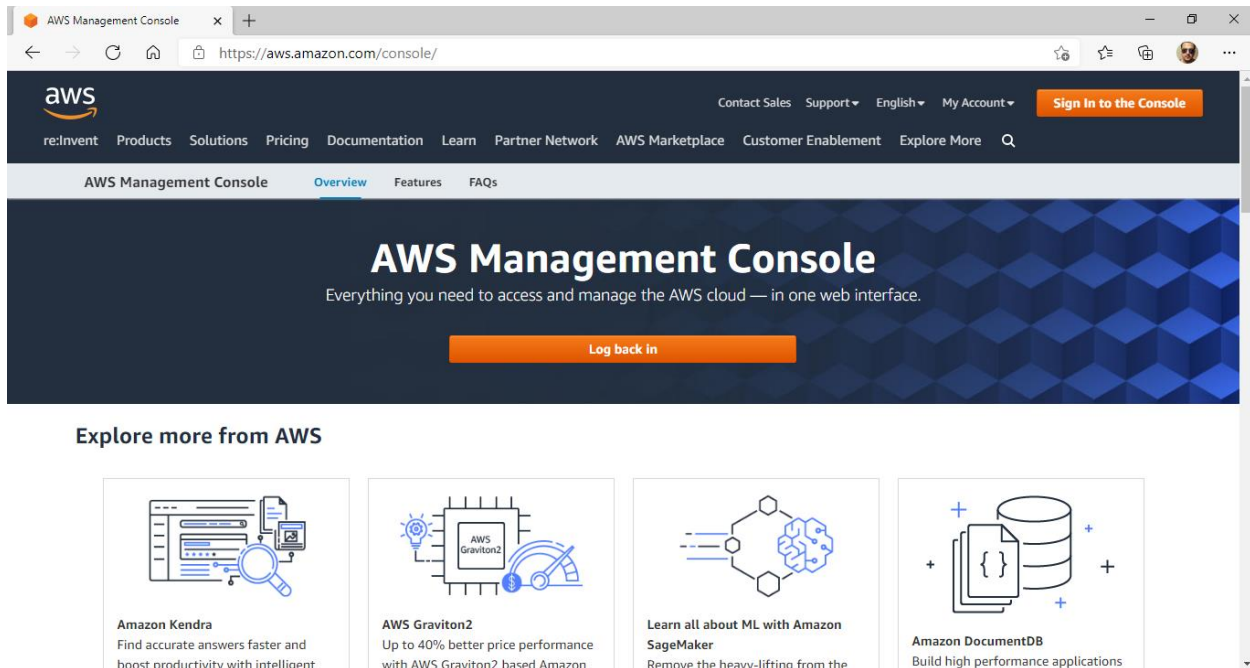


Steps to Install MySQL on Amazon Linux EC2

Step 1: Go to AWS Management Console (amazon.com)



Step 2: Provide credentials

Amazon Web Services Sign-In

https://signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3...

aws

Sign in

☒ **Root user**
Account owner that performs tasks requiring unrestricted access. [Learn more](#)

☐ **IAM user**
User within an account that performs daily tasks. [Learn more](#)

Root user email address

sabbir.poonawala@hotmail.com

Next


[New to AWS?](#)

Create a new AWS account

Build Mobile and Web Apps Fast

Add authentication and data syncing with AWS Amplify in just a few lines of code

LEARN MORE



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Amazon Web Services Sign-In

https://signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3...

aws

Root user sign in ⓘ

Email: sabbir.poonawala@hotmail.com

Password [Forgot password?](#)

|

Sign in


[Sign in to a different account](#)

[Create a new AWS account](#)

