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Evaluators Signature : _____

Amazon EC2 Windows Instance.

In this capture it is going to describe how Amazon Elastic Compute Cloud (Amazon EC2) by launching and connecting using a Windows instance. An instance is a virtual server in the AWS cloud. To do that following steps should be performed.

Step 1: Launch an instance

- First go to the Amazon EC2 console at <https://console.aws.amazon.com/ec2/> and choose the Launch Instance button from the dashboard.

The screenshot shows the AWS EC2 Dashboard. On the left, there's a sidebar with links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances, AMIs, Elastic Block Store, Network & Security, and Plastic IPs. The main area is titled 'Resources' and shows statistics for Running Instances (0), Dedicated Hosts (0), Volumes (0), Key Pairs (0), Placement Groups (0), Elastic IPs (0), Snapshots (0), Load Balancers (0), and Security Groups (1). Below this is a callout box for 'Amazon Simple Workflow Service'. A large blue button labeled 'Launch Instance' is prominently displayed. To the right, there's a section for 'Account Attributes' showing VPC and Default VPC details, and another for 'Additional Information' with links to Getting Started Guide, Documentation, All EC2 Resources, Forums, Pricing, and Contact Us. At the bottom, there's a note about launching instances in the US West (Oregon) region, the AWS Marketplace section, and footer links for Privacy Policy and Terms of Use.

- Then select Windows free tier Amazon Machine Image (AMI)

The screenshot shows the 'Step 1: Choose an Amazon Machine Image (AMI)' wizard. It lists two options: 'Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-9abea4fb' and 'Microsoft Windows Server 2012 R2 Base - ami-8d0acfed'. Both are marked as 'Free tier eligible'. The 'Microsoft Windows Server 2012 R2 Base' option is selected. A callout box at the bottom asks if the user wants to launch a database instance using Amazon RDS. The wizard has 7 steps: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Tag Instance, 6. Configure Security Group, and 7. Review.

- Now select General purpose Instance type from the table and click Next Configure Instance Details 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 <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.small	1	2	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.medium	2	4	EBS only	-	Low to Moderate
<input type="checkbox"/>	General purpose	t2.large	2	8	EBS only	-	Low to Moderate

Cancel Previous Review and Launch Next: Configure Instance Details

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- Next there are instance details to configure. After configured select Add Storage option.

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1 [Launch into Auto Scaling Group](#)

Purchasing option: Request Spot instances

Network: vpc-fad7ae9e (172.31.0.0/16) (default) [Create new VPC](#)

Subnet: No preference (default subnet in any Availability Zone) [Create new subnet](#)

Auto-assign Public IP: Use subnet setting (Enable)

Domain join directory: None [Create new directory](#)

IAM role: None [Create new IAM role](#)

Shutdown behavior: Stop

Cancel Previous Review and Launch Next: Add Storage

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- In this step it is going to add storage for your instance. You can change the sizes according to your preference. To do that select the “Size” column in the table. Otherwise just ignore it. Then click the Next: Tag Instance button.

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/sda1	snap-1baab85d	30	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

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.

Cancel Previous **Review and Launch** Next: Tag Instance

- Now select 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-8d0acfcd
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

Cancel Previous **Launch**

- Then system prompts a dialog box to generate a key. Therefore first need to select “Create a new key pair” option or “Choose an existing key pair” option from the drop down list and have to give key pair name. In this case it is generates new key pair. After that click “Download Key Pair” button to continue. Then it is going to download the key.

Step 7: Review Instance Launch

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

AMI Details

Microsoft Windows Server 2012 R2 Standard

Instance Type

Instance Type	ECUs	VCPUs	Memory (GiB)	Storage (GiB)	Network Performance
t2 micro	Variable	1	1.75	16	Low to Moderate

Select an existing key pair or create a new key pair

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair

Key pair name

first

Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel Launch Instances

- Now the server launching the instance.

Launch Status

Your instances are now launching

The following instance launches have been initiated: i-0ab8d956bde854207 [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 Windows instance
- Amazon EC2: User Guide
- Amazon EC2: Microsoft Windows Guide
- Learn about AWS Free Usage Tier
- Amazon EC2: Discussion Forum

- After creating we can see the instance running on the server. If want we can check the instance information by clicking the “Status Checks” column in the table.

The screenshot shows the AWS EC2 Instances page. On the left, there's a sidebar with navigation links like EC2 Dashboard, Events, Tags, Reports, Limits, Instances, Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts, Images, AMIs, and Bundle Tasks. Below that is the Elastic Block Store section with Volumes and Snapshots. At the bottom are Network & Security and Security Groups sections. 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 Publ. There is one row for an instance named "i-0ab8d956bde854207" which is "running" in the "Status Checks" column. The Public DNS is listed as "ec2-52-41-174-141.us-west-2.compute.amazonaws.com" and the Public IP is "52.41.174.141". At the bottom of the page, there are links for Feedback, English, and a footer with copyright information.

Step 2: Connect to the Instance.

- After creating the windows instance, we can connect to it by Remote Desktop Connection. To do that first need to click connect button in the console. From that can get the password for connection.

The screenshot shows the AWS EC2 Instances page with a modal dialog titled "Connect To Your Instance". The dialog contains instructions: "You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:". It has a "Download Remote Desktop File" button. Below that, it says "When prompted, connect to your instance using the following details:" followed by "Public DNS: ec2-52-41-174-141.us-west-2.compute.amazonaws.com", "User name: Administrator", and a "Password" field with a "Get Password" button. It also includes a note: "If you've joined your instance to a directory, you can use your directory credentials to connect to your instance." and "If you need any assistance connecting to your instance, please see our [connection documentation](#)". At the bottom of the dialog is a "Close" button. The background of the page shows the same instance information as the previous screenshot.

- Browse the key pair path to get the password.

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

In order to retrieve your password you will need to specify the path of this Key Pair on your local machine:
Key Pair Path No file selected.

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

Private IPs 172.31.20.154 Secondary private IPs Security groups launch-wizard-3, view rules Scheduled events No scheduled events

- Get the password.

You can connect to your Windows instance using a remote desktop client of your choice, and by downloading and running the RDP shortcut file below:

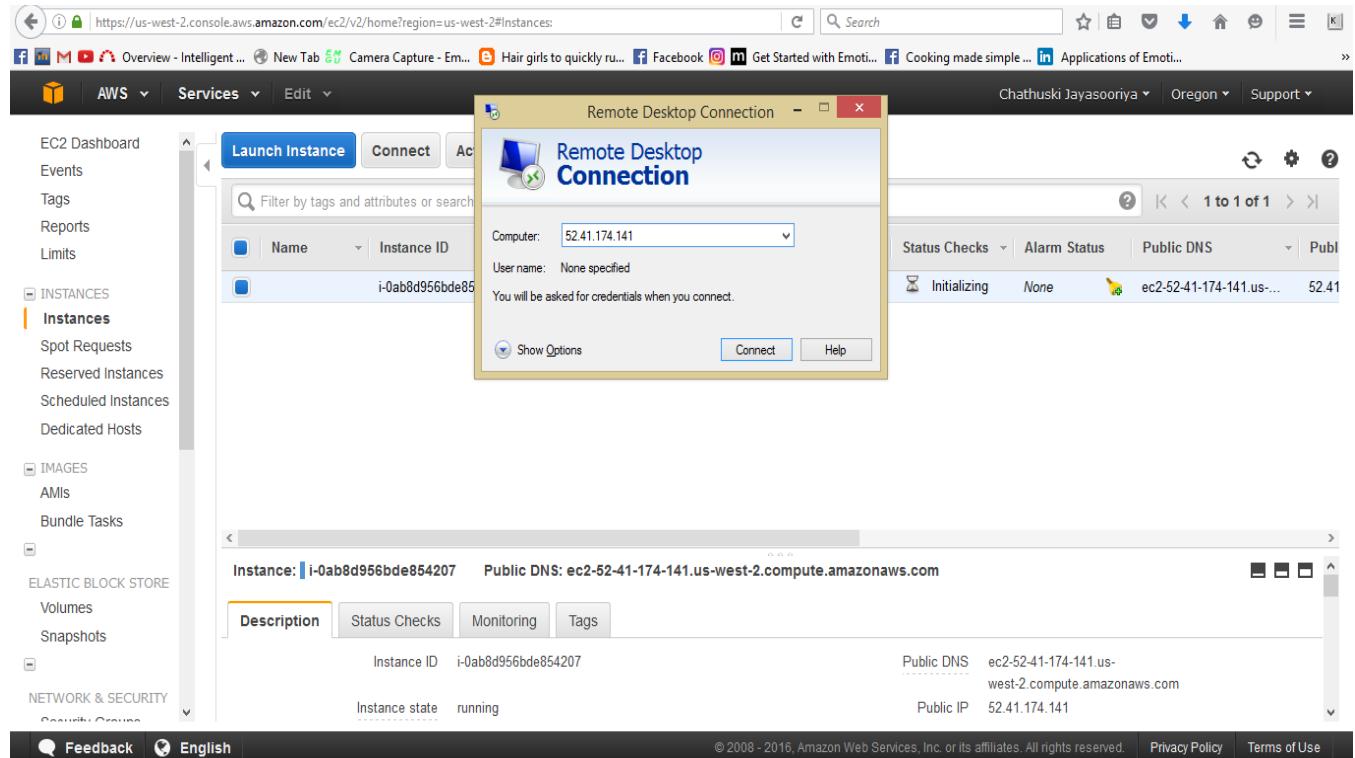
When prompted, connect to your instance using the following details:

Public DNS ec2-52-41-174-141.us-west-2.compute.amazonaws.com
User name Administrator
Password *5e=Pcrz&D?

