers as you need, configure security and networking, and manage storage.

Steps creating an Amazon EBS-Backed Windows AMI


Step 01: Login with AWS account



The screenshot shows the Amazon Web Services sign-in page in a web browser. The browser's address bar displays the URL: https://www.amazon.com/ap/signin?openid.assoc_handle=aws&openid.return_to=https%3A%2F%2Fsignin.aws.amazon.com. The page features the Amazon Web Services logo at the top left. Below the logo, the heading "Sign In or Create an AWS Account" is displayed. Underneath, the text "What is your email (phone for mobile accounts)?" is followed by a label "E-mail or mobile number:" and an empty text input field. Two radio buttons are present: "I am a new user." and "I am a returning user and my password is:". The "I am a returning user" option is selected. Below this is another empty text input field for the password. A yellow button with a play icon and the text "Sign in using our secure server" is located below the password field. A blue link "Forgot your password?" is positioned to the left of the button. To the right of the sign-in form is a green promotional banner for "Build and Run Serverless Apps" with the subtext "With No Servers to Manage and Scale" and a "Try AWS Lambda »" button. At the bottom of the page, there is a link to "Learn more about AWS Identity and Access Management and AWS Multi-Factor Authentication" and a link to "View full AWS Free Usage Tier offer terms." The footer contains the text "About Amazon.com Sign In" and the URL "aws.amazon.com".

Creating an Amazon EBS- x Amazon Web Services Sig x

← → ↻ https://www.amazon.com/ap/signin?openid.assoc_handle=aws&openid.return_to=https%3A%2F%2Fsignin.aws.amazon.com ☆

 **amazon**
web services

Sign In or Create an AWS Account

What is your email (phone for mobile accounts)?


E-mail or mobile number:

☐ I am a new user.

☒ I am a returning user and my password is:

[Sign in using our secure server](#)

[Forgot your password?](#)



Build and Run
Serverless Apps

With No Servers to
Manage and Scale

[Try AWS Lambda »](#)

Learn more about [AWS Identity and Access Management](#) and [AWS Multi-Factor Authentication](#), features that provide additional security for your AWS Account. View full [AWS Free Usage Tier](#) offer terms.

About Amazon.com Sign In
aws.amazon.com

Step 2: From AWS Services select COMPUTE -> EC2

The screenshot shows the AWS Management Console interface. At the top, there's a 'Quick Starts' section with a 'HIDE' button. Below it are six quick start cards: 'Build a web app', 'Launch a virtual machine', 'Back up your files', 'Build a backend for your mobile app', 'Host a static website', and 'Analyze big data'. Each card has an icon and a 'Learn More' link. Below the quick starts is the 'AWS Services' section with a 'SHOW CATEGORIES' button. The services are organized into categories: COMPUTE (EC2, EC2 Container Service, Elastic Beanstalk, Lambda), STORAGE & CONTENT DELIVERY (S3, CloudFront, Elastic File System, Glacier, Snowball, Storage Gateway), DATABASE (RDS, DynamoDB), DEVELOPER TOOLS (CodeCommit, CodeDeploy, CodePipeline), MANAGEMENT TOOLS (CloudWatch, CloudFormation, CloudTrail, Config, OpsWorks, Service Catalog, Trusted Advisor), SECURITY & IDENTITY (IAM, Directory Service, Inspector, WAF), INTERNET OF THINGS (AWS IoT), GAME DEVELOPMENT (GameLift), MOBILE SERVICES (Mobile Hub, Cognito, Device Farm, Mobile Analytics, SNS), and APPLICATION SERVICES (API Gateway, AppStream, CloudSearch, Elastic Transcoder, SES). On the right side, there are four informational boxes: 'GETTING STARTED' with links to documentation and training, 'AWS CONSOLE MOBILE APP' with information about the mobile app, 'AWS MARKETPLACE' with information about buying software, and 'FEEDBACK' with a link to provide feedback. At the bottom right, there's a 'Service Health' section with a 'View Dashboard' link and a green checkmark indicating that all services are operating normally, updated on Jul 15 2016 18:21:00 GMT+0530.

Quick Starts HIDE

- 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**
 - [EC2](#)
 - [EC2 Container Service](#)
 - [Elastic Beanstalk](#)
 - [Lambda](#)
- STORAGE & CONTENT DELIVERY**
 - [S3](#)
 - [CloudFront](#)
 - [Elastic File System](#)
 - [Glacier](#)
 - [Snowball](#)
 - [Storage Gateway](#)
- DATABASE**
 - [RDS](#)
 - [DynamoDB](#)
- DEVELOPER TOOLS**
 - [CodeCommit](#)
 - [CodeDeploy](#)
 - [CodePipeline](#)
- MANAGEMENT TOOLS**
 - [CloudWatch](#)
 - [CloudFormation](#)
 - [CloudTrail](#)
 - [Config](#)
 - [OpsWorks](#)
 - [Service Catalog](#)
 - [Trusted Advisor](#)
- SECURITY & IDENTITY**
 - [IAM](#)
 - [Directory Service](#)
 - [Inspector](#)
 - [WAF](#)
- INTERNET OF THINGS**
 - [AWS IoT](#)
- GAME DEVELOPMENT**
 - [GameLift](#)
- MOBILE SERVICES**
 - [Mobile Hub](#)
 - [Cognito](#)
 - [Device Farm](#)
 - [Mobile Analytics](#)
 - [SNS](#)
- APPLICATION SERVICES**
 - [API Gateway](#)
 - [AppStream](#)
 - [CloudSearch](#)
 - [Elastic Transcoder](#)
 - [SES](#)

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.

FEEDBACK
Let us know what you think about new Console Home.

Service Health [View Dashboard](#)
 All services are operating normally.
Updated Jul 15 2016 18:21:00 GMT+0530

Step 3: EC2 Dashboard select Launch Instance in order to create a windows instance

The screenshot shows the AWS EC2 Dashboard. On the left is a navigation menu with sections: 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), and NETWORK & SECURITY (Security Groups, Elastic IPs, Placement Groups, Key Pairs, Network Interfaces). The main content area is titled 'Resources' and shows a summary of EC2 resources in the US West (Oregon) region: 0 Running Instances, 0 Elastic IPs, 0 Dedicated Hosts, 0 Snapshots, 0 Volumes, 0 Load Balancers, 2 Key Pairs, 3 Security Groups, and 0 Placement Groups. Below this is a 'Create Instance' section with a 'Launch Instance' button. A note states: 'Your Instances will launch in the US West (Oregon) region'. To the right of the 'Create Instance' section is a 'Service Health' section showing 'Service Status: US West (Oregon):' with a green checkmark and 'No events'. Further right is an 'Account Attributes' section with links to 'Supported Platforms', 'Default VPC', 'Resource ID length management', 'Additional Information', 'Getting Started Guide', 'Documentation', 'All EC2 Resources', 'Forums', 'Pricing', and 'Contact Us'. At the bottom right, there's a section for 'AWS Marketplace' with a link to 'Find free software trial products in the AWS Marketplace from the EC2 Launch Wizard' and a link to 'Or try these popular AMIs'.

