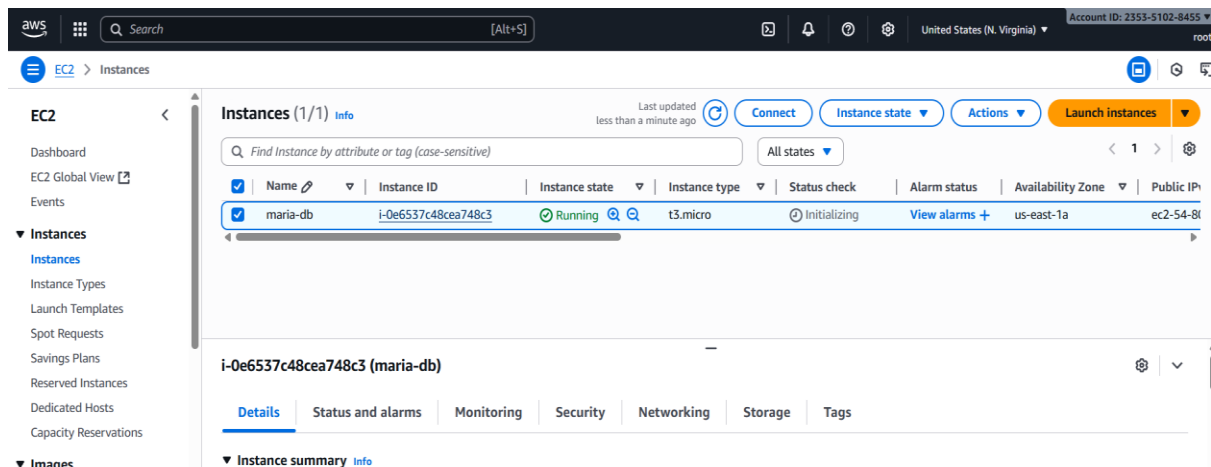


# 1. Create MariaDB DB on EC2.

Go to ec2 and create a instance.



Login to that instance and execute this commands:

Sudo su –

Yum install -y mariadb105-server

```
root@ip-172-31-115-0:~$ sudo su -
[ec2-user@ip-172-31-115-0 ~]$ sudo su -
[root@ip-172-31-115-0 ~]# yum install -y mariadb105-server
Amazon Linux 2023 Kernel Livepatch repository
Dependencies resolved.
=====
Package                                Architecture      Version
=====
Installing:
mariadb105-server                      x86_64            3:10.5.29-1.amzn2023.0
Installing dependencies:
mariadb-connector-c                    x86_64            3.3.10-1.amzn2023.0.
mariadb-connector-c-config             noarch            3.3.10-1.amzn2023.0.
mariadb105                             x86_64            3:10.5.29-1.amzn2023.0
mariadb105-common                      x86_64            3:10.5.29-1.amzn2023.0
mariadb105-errmsg                      x86_64            3:10.5.29-1.amzn2023.0
mysql-selinux                          noarch            1.0.4-2.amzn2023.0.3
perl-B                                 x86_64            1.80-477.amzn2023.0.
perl-DBD-MariaDB                      x86_64            1.22-1.amzn2023.0.4
perl-DBI                              x86_64            1.643-7.amzn2023.0.3
perl-Data-Dumper                      x86_64            2.174-460.amzn2023.0.
perl-File-Copy                         noarch            2.34-477.amzn2023.0.
perl-FileHandle                       noarch            2.03-477.amzn2023.0.
perl-Math-BigInt                      noarch            1:1.9998.39-2.amzn20
perl-Math-BigRat                      noarch            0.2624-500.amzn2023.
perl-Math-Complex                     noarch            1.59-477.amzn2023.0.
perl-Sys-Hostname                     x86_64            1.23-477.amzn2023.0.
```

Systemctl enable mariadb

Systemctl start mariadb

## Systemctl status mariadb

```
[root@ip-172-31-115-0 ~]# systemctl enable mariadb
Created symlink /etc/systemd/system/mysql.service → /usr/lib/systemd/system/mariadb.service
Created symlink /etc/systemd/system/mysqld.service → /usr/lib/systemd/system/mariadb.service
Created symlink /etc/systemd/system/multi-user.target.wants/mariadb.service → /usr/lib/systemd/system/mariadb.service
[root@ip-172-31-115-0 ~]# systemctl start mariadb
[root@ip-172-31-115-0 ~]# systemctl status mariadb
● mariadb.service - MariaDB 10.5 database server
   Loaded: loaded (/usr/lib/systemd/system/mariadb.service; enabled; preset: disabled)
   Active: active (running) since Mon 2025-10-13 06:39:24 UTC; 13s ago
     Docs: man:mariadb(8)
           https://mariadb.com/kb/en/library/systemd/
   Process: 26560 ExecStartPre=/usr/libexec/mariadb-check-socket (code=exited, status=0/SUCCESS)
   Process: 26582 ExecStartPre=/usr/libexec/mariadb-prepare-db-dir mariadb.service (code=exited, status=0/SUCCESS)
   Process: 26681 ExecStartPost=/usr/libexec/mariadb-check-upgrade (code=exited, status=0/SUCCESS)
  Main PID: 26667 (mariabdd)
    Status: "Taking your SQL requests now..."
     Tasks: 13 (limit: 1053)
    Memory: 66.3M
       CPU: 507ms
    CGroup: /system.slice/mariadb.service
```

