



Sri Lanka Institute of Information Technology

ESBPII

Assignment 1

AWS INSTANCES SUMMARY

IT13071844

Asanka R.

CREATE AMAZON EC2 INSTANCE (Windows)

- **Step 1**

Log In to the Amazon Web Service Console

The AWS Management Console is a web control panel for managing all your AWS resources, from EC2 instances to SNS topics. The console enables cloud management for all aspects of the AWS account, including managing security credentials, or even setting up new IAM Users.

The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with tabs for 'Course: Enterprise Standard' and 'Results: Faculty of Computer Science'. Below the navigation bar, the URL is https://us-west-2.console.aws.amazon.com/console/home?region=us-west-2#. The main content area is titled 'Amazon Web Services' and contains several service categories:

- Compute**: Includes EC2 (Virtual Servers in the Cloud), EC2 Container Service (Run and Manage Docker Containers), Elastic Beanstalk (Run and Manage Web Apps), and Lambda (Run Code in Response to Events).
- Storage & Content Delivery**: Includes S3 (Scalable Storage in the Cloud), CloudFront (Global Content Delivery Network), and Elastic File System (Fully Managed File System for EC2).
- Database**: Includes RDS (Managed Relational Database Service), DynamoDB (Managed NoSQL Database), and ElastiCache (In-Memory Cache).
- Developer Tools**: Includes CodeCommit (Store Code in Private Git Repositories), CodeDeploy (Automate Code Deployments), and CodePipeline (Release Software using Continuous Delivery).
- Management Tools**: Includes 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), and Trusted Advisor (Optimize Performance and Security).
- Internet of Things**: Includes AWS IoT (Connect Devices to the Cloud).
- Game Development**: Includes GameLift (Deploy and Scale Session-based Multiplayer Games).
- Mobile Services**: Includes 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), and SNS (Push Notification Service).
- Application Services**: Includes API Gateway (Build, Deploy and Manage APIs), AppStream (Low Latency Application Streaming), CloudSearch (Managed Search Service), Elastic Transcoder (Easy-to-Use Scalable Media Transcoding), and SES (Email Sending and Receiving Service).
- Security & Identity**: Includes Identity & Access Management (Manage User Access and Encryption Keys), Directory Service (Host and Manage Active Directory), and Inspector (Analyze Application Security).

On the right side, there's a 'Resource Groups' section with a 'Create a Group' button and a 'Tag Editor' button. Below that is an 'Additional Resources' section with links to 'Getting Started', 'AWS Console Mobile App', 'AWS Marketplace', 'AWS re:Invent Announcements', and 'Service Health'. The bottom of the screen shows standard Windows taskbar icons and a status bar indicating the time is 6:53 AM and the date is 7/10/2016.

- **Step 2**

Create an EC2 instance

You can launch an EC2 instance using the EC2 launch wizard.

Select the EC2 service from the Management Console dashboard

From the EC2 dashboard, click Launch Instance

The screenshot shows the AWS Management Console dashboard for the EC2 service. The left sidebar lists various AWS services: Instances, Images, Elastic Block Store, Network & Security, Load Balancing, and Auto Scaling. The main content area is titled 'Resources' and displays the following information:

Category	Value
Running Instances	0
Dedicated Hosts	0
Volumes	0
Key Pairs	0
Placement Groups	0
Elastic IPs	0
Snapshots	0
Load Balancers	0
Security Groups	1

A blue callout box highlights the 'Launch Instance' button under the 'Create Instance' heading. Other sections visible include 'Account Attributes' (listing VPC and Default VPC), 'Additional Information' (links to Getting Started Guide, Documentation, etc.), and 'AWS Marketplace' (listing software trial products). The bottom navigation bar includes links for Feedback, English, Export, Print, and a timestamp of 7:23 AM on 7/10/2016.

Then Choose an Amazon Machine Image (AMI)

Select Windows Instance (Free tier eligible)

The screenshot shows the AWS EC2 Management Console Launch Instance Wizard. The current step is "Step 1: Choose an Amazon Machine Image (AMI)". The interface includes a navigation bar with tabs: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Tag Instance, 6. Configure Security Group, and 7. Review. The "Choose AMI" tab is selected.

The main content area displays two AMI options:

- Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9abeadfb**
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 button (disabled)
64-bit
- 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 button (disabled)
64-bit

A callout box for "Amazon RDS" is overlaid on the page, containing the following text:

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

Launch a database using RDS button

At the bottom of the page, there is a footer with links: Feedback, English, © 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved, Privacy Policy, Terms of Use, Export, Print, and a timestamp: 7:25 AM 7/10/2016.

On the Choose an Instance Type page, do not change any options and click on Next: Configure Instance Details. Default select free tier instance type.

The screenshot shows the AWS EC2 Management Console Launch Instance Wizard. The current step is "Step 2: Choose an Instance Type". A table lists various instance types under the "General purpose" family. The **t2.micro** instance is selected, indicated by a blue border and the text "Free tier eligible" below it. Other instances listed include t2.nano, t2.small, t2.medium, t2.large, m4.large, m4.xlarge, and m4.2xlarge. The table columns include Family, Type, vCPUs, Memory (GiB), Instance Storage (GB), EBS-Optimized Available, and Network Performance. At the bottom of the table are buttons for Cancel, Previous, Review and Launch (which is highlighted in blue), and Next: Configure Instance Details.

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
<input type="checkbox"/>	General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate
<input checked="" type="checkbox"/>	General purpose	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	m4.large	2	8	EBS only	Yes	Moderate
<input type="checkbox"/>	General purpose	m4.xlarge	4	16	EBS only	Yes	High
<input type="checkbox"/>	General purpose	m4.2xlarge	8	32	EBS only	Yes	High

Then Configure Instance Details

The screenshot shows the AWS EC2 Management Console interface. The top navigation bar includes tabs for 'Course: Enterprise Standard', 'Results: Faculty of Computer Science', 'EC2 Management Console', and 'New Tab'. On the right, it shows 'Asanka Ranasinghe', 'Oregon', and 'Support'. Below the navigation is a breadcrumb trail: '1. Choose AMI' → '2. Choose Instance Type' → '3. Configure Instance' (which is underlined in blue) → '4. Add Storage' → '5. Tag Instance' → '6. Configure Security Group' → '7. Review'. The main content area is titled 'Step 3: Configure Instance Details'. It contains several configuration fields:

- Number of instances:** Set to 1.
- Purchasing option:** Unchecked checkbox for 'Request Spot Instances'.
- Network:** Set to 'vpc-09601b6d (172.31.0.0/16) (default)' with a 'Create new VPC' button.
- Subnet:** Set to 'No preference (default subnet in any Availability Zone)' with a 'Create new subnet' button.
- Auto-assign Public IP:** Set to 'Use subnet setting (Enable)'.
- Domain join directory:** Set to 'None' with a 'Create new directory' button.
- IAM role:** Set to 'None' with a 'Create new IAM role' button.
- Shutdown behavior:** Set to 'Stop'.
- Enable termination protection:** Unchecked checkbox for 'Protect against accidental termination'.
- Monitoring:** Unchecked checkbox for 'Enable CloudWatch detailed monitoring'. A note below says 'Additional charges apply.'

At the bottom are buttons for 'Cancel', 'Previous', 'Review and Launch' (which is highlighted in blue), and 'Next: Add Storage'.

This screenshot is identical to the one above, but the 'Tenancy' dropdown is set to 'Shared - Run a shared hardware instance'. A note below it states 'Additional charges will apply for dedicated tenancy.'