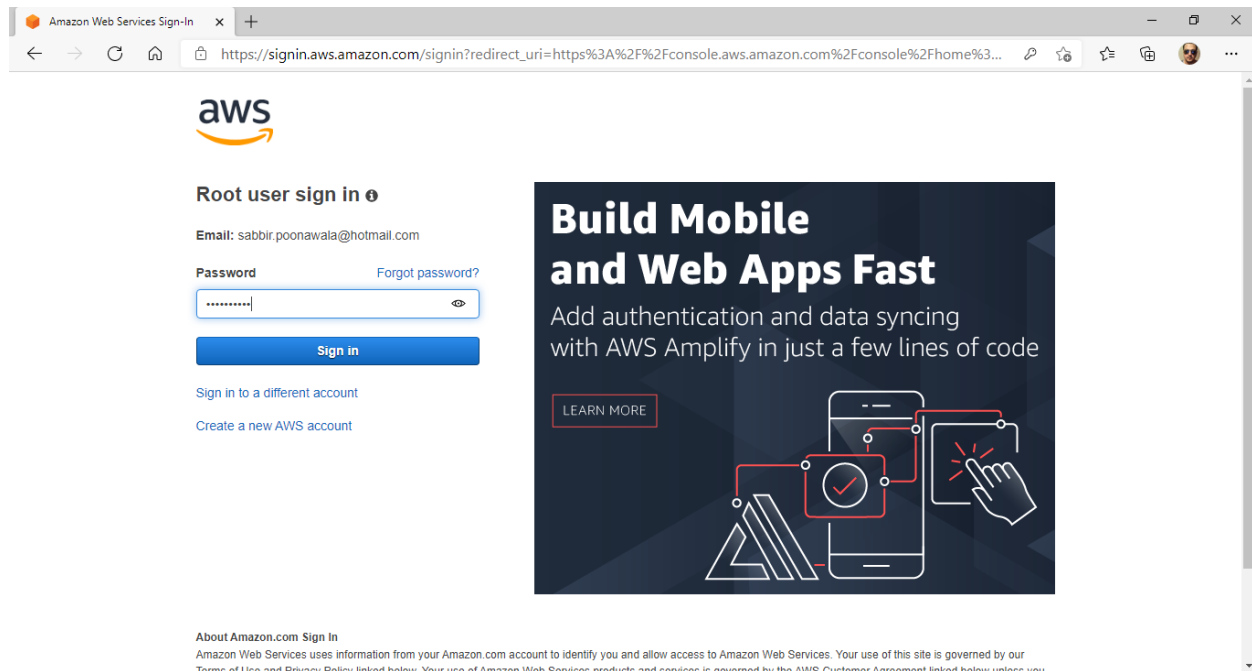
Build Mobile and Web Apps Fast

Add authentication and data syncing with AWS Amplify in just a few lines of code

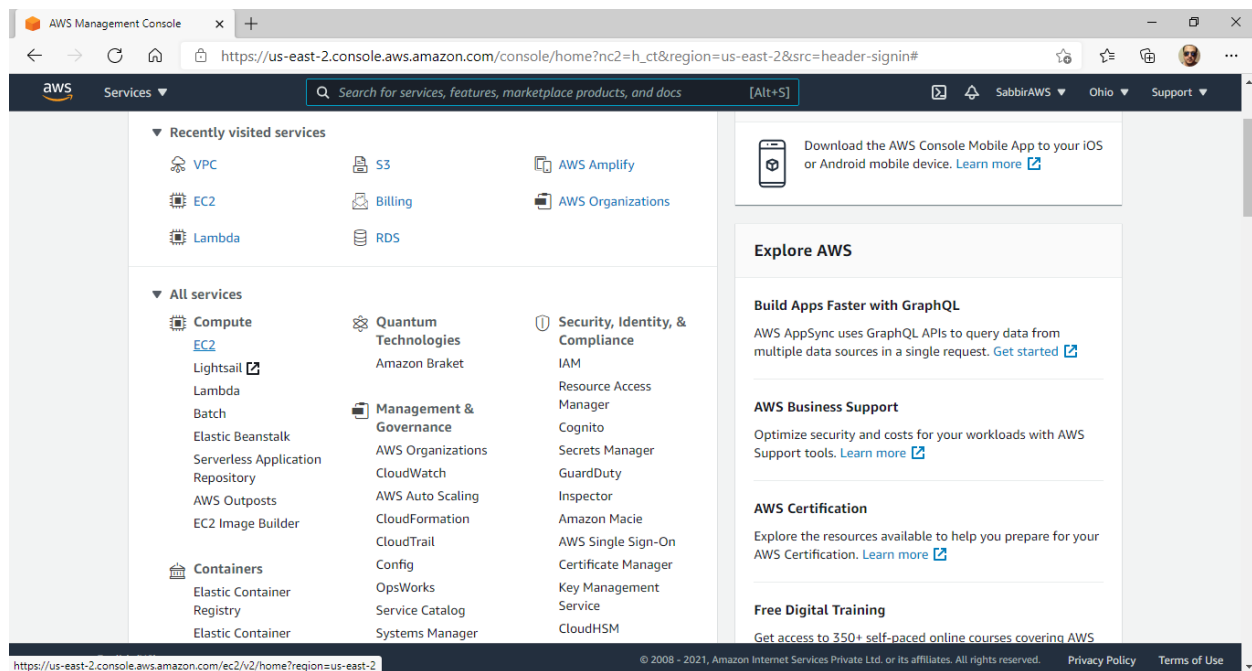
LEARN MORE



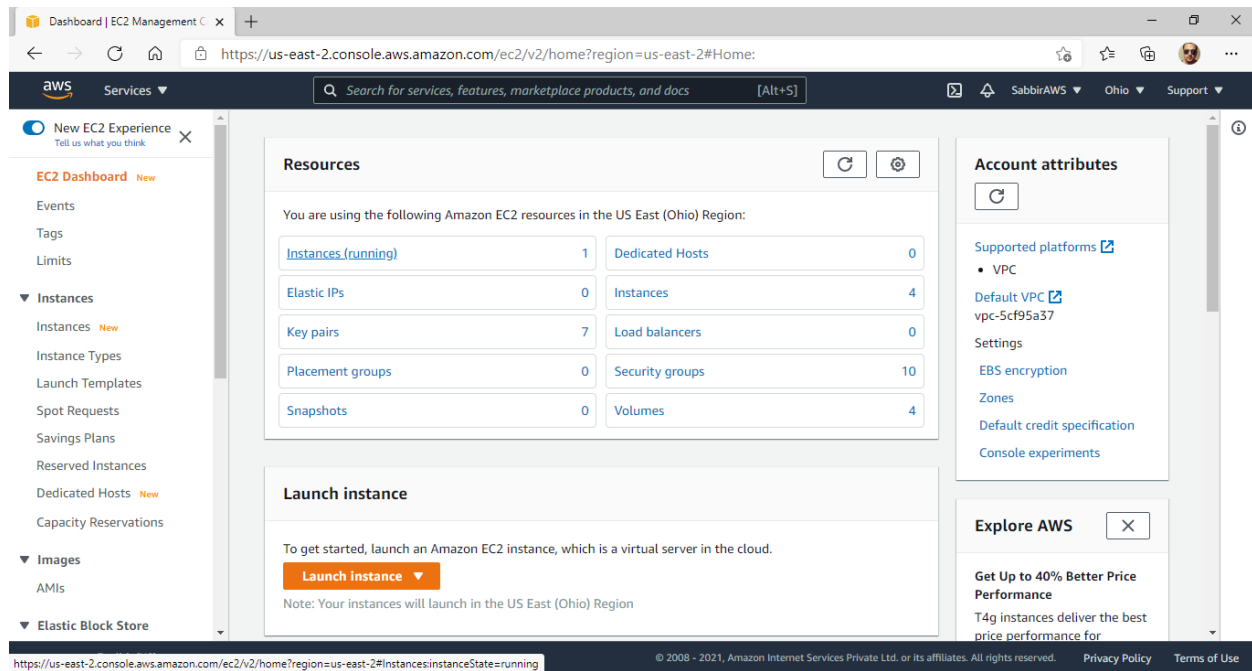
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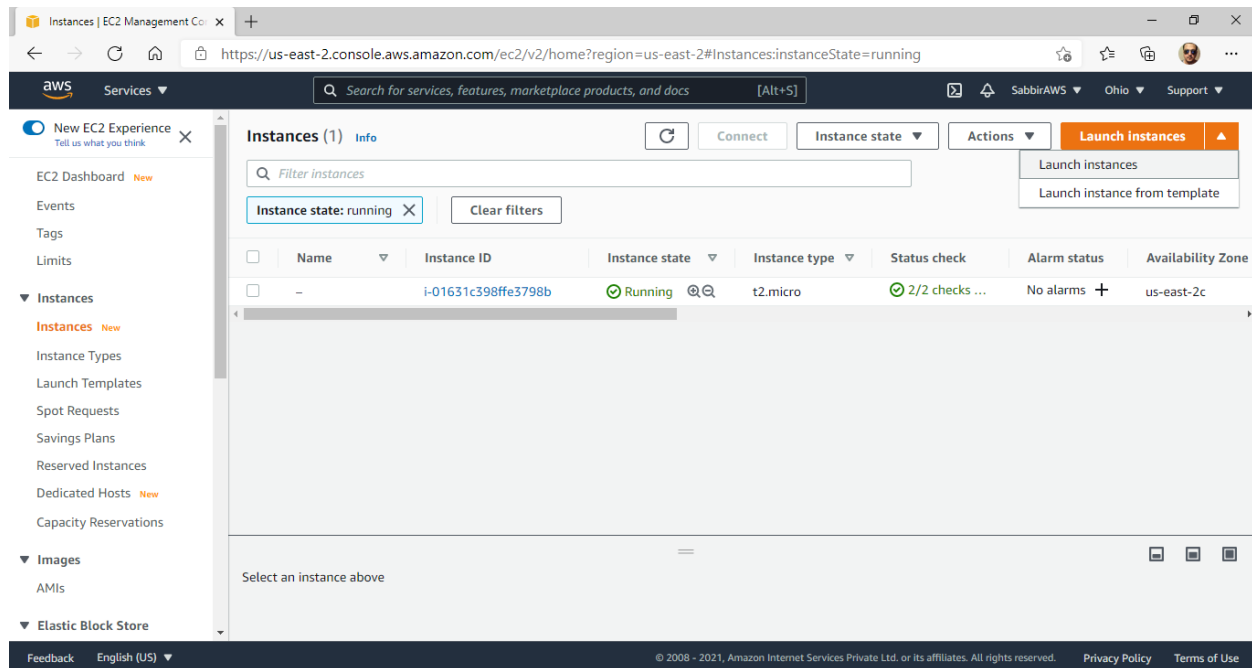
Step 3: In all services click on EC2



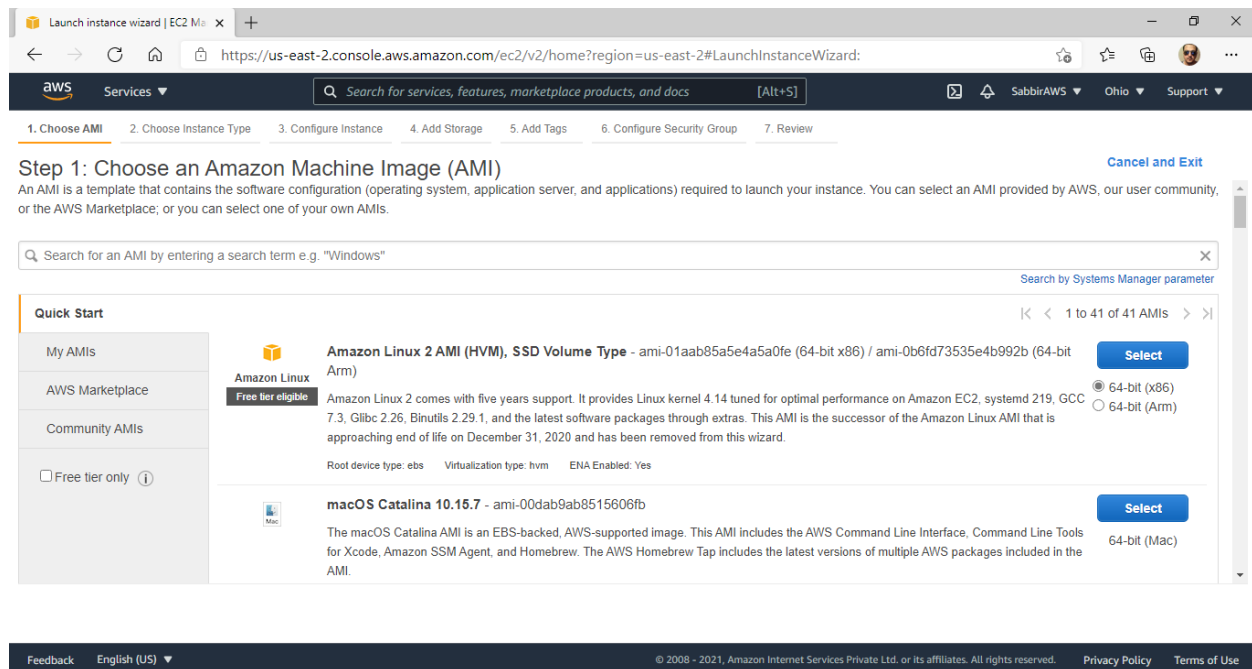
Step 4: In resources click on Instances(Running) or Launch Instance button



Step 5: On Launch instances button options select Launch Instances



Step 6: Make sure to select Amazon Linux 2 AMI (Free tier eligible)



Step 7: Choose instance type (Keep default selected), Click on Next Configure instance details

The screenshot shows the AWS Management Console 'Launch Instance Wizard' at Step 2: Choose an Instance Type. The breadcrumb navigation shows: 1. Choose AMI, 2. Choose Instance Type, 3. Configure Instance, 4. Add Storage, 5. Add Tags, 6. Configure Security Group, 7. Review. The current step is 'Choose an Instance Type'. Below the breadcrumb, there is a description of Amazon EC2 instance types. Below that, there are filters: 'All instance families', 'Current generation', and 'Show/Hide Columns'. The 'Currently selected' text indicates: 't2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)'. A table lists several instance types, with 't2.micro' highlighted as the selected option. The table columns are: Family, Type, vCPUs, Memory (GiB), Instance Storage (GB), EBS-Optimized Available, Network Performance, and IPv6 Support. At the bottom of the table, there are buttons: 'Cancel', 'Previous', 'Review and Launch', and 'Next: Configure Instance Details'.