We can check mariadb running or not with the port number 3306.

```
[root@ip-172-31-115-0 ~]# ss -ltn | grep 3306
LISTEN(128) TCP *:3306 *:*
[root@ip-172-31-115-0 ~]#
```

## 2.Insert some dummy data.

Execute this commands to set dbname,dbpassword,dbrootpassword,dbuser.

```
[root@ip-172-31-115-0 ~]# DBNAME=mujaheddb
[root@ip-172-31-115-0 ~]# DBPASSWORD=admin123456
[root@ip-172-31-115-0 ~]# DBROOTPASSWORD=admin123456
[root@ip-172-31-115-0 ~]# DBUSER=mujaheddbuser
[root@ip-172-31-115-0 ~]#
```

Execute this commands to create database.

- `echo "CREATE DATABASE ${DBName};" >> /tmp/db.setup`

- echo "CREATE USER '\${DBUser}' IDENTIFIED BY '\${DBPassword}';" >> /tmp/db.setup
- echo "GRANT ALL PRIVILEGES ON \*.\* TO '\${DBUser}'@'%';" >> /tmp/db.setup
- echo "FLUSH PRIVILEGES;" >> /tmp/db.setup
- mysqladmin -u root password "\${DBRootPassword}"
- mysql -u root --password="\${DBRootPassword}" < /tmp/db.setup
- rm /tmp/db.setup

```
[root@ip-172-31-115-0 ~]# echo "CREATE DATABASE ${DBName};" >> /tmp/db.setup
[root@ip-172-31-115-0 ~]# echo "CREATE USER '${DBUser}' IDENTIFIED BY '${DBPassword}';" >> /tmp/db.setup
[root@ip-172-31-115-0 ~]# echo "GRANT ALL PRIVILEGES ON *.* TO '${DBUser}'@'%';" >> /tmp/db.setup
[root@ip-172-31-115-0 ~]# echo "FLUSH PRIVILEGES;" >> /tmp/db.setup
[root@ip-172-31-115-0 ~]# mysqladmin -u root password "${DBRootPassword}"
[root@ip-172-31-115-0 ~]# mysql -u root --password="${DBRootPassword}" < /tmp/db.setup
```

Use this command to enter into db

mysql -u root --password="\${DBRootPassword}"

```
[root@ip-172-31-115-0 ~]# mysql -u root --password="${DBRootPassword}"
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 16
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.
```

Show databases;

```
MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| mujaheddb |
| mysql |
| performance_schema |
+-----+
4 rows in set (0.000 sec)
```

Use mujaheeddb;

Create table in that db create table table\_name(id INT, name VARCHAR(50));

INSERT INTO table1 VALUES(1, 'Virat'), (2, 'Sachin'),  
(3,'Dhoni'), (4,'ABD');

Select\*FROM table1;

```
MariaDB [(none)]> use mujaheeddb;
Database changed
MariaDB [mujaheeddb]> CREATE TABLE table1 (id INT, name VARCHAR(50));
Query OK, 0 rows affected (0.042 sec)

MariaDB [mujaheeddb]> INSERT INTO table1 VALUES(1, 'Virat'), (2, 'Sachin'), (3, 'Dhoni'), (4,
-> 'ABD');
Query OK, 4 rows affected (0.001 sec)
Records: 4  Duplicates: 0  Warnings: 0

MariaDB [mujaheeddb]> select *FROM table1;
+-----+-----+
| id | name |
+-----+-----+
| 1 | Virat |
| 2 | Sachin |
| 3 | Dhoni |
| 4 | ABD |
+-----+-----+
4 rows in set (0.000 sec)
```