Then Add Storage

The screenshot shows the AWS EC2 Management Console Launch Instance Wizard, specifically Step 4: Add Storage. The URL is <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The page displays storage configuration options for a new instance. A table lists one volume entry:

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/sda1	snap-432bd8be	30	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

An "Add New Volume" button is located below the table. A note at the bottom states: "Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. Learn more about free usage tier eligibility and usage restrictions." At the bottom right, there are buttons for "Cancel", "Previous", "Review and Launch" (which is highlighted in blue), and "Next: Tag Instance". The browser status bar shows the date and time: 10:07 PM 7/30/2016.

Then Tag Instance If you want. You can skip this if you want. Click on Configure Security Group.

The screenshot shows the AWS EC2 Management Console Launch Instance Wizard at Step 5: Tag Instance. The URL in the browser is <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>. The page title is "AWS Create Your First Amazon EC2 Instance". The top navigation bar includes "Course: Enterprise Standard", "aws - Google Search", "(2551 unread) - ranasing", "AWS Create Your First Amazon EC2 Instance", and "EC2 Management Console". The user is signed in as "Asanka Ranasinghe" from "Oregon". The main content area shows a step-by-step wizard with tabs: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Tag Instance (which is selected), 6. Configure Security Group, and 7. Review. Below the tabs, a section titled "Step 5: Tag Instance" explains that a tag consists of a key-value pair. It features two input fields: "Key" (127 characters maximum) and "Value" (255 characters maximum). The "Key" field contains "Name" and the "Value" field contains "Webserver". A "Create Tag" button is available for additional tags. At the bottom, there are "Cancel", "Previous", "Review and Launch" (which is highlighted in blue), and "Next: Configure Security Group" buttons. The footer includes links for Feedback, English, Privacy Policy, Terms of Use, Export, Print, and system status indicators showing 10:08 PM and 7/30/2016.

Then Configure Security Group (To improve your Windows Instance Security)

Select Your Ip Address for the Source

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: Create a new security group
 Select an existing security group

Security group name:
Description:

Type	Protocol	Port Range	Source
RDP	TCP	3389	My IP 123.231.127.85/32

Add Rule

Cancel Previous Review and Launch

Then Click On Review And 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

Microsoft Windows Server 2012 R2 Base - ami-8d0acfed
Free tier eligible
Microsoft Windows 2012 R2 Standard edition with 64-bit architecture. [English]
Root Device Type: ebs Virtualization type: hvm

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

Instance Type

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

Security Groups

Security group name: launch-wizard-1
Description: launch-wizard-1 created 2016-07-10T08:04:19.848-07:00

Cancel Previous Launch

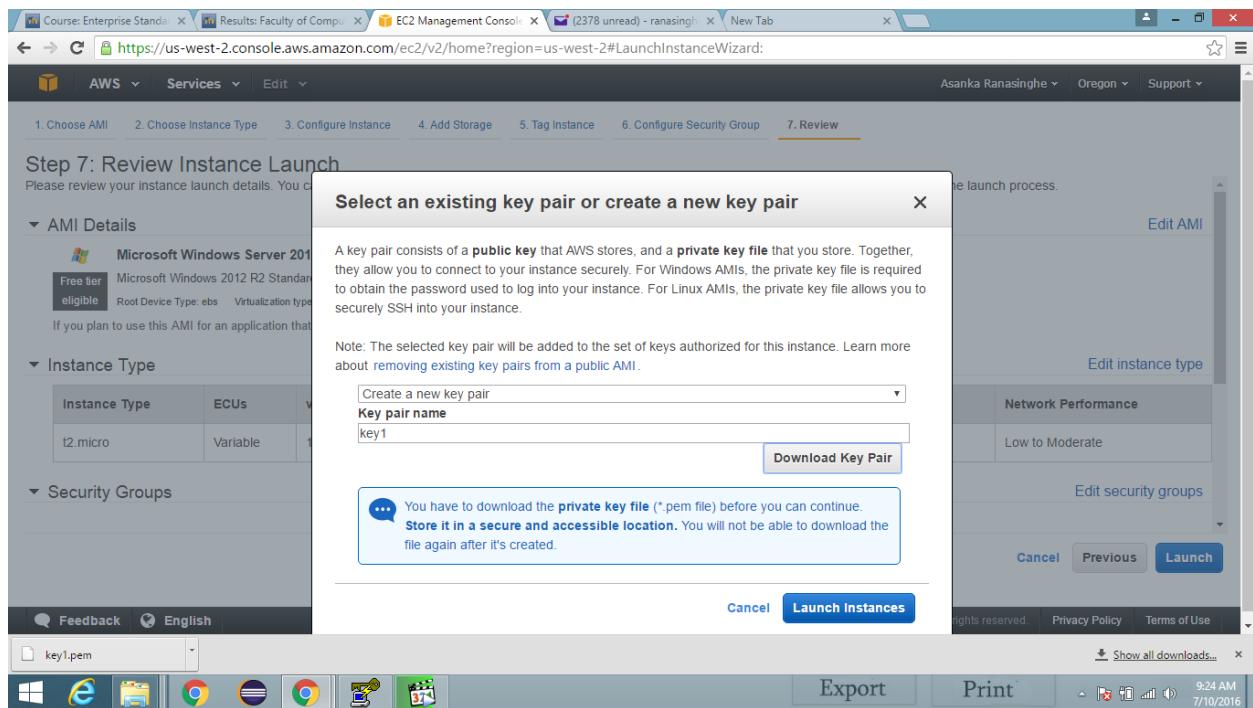
- **Step 3**

Create Key Pair and Launch the Instance

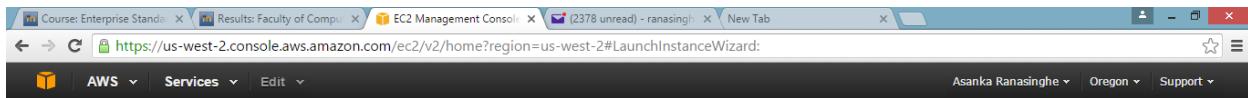
Then Click On launch

Create a New Key pair

Give a Key Name and Download Key Pair



Then Launch Instance



The screenshot shows the AWS Management Console interface. The top navigation bar includes tabs for 'Course: Enterprise Standard', 'Results: Faculty of Computer Science', 'EC2 Management Console', and 'New Tab'. The user is signed in as 'Asanka Ranasinghe' from 'Oregon'. The main menu bar has 'AWS', 'Services', and 'Edit' options. The current page URL is <https://us-west-2.console.aws.amazon.com/ec2/v2/home?region=us-west-2#LaunchInstanceWizard>.

Launch Status



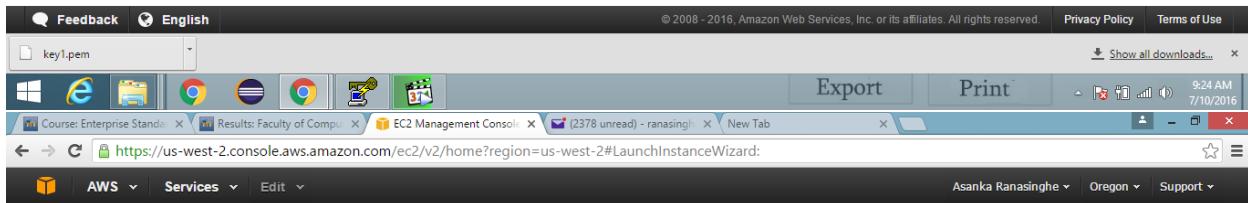
Initiating Instance Launches

Please do not close your browser while this is loading

Creating security groups... Successful

Authorizing inbound rules... Successful

Initiating launches...