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 families Current generation Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

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Step 8: Click on Next Add Storage keeping all details as default

Launch instance wizard | EC2 M... x +

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

Services Search for services, features, marketplace products, and docs [Alt+S]

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

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-5cf95a37 (default) Create new VPC

Subnet No preference (default subnet in any Availability Zone) Create new subnet

Auto-assign Public IP Use subnet setting (Enable)

Placement group ☐ Add instance to placement group

Capacity Reservation Open

Domain join directory No directory Create new directory

IAM role None Create new IAM role

Cancel Previous Review and Launch Next: Add Storage

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Step 8: Click on Next Add Tags keeping all details as default(unless required)

Launch instance wizard | EC2 M... x +

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

Services Search for services, features, marketplace products, and docs [Alt+S]

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

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	Encryption
Root	/dev/xvda	snap-0426ac168e3818bc3	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt

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: Add Tags

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Step 8: Add key as “Name” and value as “AWSMySQLServer” and click on Next Configure Security group

The screenshot shows the AWS Management Console interface for the 'Launch instance wizard'. The breadcrumb trail at the top indicates the current step is '5. Add Tags'. The main heading is 'Step 5: Add Tags', followed by explanatory text: 'A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.'

Below the text is a table for adding tags. The table has columns for 'Key', 'Value', 'Instances', 'Volumes', and 'Network Interfaces'. A single tag is added with the key 'Name' and the value 'AWSMySQLServer'. All checkboxes for 'Instances', 'Volumes', and 'Network Interfaces' are checked. Below the table is a button 'Add another tag' with the text '(Up to 50 tags maximum)'.

At the bottom of the wizard, there are navigation buttons: 'Cancel', 'Previous', 'Review and Launch' (highlighted in blue), and 'Next: Configure Security Group'.

Key (128 characters maximum)	Value (256 characters maximum)	Instances	Volumes	Network Interfaces
Name	AWSMySQLServer	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Security Group](#)

Step 9: Click on Add Rule

Launch instance wizard | EC2 M... x

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

aws Services Search for services, features, marketplace products, and docs [Alt+S] SabirAWS Ohio Support

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

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	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

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**

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Step 9: From Type drop down box select “Custom TCP”, Port Range as “3306”

Source as “Anywhere” and description as “Access to MySQL Port”

Launch instance wizard | EC2 M... x

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

Services Search for services, features, marketplace products, and docs [Alt+S]

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

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	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
Custom TCP f	TCP	3306	Anywhere 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

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

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Step 10: Click on Review and Launch

Launch instance wizard | EC2 M... x +

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

Services Search for services, features, marketplace products, and docs [Alt+S]

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

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	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
Custom TCP f	TCP	3306	Anywhere 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

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

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Step 11: From drop down box select “Create a new key pair” and give key pair name as “AWSMySQLServer” and click on download key pair on desktop(This file will be required later)

Launch instance wizard | EC2 M... x +

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

Services Search for services, features, marketplace products, and docs [Alt+S]

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

Step 7: Review Instance Launch

Please review your instance launch details. You can...

Improve your instances' security
 Your instances may be accessible from a public IP address. You can also open additional ports in your security group.

AMI Details

Amazon Linux 2 AMI (HVM), SS
 Amazon Linux 2 comes with five years software packages through extras. This...
 Root Device Type: ebs Virtualization type: ...

Instance Type

Instance Type	ECUs	vCPUs
t2.micro	-	1

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

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.