### 3.Take the backup of dummy data on EC2.

Use this command to backup

mysql dump -u root -p user\_name > file\_name.sql

```
[root@ip-172-31-115-0 ~]# mysql dump -u root -p mujaheeddb > mariadb_data_backup.sql
[root@ip-172-31-115-0 ~]# cat mariadb_data_backup
cat: mariadb_data_backup: No such file or directory
[root@ip-172-31-115-0 ~]# cat mariadb_data_backup.sql
mysql Ver 15.1 Distrib 10.5.29-MariaDB, for Linux (x86_64) using EditLine wrapper
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Usage: mysql [OPTIONS] [database]

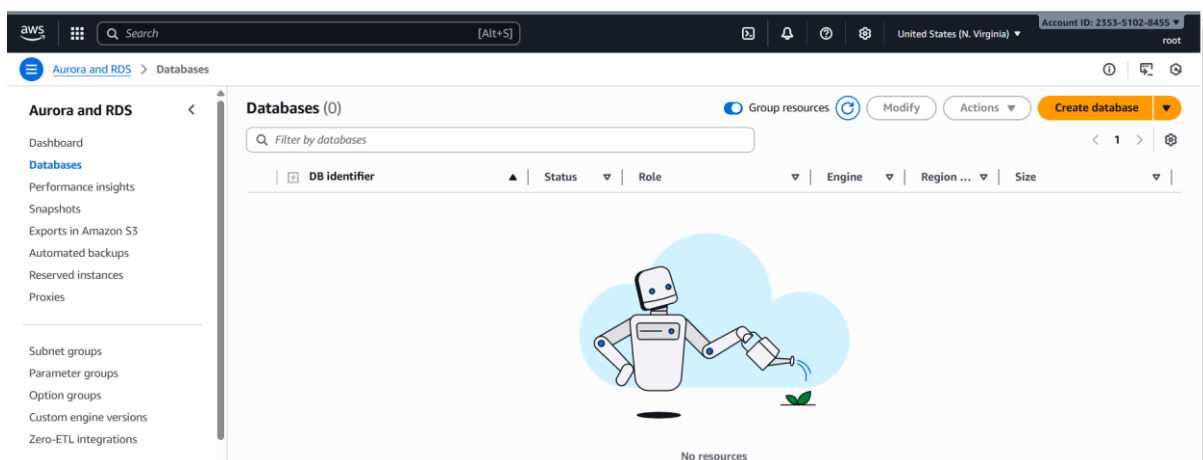
Default options are read from the following files in the given order:
/etc/my.cnf ~/.my.cnf
The following groups are read: mysql mariadb-client client-server client-mariadb
The following options may be given as the first argument:
--print-defaults      Print the program argument list and exit.
--no-defaults         Don't read default options from any option file.
The following specify which files/extra groups are read (specified before remaining options):
--defaults-file=#     Only read default options from the given file #.
--defaults-extra-file=# Read this file after the global files are read.
--defaults-group-suffix=# Additionally read default groups with # appended as a suffix.

-?, --help            Display this help and exit.
-I, --help            Synonym for -?
--abort-source-on-error
                        Abort 'source filename' operations in case of errors
--auto-rehash          Enable automatic rehashing. One doesn't need to use
                        'rehash' to get table and field completion, but startup
                        and reconnecting may take a longer time.
                        (Defaults to on; use --skip-auto-rehash to disable.)
-A, --no-auto-rehash  No automatic rehashing. One has to use 'rehash' to get
                        table and field completion. This gives a quicker start of
                        mysql and disables rehashing on reconnect.
```

```
[root@ip-172-31-115-0 ~]# ls
mariadb_data_backup.sql
[root@ip-172-31-115-0 ~]# |
```

## 4. Launch MariaDB RDS instance.

Go to aws and select aurora and rds, select databases and instances, create database.



Aurora and RDS > Databases > Create database


Choose a database creation method


☒ Standard create  
You set all of the configuration options, including ones for availability, security, backups, and maintenance.


☐ Easy create  
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.


Engine options


Engine type [Info](#)


☐ Aurora (MySQL Compatible)  



☐ Aurora (PostgreSQL Compatible)  



☐ MySQL  


☐ PostgreSQL  


☒ MariaDB  


☐ Oracle  


☐ Microsoft SQL Server  


☐ IBM Db2  


CloudShell Feedback

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28°C

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ENG

Aurora and RDS > Databases > Create database

Settings

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.

database-1

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. Can't contain two consecutive hyphens.

▼ Credentials Settings

Master username [Info](#)

Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. The first character must be a letter.

Credentials management

You can use AWS Secrets Manager or manage your master user credentials.

☐ Managed in AWS Secrets Manager - *most secure*  
RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.

☒ Self managed  
Create your own password or have RDS create a password that you can reuse.

☐ Auto generate password  
Amazon RDS can generate a password for you, or you can specify your own password.

Master password [Info](#)

\*\*\*\*\*

Password strength **Very weak**



Aurora and RDS > Databases > Create database

Public access

Info

☐ Yes

RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database which resources can connect to the database.

☒ No

RDS doesn't assign a public IP address to the database. Only Amazon EC2 instances and other resources inside the VPC can connect to your database. Choose one or more VPC security groups that

VPC security group (firewall)

Info

Choose one or more VPC security groups to allow access to your database. Make sure that the security group rules allow the appropriate incoming traffic.

☒ Choose existing

Choose existing VPC security groups

☐ Create new

Create new VPC security group

Existing VPC security groups

Choose one or more options

default

Availability Zone

Info

us-east-1a

RDS Proxy

RDS Proxy is a fully managed, highly available database proxy that improves application scalability, resiliency, and security.

☐ Create an RDS Proxy

Info

RDS automatically creates an IAM role and a Secrets Manager secret for the proxy. RDS Proxy has additional costs. For more information, see [Amazon RDS Proxy pricing](#).

Certificate authority - optional

Info

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Aurora and RDS > Databases > Create database

You can add up to 50 more tags.

Database authentication

Database authentication options

Info

☒ Password authentication

Authenticates using database passwords.

☐ Password and IAM database authentication

Authenticates using the database password and user credentials through AWS IAM users and roles.

Monitoring

Info

Choose monitoring tools for this database. Database Insights provides a combined view of Performance Insights and Enhanced Monitoring for your fleet of databases. Database Insights price estimates. See [Amazon CloudWatch pricing](#).

☐ Database Insights - Advanced

- Retains 15 months of performance history
- Fleet-level monitoring
- Integration with CloudWatch Application Signals

☒ Database Insights - Standard

Additional monitoring settings

Enhanced Monitoring, CloudWatch Logs and DevOps Guru

CloudShell

Feedback

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Aurora and RDS

Databases

Create database

▼ Additional monitoring settings

Enhanced Monitoring, CloudWatch Logs and DevOps Guru

Enhanced Monitoring

☒ Enable Enhanced monitoring

Enabling Enhanced Monitoring metrics are useful when you want to see how different processes or threads use the CPU.