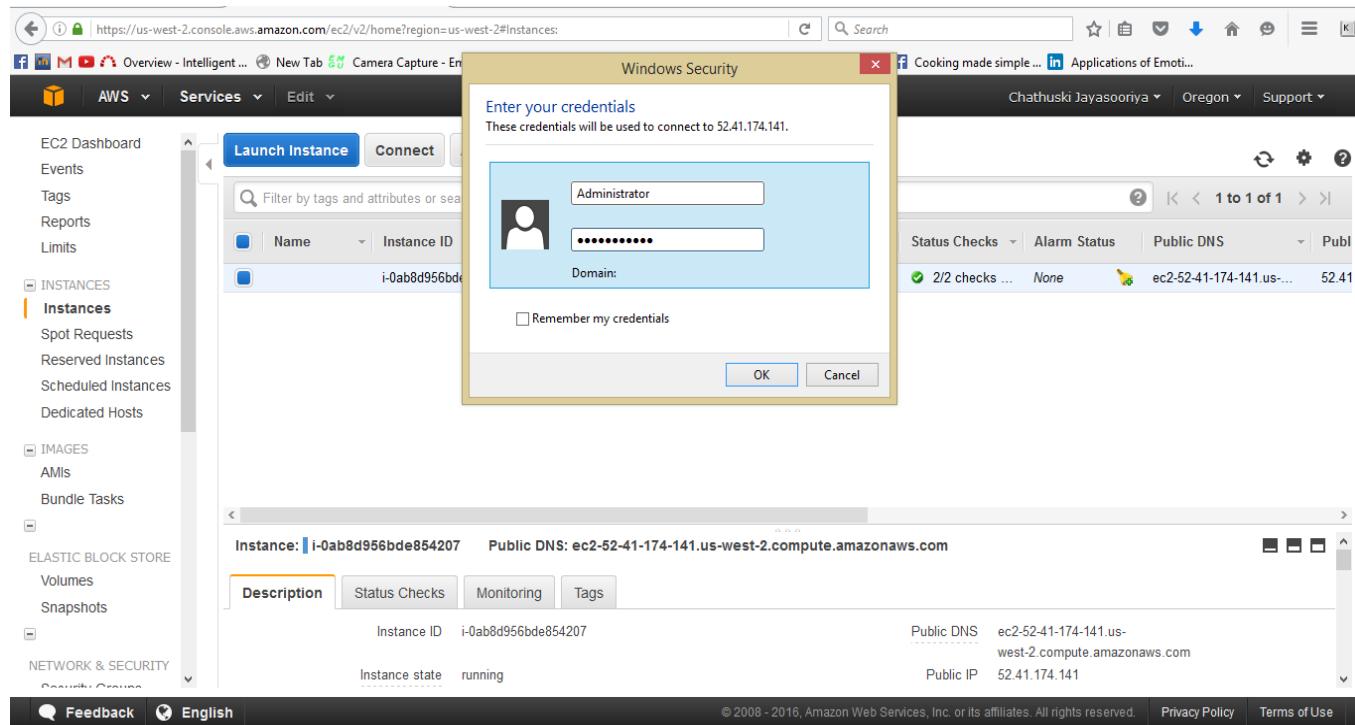
If you've joined your instance to a directory, you can use your directory credentials to connect to your instance.
If you need any assistance connecting to your instance, please see our [connection documentation](#).

Instance ID	i-0ab8d956bde854207	Public DNS	ec2-52-41-174-141.us-west-2.compute.amazonaws.com
Instance state	running	Public IP	52.41.174.141

- Open up Remote Desktop Connection and give the public IP for the Computer option. Then click connect button to continue.



- Give the user name and the password to connect to the instance.



- Finally run the Windows server.



Step 3: Terminate the Instance.

- If the work is done can terminate the connection.

The screenshot shows the AWS Management Console, specifically the EC2 Instances page. The left sidebar includes links for EC2 Dashboard, Events, Tags, Reports, Limits, Instances (selected), Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts, Images (AMIs), and Bundle Tasks. The main content area displays a table of instances. One instance, with the ID i-0ab8d956bde854207, is selected. A context menu is open over this instance, with the "Terminate" option highlighted. Below the table, detailed information about the selected instance is shown, including its Public DNS (ec2-52-41-174-141.us-west-2.compute.amazonaws.com) and Public IP (52.41.174.141).

Name	Instance ID	Instance Type	Availability Zone	Instance State	Status Checks	Alarm Status	Public DNS	Publ
i-0ab8d956bde854207	i-0ab8d956bde854207	t2.micro	us-west-2b	running	2/2 checks ...	None	ec2-52-41-174-141.us... 52.41	

Below the table, the instance details are summarized:

Instance: i-0ab8d956bde854207 **Public DNS:** ec2-52-41-174-141.us-west-2.compute.amazonaws.com

Description **Status Checks** **Monitoring** **Tags**

Instance ID: i-0ab8d956bde854207 Public DNS: ec2-52-41-174-141.us-west-2.compute.amazonaws.com
 Instance state: running Public IP: 52.41.174.141

Screenshot of the AWS EC2 Instances page showing a single instance in the 'shutting-down' state.

The instance details are as follows:

Attribute	Value
Instance ID	i-0ab8d956bde854207
Instance state	shutting-down
Instance type	t2.micro

Public DNS: -

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Screenshot of the AWS EC2 Instances page showing the same instance now in the 'terminated' state.

The instance details are as follows:

Attribute	Value
Instance ID	i-0ab8d956bde854207
Instance state	terminated
Instance type	t2.micro

Public DNS: -

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Amazon EC2 Linux Instance.

In this capture it is going to describe how Amazon Elastic Compute Cloud (Amazon EC2) by launching and connecting using a Linux instance. An instance is a virtual server in the AWS cloud. To do that following steps should be performed.

Step 1: Launch an instance

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The screenshot shows the Amazon EC2 Dashboard. On the left, there's a sidebar with links for EC2 Dashboard, Instances, Images, and Elastic Block Store. The main area has a 'Resources' summary with counts for Running Instances, Dedicated Hosts, Volumes, Key Pairs, Placement Groups, Elastic IPs, Snapshots, Load Balancers, and Security Groups. Below this is a 'Create Instance' section with a 'Launch Instance' button. To the right, there are sections for Account Attributes (Supported Platforms: VPC), Additional Information (Getting Started Guide, Documentation, All EC2 Resources, Forums, Pricing, Contact Us), and AWS Marketplace (Find free software trial products). At the bottom, there are feedback and language selection buttons.

- Then select Amazon Linux free tier Amazon Machine Image (AMI).

The screenshot shows the 'Choose an AMI' step in the Launch Instance Wizard. It lists three AMIs: 'Amazon Linux AMI 2016.03.3 (HVM), SSD Volume Type - ami-7172b611', 'Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type - ami-775e4f16', and 'SUSE Linux Enterprise Server 12 SP1 (HVM), SSD Volume Type - ami-d2627db3'. Each entry includes a 'Select' button and a note that they are 'Free tier eligible'. The 'Amazon Linux' entry is highlighted. At the top, there are tabs for 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Tag Instance, 6. Configure Security Group, and 7. Review. A 'Cancel and Exit' button is also visible.

- Now select General purpose Instance type from the table and click Next Configure Instance Details 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

Cancel Previous Review and Launch Next: Configure Instance Details

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- Next there are instance details to configure. After configured select Add Storage option.

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1

Purchasing option: Request Spot instances

Network: vpc-fad7ae9e (172.31.0.0/16) (default)

Subnet: No preference (default subnet in any Availability Zone)

Auto-assign Public IP: Use subnet setting (Enable)

IAM role: None

Shutdown behavior: Stop

Enable termination protection: Protect against accidental termination

Cancel Previous Review and Launch Next: Add Storage

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- In this step it is going to add storage for your instance. You can change the sizes according to your preference. To do that select the “Size” column in the table. Otherwise just ignore it. Then click the Next: Tag Instance button

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encrypted
Root	/dev/xvda	snap-d465048a	8	General Purpose SSD (GP2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

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.

Cancel Previous Review and Launch Next: Tag Instance

- Now select Review and Launch button.