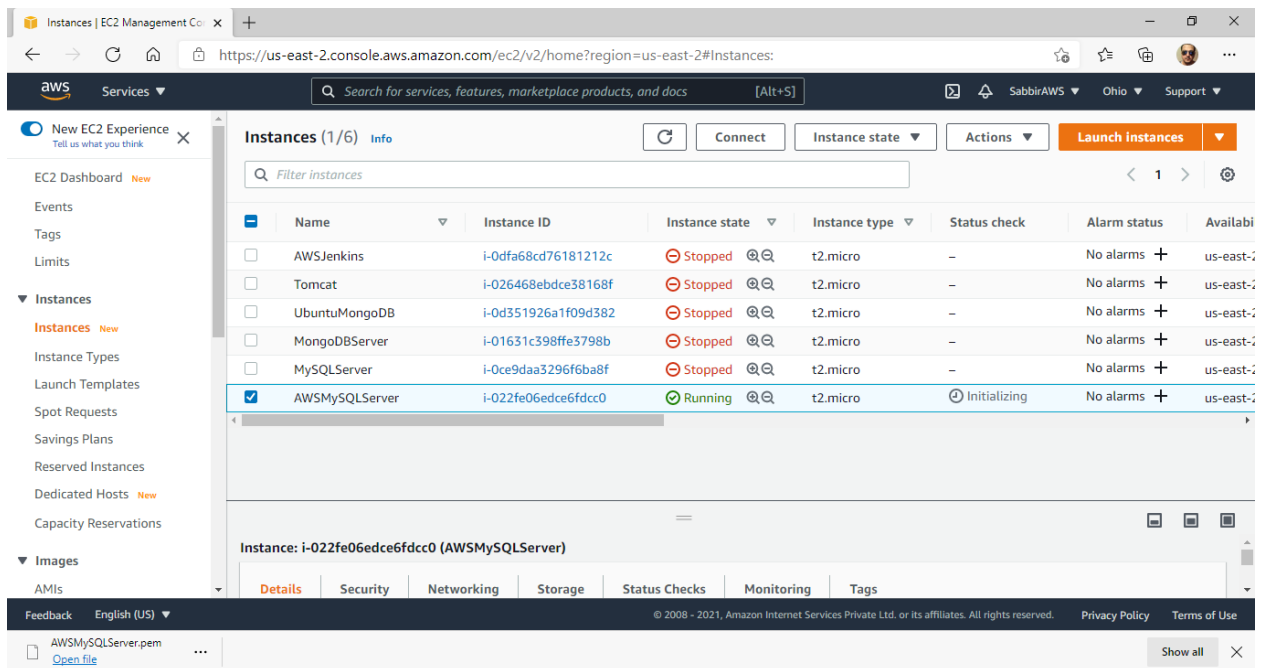
Cancel Launch Instances

Network Performance
 Low to Moderate

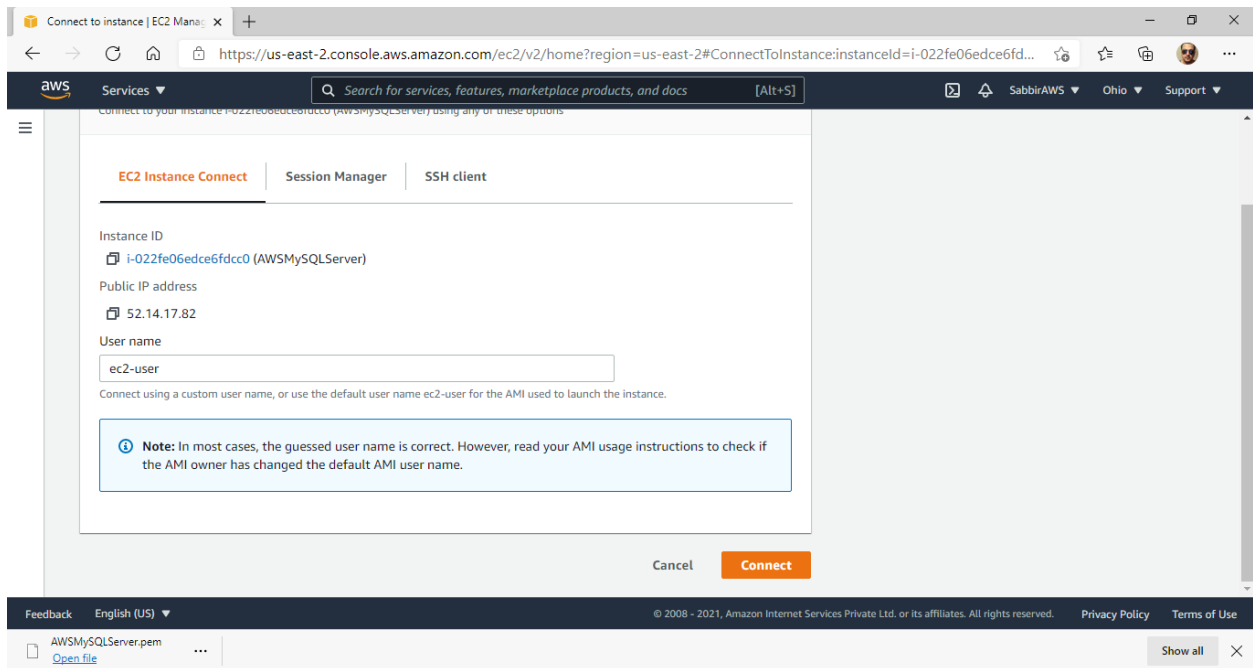
Cancel Previous Launch

And Click on Launch Instance

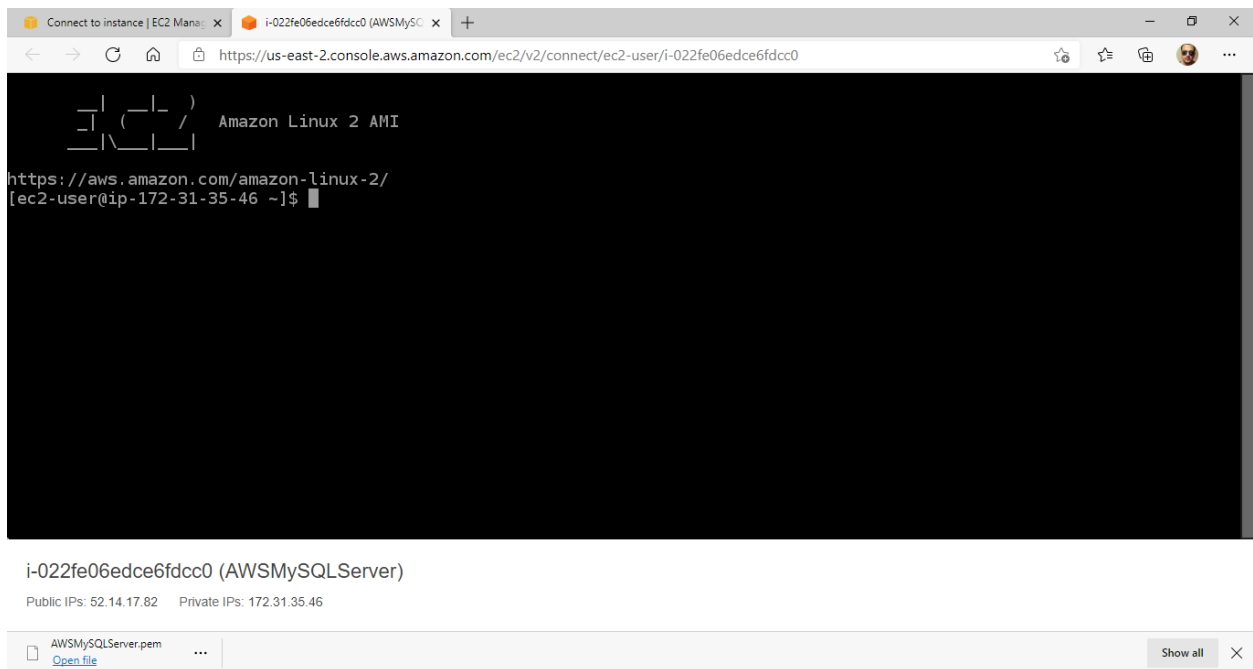
**Step 12: We will use AWS CLI (Another option is to connect using putty)
Select checkbox for instance AWSMySQLServer and click on connect**



Step 13: Click on connect

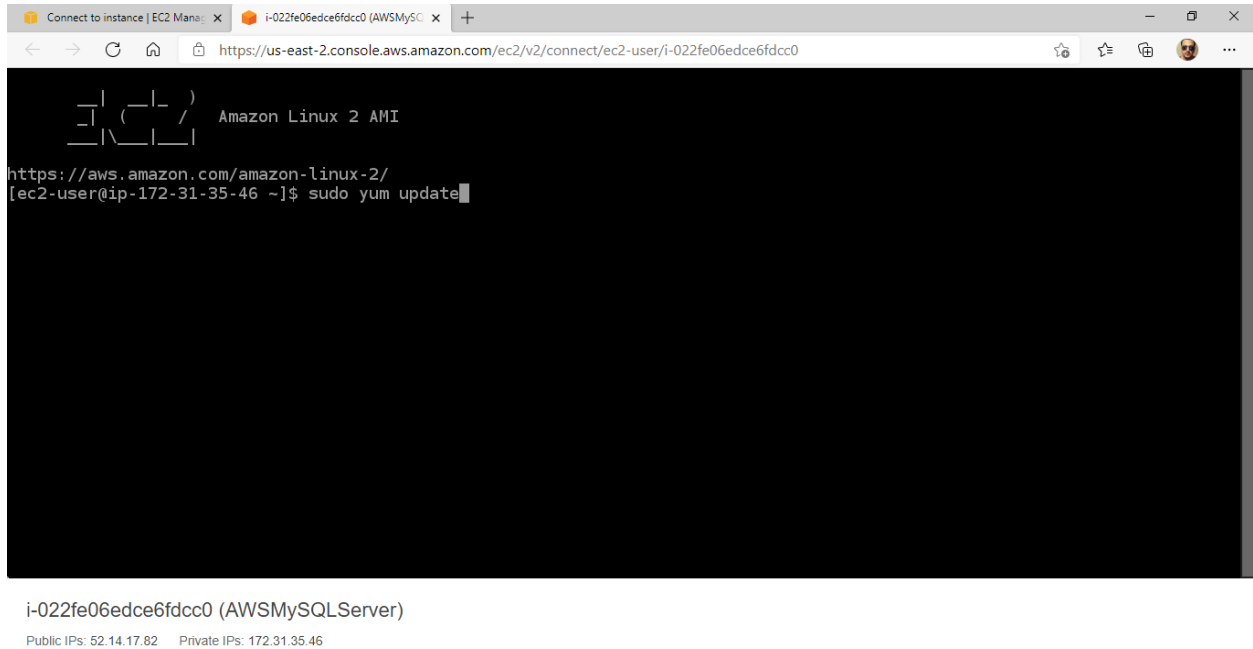


Step 14: Ensure you are successfully connected to Amazon Linux 2 AMI



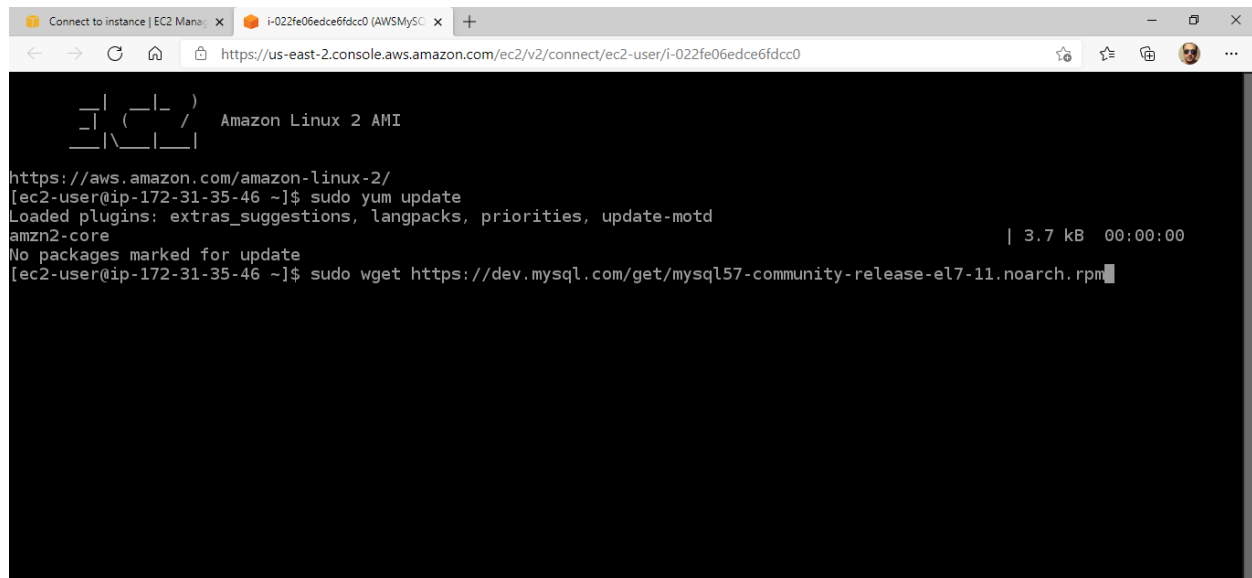
Step 15: To update applications on System