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
 - Network Interfaces

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
- 2 Key Pairs
- 3 Security Groups
- 0 Placement Groups

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):**

US West (Oregon): No events

Account Attributes

- Supported Platforms**
 - VPC
- Default VPC**
 - vpc-aaf8bdce
- 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:

Step 4: Then select under Choose an Amazon Machine Image (AMI) select **Microsoft Windows Server 2012 R2 Base** - ami-8d0acfed



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

Step 1: Choose an Amazon Machine Image (AMI)

(SSD) volume type. Public Cloud, Advanced Systems Management, web and Scripting, and Legacy modules enabled.

Root device type: ebs Virtualization type: hvm

Cancel and Exit

 Ubuntu Free tier eligible	Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9abea4fb Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (http://www.ubuntu.com/cloud/services). Root device type: ebs Virtualization type: hvm	Select 64-bit
 Windows Free tier eligible	Microsoft Windows Server 2012 R2 Base - ami-8d0acfed Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English] Root device type: ebs Virtualization type: hvm	Select 64-bit

Step 5: Then under Choose an Instance Type select the highlighted one and select Review and Launch

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.

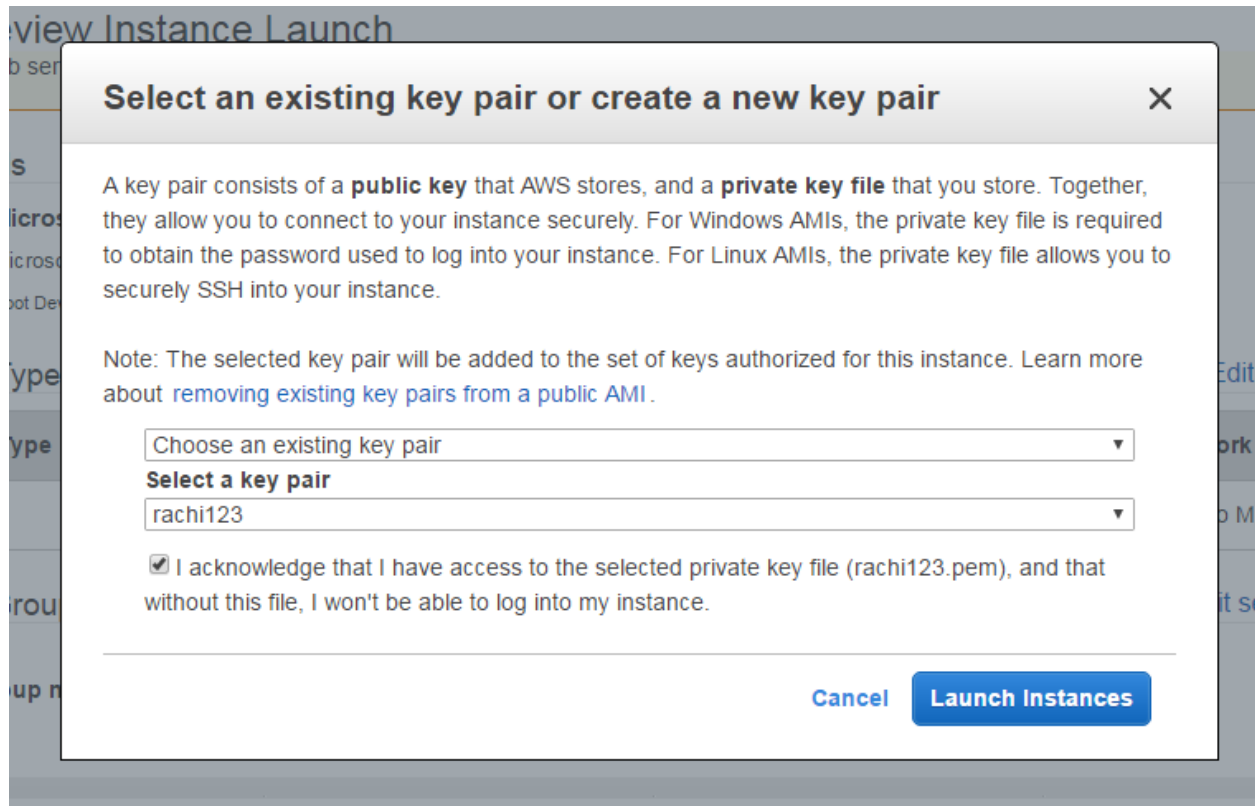
Filter by: All instance types Current generation Show/Hide Columns

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

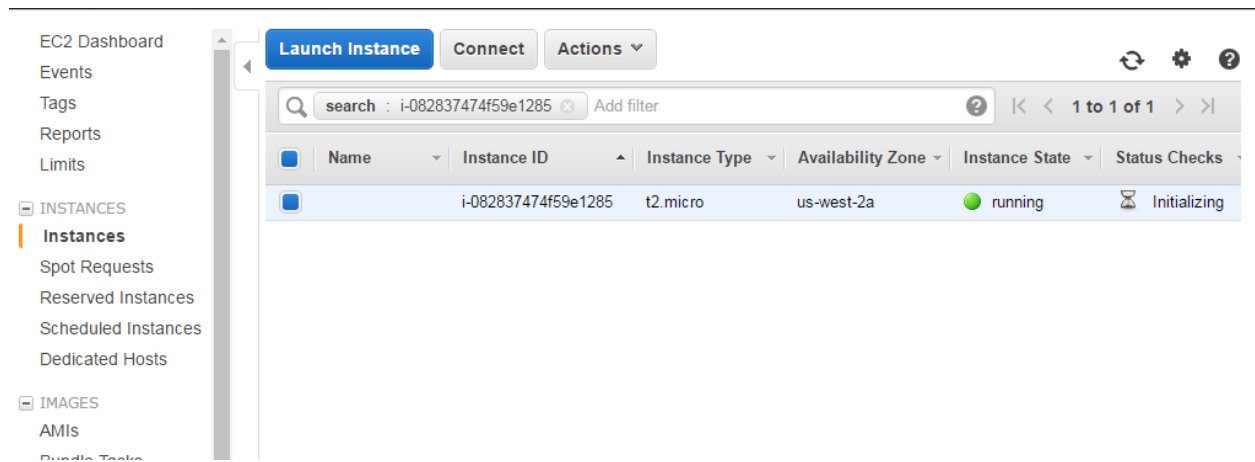
	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate
<input type="checkbox"/>	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