This screenshot is identical to the one above, showing the EC2 Management Console home page. A download bar at the top indicates a file named 'key1.pem' is being downloaded.

Launch Status

Your instances are now launching

The following instance launches have been initiated: [i-088ca58f77638758f](#) [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.

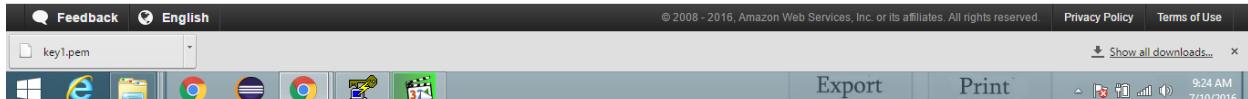
Click [View Instances](#) to monitor your instances' status. Once your instances are in the **running** state, you can **connect** to them from the Instances screen. [Find out](#) how to connect to your instances.

Here are some helpful resources to get you started

- [Amazon EC2: User Guide](#)
- [How to connect to your Windows instance](#)

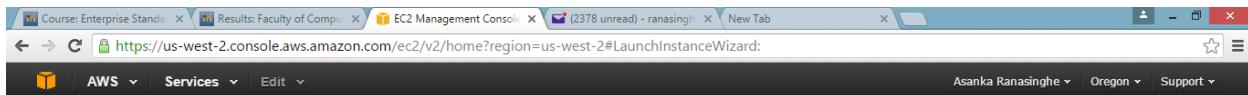
[Learn about AWS Free Usage Tier](#)

[Amazon EC2: Discussion Forum](#)



This screenshot is identical to the ones above, showing the EC2 Management Console home page with a download bar for 'key1.pem' at the top.

Then Click On View Instance



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

While your instances are launching you can also

[Create status check alarms](#) to be notified when these instances fail status checks. (Additional charges may apply)

[Create and attach additional EBS volumes](#) (Additional charges may apply)

[Manage security groups](#)

[View Instances](#)



- **Step 4**

Connect the Instance

The screenshot shows the AWS EC2 Management Console interface. The left sidebar navigation menu includes: 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, Network Interfaces), and Load Balancing. The main content area displays a table of instances. A single row is selected for the instance with the ID **i-088ca58f77638758f**. The instance details shown are:

Instance ID	Public DNS	Public IP	Key Name	Monitoring	Launch Time	Security Groups
i-088ca58f77638758f	ec2-52-40-40-136.us-west-2.compute.amazonaws.com	52.40.40.136	key1	disabled	July 10, 2016 at 8:55:47 AM ...	launch-wizard-1

Below the table, the instance details are expanded:

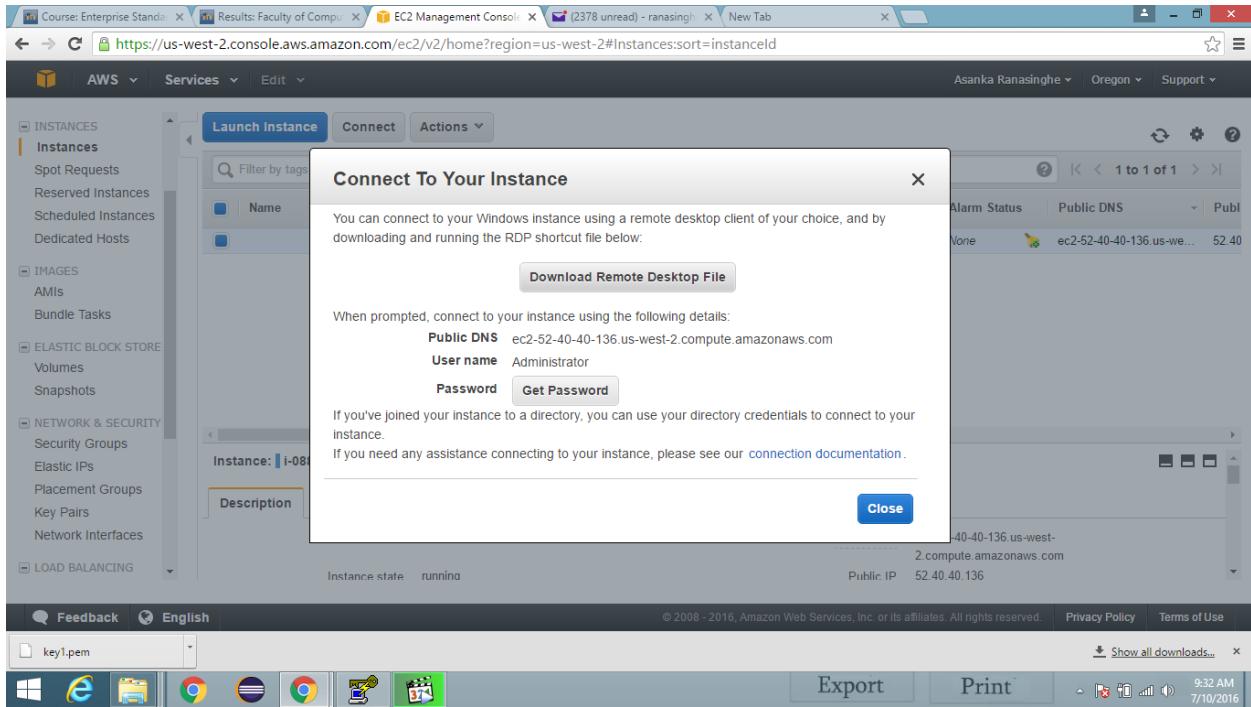
Instance: **i-088ca58f77638758f** Public DNS: **ec2-52-40-40-136.us-west-2.compute.amazonaws.com**

Description Status Checks Monitoring Tags

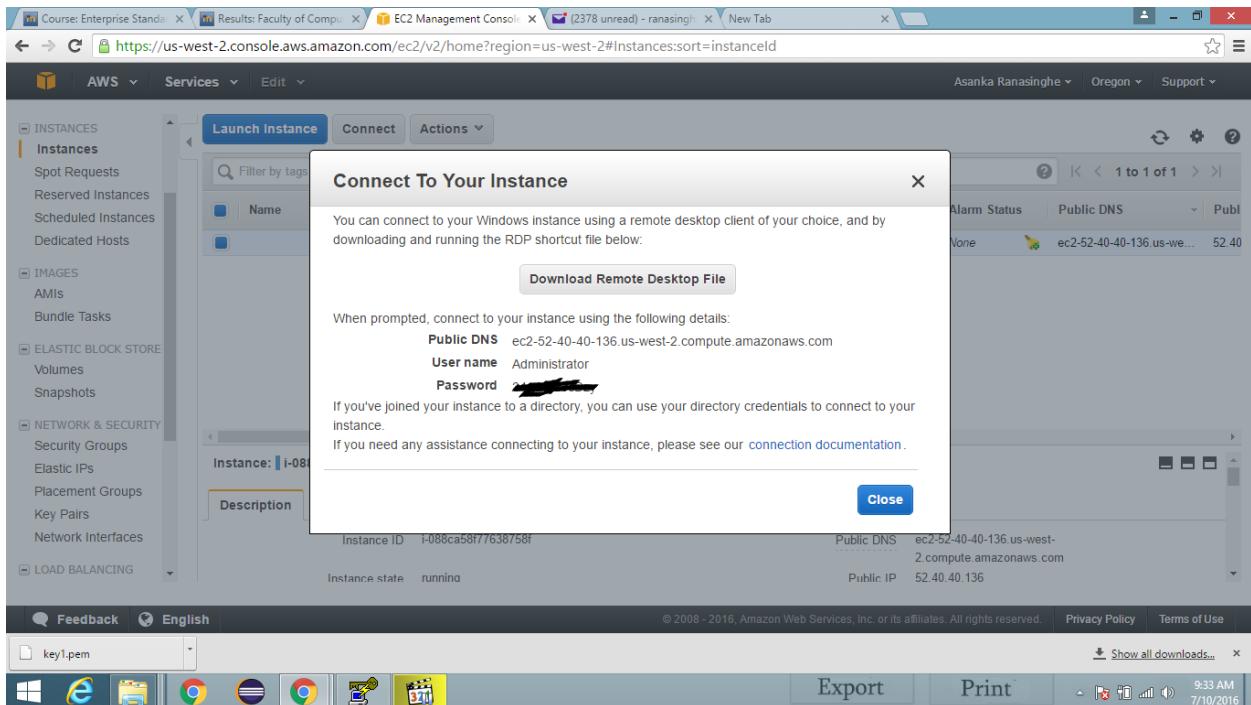
Instance ID	i-088ca58f77638758f	Public DNS	ec2-52-40-40-136.us-west-2.compute.amazonaws.com
Instance state	running	Public IP	52.40.40.136