OS metrics granularity

60 seconds

Monitoring role for OS metrics

default

The monitoring role is an IAM role that allows RDS to send Enhanced Monitoring metrics to Amazon CloudWatch Logs. Choose an existing monitoring role, or choose **default** to have RDS automatically create the IAM role **rds-monitoring-role** for you.

Log exports

Select the log types to publish to Amazon CloudWatch Logs

☐ Audit log

☐ Error log

☐ General log

☐ iam-db-auth-error log

☐ Slow query log

IAM role

The following service-linked role is used for publishing logs to CloudWatch Logs.

aws

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Aurora and RDS

Databases

Create database

☒ Copy tags to snapshots

Backup replication [Info](#)

☐ Enable replication in another AWS Region

Enabling replication automatically creates backups of your DB instance in the selected Region, for disaster recovery, in addition to the current Region.

☒ Enable encryption

Choose to encrypt the given instance. Master key IDs and aliases appear in the list after they have been created using the AWS Key Management Service console. [Info](#)

AWS KMS key [Info](#)

(default) aws/rds

Account

235351028455

KMS key ID

alias/aws/rds

Maintenance

Auto minor version upgrade [Info](#)

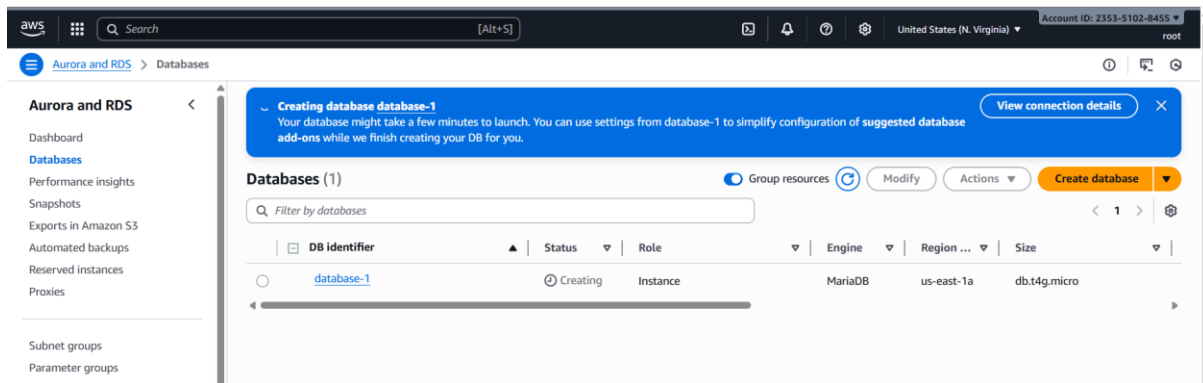
☒ Enable auto minor version upgrade

Enabling auto minor version upgrade will automatically upgrade your database minor version. For limitations and more details, see Automatically upgrading the minor engine version [documentation](#)

Maintenance window [Info](#)

Select the period you want pending modifications or maintenance applied to the database by Amazon RDS.

Choose a window



## 5. Migrate database from EC2 to RDS.

use the command

- `mysqldump -u root -p database_name > file_name.sql`
- Migrate the DB dump that you have taken in step 1 to RDS

`mysql -h <replace-rds-end-point-here> -P 3306 -u <user_name> -p database_name < ec2db.sql`

```
[root@ip-172-31-19-114 ~]# mysql -h my-rds-mariadb.c45kqc8o02s1.us-east-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 45
Server version: 11.4.5-MariaDB 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)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| innodb |
| mysql |
| performance_schema |
| sys |
+-----+
5 rows in set (0.008 sec)
```

```

MariaDB [(none)]> create database rdsdb;
Query OK, 1 row affected (0.003 sec)

MariaDB [(none)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| innodb |
| mysql |
| performance_schema |
| rdsdb |
| sys |
+-----+
6 rows in set (0.001 sec)

MariaDB [(none)]> exit
Bye

```

Then migrate the data from EC2 to rds:

```

[root@ip-172-31-19-114 ~]# mysql -h my-rds-mariadb.c45kqc8o02sl.us-east-1.rds.a
amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 57
Server version: 11.4.5-MariaDB 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)]> show databases;
+-----+
| Database |
+-----+
| information_schema |
| innodb |
| mysql |
| performance_schema |
| rdsdb |
| sys |
+-----+
6 rows in set (0.001 sec)

```

Then switch to the rdsdb database and select the table to see the migrated data select\* FROM table1;

```
MariaDB [(none)]> use rdsdb;
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 [rdsdb]> select * from table1;
+-----+-----+
| id    | name  |
+-----+-----+
| 1     | Virat |
| 2     | Sachin|
| 3     | Dhoni |
| 4     | ABD   |
+-----+-----+
4 rows in set (0.001 sec)
```

## 6. Install MySQL DB on EC2.

Remove mariadb by using sudo dnf remove -y mariadb105\*

```
[root@ip-172-31-115-0 ~]# sudo dnf remove -y mariadb105*
Dependencies resolved.
=====
Package                                     Architecture
=====
Removing:
mariadb105                                 x86_64
mariadb105-backup                         x86_64
mariadb105-common                         x86_64
mariadb105-cracklib-password-check        x86_64
mariadb105-errmsg                         x86_64
mariadb105-gssapi-server                  x86_64
mariadb105-server                         x86_64
mariadb105-server-utils                   x86_64
Removing unused dependencies:
mariadb-connector-c                       x86_64
mariadb-connector-c-config                noarch
mysql-selinux                             noarch
perl-B                                    x86_64
perl-DBD-MariaDB                          x86_64
```

sudo dnf clean packages

```
Complete!
[root@ip-172-31-115-0 ~]# sudo dnf clean packages
0 files removed
[root@ip-172-31-115-0 ~]# |
```