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

Security group name: launch-wizard-2

Description: launch-wizard-2 created 2016-07-07T13:48:53.888+05:30

Type	Protocol	Port Range	Source
SSH	TCP	22	Anywhere 0.0.0.0/0

Add Rule

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel Previous Review and Launch

- Then system prompts a dialog box to generate a key. Therefore first need to select “Choose an existing key pair” option from the drop down list and have to give key pair name. In this case it is generates new key pair. After that click “Download Key Pair” button to continue. Then it is going to download the key

Step 7: Review Instance Launch

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](#).

Type: Create a new key pair
Key pair name: second

You have to download the **private key file** (*.pem file) before you can continue.
Store it in a **secure and accessible location**. You will not be able to download the file again after it's created.

Cancel Launch Instances

- Launch the instance.

Your instances are now launching

The following instance launches have been initiated: i-0c1693a4328498d8b 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

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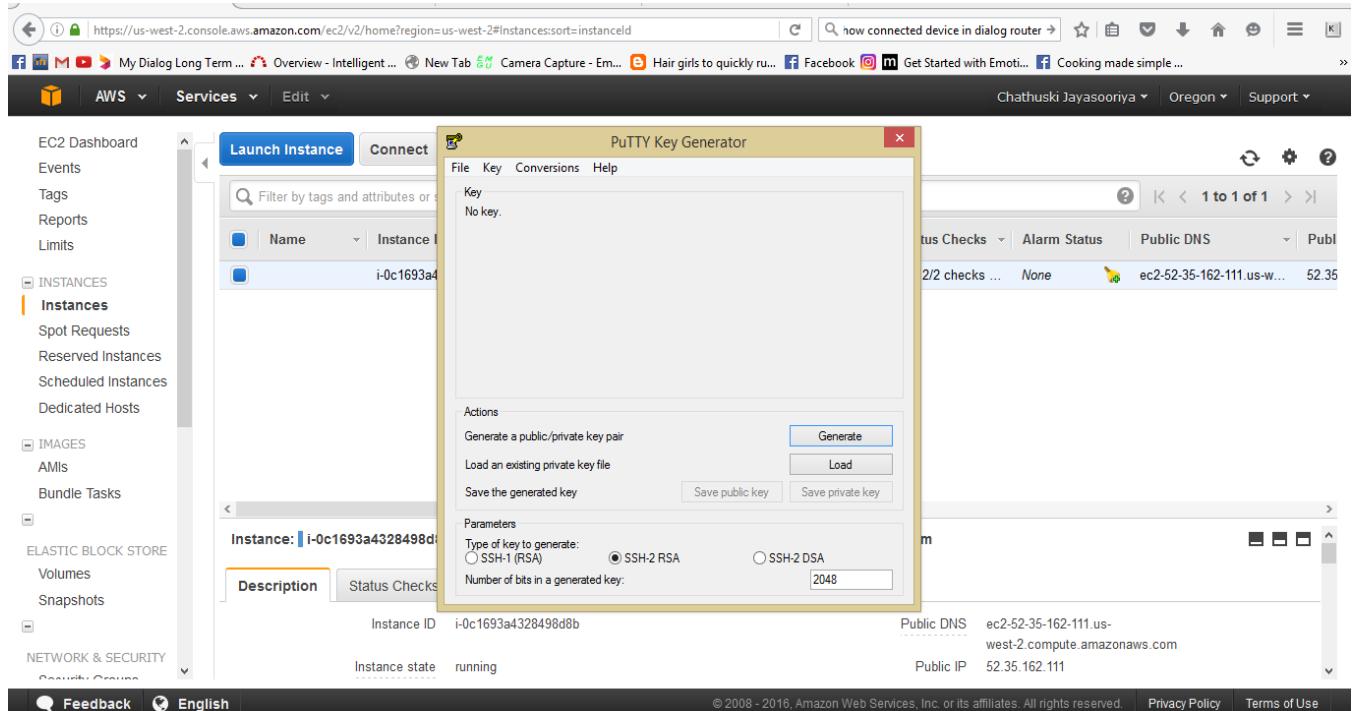
- View the instance.

The screenshot shows the AWS EC2 Instances page. On the left, there's a navigation sidebar with links like EC2 Dashboard, Events, Tags, Reports, Limits, Instances (which is selected), Spot Requests, Reserved Instances, Scheduled Instances, Dedicated Hosts, Images, AMIs, and Bundle Tasks. Below that are links for Elastic Block Store (Volumes, Snapshots) and Network & Security (Security Groups). 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 Publ. There is one row in the table: i-0c1693a4328498d8b, t2.micro, us-west-2a, pending, Initializing, None, and a yellow question mark icon. At the bottom of the table, there are buttons for Public DNS, Public IP, and Elastic IPs. A modal window is open for the instance, showing its private IP (172.31.26.0) and a tabbed interface with Description, Status Checks, Monitoring, and Tags. Under Description, it shows Instance ID (i-0c1693a4328498d8b), Instance state (pending), and Instance type (t2.micro). Under Public DNS, it shows ec2-52-35-162-111.us-west-2.compute.amazonaws.com and the public IP 52.35.162.111.

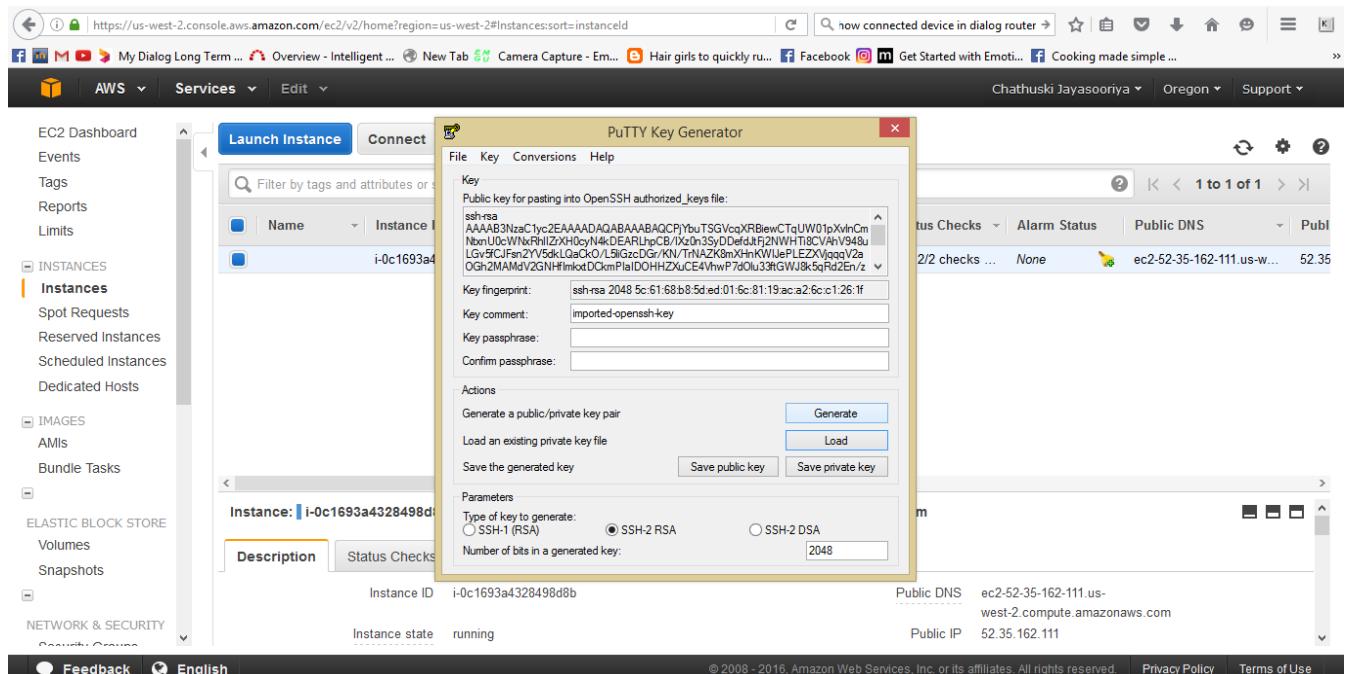
This screenshot is from the same AWS session, showing the instance after it has been launched. The instance status has changed from "pending" to "running". The rest of the interface and the modal window details remain the same as in the previous screenshot.

