

RDS Tasks -01

- Create MariaDB DB on EC2.

```
[ec2-user@ip-172-31-16-26 ~]$ sudo dnf install mariadb105-server -y
Last metadata expiration check: 0:00:23 ago on Thu Jan 29 09:29:14 2026.
Dependencies resolved.
```

Package	Arch	Version	Repository	S
Installing:				
mariadb105-server	x86_64	3:10.5.29-1.amzn2023.0.1	amazonlinux	1
Installing dependencies:				
mariadb-connector-c	x86_64	3.3.10-1.amzn2023.0.1	amazonlinux	21
mariadb-connector-c-config	noarch	3.3.10-1.amzn2023.0.1	amazonlinux	9.
mariadb105	x86_64	3:10.5.29-1.amzn2023.0.1	amazonlinux	1.
mariadb105-common	x86_64	3:10.5.29-1.amzn2023.0.1	amazonlinux	2
mariadb105-errmsg	x86_64	3:10.5.29-1.amzn2023.0.1	amazonlinux	21
mysql-selinux	noarch	1.0.4-2.amzn2023.0.3	amazonlinux	3
perl-B	x86_64	1.80-477.amzn2023.0.7	amazonlinux	17

```
[root@ip-172-31-16-26 ec2-user]# sudo mysql_secure_installation

NOTE: RUNNING ALL PARTS OF THIS SCRIPT IS RECOMMENDED FOR ALL MariaDB
SERVERS IN PRODUCTION USE! PLEASE READ EACH STEP CAREFULLY!

In order to log into MariaDB to secure it, we'll need the current
password for the root user. If you've just installed MariaDB, and
haven't set the root password yet, you should just press enter here.

Enter current password for root (enter for none):
OK, successfully used password, moving on...

Setting the root password or using the unix_socket ensures that nobody
can log into the MariaDB root user without the proper authorisation.

You already have your root account protected, so you can safely answer 'n'.

Switch to unix_socket authentication [Y/n] n
... skipping.

You already have your root account protected, so you can safely answer 'n'.

Change the root password? [Y/n] n
... skipping.

By default, a MariaDB installation has an anonymous user, allowing anyone
to log into MariaDB without having to have a user account created for
them. This is intended only for testing, and to make the installation
go a bit smoother. You should remove them before moving into a
production environment.
```

```
[root@ip-172-31-16-26 ec2-user]# mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 5
Server version: 10.5.29-MariaDB MariaDB Server

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
```

- Insert some dummy data.

RDS Tasks -01

```
MariaDB [(none)]> CREATE DATABASE demo;
Query OK, 1 row affected (0.000 sec)

MariaDB [(none)]> USE demo;
Database changed
MariaDB [demo]>
MariaDB [demo]> CREATE TABLE users (
  ->   id INT AUTO_INCREMENT PRIMARY KEY,
  ->   name VARCHAR(50),
  ->   email VARCHAR(50)
  -> );
Query OK, 0 rows affected (0.008 sec)

MariaDB [demo]>
MariaDB [demo]> INSERT INTO users VALUES
  -> (1,'Alice','alice@test.com'),
  -> (2,'Bob','bob@test.com'),
  -> (3,'Charlie','charlie@test.com');
Query OK, 3 rows affected (0.002 sec)
Records: 3  Duplicates: 0  Warnings: 0

MariaDB [demo]>
MariaDB [demo]> SELECT * FROM users;
+-----+-----+
| id | name | email |
+-----+-----+
| 1 | Alice | alice@test.com |
| 2 | Bob | bob@test.com |
| 3 | Charlie | charlie@test.com |
+-----+-----+
3 rows in set (0.000 sec)
```

- Take the backup of dummy data on EC2.

```
[root@ip-172-31-16-26 ec2-user]# mysqldump -u root -p demo > demo_backup.sql
Enter password:
[root@ip-172-31-16-26 ec2-user]# ls
demo_backup.sql
[root@ip-172-31-16-26 ec2-user]#
```

- Launch MariaDB RDS instance.

database-1

Summary

DB identifier database-1	Status Available	Role Instance	Engine MariaDB	Region us-east-1a
CPU -	Class db.m7g.large	Current activity		

Connectivity & security | Monitoring | Logs & events | Configuration | Maintenance & backups | Data migrations | Tags | Recommendations

Connect using | Info

☒ **Code snippets**
Use when connecting through SDK, APIs, or third-party tools including agents.