Type-> **sudo yum update**



Step 16: Create YUM repository for installing MySQL

Type-> **sudo wget https://dev.mysql.com/get/mysql57-community-release-el7-11.noarch.rpm**



```
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-35-46 ~]$ sudo yum update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
No packages marked for update
[ec2-user@ip-172-31-35-46 ~]$ sudo wget https://dev.mysql.com/get/mysql57-community-release-el7-11.noarch.rpm
```

i-022fe06edce6fdcc0 (AWSMySQLServer)

Public IPs: 52.14.17.82 Private IPs: 172.31.35.46

Step 17: download .rpm for MySQL installation

Type-> **sudo yum localinstall mysql57-community-release-el7-11.noarch.rpm**

```
Connect to instance | EC2 Mana: x i-022fe06edce6fdcc0 (AWSMySQL x +
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-022fe06edce6fdcc0

Amazon Linux 2 AMI
_ | ( /
_ | \ | _ |

https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-35-46 ~]$ sudo yum update
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core | 3.7 kB 00:00:00
No packages marked for update
[ec2-user@ip-172-31-35-46 ~]$ sudo wget https://dev.mysql.com/get/mysql57-community-release-el7-11.noarch.rpm
--2021-01-29 05:40:45-- https://dev.mysql.com/get/mysql57-community-release-el7-11.noarch.rpm
Resolving dev.mysql.com (dev.mysql.com)... 137.254.60.11
Connecting to dev.mysql.com (dev.mysql.com)|137.254.60.11|:443... connected.
HTTP request sent, awaiting response... 302 Found
Location: https://repo.mysql.com/mysql57-community-release-el7-11.noarch.rpm [following]
--2021-01-29 05:40:45-- https://repo.mysql.com/mysql57-community-release-el7-11.noarch.rpm
Resolving repo.mysql.com (repo.mysql.com)... 23.33.220.244
Connecting to repo.mysql.com (repo.mysql.com)|23.33.220.244|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 25680 (25K) [application/x-redhat-package-manager]
Saving to: 'mysql57-community-release-el7-11.noarch.rpm'

100%[=====>] 25,680 --.-K/s in 0.02s

2021-01-29 05:40:45 (1.47 MB/s) - 'mysql57-community-release-el7-11.noarch.rpm' saved [25680/25680]

[ec2-user@ip-172-31-35-46 ~]$ sudo yum localinstall mysql57-community-release-el7-11.noarch.rpm
```

i-022fe06edce6fdcc0 (AWSMySQLServer)

Public IPs: 52.14.17.82 Private IPs: 172.31.35.46

```
Connect to instance | EC2 Mana: x i-022fe06edce6fdcc0 (AWSMySQL x +
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-022fe06edce6fdcc0

=====
Package Arch Version Repository Size
=====
Installing:
mysql57-community-release noarch el7-11 /mysql57-community-release-el7-11.noarch 31 k
Transaction Summary
=====
Install 1 Package

Total size: 31 k
Installed size: 31 k
Is this ok [y/d/N]: y
Downloading packages:
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : mysql57-community-release-el7-11.noarch 1/1
Verifying : mysql57-community-release-el7-11.noarch 1/1

Installed:
mysql57-community-release.noarch 0:el7-11

Complete!
[ec2-user@ip-172-31-35-46 ~]$
```

i-022fe06edce6fdcc0 (AWSMySQLServer)

Public IPs: 52.14.17.82 Private IPs: 172.31.35.46

Step 18: Install MySQL

Type-> **sudo yum install mysql-community-server**


```
Connect to instance | EC2 Manag... i-022fe06edce6fdcc0 (AWSMySQLServer) +
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-022fe06edce6fdcc0

=====
Package Arch Version Repository Size
=====
Installing:
mysql57-community-release noarch el7-11 /mysql57-community-release-el7-11.noarch 31 k
=====
Transaction Summary
=====
Install 1 Package

Total size: 31 k
Installed size: 31 k
Is this ok [y/d/N]: y
Downloading packages:
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
Installing : mysql57-community-release-el7-11.noarch 1/1
Verifying : mysql57-community-release-el7-11.noarch 1/1

Installed:
mysql57-community-release.noarch 0:el7-11

Complete!
[ec2-user@ip-172-31-35-46 ~]$ sudo yum install mysql-community-server
```

i-022fe06edce6fdcc0 (AWSMySQLServer)

Public IPs: 52.14.17.82 Private IPs: 172.31.35.46

```
Connect to instance | EC2 Manag... i-022fe06edce6fdcc0 (AWSMySQLServer) +
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-022fe06edce6fdcc0

Installing : ncurses-compat-libs-6.0-8.20170212.amzn2.1.3.x86_64 3/7
Installing : mysql-community-client-5.7.33-1.el7.x86_64 4/7
Installing : mysql-community-server-5.7.33-1.el7.x86_64 5/7
Installing : mysql-community-libs-compat-5.7.33-1.el7.x86_64 6/7
Erasing : 1:mariadb-libs-5.5.68-1.amzn2.x86_64 7/7
Verifying : mysql-community-libs-5.7.33-1.el7.x86_64 1/7
Verifying : ncurses-compat-libs-6.0-8.20170212.amzn2.1.3.x86_64 2/7
Verifying : mysql-community-server-5.7.33-1.el7.x86_64 3/7
Verifying : mysql-community-common-5.7.33-1.el7.x86_64 4/7
Verifying : mysql-community-client-5.7.33-1.el7.x86_64 5/7
Verifying : mysql-community-libs-compat-5.7.33-1.el7.x86_64 6/7
Verifying : 1:mariadb-libs-5.5.68-1.amzn2.x86_64 7/7

Installed:
mysql-community-libs.x86_64 0:5.7.33-1.el7 mysql-community-libs-compat.x86_64 0:5.7.33-1.el7
mysql-community-server.x86_64 0:5.7.33-1.el7

Dependency Installed:
mysql-community-client.x86_64 0:5.7.33-1.el7 mysql-community-common.x86_64 0:5.7.33-1.el7
ncurses-compat-libs.x86_64 0:6.0-8.20170212.amzn2.1.3

Replaced:
mariadb-libs.x86_64 1:5.5.68-1.amzn2

Complete!
[ec2-user@ip-172-31-35-46 ~]$
```

i-022fe06edce6fdcc0 (AWSMySQLServer)

Public IPs: 52.14.17.82 Private IPs: 172.31.35.46

Step 19: Start MySQL service

Type-> **sudo systemctl start mysqld.service**

```
Connect to instance | EC2 Manag... x i-022fe06edce6fdcc0 (AWSMySQLServer) x +
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-022fe06edce6fdcc0

Installing : ncurses-compat-libs-6.0-8.20170212.amzn2.1.3.x86_64 3/7
Installing : mysql-community-client-5.7.33-1.el7.x86_64 4/7
Installing : mysql-community-server-5.7.33-1.el7.x86_64 5/7
Installing : mysql-community-libs-compat-5.7.33-1.el7.x86_64 6/7
Erasing : 1:mariadb-libs-5.5.68-1.amzn2.x86_64 7/7
Verifying : mysql-community-libs-5.7.33-1.el7.x86_64 1/7
Verifying : ncurses-compat-libs-6.0-8.20170212.amzn2.1.3.x86_64 2/7
Verifying : mysql-community-server-5.7.33-1.el7.x86_64 3/7
Verifying : mysql-community-common-5.7.33-1.el7.x86_64 4/7
Verifying : mysql-community-client-5.7.33-1.el7.x86_64 5/7
Verifying : mysql-community-libs-compat-5.7.33-1.el7.x86_64 6/7
Verifying : 1:mariadb-libs-5.5.68-1.amzn2.x86_64 7/7

Installed:
mysql-community-libs.x86_64 0:5.7.33-1.el7 mysql-community-libs-compat.x86_64 0:5.7.33-1.el7
mysql-community-server.x86_64 0:5.7.33-1.el7

Dependency Installed:
mysql-community-client.x86_64 0:5.7.33-1.el7 mysql-community-common.x86_64 0:5.7.33-1.el7
ncurses-compat-libs.x86_64 0:6.0-8.20170212.amzn2.1.3

Replaced:
mariadb-libs.x86_64 1:5.5.68-1.amzn2

Complete!
[ec2-user@ip-172-31-35-46 ~]$ sudo systemctl start mysqld.service
```

i-022fe06edce6fdcc0 (AWSMySQLServer)