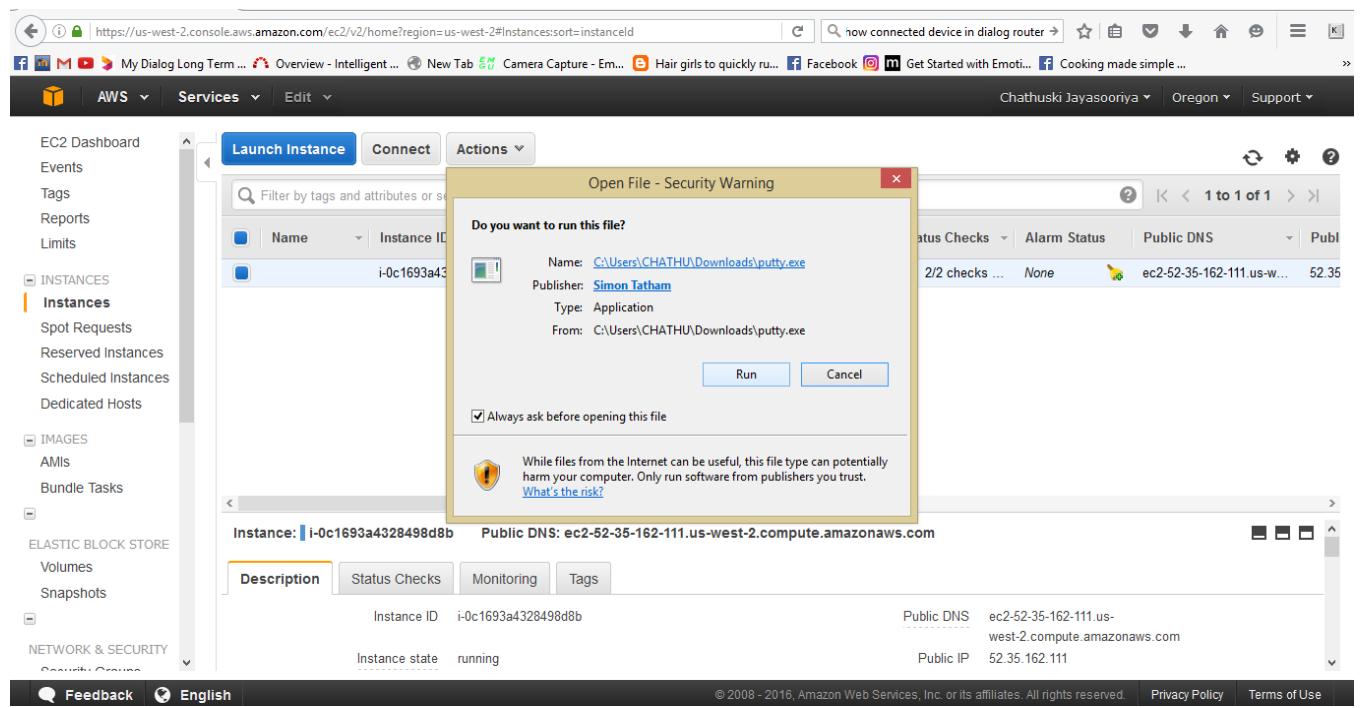
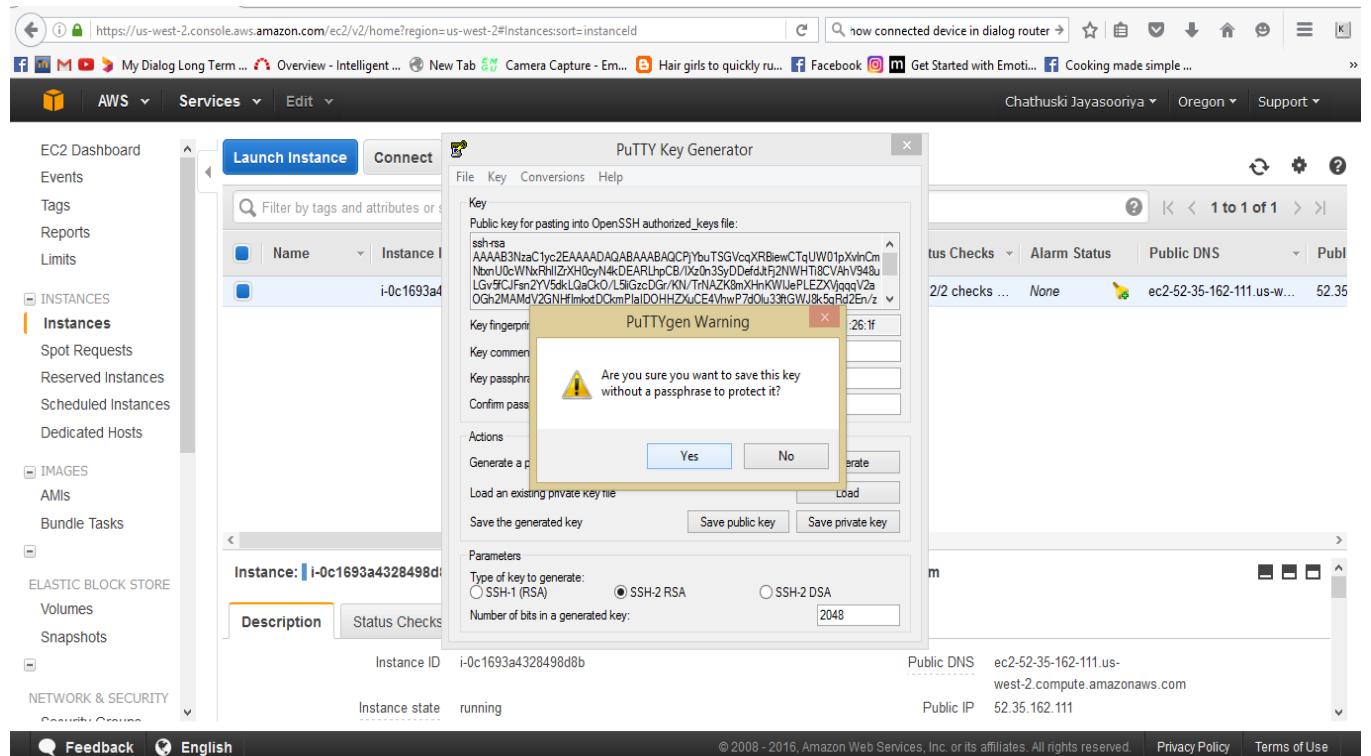
Step 2: Connect to the Instance.

- Open up the PuTTY Key Generator.

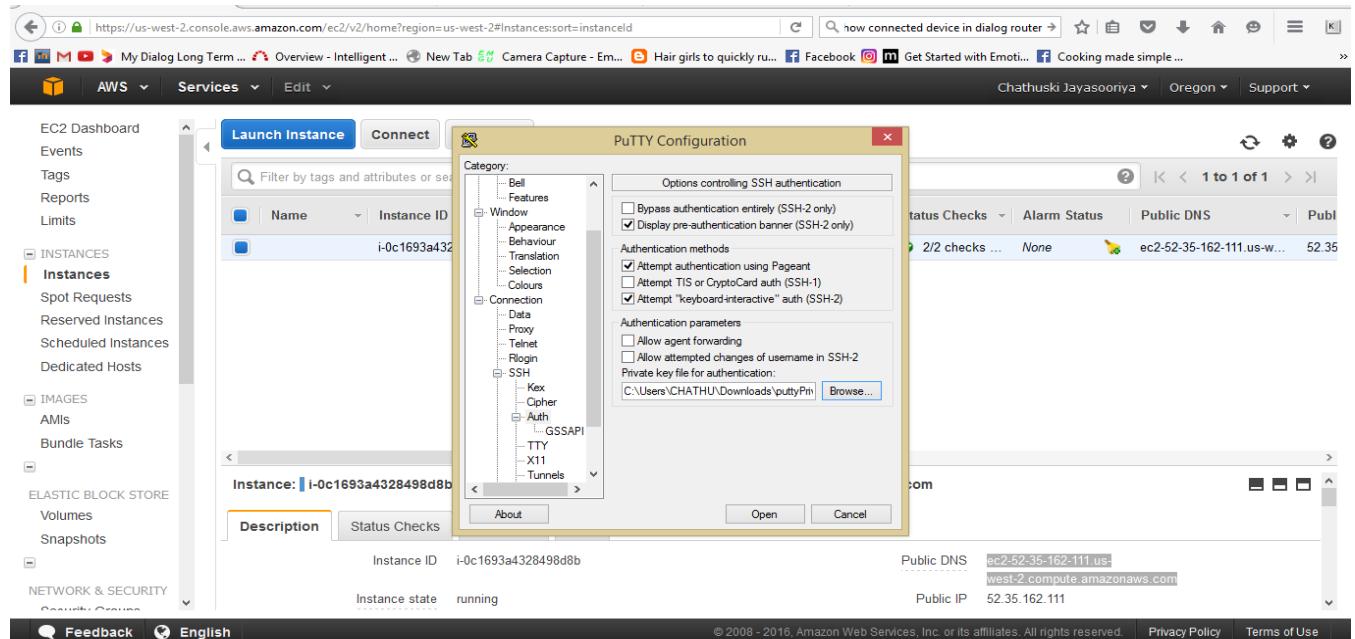


- Now load the downloaded key pair to the Putty Key Generator and Click Save private key button. Now it is going to save the key with .ppk format. In here the key pair is in .pem format. Therefore have to convert into .ppk format.