☐ **CloudShell**
Use for a quick access to AWS CLI that launches directly from the AWS Management Console.

☐ **Endpoints**
Use when connecting through any IDE into

Internet access gateway
Disabled

IAM Authentication
Disabled

Masters credentials ARN
arn:aws:secretsmanager:us-east-1:526018540742:secret:rdsldb-0ea4b9b0-bf3f-42a9-8a08-4baf0971544-BZuNyD
[View in Secrets Manager](#)

Secret Manager

Programming language
MySQL (macOS)

Endpoint type
Instance endpoint

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- Migrate database from EC2 to RDS.

```
[root@ip-172-31-16-26 ec2-user]# mysql -h database-1.cajeseymk2i9.us-east-1.rds.amazonaws.com -u admin -p --ssl
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 45
Server version: 11.8.5-MariaDB-log managed by https://aws.amazon.com/rds/

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> CREATE DATABASE demo;
Query OK, 1 row affected (0.004 sec)

MariaDB [(none)]> SHOW DATABASES;
+-----+
| Database |
+-----+
| demo     |
| information_schema |
| innodb   |
| mysql    |
| performance_schema |
| sys      |
+-----+
6 rows in set (0.001 sec)

MariaDB [(none)]> EXIT;
Bye

MariaDB [(none)]> USE demo;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MariaDB [demo]> SELECT * FROM users;
+-----+
| id | name  | email          |
+-----+
| 1  | Alice | alice@test.com |
| 2  | Bob   | bob@test.com   |
| 3  | Charlie | charlie@test.com |
+-----+
3 rows in set (0.001 sec)

MariaDB [demo]>
```

RDS Tasks -01

- Install MySQL DB on EC2.

```
[root@ip-172-31-16-26 ec2-user]# sudo dnf install https://dev.mysql.com/get/mysql84-community-release-el9-1.noarch.rpm -y
Last metadata expiration check: 1:00:31 ago on Thu Jan 29 09:29:14 2026.
mysql84-community-release-el9-1.noarch.rpm
Dependencies resolved.
=====
Package                                Architecture                               Version
=====
Installing:
mysql84-community-release              noarch                                     el9-1
Transaction Summary
=====
Install 1 Package

Total size: 13 k
Installed size: 14 k
Downloading Packages:
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing      : 
  Installing     : mysql84-community-release-el9-1.noarch
  Verifying      : mysql84-community-release-el9-1.noarch

Installed:
mysql84-community-release-el9-1.noarch

Complete!
```

```
=====
WARNING:
  A newer release of "Amazon Linux" is available.

  Available Versions:

  Version 2023.10.20260120:
  Run the following command to upgrade to 2023.10.20260120:

      dnf upgrade --releasever=2023.10.20260120

  Release notes:
  https://docs.aws.amazon.com/linux/al2023/release-notes/relnotes-2023.10.20260120.html
=====

Installed:
mysql-community-client-8.4.8-1.el9.x86_64    mysql-community-client-plugins-8.4.8-1.el9.x86_64    mysql-community-common-8.4.8-1.el9.x86_64    mysql-co
mysql-community-libs-8.4.8-1.el9.x86_64      mysql-community-server-8.4.8-1.el9.x86_64

Complete!
[ec2-user@ip-192-168-0-19 ~]$
```

- Launch MySQL RDS image.

app-db

Summary

DB identifier

app-db

CPU

32.89%

Status

🟢 Available

Class

db.t3.micro

Role

Instance

Current activity

0 Connections

Engine

MySQL Community

Region & AZ

us-east-1a

RDS Tasks -01

- Configure Multi-AZ.

Configuration	Instance class	Primary storage
DB instance ID app-db	Instance class db.t3.micro	Encryption Enabled
Engine version 8.4.7	vCPU 2	AWS KMS key aws/rds
RDS Extended Support Disabled	RAM 1 GB	Storage type General Purpose SSD (gp2)
DB name -	Availability	Storage 20 GiB
License model General Public License	Master username admin	Provisioned IOPS -
Option groups default:mysql-8-4 In sync	Master password *****	Storage throughput -
Amazon Resource Name (ARN) arn:aws:rds:us-east-1:526018540742:db:app-db	IAM DB authentication Not enabled	Storage autoscaling Enabled
Resource ID db-BRNGAOLIHVM2M7A7GPXFWH26FE	Multi-AZ Yes	Maximum storage threshold 1000 GiB
Created time January 29, 2026, 16:19 (UTC+05:30)	Secondary Zone -	Storage file system configuration Current
DB instance parameter group default.mysql8.4 In sync		

- Take backup of DB and restore the DB.