- Change directory to opt.
- sudo wget <https://dev.mysql.com/get/mysql80-community-release-el9-1.noarch.rpm>
- sudo dnf install mysql80-community-releaseel91.noarch.rpm-y

```
[root@ip-172-31-115-0 opt]# wget https://dev.mysql.com/get/mysql80-community-release-el9-1.noarch.rpm
--2025-10-13 10:14:03-- https://dev.mysql.com/get/mysql80-community-release-el9-1.noarch.rpm
Resolving dev.mysql.com (dev.mysql.com)... 23.207.138.29, 2600:1408:7400:4b7::2e31, 2600:1408:7400:493::2e31
Connecting to dev.mysql.com (dev.mysql.com)|23.207.138.29|:443... connected.
HTTP request sent, awaiting response... 302 Moved Temporarily
Location: https://repo.mysql.com/mysql80-community-release-el9-1.noarch.rpm [following]
--2025-10-13 10:14:03-- https://repo.mysql.com/mysql80-community-release-el9-1.noarch.rpm
Resolving repo.mysql.com (repo.mysql.com)... 23.33.203.94, 2600:1408:a:186::1d68, 2600:1408:a:197::1d68
Connecting to repo.mysql.com (repo.mysql.com)|23.33.203.94|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 10534 (10K) [application/x-redhat-package-manager]
Saving to: 'mysql80-community-release-el9-1.noarch.rpm'

mysql80-community-release-el9-1.noarch. 100%[=====]

2025-10-13 10:14:03 (189 MB/s) - 'mysql80-community-release-el9-1.noarch.rpm' saved [10534/10534]

[root@ip-172-31-115-0 opt]# dnf install mysql80-community-release-el9-1.noarch.rpm -y
Last metadata expiration check: 3:38:51 ago on Mon Oct 13 06:35:45 2025.
Dependencies resolved.
=====
Package                                Architecture                               Version
=====
Installing:
mysql80-community-release              noarch                                    el9-1
Transaction Summary
=====
```

sudo dnf install mysql-community-server -y

```
[root@ip-172-31-115-0 opt]# rpm --import https://repo.mysql.com/RPM-GPG-KEY-mysql-2023
[root@ip-172-31-115-0 opt]# dnf install mysql-community-server -y
MySQL 8.0 Community Server
MySQL Connectors Community
MySQL Tools Community
Dependencies resolved.
=====
Package                                Architecture                               Version
=====
Installing:
mysql-community-server                 x86_64                                    8.0.43-1.el9
Installing dependencies:
mysql-community-client                 x86_64                                    8.0.43-1.el9
mysql-community-client-plugins         x86_64                                    8.0.43-1.el9
mysql-community-common                 x86_64                                    8.0.43-1.el9
mysql-community-icu-data-files         x86_64                                    8.0.43-1.el9
mysql-community-libs                   x86_64                                    8.0.43-1.el9
Transaction Summary
=====
```