At the bottom of the page, there are links for Feedback, English, Privacy Policy, Terms of Use, and download links for files like **key1.pem**. The status bar at the bottom right shows the date and time as 9:31 AM 7/10/2016.

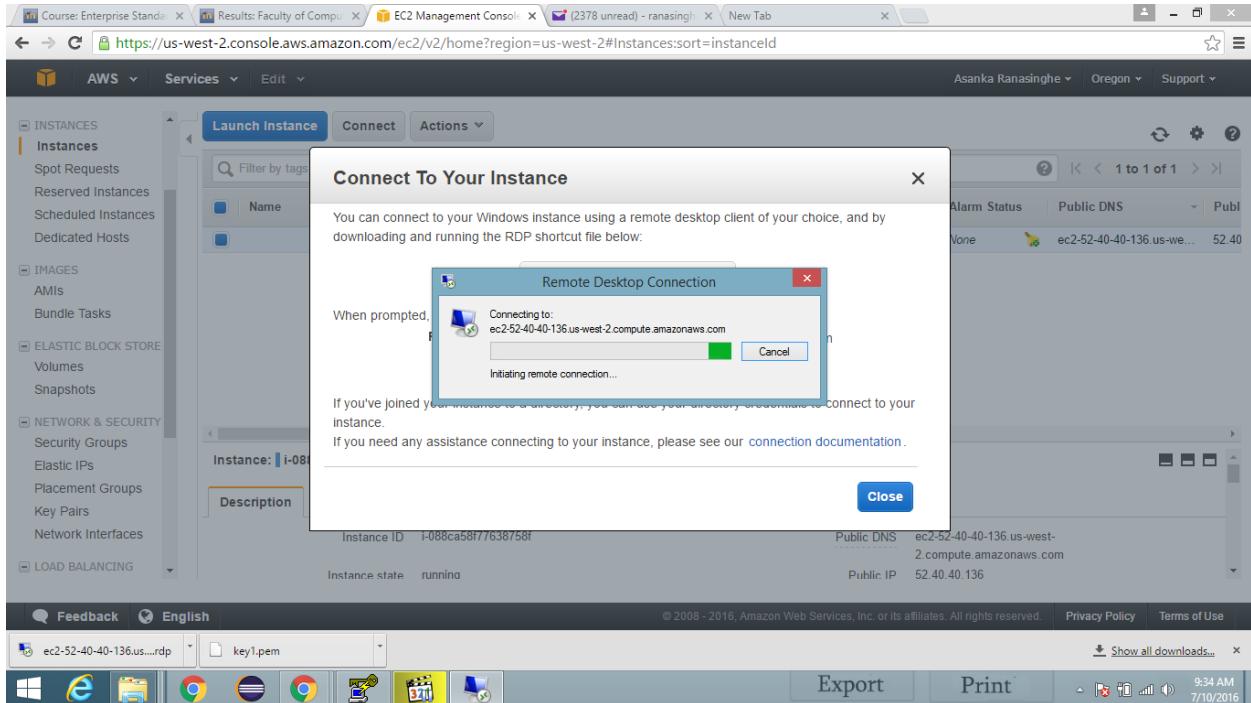
Then Connect the instance (Click On Connect Button)



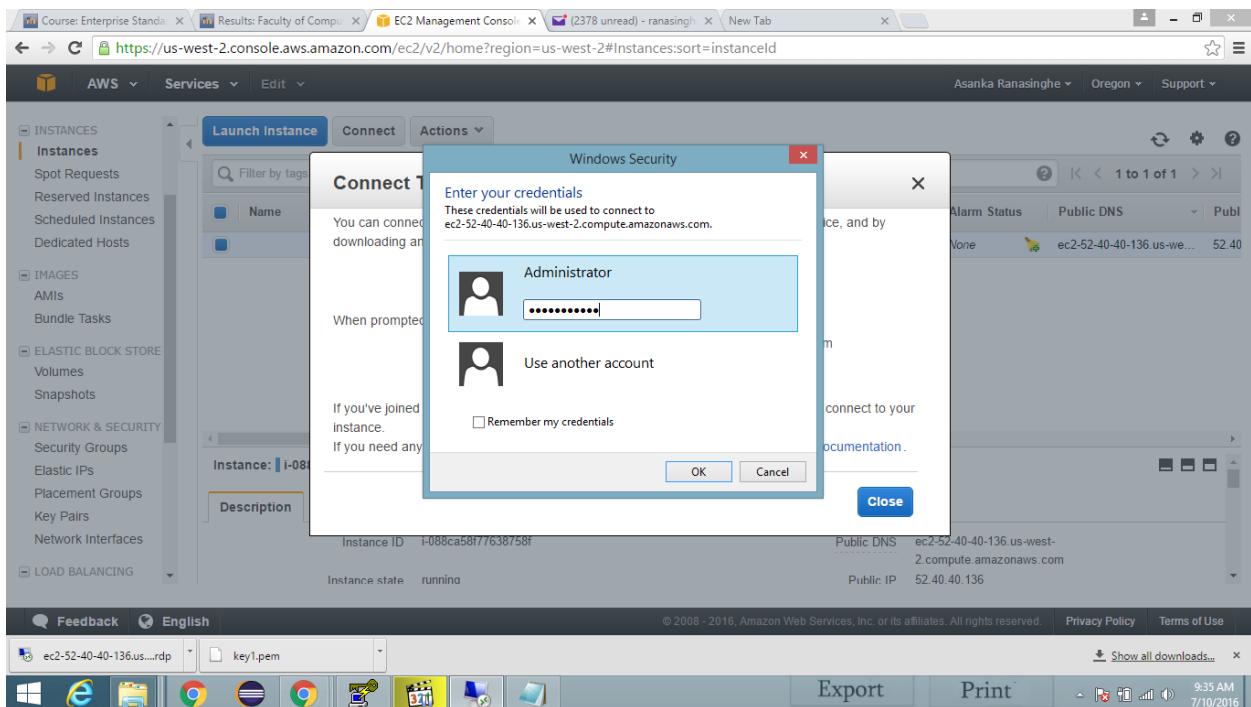
Then Click On get Password And Get The Password