Take DB Snapshot

Preferences

To take a DB Snapshot, choose a database and name your DB Snapshot.

Snapshot type

☒ DB instance
☐ DB cluster

DB instance

DB Instance identifier. This is the unique key that identifies a DB Instance.

app-db ▼

Snapshot name

Identifier for the DB Snapshot.

db-snap

Snapshot identifier is case insensitive, but stored as all lower-case, as in "mysnapshot". Cannot be null, empty, or blank. Must contain from 1 to 255 alphanumeric characters or hyphens. First character must be a letter. Cannot end with a hyphen.

RDS Tasks -01

db-snap

Details

ARN

arn:aws:rds:us-east-1:526018540742:snapshot:db-snap

Instance/Cluster Name

app-db

Master username

admin

DB snapshot name

db-snap

Snapshot type

manual

DB engine

mysql

DB engine version

8.4.7

License model

general-public-license

Architecture settings

Non-multitenant architecture

Option group

default:mysql-8-4

Zone

us-east-1a

KMS key ID

843d2e7e-88e2-4874-96e3-8ff211ba6a92 [L](#)

Source region

N/A

Snapshot Creation Time

January 29, 2026, 16:35 (UTC+05:30)

Original Snapshot Creation Time

January 29, 2026, 16:35 (UTC+05:30)

Instance/Cluster Creation

January 29, 2026, 16:19 (UTC+05:30)

VPC

vpc-06d0c00cc6b058902 [L](#)

Status

Available

Storage type

General Purpose SSD (gp2)

DB storage

20 GiB

IOPS

-

Storage throughput

0

Port

3306

Time zone**Dedicated Log Volume**

Turned off

meet.google.com

Restore snapshot

You are creating a new DB instance or DB cluster from a snapshot. The default VPC security group and parameter group are selected for the new DB instance or cluster.

DB instance settings

DB engine

MySQL

☐ **Enable RDS Extended Support** [Info](#)

Amazon RDS Extended Support is a [paid offering](#) [L](#). By selecting this option, you consent to being charged for this offering if you are running your database major version past major version in the [RDS for MySQL documentation](#) [L](#).

Settings

DB snapshot ID

The identifier for the DB snapshot.

db-snap [L](#)

DB instance identifier [Info](#)

Type a name for your DB instance. The name must be unique across all DB instances owned by your AWS account in the current AWS Region.

The DB instance identifier is case-insensitive, but is stored as all lowercase (as in "mydbinstance"). Constraints: 1 to 63 alphanumeric characters or hyphens. First character must be a letter.

Instance configuration

RDS Tasks -01

snap-restore

Summary

DB identifier snap-restore	Status ⌵ Modifying	Role Instance	Engine MySQL Community
CPU 3.76%	Class db.m7g.large	Current activity 0 Connections	Region & AZ us-east-1f

Connectivity & security

Monitoring

Logs & events

Configuration

Zero-ETL integrations

Maintenance & backups

Data migration

Connect using

Info

☒ **Code snippets**
Use when connecting through SDK, APIs, or third-party tools including agents.

☐ **CloudShell**
Use for a quick access to AWS CLI that launches directly from the AWS Management Console.

☐ **Endpoints**
Use when connecting through the AWS CLI.

Internet access gateway
⌵ Disabled

IAM Authentication
⌵ Disabled

Programming language
MySQL (macOS) ▾

Endpoint type
Instance endpoint ▾

- Create a read replica.

mydb-replica

Related

Filter by databases

DB identifier	Status	Role	Engine	Region ...	Size	Recommendation
<input type="radio"/> app-db	✓ Available	Primary	MySQL Co...	us-east-1a	db.t3.micro	
<input checked="" type="radio"/> mydb-replica	⌵ Modify...	Replica	MySQL Co...	us-east-1c	db.t3.micro	

Connectivity & security

Monitoring

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