Public IPs: 52.14.17.82 Private IPs: 172.31.35.46

Step 20: Get default password for root

Type->`sudo grep 'temporary password' /var/log/mysqld.log`

```
Connect to instance | EC2 Manag... i-022fe06edce6fdcc0 (AWSMySC... +
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-022fe06edce6fdcc0

Installing : mysql-community-client-5.7.33-1.el7.x86_64 4/7
Installing : mysql-community-server-5.7.33-1.el7.x86_64 5/7
Installing : mysql-community-libs-compat-5.7.33-1.el7.x86_64 6/7
Erasing : 1:mariadb-libs-5.5.68-1.amzn2.x86_64 7/7
Verifying : mysql-community-libs-5.7.33-1.el7.x86_64 1/7
Verifying : ncurses-compat-libs-6.0-8.20170212.amzn2.1.3.x86_64 2/7
Verifying : mysql-community-server-5.7.33-1.el7.x86_64 3/7
Verifying : mysql-community-common-5.7.33-1.el7.x86_64 4/7
Verifying : mysql-community-client-5.7.33-1.el7.x86_64 5/7
Verifying : mysql-community-libs-compat-5.7.33-1.el7.x86_64 6/7
Verifying : 1:mariadb-libs-5.5.68-1.amzn2.x86_64 7/7

Installed:
mysql-community-libs.x86_64 0:5.7.33-1.el7 mysql-community-libs-compat.x86_64 0:5.7.33-1.el7
mysql-community-server.x86_64 0:5.7.33-1.el7

Dependency Installed:
mysql-community-client.x86_64 0:5.7.33-1.el7 mysql-community-common.x86_64 0:5.7.33-1.el7
ncurses-compat-libs.x86_64 0:6.0-8.20170212.amzn2.1.3

Replaced:
mariadb-libs.x86_64 1:5.5.68-1.amzn2

Complete!
[ec2-user@ip-172-31-35-46 ~]$ sudo systemctl start mysqld.service
[ec2-user@ip-172-31-35-46 ~]$ sudo grep 'temporary password' /var/log/mysqld.log
```

i-022fe06edce6fdcc0 (AWSMySQLServer)

Public IPs: 52.14.17.82 Private IPs: 172.31.35.46

```
Connect to instance | EC2 Manag... i-022fe06edce6fdcc0 (AWSMySC... +
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-022fe06edce6fdcc0

Installing : mysql-community-libs-compat-5.7.33-1.el7.x86_64 6/7
Erasing : 1:mariadb-libs-5.5.68-1.amzn2.x86_64 7/7
Verifying : mysql-community-libs-5.7.33-1.el7.x86_64 1/7
Verifying : ncurses-compat-libs-6.0-8.20170212.amzn2.1.3.x86_64 2/7
Verifying : mysql-community-server-5.7.33-1.el7.x86_64 3/7
Verifying : mysql-community-common-5.7.33-1.el7.x86_64 4/7
Verifying : mysql-community-client-5.7.33-1.el7.x86_64 5/7
Verifying : mysql-community-libs-compat-5.7.33-1.el7.x86_64 6/7
Verifying : 1:mariadb-libs-5.5.68-1.amzn2.x86_64 7/7

Installed:
mysql-community-libs.x86_64 0:5.7.33-1.el7 mysql-community-libs-compat.x86_64 0:5.7.33-1.el7
mysql-community-server.x86_64 0:5.7.33-1.el7

Dependency Installed:
mysql-community-client.x86_64 0:5.7.33-1.el7 mysql-community-common.x86_64 0:5.7.33-1.el7
ncurses-compat-libs.x86_64 0:6.0-8.20170212.amzn2.1.3

Replaced:
mariadb-libs.x86_64 1:5.5.68-1.amzn2

Complete!
[ec2-user@ip-172-31-35-46 ~]$ sudo systemctl start mysqld.service
[ec2-user@ip-172-31-35-46 ~]$ sudo grep 'temporary password' /var/log/mysqld.log
2021-01-29T05:44:54.344159Z 1 [Note] A temporary password is generated for root@localhost: DT%dl6eND1F
[ec2-user@ip-172-31-35-46 ~]$
```

i-022fe06edce6fdcc0 (AWSMySQLServer)

Public IPs: 52.14.17.82 Private IPs: 172.31.35.46

Step 21: Change password for root, password should have uppercase, numbers, special character e.g “Sabbir@123”

Type-> **mysql_secure_installation**

```
Connect to instance | EC2 Manag... x i-022fe06edce6fdcc0 (AWSMySQL) x +
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-022fe06edce6fdcc0

Installing : mysql-community-libs-compat-5.7.33-1.el7.x86_64 6/7
Erasing : 1:mariadb-libs-5.5.68-1.amzn2.x86_64 7/7
Verifying : mysql-community-libs-5.7.33-1.el7.x86_64 1/7
Verifying : ncurses-compat-libs-6.0-8.20170212.amzn2.1.3.x86_64 2/7
Verifying : mysql-community-server-5.7.33-1.el7.x86_64 3/7
Verifying : mysql-community-common-5.7.33-1.el7.x86_64 4/7
Verifying : mysql-community-client-5.7.33-1.el7.x86_64 5/7
Verifying : mysql-community-libs-compat-5.7.33-1.el7.x86_64 6/7
Verifying : 1:mariadb-libs-5.5.68-1.amzn2.x86_64 7/7

Installed:
mysql-community-libs.x86_64 0:5.7.33-1.el7 mysql-community-libs-compat.x86_64 0:5.7.33-1.el7
mysql-community-server.x86_64 0:5.7.33-1.el7

Dependency Installed:
mysql-community-client.x86_64 0:5.7.33-1.el7 mysql-community-common.x86_64 0:5.7.33-1.el7
ncurses-compat-libs.x86_64 0:6.0-8.20170212.amzn2.1.3

Replaced:
mariadb-libs.x86_64 1:5.5.68-1.amzn2

Complete!
[ec2-user@ip-172-31-35-46 ~]$ sudo systemctl start mysqld.service
[ec2-user@ip-172-31-35-46 ~]$ sudo grep 'temporary password' /var/log/mysqld.log
2021-01-29T05:44:54.344159Z 1 [Note] A temporary password is generated for root@localhost: DT%dl6eND1F
[ec2-user@ip-172-31-35-46 ~]$ mysql_secure_installation
```

i-022fe06edce6fdcc0 (AWSMySQLServer)

Public IPs: 52.14.17.82 Private IPs: 172.31.35.46

```
Connect to instance | EC2 Manag... x i-022fe06edce6fdcc0 (AWSMySQL) x +
https://us-east-2.console.aws.amazon.com/ec2/v2/connect/ec2-user/i-022fe06edce6fdcc0

Dependency Installed:
mysql-community-client.x86_64 0:5.7.33-1.el7 mysql-community-common.x86_64 0:5.7.33-1.el7
ncurses-compat-libs.x86_64 0:6.0-8.20170212.amzn2.1.3

Replaced:
mariadb-libs.x86_64 1:5.5.68-1.amzn2

Complete!
[ec2-user@ip-172-31-35-46 ~]$ sudo systemctl start mysqld.service
[ec2-user@ip-172-31-35-46 ~]$ sudo grep 'temporary password' /var/log/mysqld.log
2021-01-29T05:44:54.344159Z 1 [Note] A temporary password is generated for root@localhost: DT%dl6eND1F
[ec2-user@ip-172-31-35-46 ~]$ mysql_secure_installation

Securing the MySQL server deployment.

Enter password for user root:
Error: Access denied for user 'root'@'localhost' (using password: YES)
[ec2-user@ip-172-31-35-46 ~]$ mysql_secure_installation

Securing the MySQL server deployment.

Enter password for user root:

The existing password for the user account root has expired. Please set a new password.

New password: 
```

i-022fe06edce6fdcc0 (AWSMySQLServer)