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

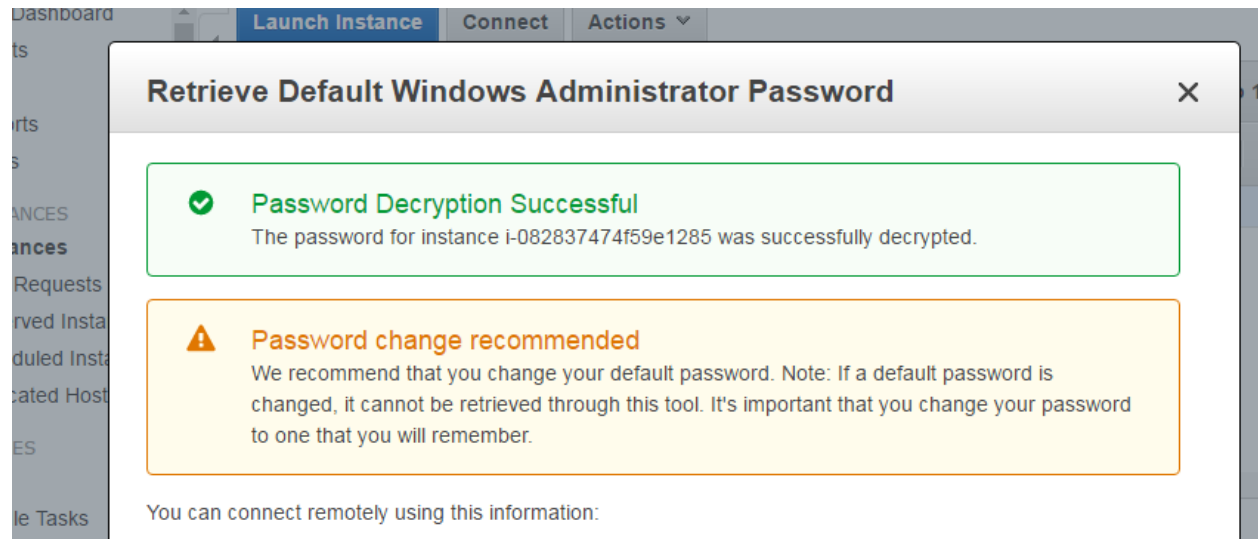
Step 6: Creating the key pair



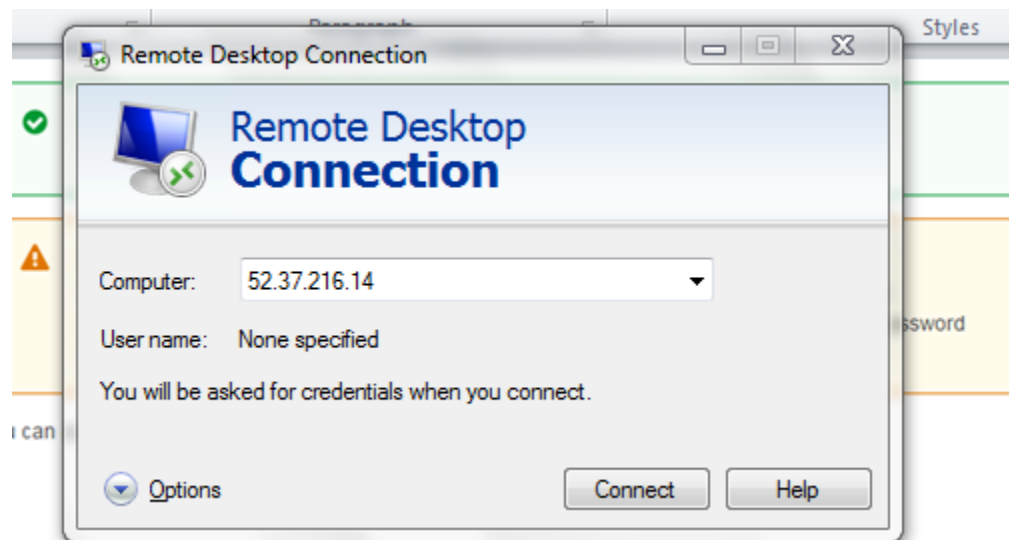
Step 7: Running instance



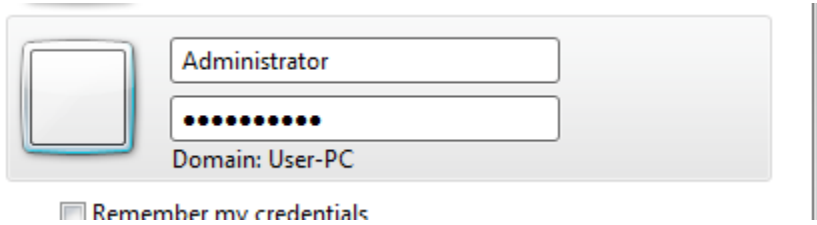
Step 8: Get windows password



Step 9: Accessing through Remote Desktop Connection. Give the Public IP

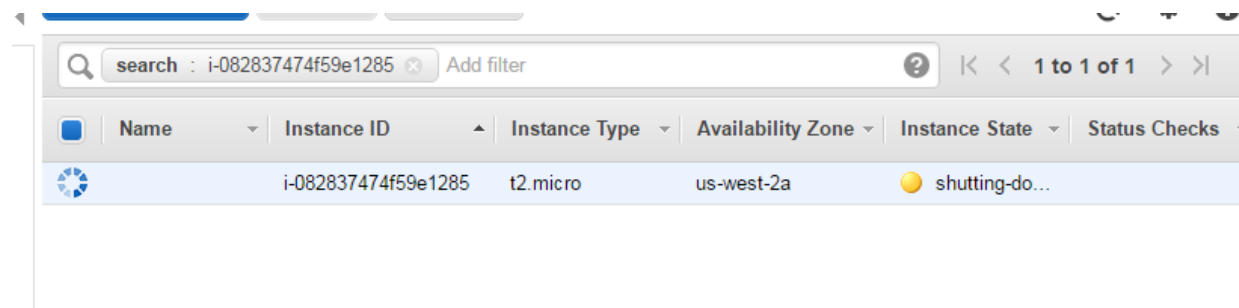


Step 10: Provide username and password for windows



A screenshot of a Windows login dialog box. It features a small icon of a computer monitor on the left. To the right, there are two text input fields: the top one contains the text "Administrator" and the bottom one contains a series of dots representing a password. Below these fields, it says "Domain: User-PC". At the bottom left, there is a checkbox labeled "Remember my credentials".

Step 11: After successfully installing the OS terminate the instance



A screenshot of the AWS Management Console showing a table of EC2 instances. The table has columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, and Status Checks. A single instance is listed with ID i-082837474f59e1285, type t2.micro, and state shutting-down.

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks
	i-082837474f59e1285	t2.micro	us-west-2a	shutting-do...	

Creating an Amazon EBS-Backed Linux AMI

To create an Amazon EBS-backed Linux AMI, start from an instance that you've launched from an existing Amazon EBS-backed Linux AMI. After you've customized the instance to suit your needs, create and register a new AMI, which you can use to launch new instances with these customizations.

Steps to create an amazon EBS- Based Linux AMI

Step 01: Login to AWS account



Sign In or Create an AWS Account

What is your email (phone for mobile accounts)?

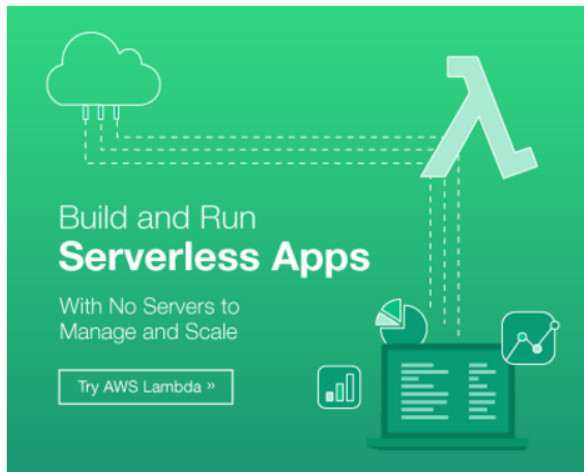
E-mail or mobile number:

☐ I am a new user.