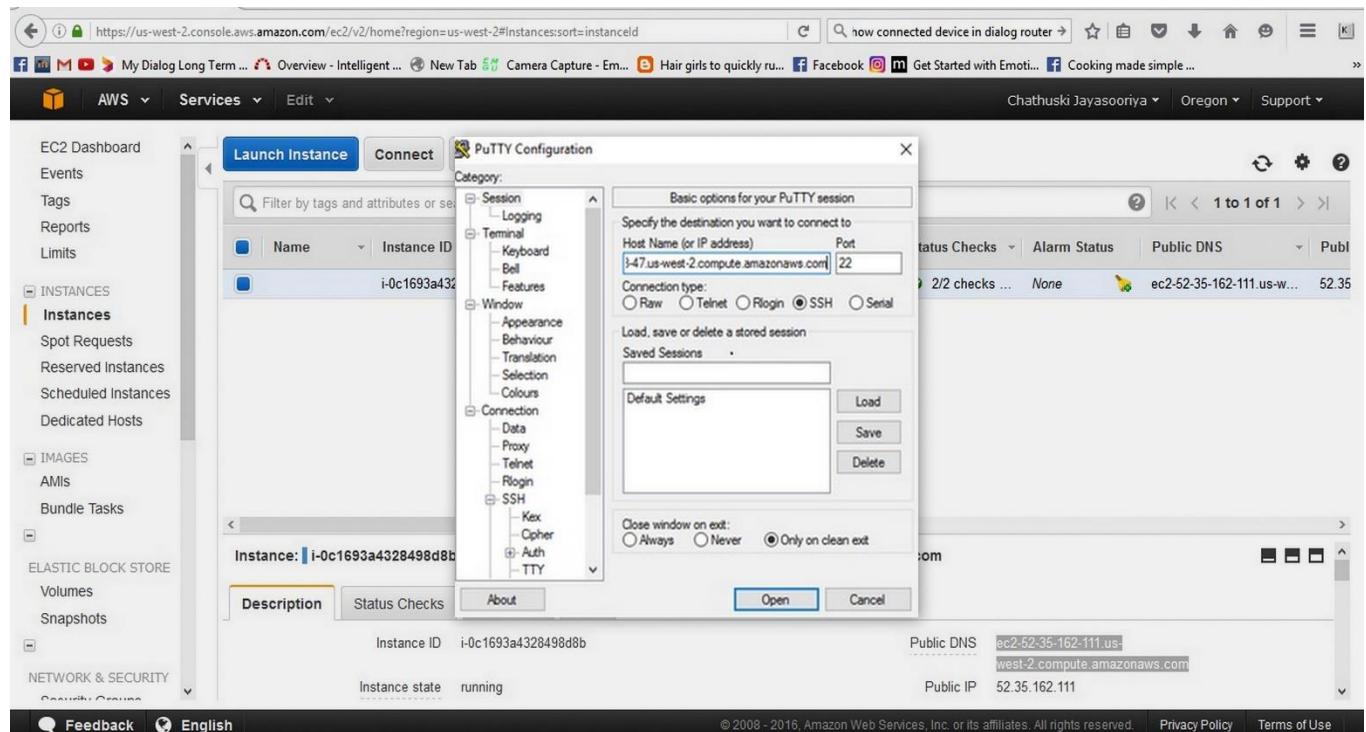




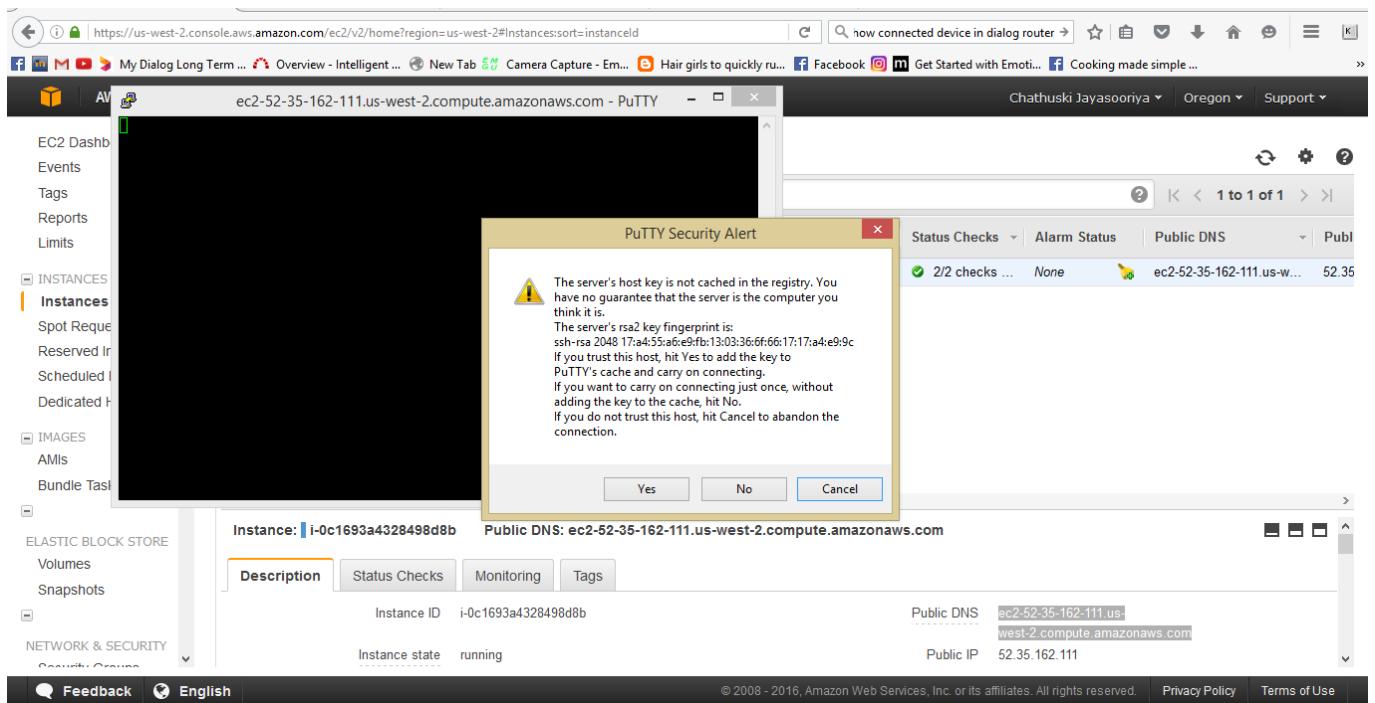
- Open PuTTY Configuration and go to Connection category. Select the Auth sub category and browse and select the key file in .ppk format.



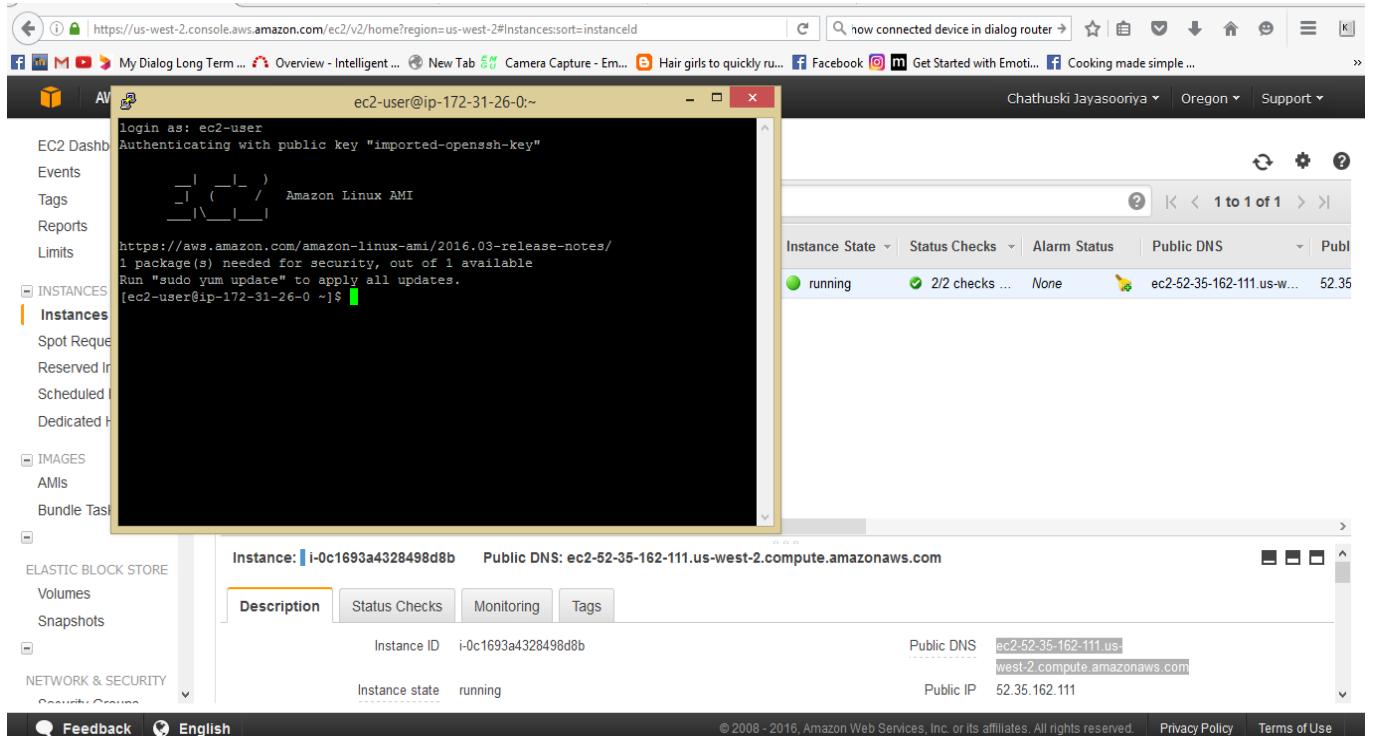
- Copy the Public DNS of the Linux instance and paste it in the host name.