Public IPs: 52.14.17.82 Private IPs: 172.31.35.46

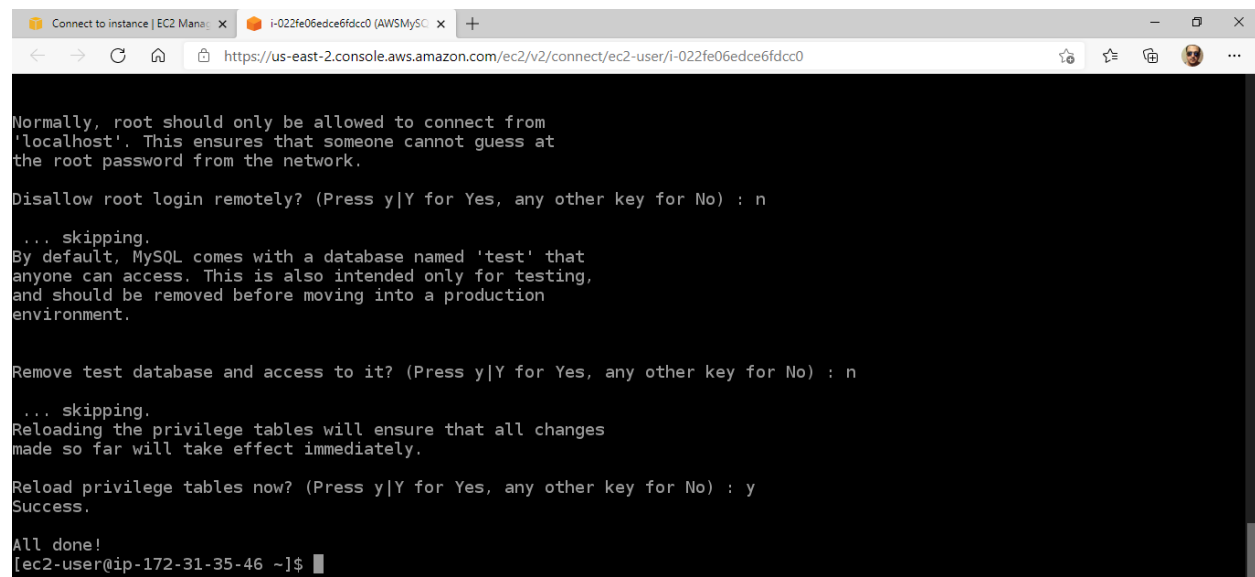
```
Estimated strength of the password: 100
Change the password for root ? ((Press y|Y for Yes, any other key for No) : y
```

```
Remove anonymous users? (Press y|Y for Yes, any other key for No) : n
```

```
Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n
```

```
Remove test database and access to it? (Press y|Y for Yes, any other key for No) : n
```

```
Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
```



```
Normally, root should only be allowed to connect from
'localhost'. This ensures that someone cannot guess at
the root password from the network.

Disallow root login remotely? (Press y|Y for Yes, any other key for No) : n

... skipping.
By default, MySQL comes with a database named 'test' that
anyone can access. This is also intended only for testing,
and should be removed before moving into a production
environment.

Remove test database and access to it? (Press y|Y for Yes, any other key for No) : n

... skipping.
Reloading the privilege tables will ensure that all changes
made so far will take effect immediately.

Reload privilege tables now? (Press y|Y for Yes, any other key for No) : y
Success.

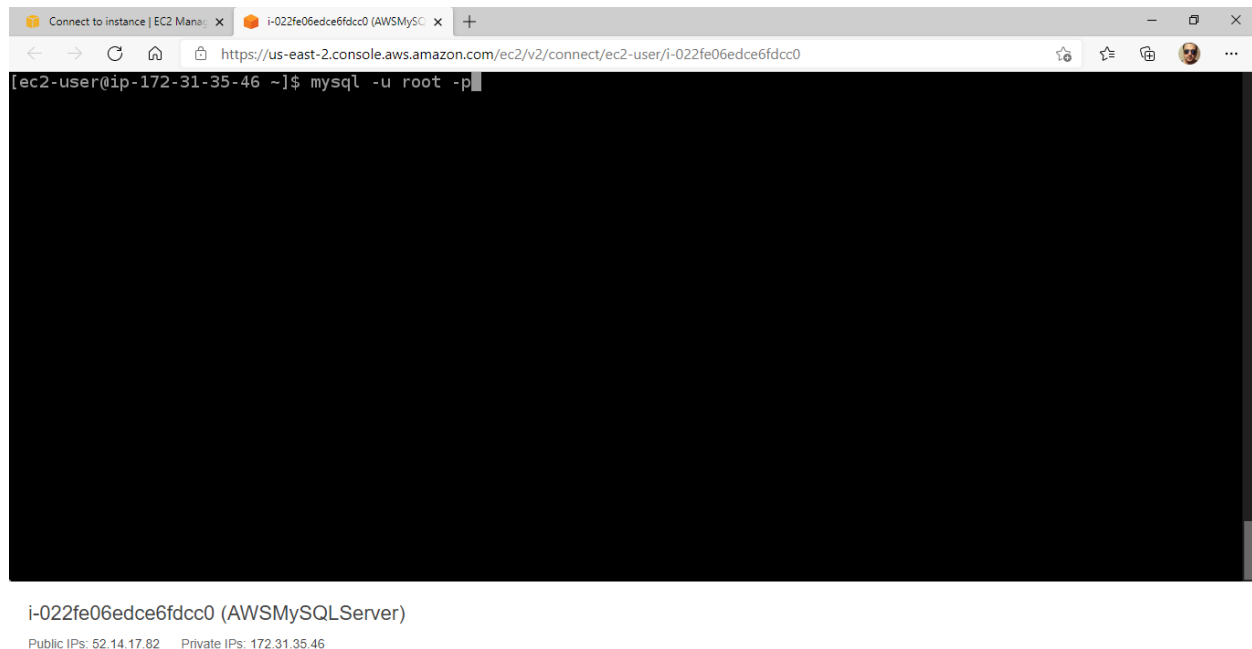
All done!
[ec2-user@ip-172-31-35-46 ~]$
```

i-022fe06edce6fdcc0 (AWSMySQLServer)

Public IPs: 52.14.17.82 Private IPs: 172.31.35.46

Step 22: Connect to MySQL,

Type-> **mysql -u root -p**



Enter password

On successfully connect you should see SQL CLI ,

```
mysql>
```

Step 22: Create database,

Type->**create database CustomersDB**

```
mysql> create database CustomersDB;  
Query OK, 1 row affected (0.00 sec)
```

Step 22: Use database,

Type-> **use CustomersDB**

```
mysql> use CustomersDB;
```

Step 23: Create table,

```
mysql> create table customers(custId int primary key,custName varchar(40),custLocation varchar(40));  
  
mysql> create table customers_orders(custId int,orderId varchar(40));
```