☒ I am a returning user
and my password is:

Sign in using our secure server

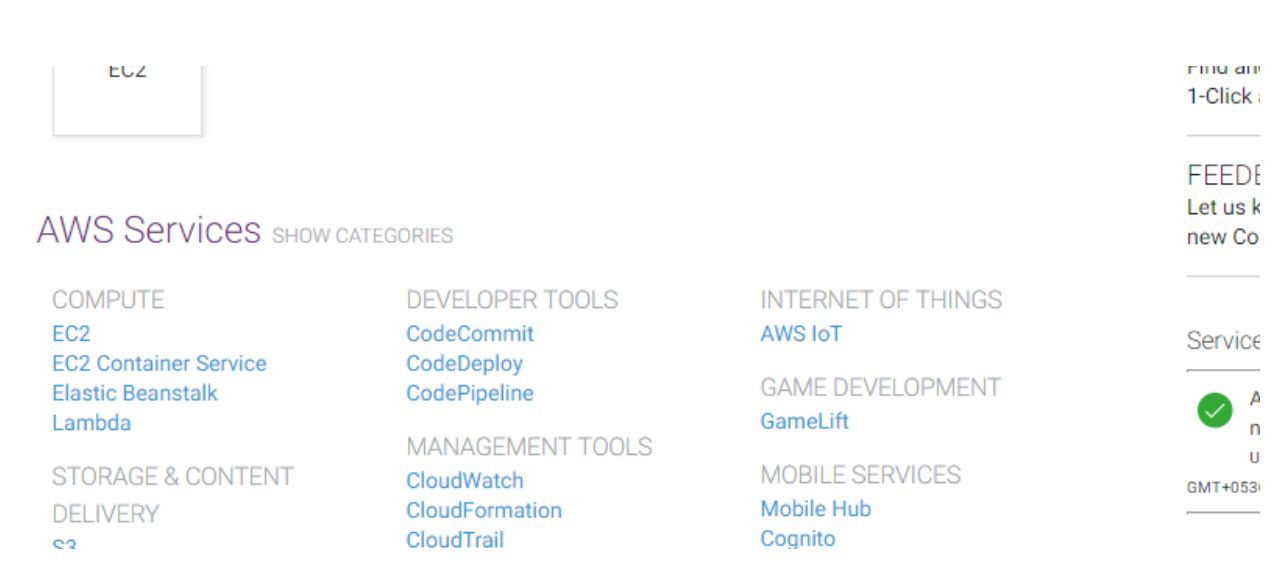
[Forgot your password?](#)



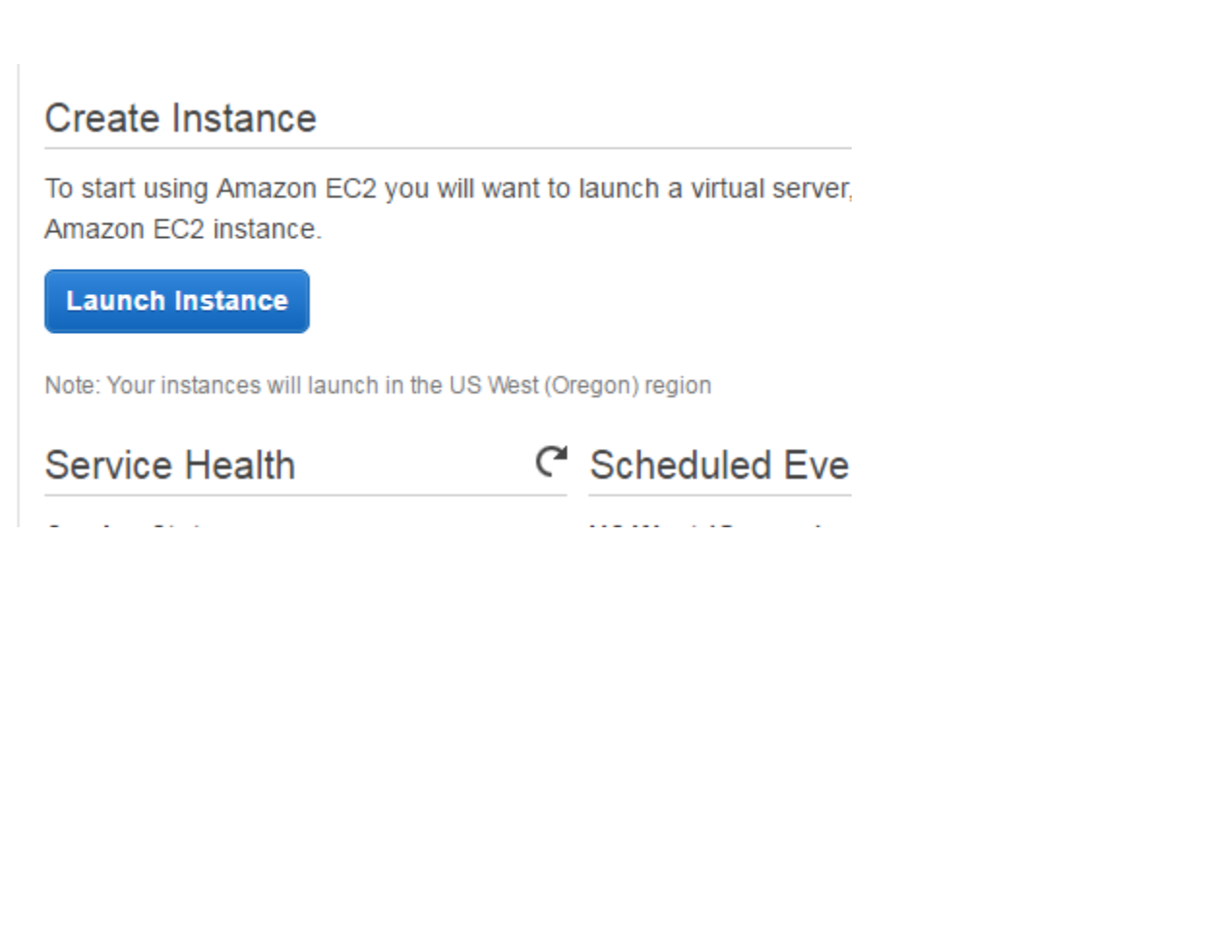
Learn more about [AWS Identity and Access Management](#) and [AWS Multi-Factor Authentication](#), features that provide additional security for your AWS Account. View full [AWS Free Usage Tier](#) offer terms.

About Amazon.com Sign In


Step 02: After login select COMPUTE -> EC2



Step 03: Then under create instance select Launch Instance



Step 04: Select **Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611** under Choose an Amazon Machine Image (AMI).

**Amazon Linux**
Free tier eligible

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

The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

Root device type: ebs Virtualization type: hvm

Select
64-bit

Step 05: Then under Choose an Instance Type select already selected one

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

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only

Cancel **Previous** **Review**


Feedback **English**

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Step 06: Under Review Instance Launch select Launch

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](#)

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

The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.