Sudo systemctl start sqld

Sudo systemctl ststus sqld.

```
[root@ip-172-31-35-200 opt]# sudo systemctl start mysqld
[root@ip-172-31-35-200 opt]# sudo systemctl status mysqld
● mysqld.service - MySQL Server
   Loaded: loaded (/usr/lib/systemd/system/mysqld.service; enabled; preset: disabled)
   Active: active (running) since Sun 2025-10-12 19:26:34 UTC; 21s ago
     Docs: man:mysqld(8)
           http://dev.mysql.com/doc/refman/en/using-systemd.html
  Process: 41203 ExecStartPre=/usr/bin/mysqld_pre_systemd (code=exited, status=0/SUCCESS)
 Main PID: 41275 (mysqld)
    Status: "Server is operational"
```

```
[root@ip-172-31-35-200 opt]# sudo mysql_secure_installation

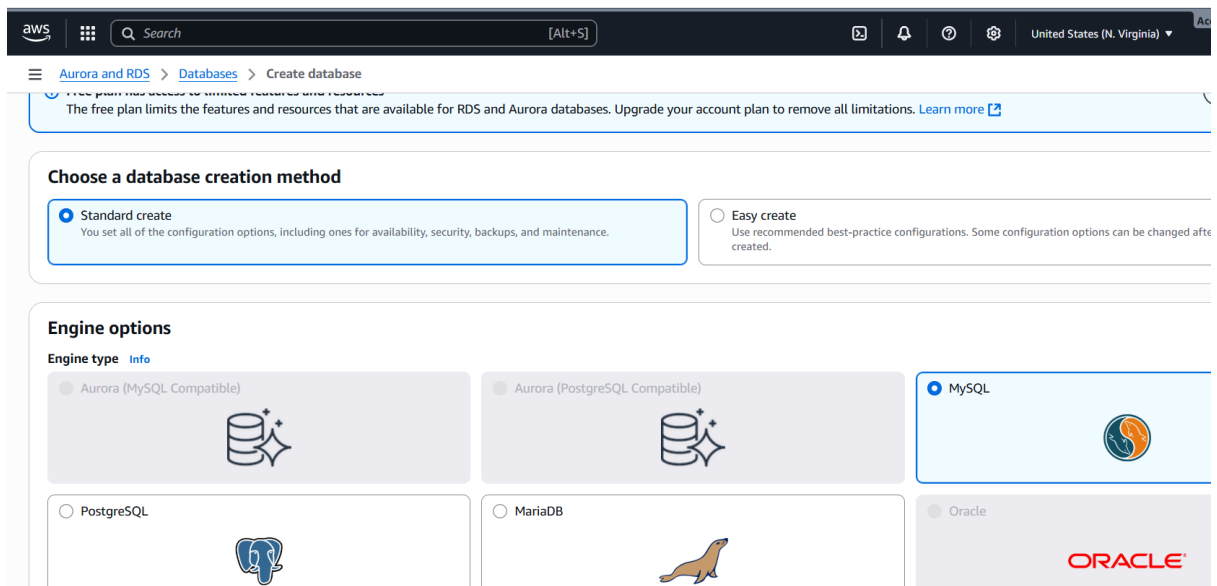
Securing the MySQL server deployment.

Enter password for user root:
The 'validate_password' component is installed on the server.
The subsequent steps will run with the existing configuration
of the component.
Using existing password for root.

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

## 7.Launch MySQL RDS image.

Go to aurora and rds databases and create databases. Select standard and mysql.



aws

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United States (N. Virginia)

Account ID: 2355-5102-8455

Aurora and RDS

Databases

Create database

Templates

Choose a sample template to meet your use case.

Production

Use defaults for high availability and fast, consistent performance.