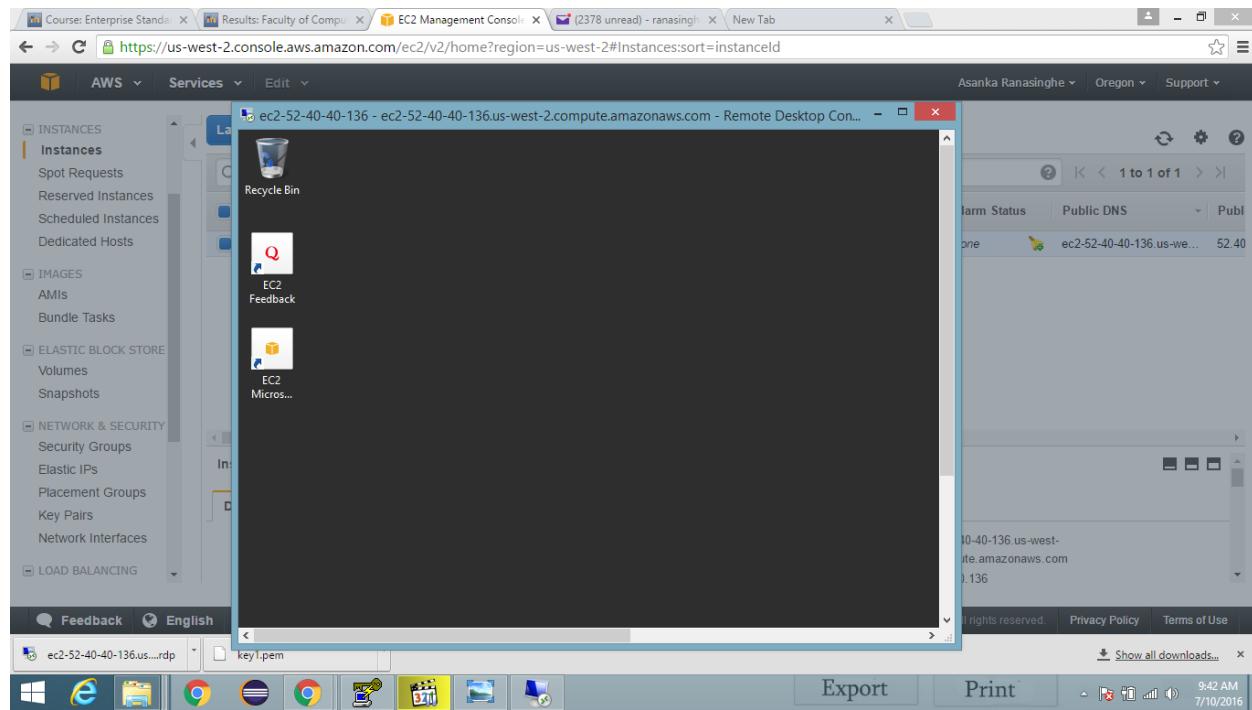
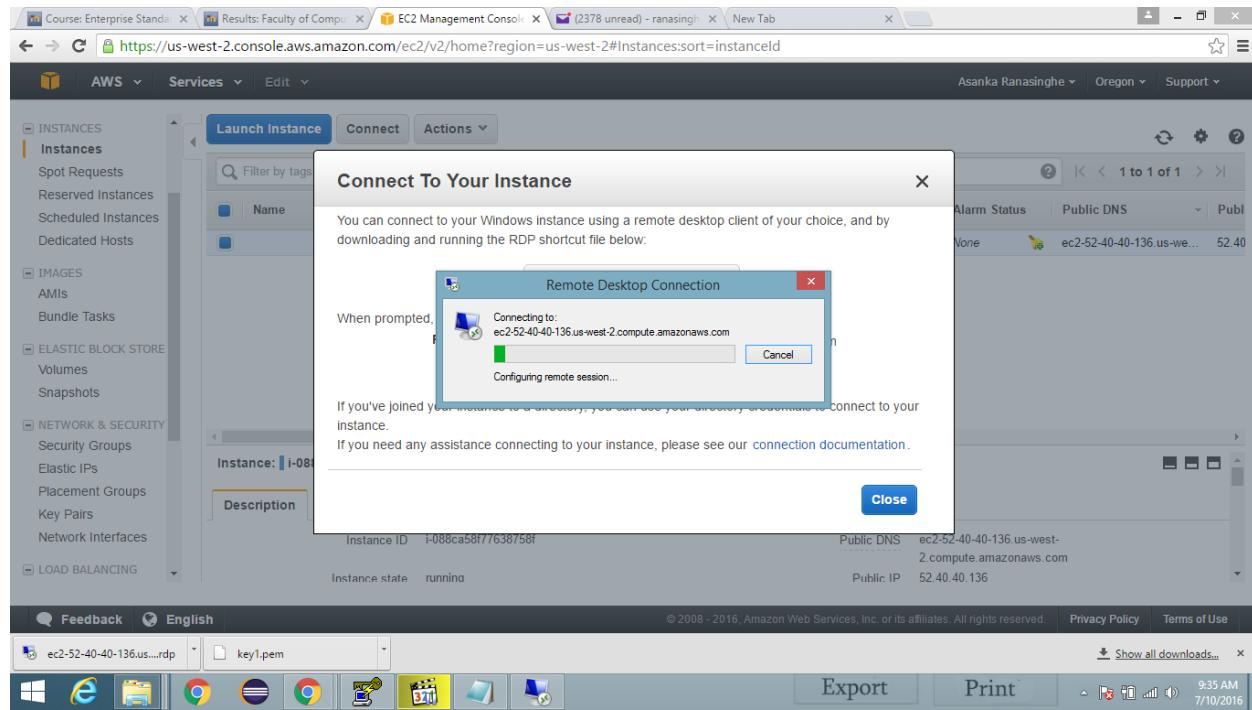