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

[Cancel](#) [Previous](#) [Launch](#)

[Feedback](#) [English](#) © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved. [Privacy Policy](#) [Terms of Use](#)

Step 07: Running instance

AWS Services **Edit** Diagrams 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

[Launch Instance](#) [Connect](#) [Actions](#)

Filter by tags and attributes or search by keyword

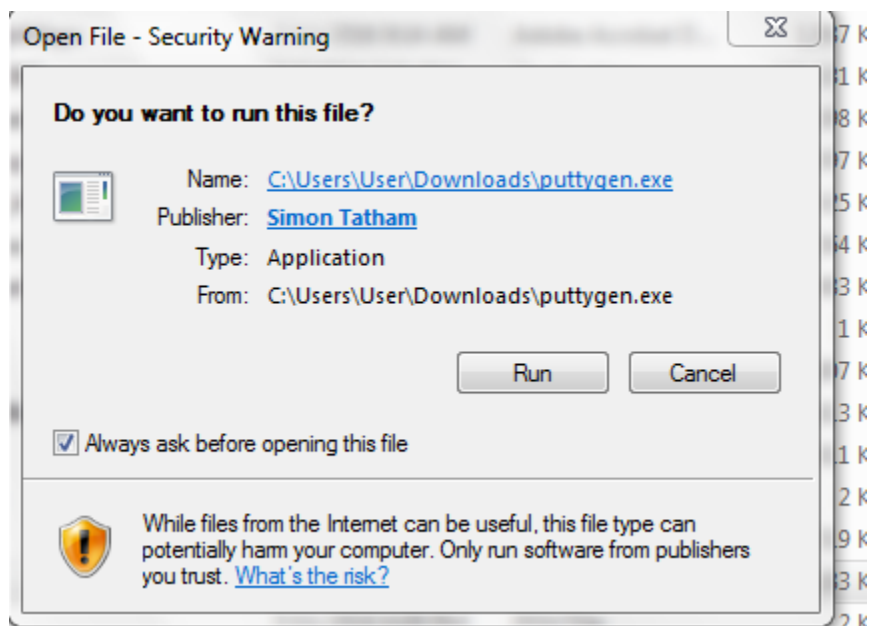
Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks
	i-01037c4ad374f03ee	t2.micro	us-west-2a	terminated	
	i-0ba7833d8805e044f	t2.micro	us-west-2a	running	2/2 checks ...

Block devices [/dev/xvda](#)

Monitoring	basic
Alarm status	None
Kernel ID	-
RAM disk ID	-
Placement group	-
Virtualization	hvm
Reservation	r-0855408a638067040
AMI launch index	0

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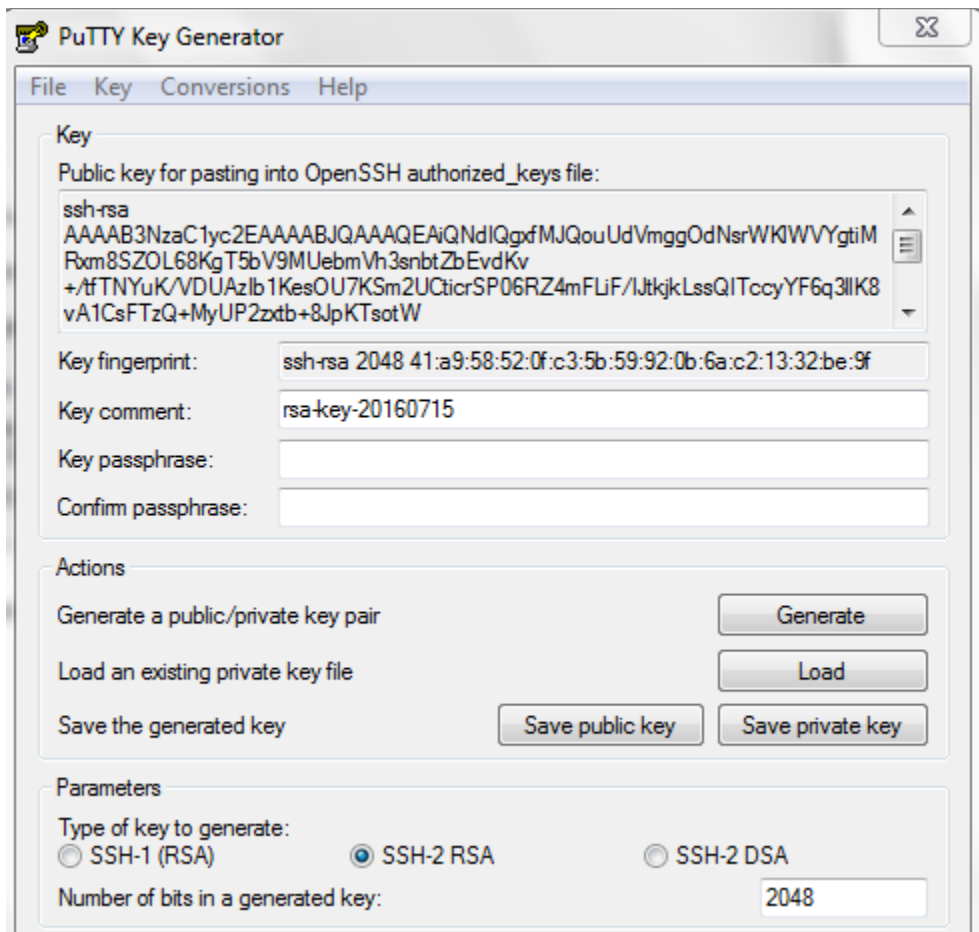
Step 08: Run Puttygen