Dev/Test

This instance is intended for development use outside of a production environment.

Free tier

Use RDS Free Tier to develop new applications, test existing applications, or gain hands-on experience with Amazon RDS.

Availability and durability

Deployment options

Info

Choose the deployment option that provides the availability and durability needed for your use case. AWS is committed to a certain level of uptime depending on the deployment option you choose. Learn more in the [Amazon RDS service level agreement \(SLA\)](#).

Multi-AZ DB cluster deployment (3 instances)

Creates a primary DB instance with two readable standbys in separate Availability Zones. This setup provides:

- 99.95% uptime
- Redundancy across Availability Zones
- Increased read capacity
- Reduced write latency

Write/read endpoint

AZ 1

Reader endpoints

AZ 2

Readable standby + SSD

Multi-AZ DB instance deployment (2 instances)

Creates a primary DB instance with a non-readable standby instance in a separate Availability Zone. This setup provides:

- 99.95% uptime
- Redundancy across Availability Zones

Write/read endpoint

AZ 1

Standby (no endpoint)

AZ 2

Single-AZ DB instance deployment (1 instance)

Creates a single DB instance without standby instances. This setup provides:

- 99.5% uptime
- No data redundancy

Write/read endpoint

AZ 1

aws

Search

[Alt+S]

United States (N. Virginia)