Step 24: Insert sample records,

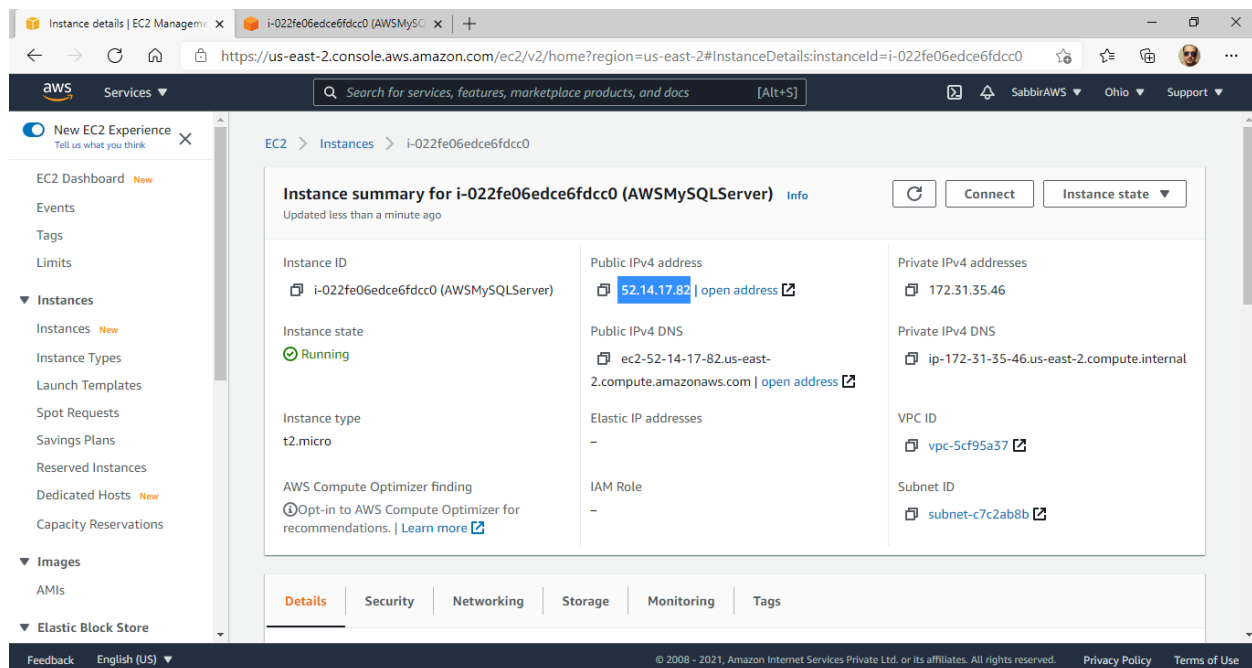
```
mysql> insert into customers values(1001,'sabbir','pune');  
Query OK, 1 row affected (0.00 sec)  
  
mysql> insert into customers_orders values(1001,'0DR1001');  
Query OK, 1 row affected (0.00 sec)
```

And exit,

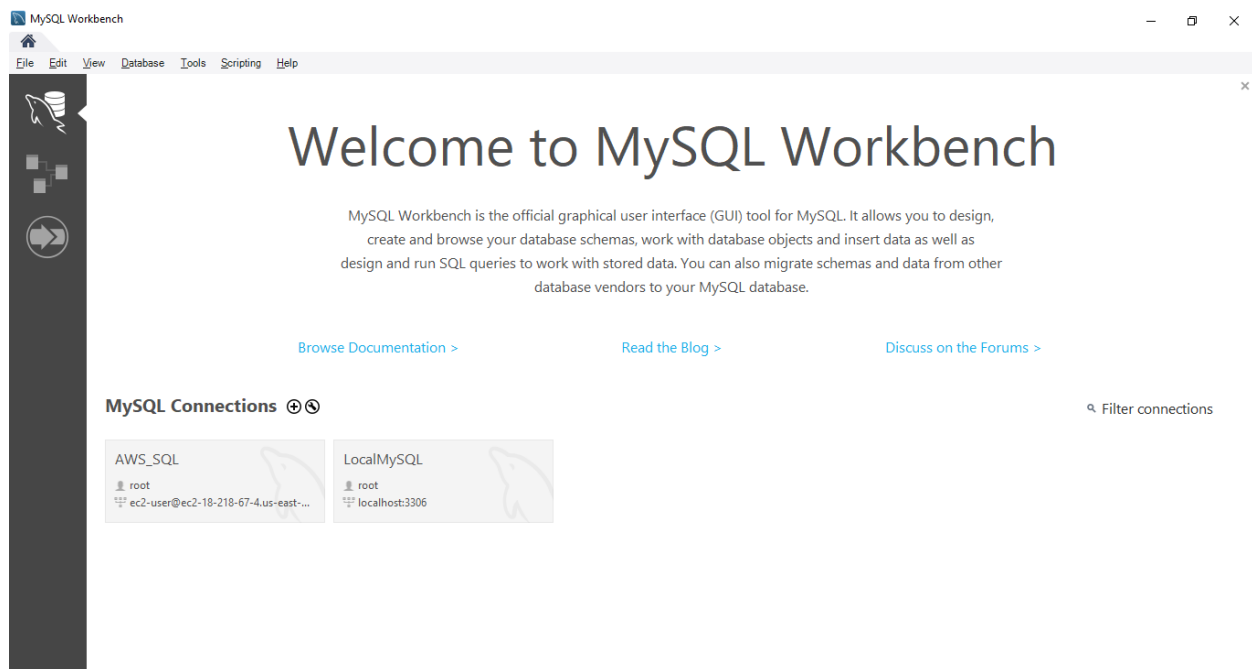
```
mysql> exit  
Bye  
[ec2-user@ip-172-31-35-46 ~]$
```

Step 25: Connect to MySQL using MySQL Workbench

To get the public IP of EC2 Instance,



Start MySQL Work bench,



Click on + for MySQL Connections,

Setup New Connection

Connection Name: Type a name for the connection

Connection Method: Method to use to connect to the RDBMS

Parameters SSL Advanced

Hostname: Port: Name or IP address of the server host - and TCP/IP port.

Username: Name of the user to connect with.

Password: Store in Vault ... Clear The user's password. Will be requested later if it's not set.

Default Schema: The schema to use as default schema. Leave blank to select it later.

Configure Server Management... Test Connection Cancel OK

And fill details as specified below,

Setup New Connection

Connection Name: Type a name for the connection

Connection Method: Method to use to connect to the RDBMS

Parameters SSL Advanced

SSH Hostname: SSH server hostname, with optional port number.

SSH Username: Name of the SSH user to connect with.

SSH Password: Clear SSH user password to connect to the SSH tunnel.

SSH Key File: Path to SSH private key file.

MySQL Hostname: MySQL server host relative to the SSH server.

MySQL Server Port: TCP/IP port of the MySQL server.

Username: Name of the user to connect with.

Password: Clear The MySQL user's password. Will be requested later if not set.

Default Schema: The schema to use as default schema. Leave blank to select it later.

Configure Server Management... Test Connection Cancel OK

SSH Hostname: <<**public IP address of EC2 instance**>>

SSH Username: **ec2-user**

SSH Key File: browse key-pair file downloaded in **Step 11**

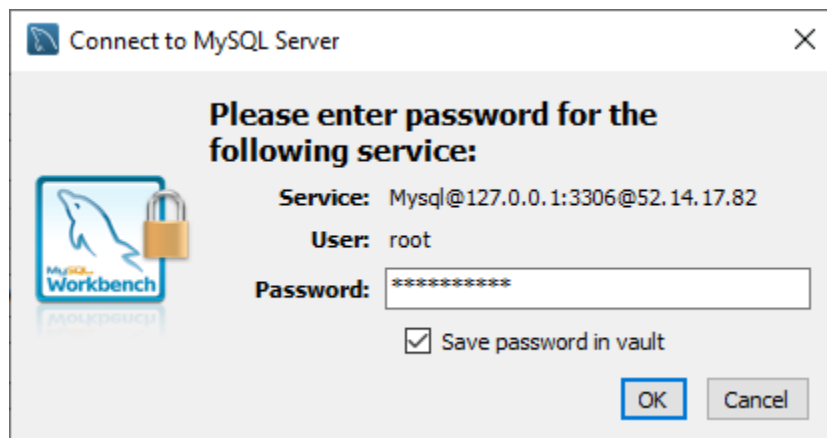
MySQL Hostname: **127.0.0.1**

MySQL Server Port: **3306**

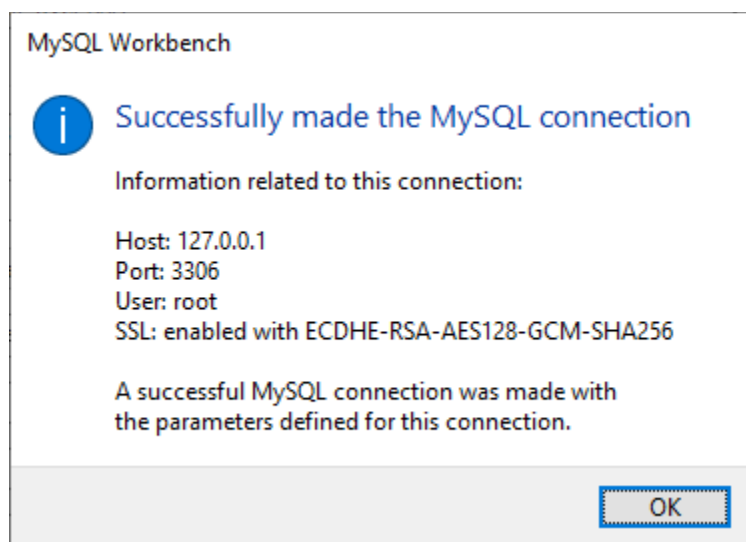
Username: **root**

Default Schema: **CustomersDB**

Click on Test Connection, Please enter root password,



On Successful connection,



To test,

Type->select * from customers;