Then Click On Download Remote Desktop File



Open Remote Desktop Connection And Type the Password and Click On ok



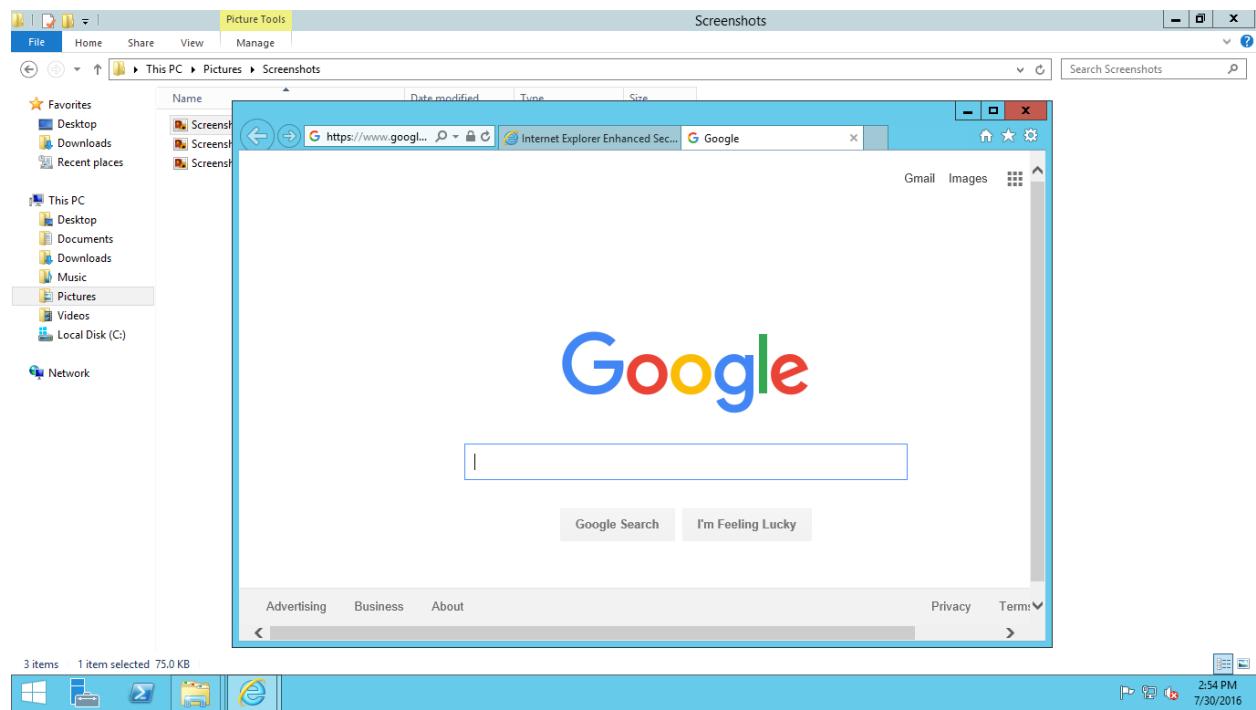


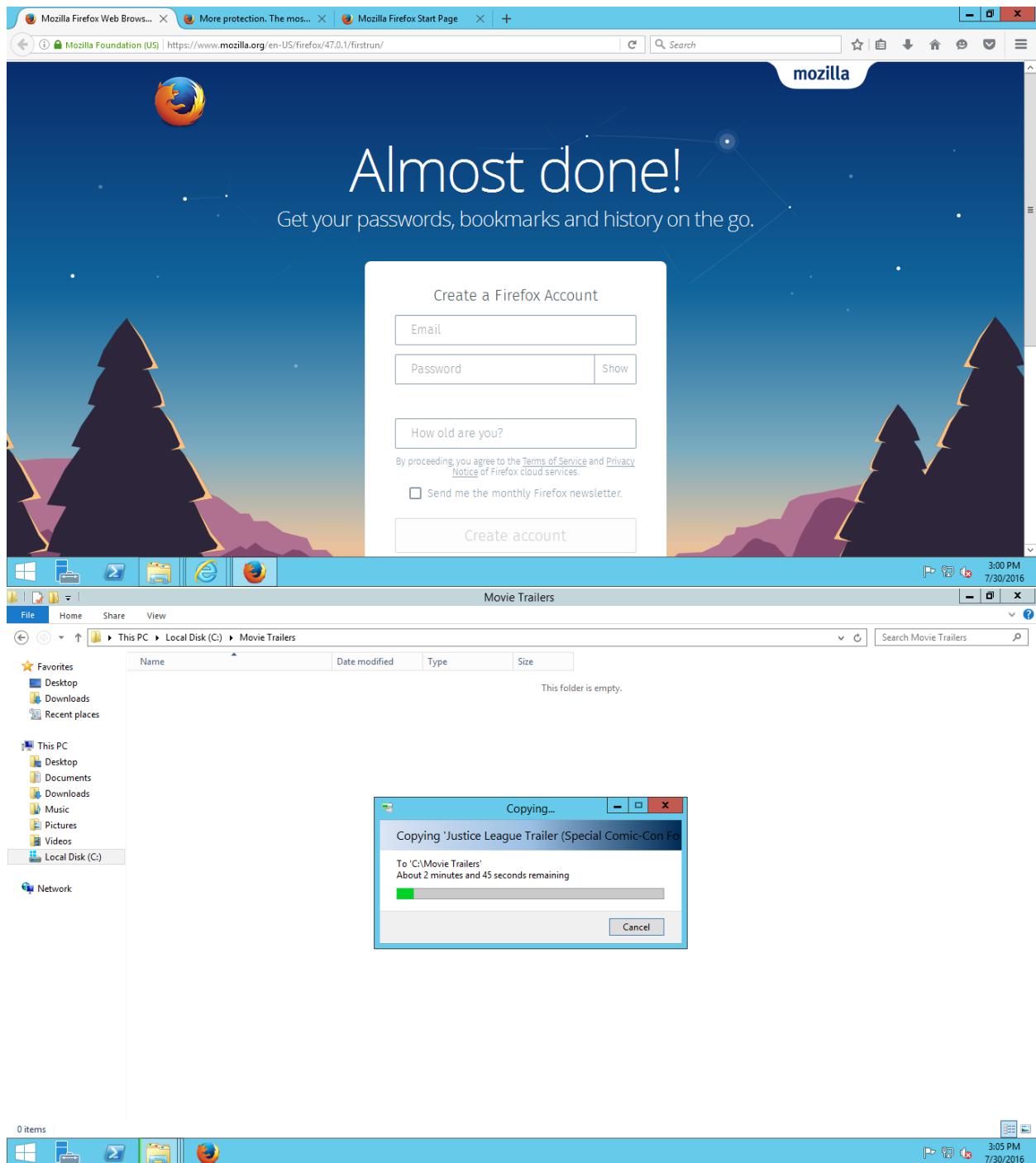
- **Step 5**

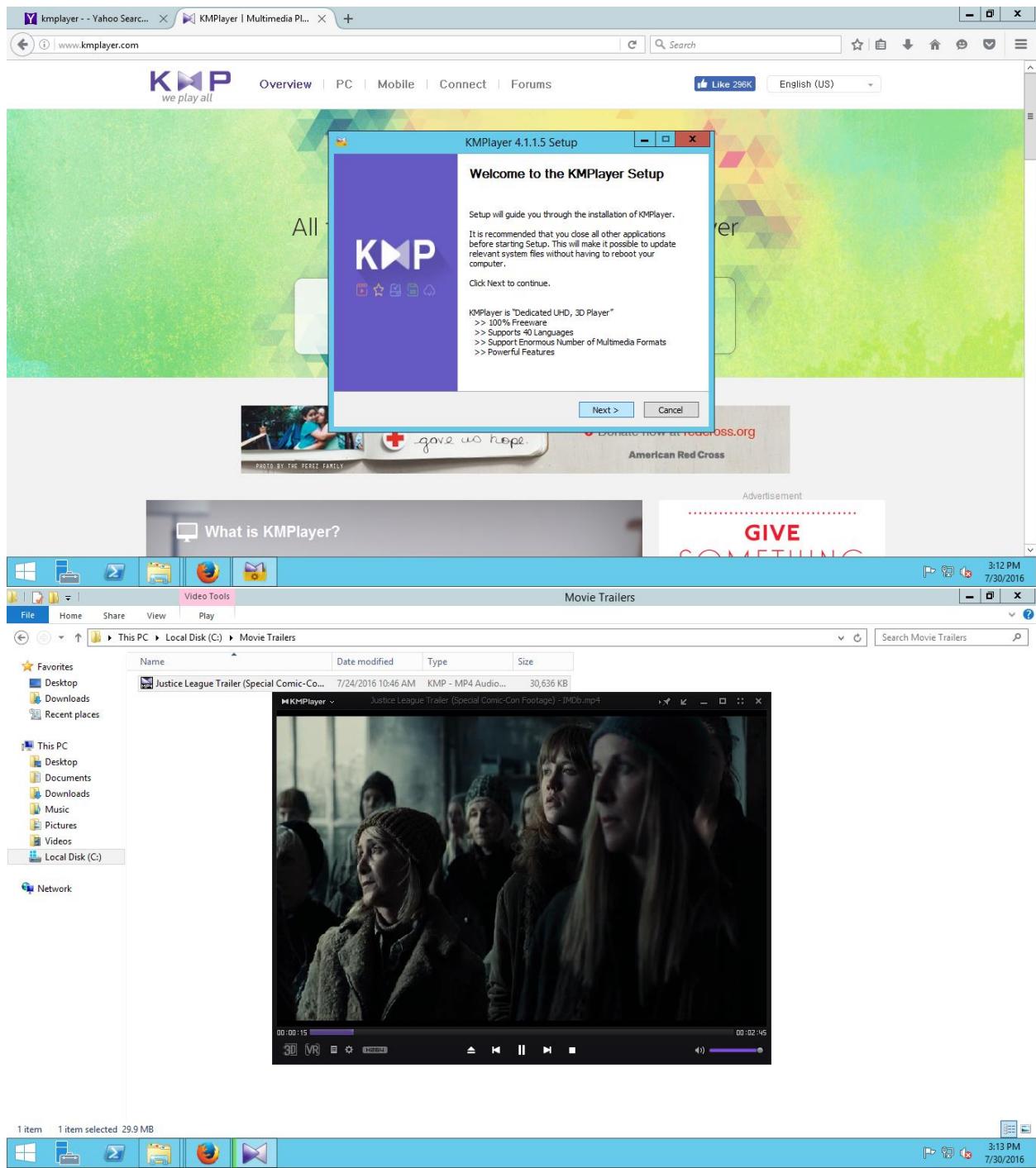
Do Some Work In RDP

In Your RDP You Can Do whatever You want

In my case I install Firefox on RDP and Install KM player and Copy a Movie trailer from my PC to RDP and Run It.







CREATE DB INSTANCE

AWS Management Console

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

Run and Manage Web Apps Release Software using Continuous Delivery Deploy and Scale Session-based Multiplayer Games

Create a Group Tag Editor

Management Tools

- CloudWatch
- CloudFormation
- CloudTrail
- Config
- OpsWorks
- Service Catalog
- Trusted Advisor

Mobile Services

- Mobile Hub
- Cognito
- Device Farm
- Mobile Analytics
- SNS

Application Services

- API Gateway
- AppStream
- CloudSearch
- Elastic Transcoder
- SES
- SQS
- SWF

Security & Identity

- Identity & Access Management
- Directory Service
- Inspector
- WAF
- Certificate Manager

Networking

- VPC
- Direct Connect
- Route 53

Analytics

- EMR
- Data Pipeline
- Elasticsearch Service

Enterprise Applications

- WorkSpaces
- WorkDocs

Storage & Content Delivery

- S3
- CloudFront
- Elastic File System
- Glacier
- Snowball
- Storage Gateway

Database

- RDS
- DynamoDB
- ElastiCache
- Redshift
- DMS

Networking

- Isolated Cloud Resources
- Dedicated Network Connection to AWS
- Scalable DNS and Domain Name Registration

Additional Resources

Getting Started

AWS Console Mobile App

AWS Marketplace

AWS re:Invent Announcements

Service Health

All services operating normally.

Updated: Jul 15 2016 03:13:00 GMT-0700

Service Health Dashboard

Export Print

RDS - AWS Console

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

AWS Services Edit Asanka Ranasinghe Oregon Support

RDS Dashboard

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

Amazon RDS for Aurora

Amazon Aurora is a MySQL-compatible, enterprise-class database at 1/10th the cost of commercial databases. Aurora supports up to 15 low-latency read replicas, 64TB of auto-scaling storage capacity, and 6-way replication across three availability zones. [Learn more.](#)

Aurora is available in US East (N. Virginia), US West (Oregon), EU (Ireland), Asia Pacific (Tokyo), Asia Pacific (Sydney), Asia Pacific (Seoul) and Asia Pacific (Mumbai).

Launch an Aurora DB Instance

Resources

You are using the following Amazon RDS resources in the US West (Oregon) region (used/quota):

DB Instances	Parameter Groups
Allocated Storage	Default
Click here to increase DB instances limit	Custom
Reserved DB Purchases	Option Groups
Snapshots	Default
Manual	Custom
Automated	Subnet Groups
Recent Events	Supported Platforms VPC
Event Subscriptions	Default Network vpc-09601b6d

Additional Information

[Getting Started with RDS](#)
[Overview and Features](#)
[Documentation](#)
[Articles and Tutorials](#)
[Data import guide for MySQL](#)
[Data import guide for Oracle](#)
[Data import guide for SQL Server](#)
[Pricing](#)
[Forums](#)

Create Instance

Amazon Relational Database Service (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.

Feedback English Export Print 3:13 AM 7/15/2016

RDS - AWS Console

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

AWS Services Edit Asanka Ranasinghe Oregon Support

RDS Dashboard

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

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

Feedback English Export Print 3:14 AM 7/15/2016

RDS - AWS Console

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

AWS Services Edit

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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

Name	Description	Status	VPC
No records found.			



RDS - AWS Console

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

AWS Services Edit

Asanka Ranasinghe 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

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 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			



RDS - AWS Console

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

AWS Services Edit

Asanka Ranasinghe 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... X

No DB Instances

Amazon Relational Database Service (RDS) is a web service that makes it easy to set up, operate, and scale a relational database in the cloud. We currently offer MySQL, SQL Server, Postgres and Oracle engines, allowing you to use the code, application and tools you already use with your existing database with Amazon RDS. You can find pricing information for RDS [here](#). Click the Launch DB Instance button to get started.