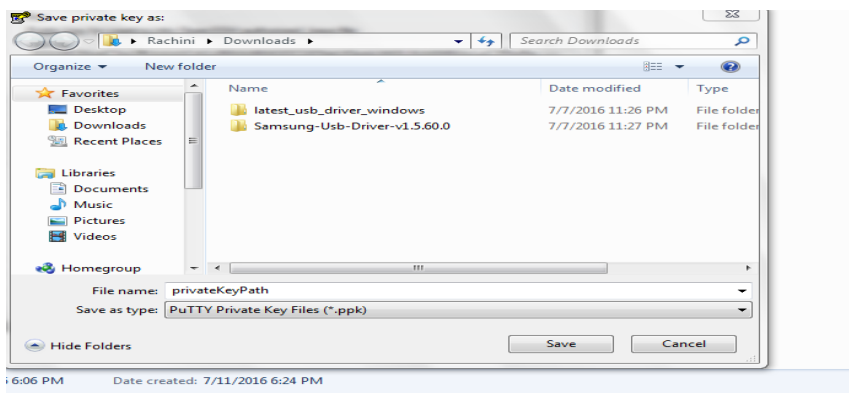
Step 09: Generate key



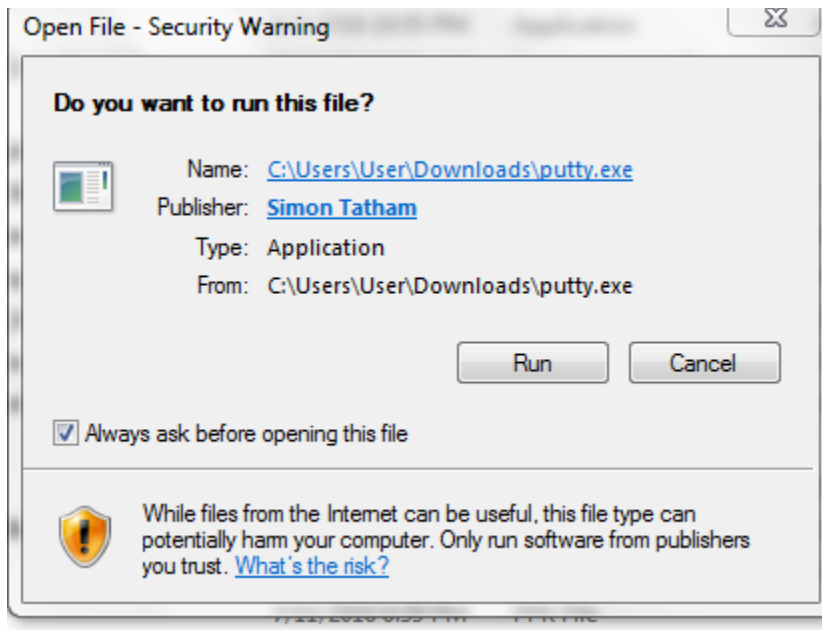
Step 10: Save private key



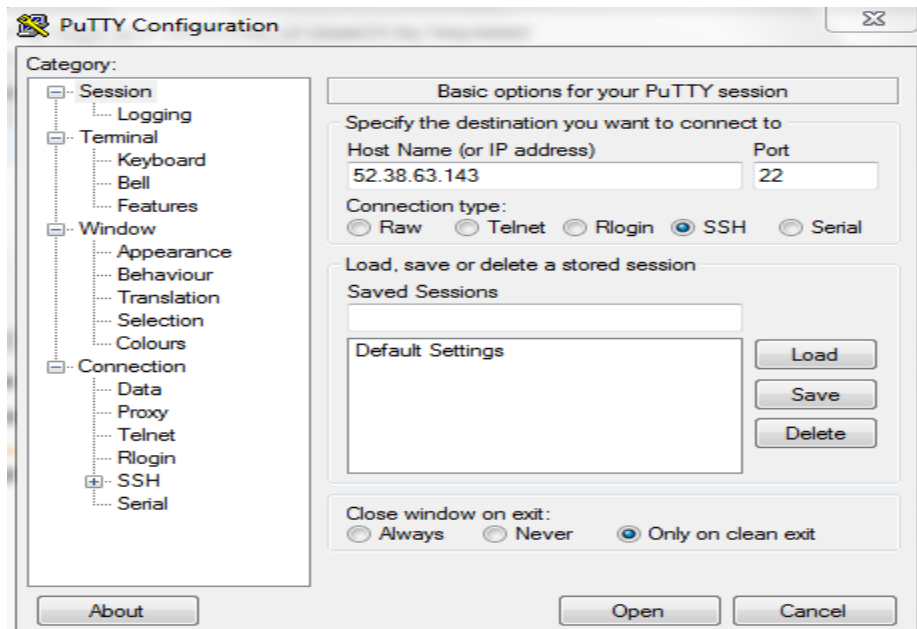
Step 11: Save the .ppk file



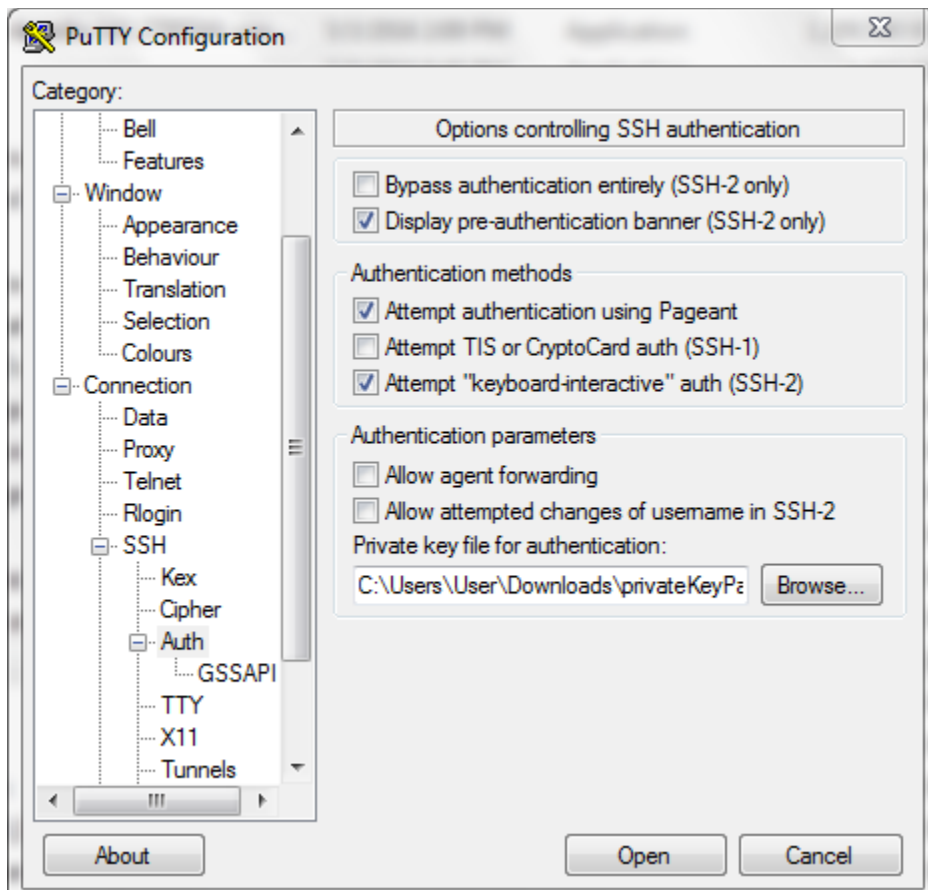
Step 12: Run Putty



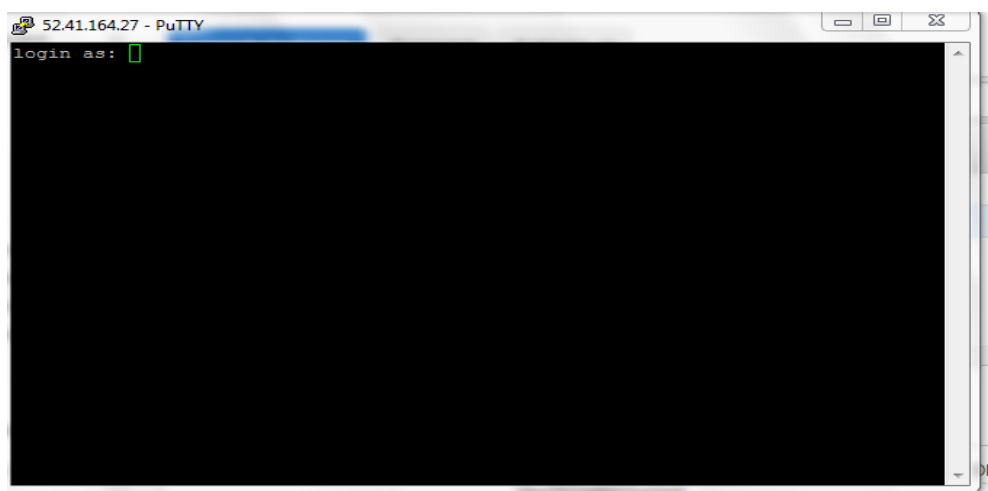
Step 13: Give public IP



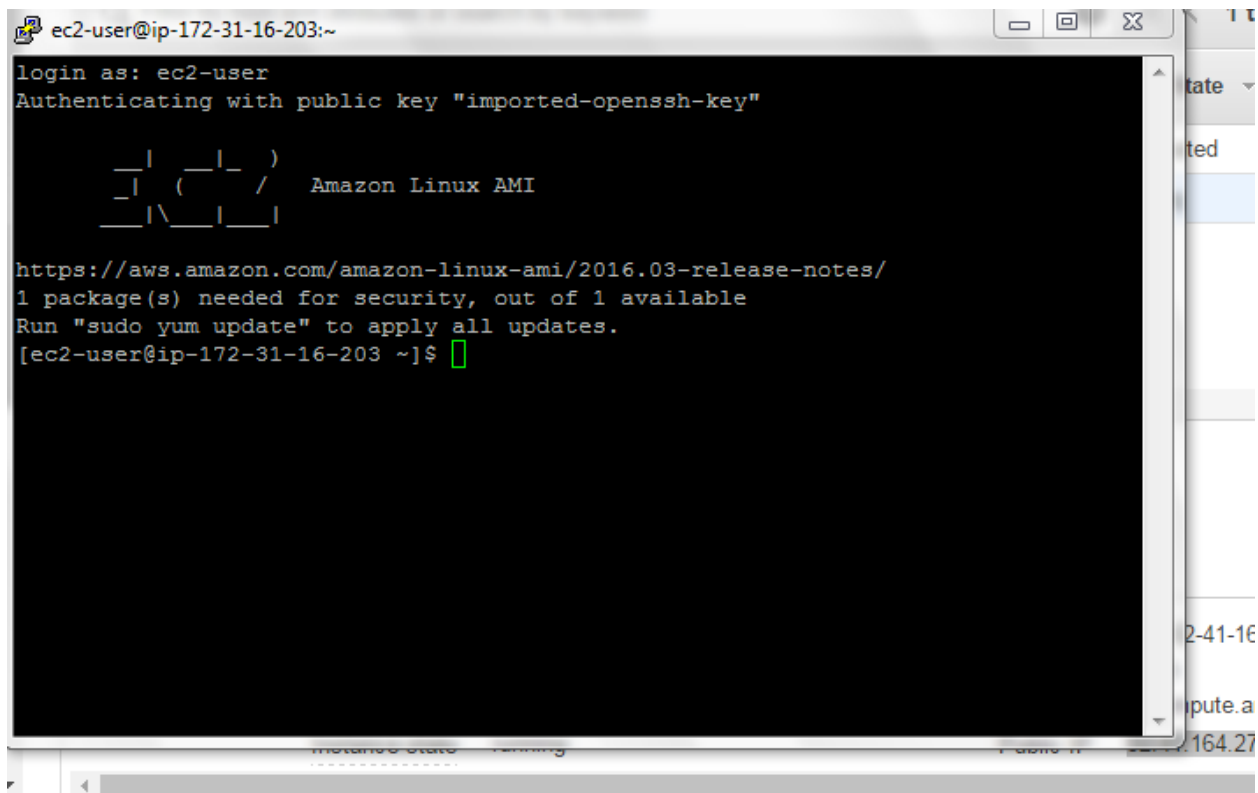
Step 14: Give private .ppk path



Step 15: Console Login

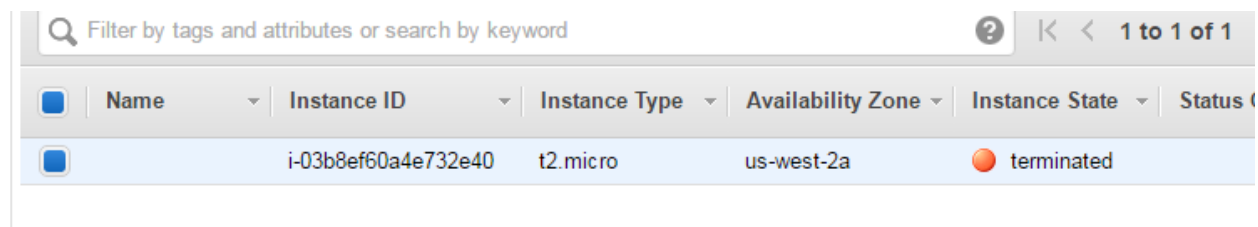




Step 16: Login as ec2-user

A terminal window titled 'ec2-user@ip-172-31-16-203:~' showing the login process for the 'ec2-user' on an Amazon Linux AMI. The terminal displays the login prompt, authentication with a public key, the Amazon Linux logo, a URL to release notes, and a message about security updates. The prompt is now '[ec2-user@ip-172-31-16-203 ~]\$' with a green cursor.

```
ec2-user@ip-172-31-16-203:~  
login as: ec2-user  
Authenticating with public key "imported-openssh-key"  
  
  _| _|_ )  
  _| ( _| /  Amazon Linux AMI  
  _|\_|_|_|  
  
https://aws.amazon.com/amazon-linux-ami/2016.03-release-notes/  
1 package(s) needed for security, out of 1 available  
Run "sudo yum update" to apply all updates.  
[ec2-user@ip-172-31-16-203 ~]$
```

Step 17: Terminate the instance

A screenshot of the AWS Management Console showing a list of EC2 instances. The table has columns for Name, Instance ID, Instance Type, Availability Zone, Instance State, and Status. One instance is listed with ID 'i-03b8ef60a4e732e40', type 't2.micro', and state 'terminated'.

	Name	Instance ID	Instance Type	Availability Zone	Instance State	Status
		i-03b8ef60a4e732e40	t2.micro	us-west-2a	 terminated	

Creating AWS RDS Instance

Amazon RDS Service

Amazon Relational Database Service (Amazon RDS) is a web service that makes it easier to set up, operate, and scale a relational database in the cloud. It provides cost-efficient, resizable capacity for an industry-standard relational database and manages common database administration tasks.

DB Instances

The basic building block of Amazon RDS is the DB instance. A DB instance is an isolated database environment in the cloud. A DB instance can contain multiple user-created databases, and can access it by using the same tools and applications that use with a stand-alone database instance. Can create and modify a DB instance by using the Amazon AWS command line interface, the Amazon RDS API, or the AWS Management Console.

Amazon RDS gives access to the capabilities of a MySQL, Maria DB, PostgreSQL, Microsoft SQL Server, Oracle, or Amazon Aurora database server. These capabilities mean that the code, applications, and tools already use today with existing databases work with Amazon RDS without modification. Amazon RDS automatically backs up database and maintains the database software that powers the DB instance.