- Finally can open the Linux server by giving ec2-user as the username.



- Successfully login in to the Linux Server.



Amazon RDS Database Instance.

In this capture it is going to describe how to create Amazon Relational Database Services (RDS) using amazon web services.

Step 1: Launch an instance

- First of all to create the DB instance go to database section in home page and select RDS.

The screenshot shows the AWS Management Console homepage. At the top, there's a header bar with the URL <https://us-west-2.console.aws.amazon.com/>, a mobile app link, and a Learn More button. To the right of the header, there's information about the AWS Console mobile app available from the Amazon Appstore, Google Play, or iTunes. Below the header, there's a "Shortcuts and Recently Viewed Services" section with a "RDS" icon. The main content area is titled "AWS Services" with a "SHOW CATEGORIES" link. It's organized into several sections: COMPUTE (EC2, EC2 Container Service, Elastic Beanstalk, Lambda), STORAGE & CONTENT DELIVERY (S3, CloudFront, Elastic File System, Glacier, Snowball, Storage Gateway), DATABASE (RDS, DynamoDB, ElastiCache), DEVELOPER TOOLS (CodeCommit, CodeDeploy, CodePipeline), MANAGEMENT TOOLS (CloudWatch, CloudFormation, CloudTrail, Config, OpsWorks, Service Catalog, Trusted Advisor), SECURITY & IDENTITY (IAM, Directory Service, Inspector), 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). On the right side, there are sections for "AWS MARKETPLACE", "FEEDBACK", and "Service Health". At the bottom, there's a toolbar with various icons and a status bar showing the date and time (7/13/2016, 8:50 AM).

The screenshot shows the RDS AWS Console dashboard. At the top, there's a header bar with the URL <https://us-west-2.console.aws.amazon.com/rds/hc>, a back button, and a search bar. To the right of the header, there are user profile details (Chathuski Jayasoori...), location (Oregon), and support links. The main content area is titled "Amazon Relational Database Service". It features a brief introduction: "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." Below the introduction are three buttons: "Get Started Now", "Getting Started Guide", and "Launch". There are also three icons with labels: "Launch" (database icon), "Connect" (computer monitor icon), and "Manage and Monitor" (person with gear and lock icon). At the bottom, there are footer links for "Feedback", "English", "Create DB Instances", "Once your DB instance is provisioned", "You can easily add resources, modify", and "Privacy Policy", "Terms of Use". The footer also includes the copyright notice "© 2008 - 2016, Amazon Web Services, Inc. or its affiliates. All rights reserved." and the date "7/13/2016".

- Select any database type whatever you like. Here MySQL is going to use as an example.

The screenshot shows the 'Select Engine' step of the AWS RDS setup wizard. The MySQL engine is selected, highlighted with a blue border. The MySQL section contains a brief description and a bulleted list of features:

- 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.

At the bottom right of the page, there are links for Feedback, English, Privacy Policy, and Terms of Use. The status bar at the bottom shows various system icons and the date/time: 7/13/2016, 2:51 AM.

- After selecting the engine have select a database according to the production purpose.

The screenshot shows the 'Production?' step of the AWS RDS setup wizard. The MySQL option is selected, highlighted with a blue border. The MySQL section contains a brief description and a bulleted list of features:

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

At the bottom right of the page, there are links for Cancel, Previous, and Next Step. The status bar at the bottom shows various system icons and the date/time: 7/13/2016, 2:52 AM.

- Here I'm going to select MySql RDS Free Usage Tier. Then click "Next Step" button.

Step 1: Select Engine

Step 2: Production?

Step 3: Specify DB Details

Step 4: Configure Advanced Settings

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.
This instance is intended for use outside of production or under the **RDS Free Usage Tier**.

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

Do you plan to use this database for production purposes?

Dev/Test

MySQL

Next Step

- Specify the DB details. According to the purpose can select any DB instance class , can allocate any storage type and storage size. The important part here is to create name for "DB instance identifier" , give a username for "Master Username" and generate password for "Master Password" options. And also it is very vital to remember this password and the DB instance name to connect your workbench with instance.

Step 1: Select Engine

Step 2: Production?

Step 3: Specify DB Details

Step 4: Configure Advanced Settings

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

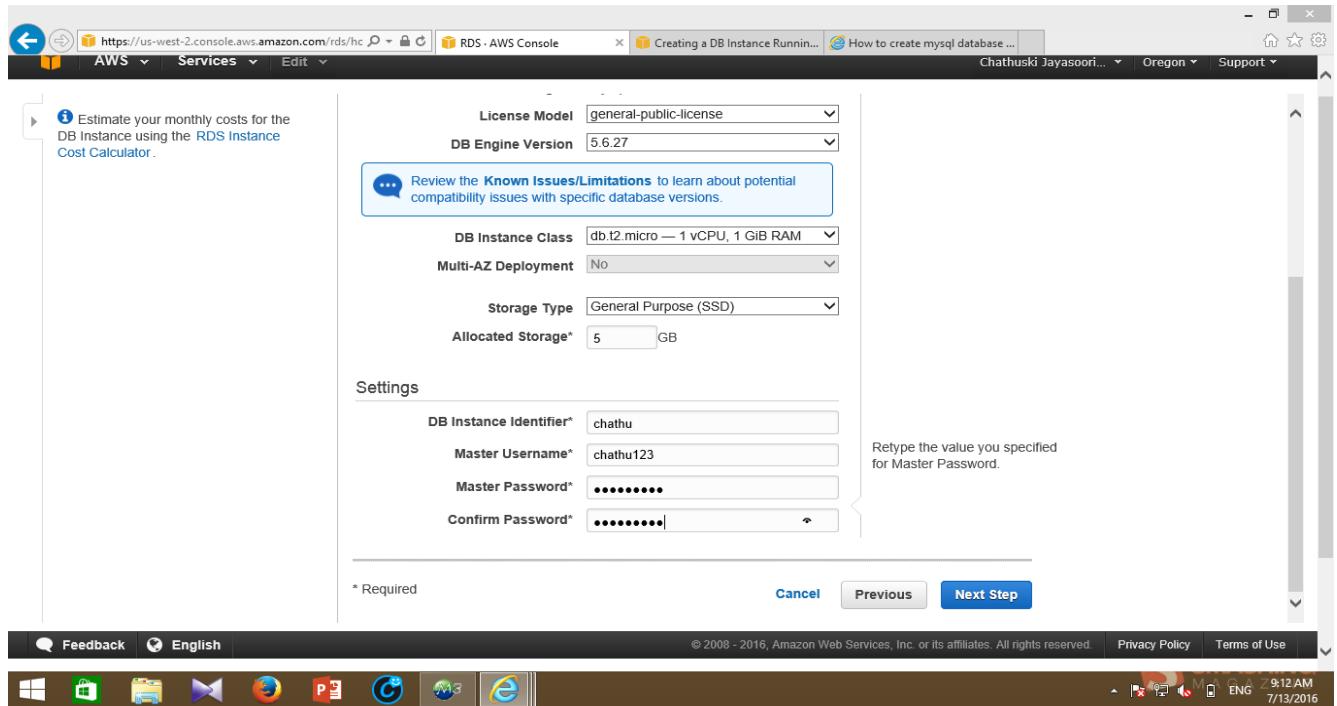
Instance Specifications

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	db.t2.micro — 1 vCPU, 1 GiB RAM
Multi-AZ Deployment	No
Storage Type	General Purpose (SSD)
Allocated Storage*	20 GB