Note: Your DB Instances will launch in the US West (Oregon) region.

Feedback English

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Export Print 3:20 AM 7/15/2016

RDS - AWS Console

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

AWS Services Edit

Asanka Ranasinghe Oregon Support

Step 1: Select Engine

Select Engine

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

Amazon Aurora MySQL MariaDB PostgreSQL ORACLE Microsoft SQL Server

Aurora

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

Select

Feedback English

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RDS - AWS Console

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

Asanka Ranasinghe, Oregon, Support

AWS Services Edit

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

Select Cancel

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RDS - AWS Console

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

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AWS Services Edit

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

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

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RDS - AWS Console

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

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

AWS Services Edit Asanka Ranasinghe Oregon Support

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

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

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

Version number of the database engine to be used for this instance.

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

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The following selections disqualify the instance from being eligible for the free tier:

- 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](#).

Instance Specifications

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

DB Instance Class: db.m1.small — 1 vCPU, 1.7 GB RAM
Multi-AZ Deployment: No
Storage Type: General Purpose (SSD)
Allocated Storage*: 5 GB

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

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*

- General Purpose (SSD) storage is suitable for a broad range of database workloads. Provides baseline of 3 IOPS/GB and ability to burst to 3,000 IOPS.
- Provisioned IOPS (SSD) storage is suitable for I/O-intensive database workloads. Provides flexibility to provision I/O ranging from 1,000 to 30,000 IOPS.
- Magnetic storage may be used for small database workloads where data is accessed less frequently.

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RDS - AWS Console

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

AWS Services Edit Asanka Ranasinghe Oregon Support

DB Instance using the RDS Instance Cost Calculator.

DB Instance Class: db.m1.small — 1 vCPU, 1.7 GB RAM
Multi-AZ Deployment: No
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*: dbinstnace
Master Username*: dbinstance
Master Password*:
Confirm Password*:

* Required Cancel Previous Next Step

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RDS - AWS Console

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

AWS Services Edit Asanka Ranasinghe Oregon Support

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-09601b6d)
Subnet Group:
Publicly Accessible: Yes
Availability Zone: No Preference
VPC Security Group(s): Create new Security Group
default (VPC)
launch-wizard-1 (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:mysql-5.6

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RDS - AWS Console

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

AWS Services Edit Asanka Ranasinghe Oregon Support

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-09601b6d)
Subnet Group: cloudacademy
Publicly Accessible: No
Availability Zone: No Preference
VPC Security Group(s): Create new Security Group
default (VPC)
launch-wizard-1 (VPC)

Database Options

Database Name: database1
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:mysql-5.6

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RDS - AWS Console

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

AWS Services Edit Asanka Ranasinghe Oregon Support

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

Maintenance

Auto Minor Version Upgrade: Yes
Maintenance Window: No Preference

Specify Yes to enable automatic upgrades to new minor versions as they are released. The automatic upgrades occur during the maintenance window for the DB instance. [Learn More](#).