Step 01: Creating DB subnet Groups

DS Dashboard

Instances

Subnet Groups

Reserved Purchases

Snapshots

Security Groups

Parameter Groups

Option Groups

Subnet Groups

Tags

Event Subscriptions

Notifications

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

Description

VPC ID

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

Subnet ID [Add](#)

Availability Zone	Subnet ID	CIDR Block	Action
None added			

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

Step 02: Adding all subnets Groups. But 2 is enough

DS Dashboard

Instances

Subnet Groups

Reserved Purchases

Snapshots

Security Groups

Parameter Groups

Option Groups

Subnet Groups

Tags

Event Subscriptions

Notifications

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

Description

VPC ID

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.

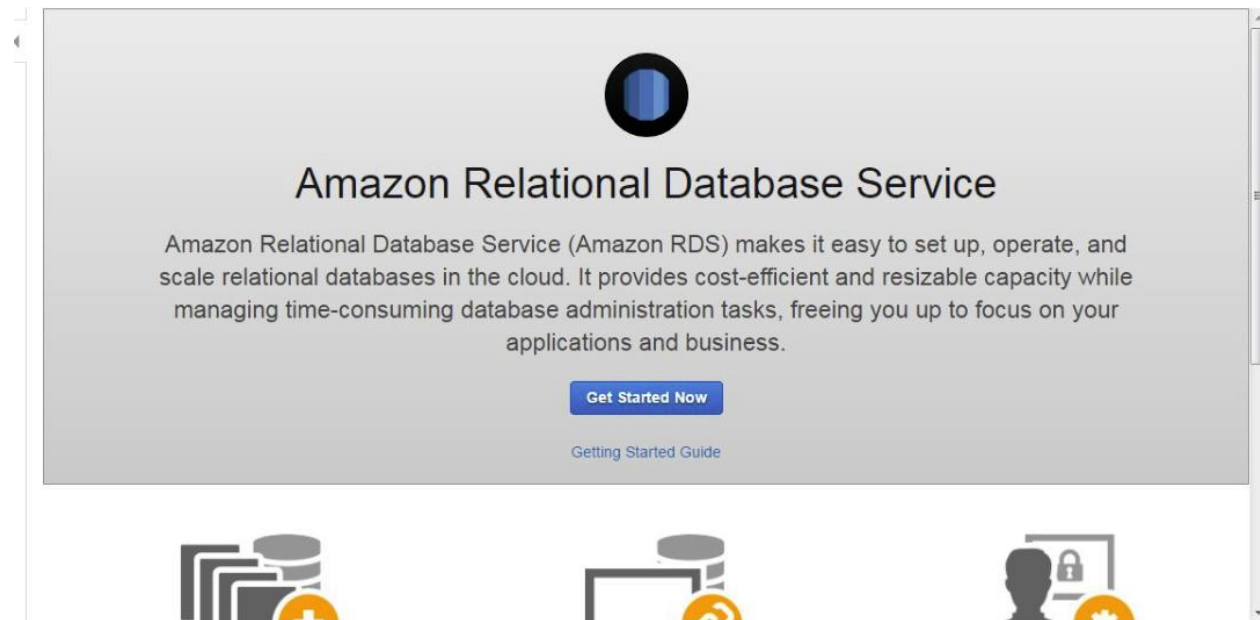
Availability Zone

Subnet ID [Add](#)

Availability Zone	Subnet ID	CIDR Block	Action
us-west-2c	subnet-78905920	172.31.0.0/20	Remove
us-west-2b	subnet-74a62002	172.31.32.0/20	Remove

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

Step 03: Creating Amazon Relational Database Service



Step 04: Select MySQL as Database Engine

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

Amazon Aurora

Aurora

Select

Amazon Aurora is a high-performance, MySQL-compatible, enterprise-class database at a tenth the cost of commercial databases.

- Up to 5 times the throughput of MySQL.
- Up to 15 promotable Read Replicas with less than 10 ms lag.
- Up to 64 TB of Auto Scaling storage replicated over multiple Availability Zones.



Step 05: Select Dev/Test MySQL for testing purposes

Select Engine

Production?

Specify DB Details

Configure Advanced Settings

Do you plan to use this database for production purposes?

Production

☐ 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.

Dev/Test

☒ 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

Step 06: Give relevant information for instance specifications

Step 6: Configure advanced settings

i Your current selection is eligible for the free tier.

[Learn More](#)

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

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

! 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.

Select the DB Instance class that allocates the computational, network, and memory capacity required by planned workload of this DB instance. [Learn More](#)

Step 07: Creation of DB instance

s

[ed 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](#)

Step 08: Running DB Instance

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Launch DB Instance

Show Monitoring

Instance Actions

Filter: All Instances

Search DB Instances...

Viewing 2 of 2 DB Instances

	Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ	Replication
<input type="radio"/>	MySQL	pathumekanayaka	creating			None	db.m1.small	vpc-913c42f5	No	
<input type="radio"/>	MySQL	pathumekanayaka1	creating			None	db.m1.small	vpc-913c42f5	No	

Step 09: Create Security Groups

Filter by tags and attributes or search by keyword

<input type="checkbox"/>	Name	Group ID	Group Name	VPC ID	Description
<input type="checkbox"/>		sg-01138867	default	vpc-913c42f5	default VPC security group
<input type="checkbox"/>		sg-1487f772	rds-launch-wizard-2	vpc-913c42f5	Created from the RDS Management Console
<input type="checkbox"/>		sg-9085f5f6	rds-launch-wizard	vpc-913c42f5	Created from the RDS Management Console
<input type="checkbox"/>		sg-b486f6d2	rds-launch-wizard-1	vpc-913c42f5	Created from the RDS Management Console

Create Security Group

Security group name

Pathum Ekanayaka

Description

abc

VPC

vpc-913c42f5 (172.31.0.0/16) *

* denotes default VPC

Security group rules:

Inbound

Outbound

Type

Protocol

Port Range

Source

Custom TCP Rule

TCP

0

Custom

CIDR, IP or Security Group

Add Rule

Cancel

Create

Step 10: Final Snapshot of the running MySQL DB Instance

RDS Dashboard

Launch DB Instance

Show Monitoring

Instance Actions

Filter: All Instances

Search DB Instances...

Viewing 2 of 2 DB Instances

	Engine	DB Instance	Status	CPU	Current Activity	Maintenance	Class	VPC	Multi-AZ
<input type="checkbox"/>	MySQL	pathumekanayaka	available	2.67%	0 Connections	None	db.m1.small	vpc-913c42f5	No
<input checked="" type="checkbox"/>	MySQL	pathumekanayaka1	available	2.67%	0 Connections	None	db.m1.small	vpc-913c42f5	No

Endpoint: pathumekanayaka1.chzv7zvlx001.us-west-2.rds.amazonaws.com:3306 (authorized)

Alarms and Recent Events

Monitoring

TIME (UTC+5:30)

EVENT

Jul 15 4:25 PM

DB instance created

Jul 15 4:24 PM

DB instance restarted

CURRENT VALUE

THRESHOLD

LAST HOUR

CURRENT VALUE

LAST HOUR

CPU

2.67%

Read IOPS

0/sec

Memory

1,170 MB

Write IOPS

0.258/sec

Storage

4,540 MB

Swap Usage

0 MB

Instance Actions

Tags

Logs