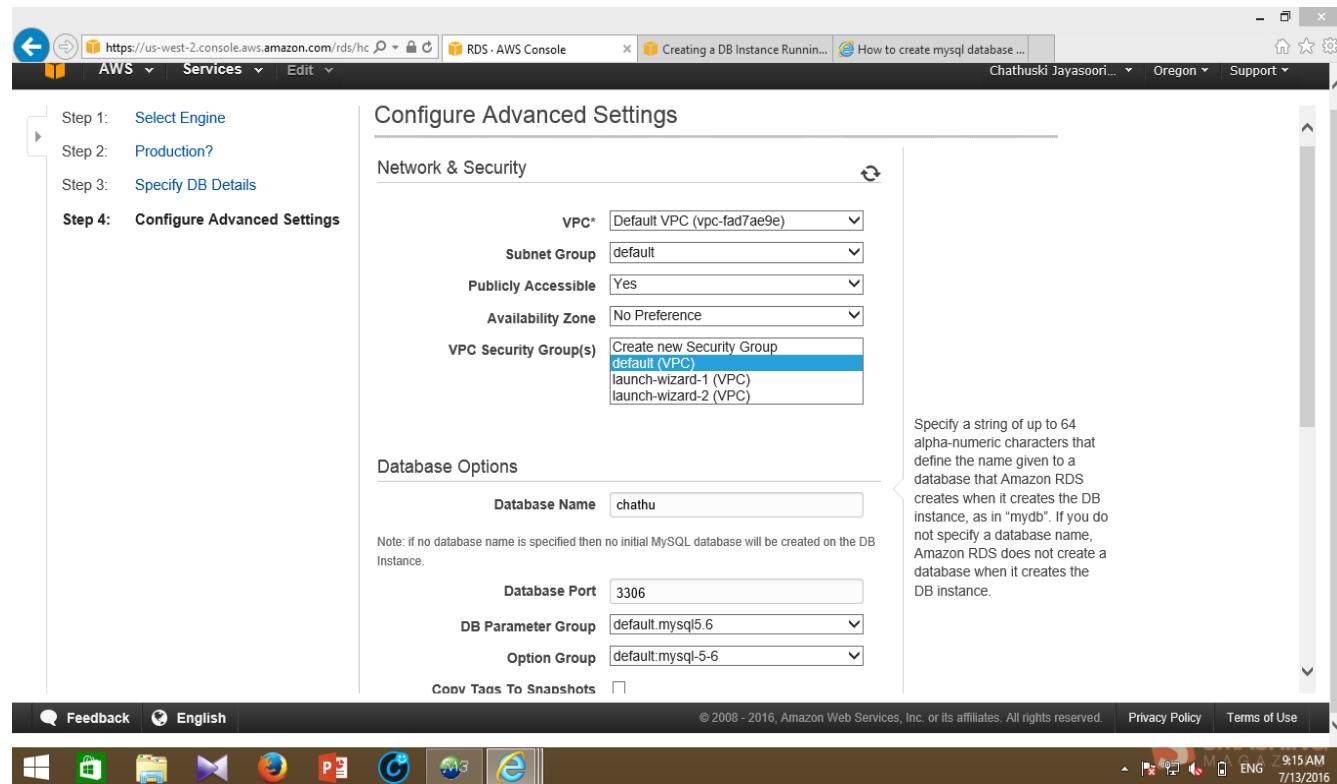
(Minimum: 5 GB, Maximum: 20 GB) Higher allocated storage may improve IOPS performance.

Specify DB Details

Next Step



- Configure the advanced Settings. Give any name to the database and keep other information as default.



AWS Services Edit

RDS - AWS Console Creating a DB Instance Running... How to create mysql database...

Chathuski Jayasoori... Oregon Support

Database Port: 3306
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: 7 days
Backup Window: No Preference

Monitoring

Enable Enhanced Monitoring: No

Maintenance

Auto Minor Version Upgrade: Yes
Maintenance Window: No Preference

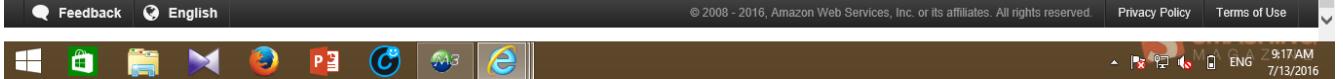
* Required

Cancel **Previous** **Launch DB Instance**

The daily time range (in UTC) during which automated backups are created if automated backups are enabled.

- Launch DB instance.

The screenshot shows a browser window with the URL <https://us-west-2.console.aws.amazon.com/rds/hc>. The page is titled "Creating a DB Instance Running..." and displays a step-by-step process for creating a database instance. Step 1 is "Select Engine", Step 2 is "Production?", Step 3 is "Specify DB Details", and Step 4 is "Configure Advanced Settings". A green success message box states "Your DB Instance is being created." with a note: "Note: Your instance may take a few minutes to launch." Below this, a section titled "Connecting to your DB Instance" explains that access will be granted via security groups. A link "Go to the Security Groups Page" is provided. A "Related AWS Services" section for "Amazon ElastiCache" is shown, with a link "Click here to learn more and launch your Cache Cluster". At the bottom right is a blue button labeled "View Your DB Instances".



- View the details of the instance.

RDS Dashboard

Instances

Filter: All Instances

DB Instance: chathu Status: creating

Endpoint: Not available yet

Alarms and Recent Events	Monitoring
TIME (UTC+5:30)	CURRENT VALUE THRESHOLD LAST HOUR
No Recent Events	CPU No Data
	Memory No Data
	Storage No Data
	Read IOPS No Data
	Write IOPS No Data
	Swap Usage No Data

Instance Actions Tags Logs

RDS Dashboard

Instances

Filter: All Instances

DB Instance: chathu Status: backing-up

Endpoint: chathu.c4szxk8bqns.us-west-2.rds.amazonaws.com:3306 (authorized)

Alarms and Recent Events	Monitoring
TIME (UTC+5:30)	CURRENT VALUE THRESHOLD LAST HOUR
No Recent Events	CPU No Data
	Memory 636 MB
	Storage 4,800 MB
	Read IOPS No Data
	Write IOPS No Data
	Swap Usage 0 MB

Instance Actions Tags Logs

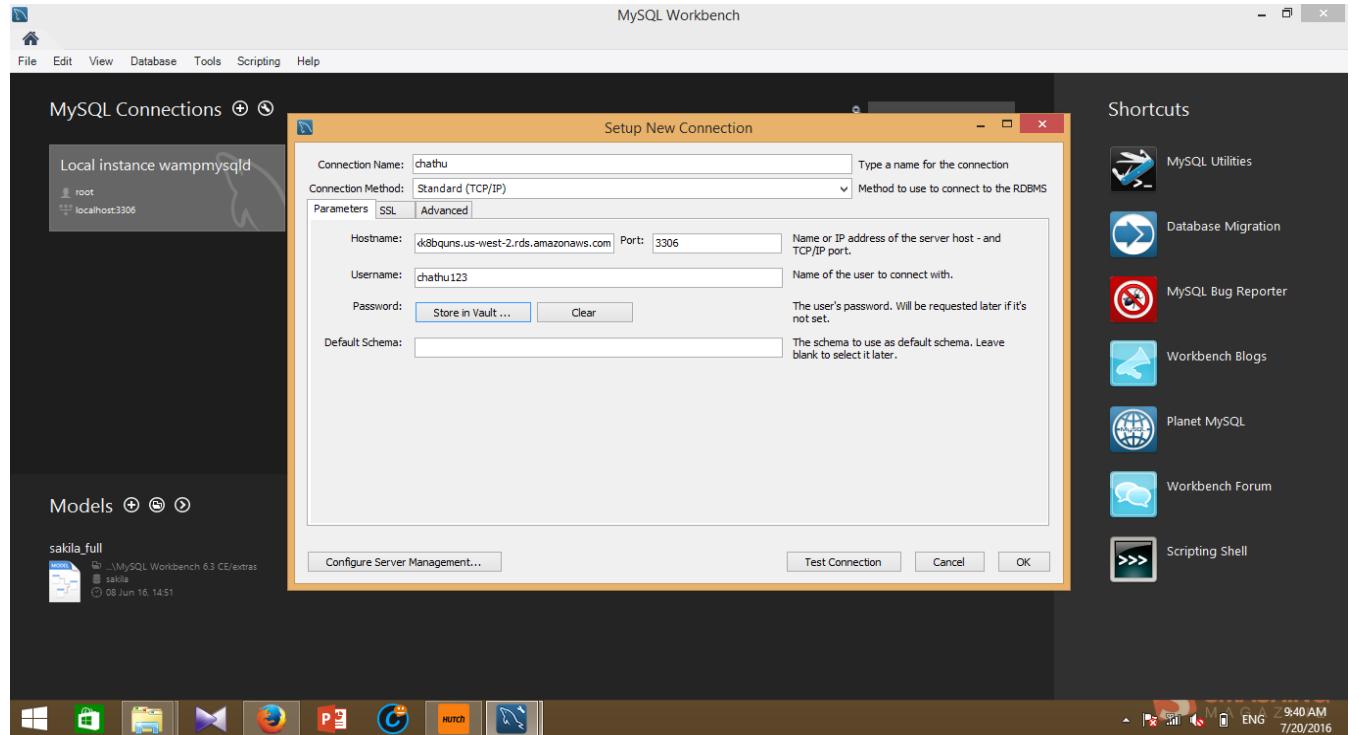
The screenshot shows the AWS RDS Dashboard. On the left, a sidebar lists various RDS services: Instances, Clusters, Reserved Purchases, Snapshots, Security Groups, Parameter Groups, Option Groups, Subnet Groups, Events, Event Subscriptions, and Notifications. The main content area displays a table for 'All Instances'. One instance, 'chathu', is listed with the status 'available'. The monitoring section shows CPU usage at 1.02%, 0 connections, and no maintenance scheduled. The 'Alarms and Recent Events' section lists several recent events, including a backup finish, a database creation, and a restart.