* Required Cancel Previous Launch DB Instance

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RDS - AWS Console

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

AWS Services Edit Asanka Ranasinghe 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 able 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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RDS - AWS Console

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

AWS Services Edit Asanka Ranasinghe 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	Replicat
	MySQL	dbinstnace	available	9.49%	0 Connections	None	db.m1.small	vpc-09601b6d	No	

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RDS - AWS Console

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

AWS Services

History

All AWS Services

API Gateway, AppStream, AWS IoT, Certificate Manager, CloudFormation, CloudFront, CloudSearch, CloudTrail, CloudWatch, CodeCommit, CodeDeploy, CodePipeline, Cognito, Config, Data Pipeline, Device Farm, Direct Connect, DynamoDB, EC2, EC2 Container Service, Elastic Beanstalk, Elastic File System, Elastic Transcoder, ElastiCache, Elasticsearch Service, EMR, GameLift, Glacier, IAM, Inspector, Kinesis, Lambda, Machine Learning, Mobile Analytics, OpsWorks, RDS, Redshift, Route 53, S3, Service Catalog, SES, Snowball, SNS, SQS, Storage Gateway, SWF, Trusted Advisor, VPC, WAF, WorkDocs, WorkMail

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RDS - AWS Console

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

AWS Services

RDS Dashboard

Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups, Events, Event Subscriptions, Notifications 1

Your account does not support the EC2-Classic Platform in this region. DB Security Groups are only needed when the EC2-Classic Platform is supported. Instead, use VPC Security Groups to control access to your DB Instances. Go to the EC2 Console to view and manage your VPC Security Groups. For more information, see AWS Documentation on Supported Platforms and Using RDS in VPC.

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RDS - AWS Console EC2 Management Console

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

AWS Services Edit Asanka Ranasinghe 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

Create Security Group Actions

Filter by tags and attributes or search by keyword

Name	Group ID	Group Name	VPC ID	Description
sg-3380f055	rds-launch-wizard	vpc-09601b6d	Created from the RDS Management Console	
sg-821a79e4	default	vpc-09601b6d	default VPC security group	
sg-ab543bcd	launch-wizard-1	vpc-09601b6d	launch-wizard-1 created 2016-07-10T08:04:19.848-07:00	

Select a security group above

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RDS - AWS Console EC2 Management Warcraft (2016) mysql workbench MySQL Begin MySQL Download war craft 2016

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

AWS Services Edit Asanka Ranasinghe 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

Create Security Group

Security group name: Security Group1
Description: For Security
VPC: vpc-09601b6d (172.31.0.0/16) *

* denotes default VPC

Security group rules:

Inbound Outbound

Type	Protocol	Port Range	Destination
MySQL/Aurora	TCP	3306	My IP 175.157.115.86/32

Add Rule Cancel Create

Feedback English Export Print 3:46 AM 7/15/2016

Screenshot of the AWS Management Console showing the EC2 Management Service. The left sidebar shows navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances, AMIs, Bundle Tasks, Elastic Block Store, Volumes, Snapshots, and Network & Security (Security Groups). The main content area displays a table of security groups:

Name	Group ID	Group Name	VPC ID	Description
sg-3380f055	rds-launch-wizard	vpc-09601b6d	Created from the RDS Management Console	
sg-821a79e4	default	vpc-09601b6d	default VPC security group	
sg-828bfbe4	Security Group1	vpc-09601b6d	For Security	
sg-a78afac1	Security group	vpc-09601b6d	For security	
sg-ab543bcd	launch-wizard-1	vpc-09601b6d	launch-wizard-1 created 2016-07-10T08:04:19.848-07:00	

A message at the bottom says "Select a security group above". The top right shows user information: Asanka Ranasinghe, Oregon, Support.

Screenshot of the AWS Management Console showing the EC2 Management Service. The left sidebar shows navigation links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances, AMIs, Bundle Tasks, Elastic Block Store, Volumes, Snapshots, and Network & Security (Security Groups). The main content area displays a search bar with the placeholder "Fill". The top right shows user information: Asanka Ranasinghe, Oregon, Support.

Screenshot of the AWS EC2 Management Console showing a single instance running.

Instances Overview:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Publ...
	i-088ca58f77638758f	t2.micro	us-west-2a	running	2/2 checks ...	None	ec2-52-40-40-136.us-west...	52.40...

Instance Details (i-088ca58f77638758f):

Description		Status Checks		Monitoring		Tags	
Instance ID	i-088ca58f77638758f	Public DNS	ec2-52-40-40-136.us-west-2.compute.amazonaws.com	Instance state	running	Public IP	52.40.40.136
Instance type	t2.micro	Instance hours	12 minutes	CloudWatch Metrics	CloudWatch Logs	Elastic IP	-

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Screenshot of the AWS EC2 Management Console showing the same instance transitioning to a shutting-down state.

Instances Overview:

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Publ...
	i-088ca58f77638758f	t2.micro	us-west-2a	shutting-do...	None	None	None	None

Instance Details (i-088ca58f77638758f):

Description		Status Checks		Monitoring		Tags	
Instance ID	i-088ca58f77638758f	Public DNS	-	Instance state	shutting-down	Public IP	-
Instance type	t2.micro	CloudWatch Metrics	CloudWatch Logs	Elastic IP	-	Elastic IPs	-

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RDS - AWS Co EC2 Manager EC2 Manager Warcraft (2011) mysql workbe MySQL :: Beg MySQL :: Dow Warcraft 2016

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

AWS Services Edit Asanka Ranasinghe Oregon Support

Create Security Group

Security group name: Security group 2
 Description: for security
 VPC: vpc-09601b6d (172.31.0.0/16) *

* denotes default VPC

Security group rules:

Inbound Outbound

Type	Protocol	Port Range	Destination
MySQL/Aurora	TCP	3306	My IP 175.157.115.86/32

Add Rule Cancel Create

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RDS - AWS Co EC2 Manager EC2 Manager Warcraft (2011) mysql workbe MySQL :: Beg MySQL :: Dow New Tab

<https://us-west-2.console.aws.amazon.com/rds/home?region=us-west-2#dbinstances:id=dbinstnace;sf=all>

AWS Services Edit Asanka Ranasinghe 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	Replicat
MySQL	dbinstnace	available	3.93%	0 Connections	None	db.m1.small	vpc-09601b6d	No	

Endpoint: dbinstnace.cstdn0t1movh.us-west-2.rds.amazonaws.com:3306 (authorized)

Alarms and Recent Events

TIME (UTC-7)	EVENT
Jul 15 3:39 AM	DB instance created
Jul 15 3:39 AM	DB instance restarted

Monitoring

CURRENT VALUE	THRESHOLD	LAST HOUR	CURRENT VALUE	LAST HOUR
CPU 3.93%			Read IOPS 0.55/sec	
Memory 1,170 MB			Write IOPS 0.15/sec	
Storage 4,540 MB			Swap Usage 0 MB	

Instance Actions Tags Logs

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