Step 2: Connect to the Instance.

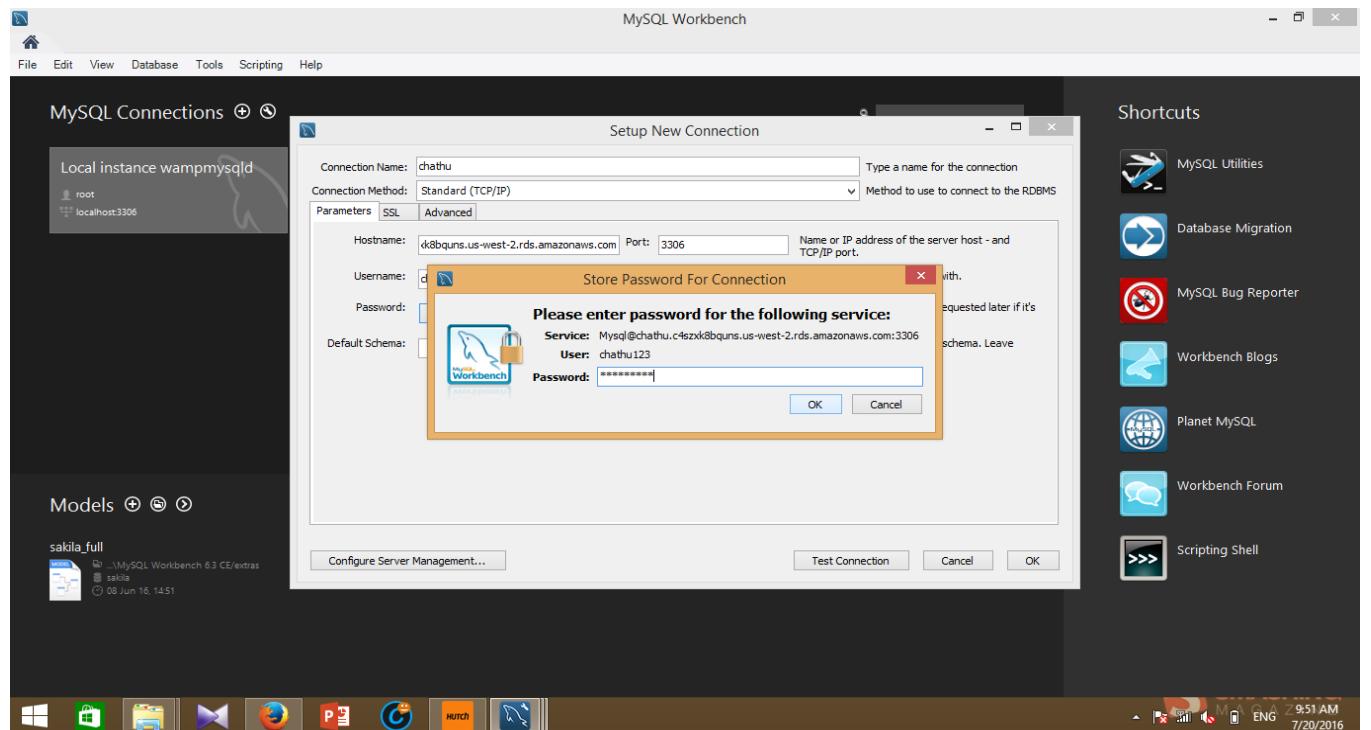
- Open up MySQL Workbench.

The screenshot shows the MySQL Workbench interface. The top menu bar includes File, Edit, View, Database, Tools, Scripting, and Help. The main workspace is titled 'MySQL Connections' and shows a connection to 'Local instance wampmysqld' with a user 'root' and host 'localhost:3306'. Below this is a 'Models' section containing a single model named 'sakila_full'. To the right is a 'Shortcuts' sidebar with links to MySQL Utilities, Database Migration, MySQL Bug Reporter, Workbench Blogs, Planet MySQL, Workbench Forum, and Scripting Shell. The bottom taskbar shows various system icons and the date/time '7/20/2016 9:21 AM'.

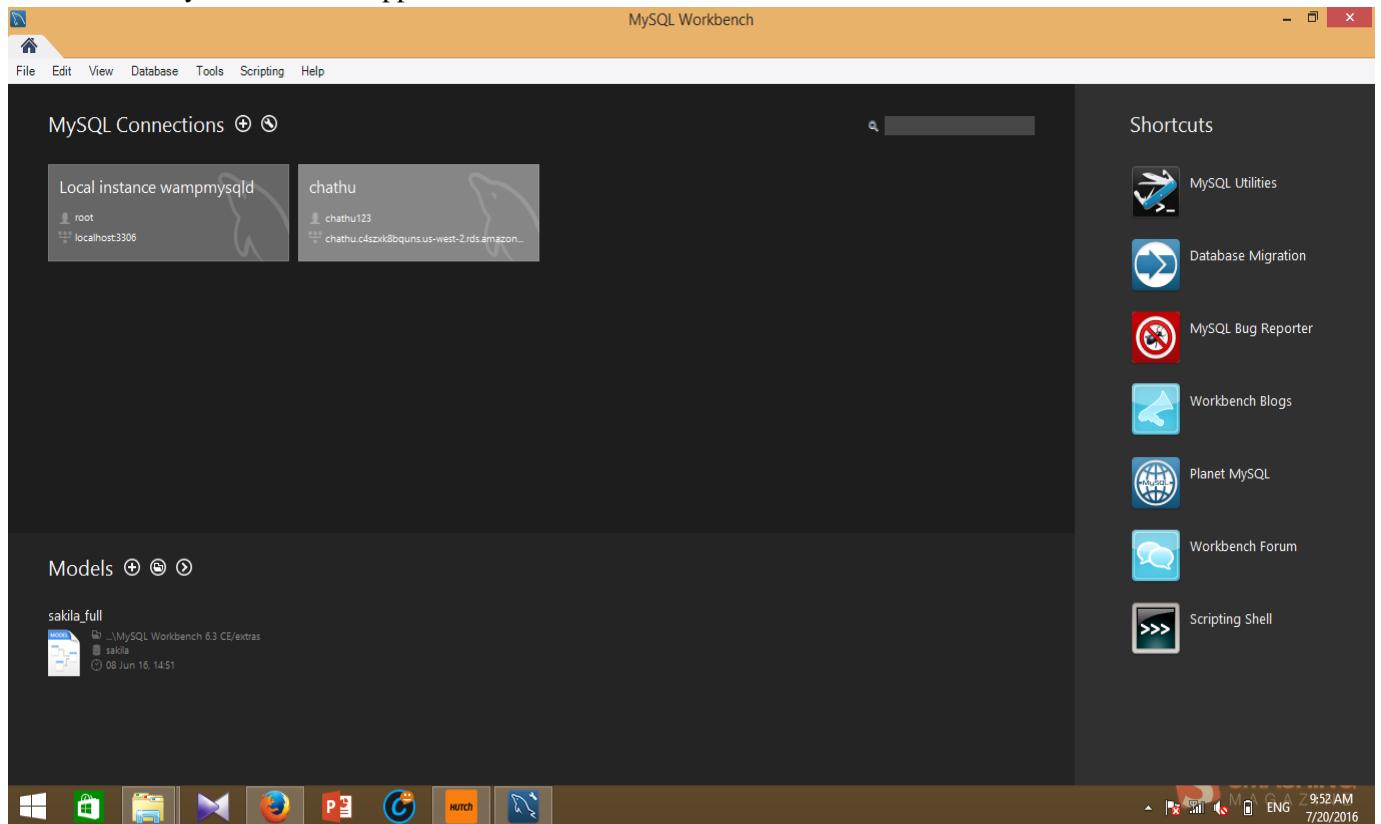
- Go to Database option and setup an new connection. Give DB name as the connection name and give Master Username as the username here. Then select Store in Vault option.



- type the password which you gave when specifying the DB details. Press OK to continue.



- Finally connection is appear in the console.



- Open up Xwamp