Aurora and RDS

Databases

Create database

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. Can't contain two consecutive hyphens.

Credentials Settings

Master username

Info

Type a login ID for the master user of your DB instance.

admin

1 to 16 alphanumeric characters. The first character must be a letter.

Credentials management

You can use AWS Secrets Manager or manage your master user credentials.

Managed in AWS Secrets Manager - most secure

RDS generates a password for you and manages it throughout its lifecycle using AWS Secrets Manager.

Self managed

Create your own password or have RDS create a password that you manage.

☐ Auto generate password

Amazon RDS can generate a password for you, or you can specify your own password.

Master password

Info

\*\*\*\*\*

Password strength

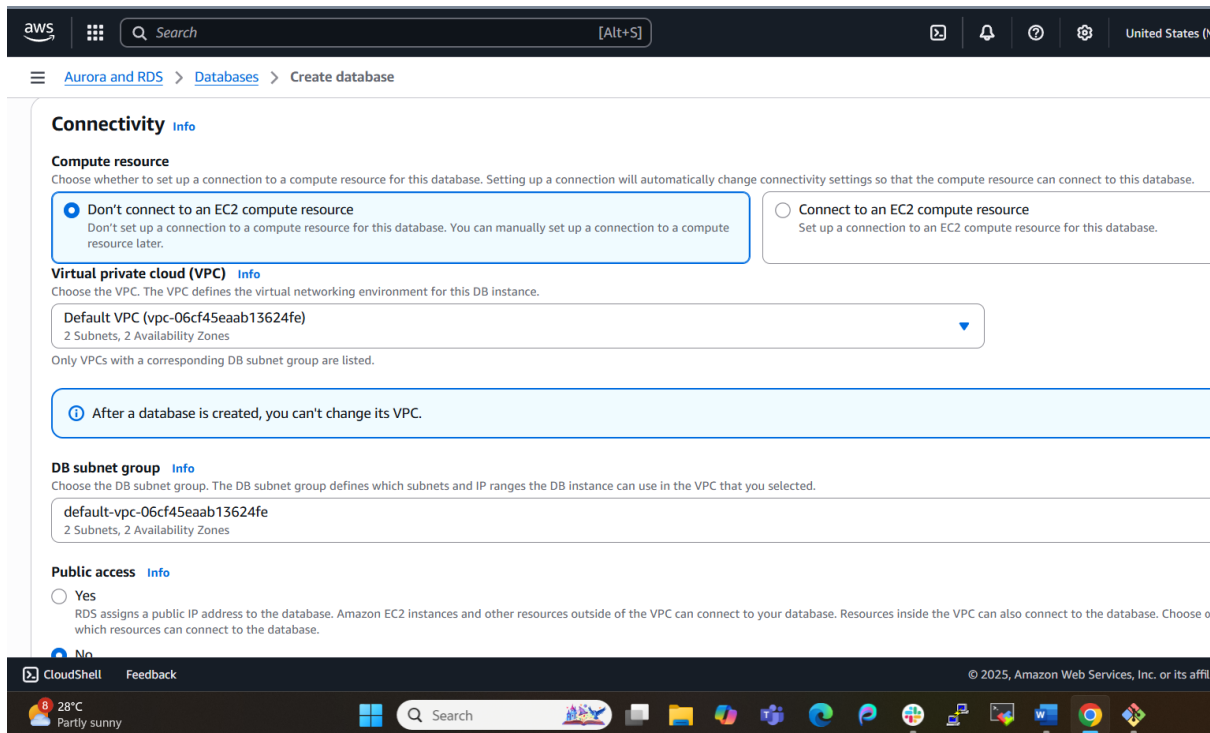
Very weak

Minimum constraints: At least 8 printable ASCII characters. Can't contain any of the following symbols: / ' \* @

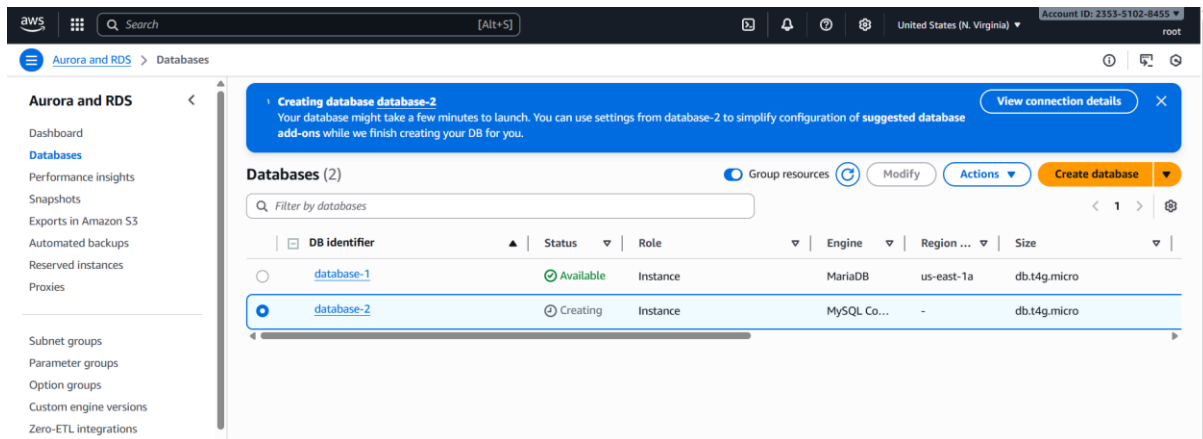
Confirm master password

Info

\*\*\*\*\*

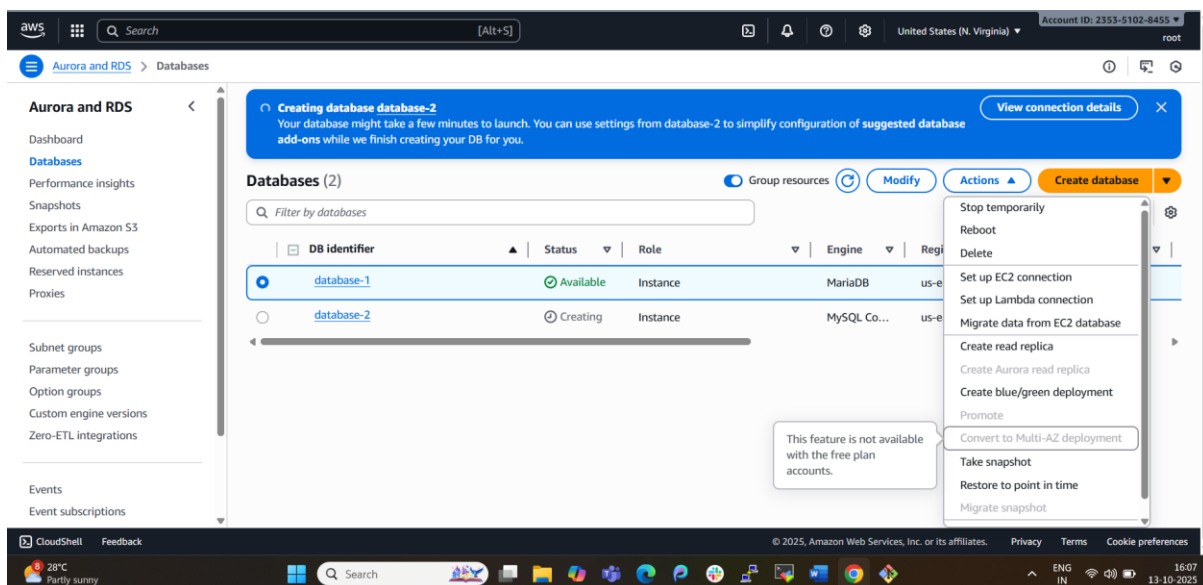






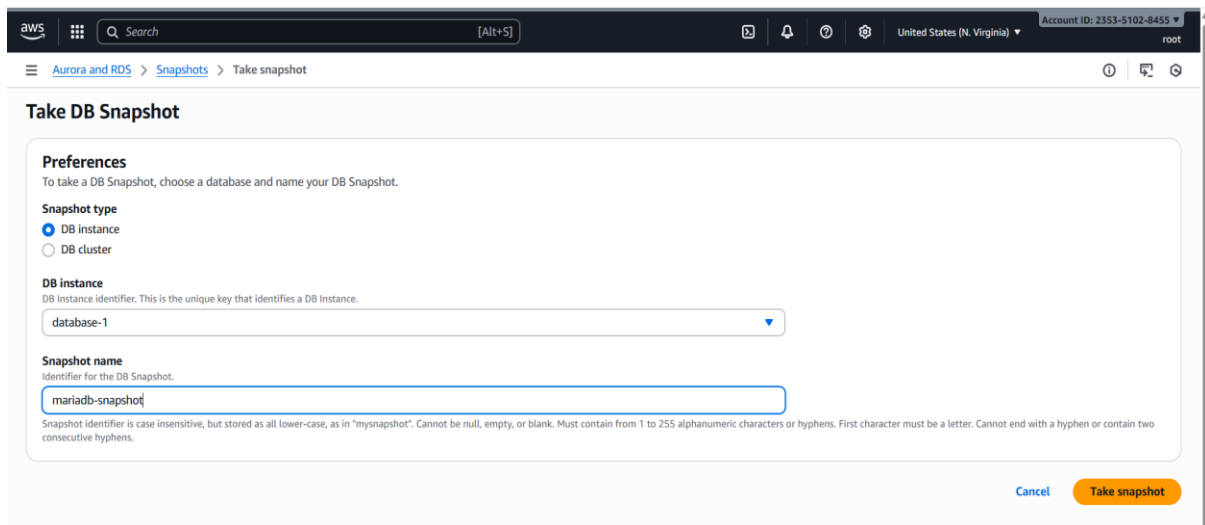
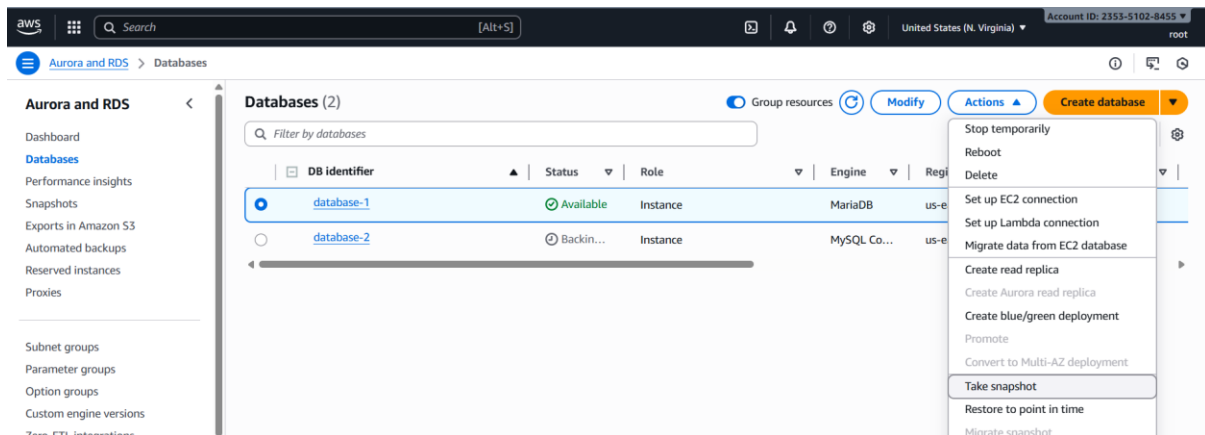
## 8. Configure Multi-AZ.

Go to aurora and rds and select your database and click on actions and select convert to multi-AZ deployment.

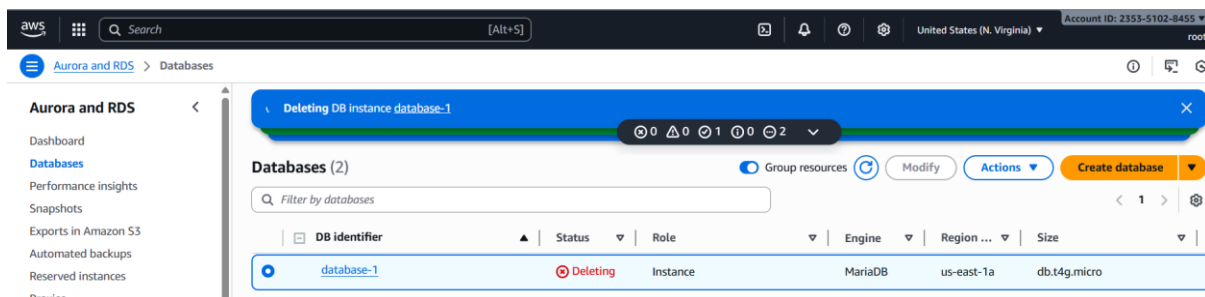


## 9. Take backup of DB and restore the DB.

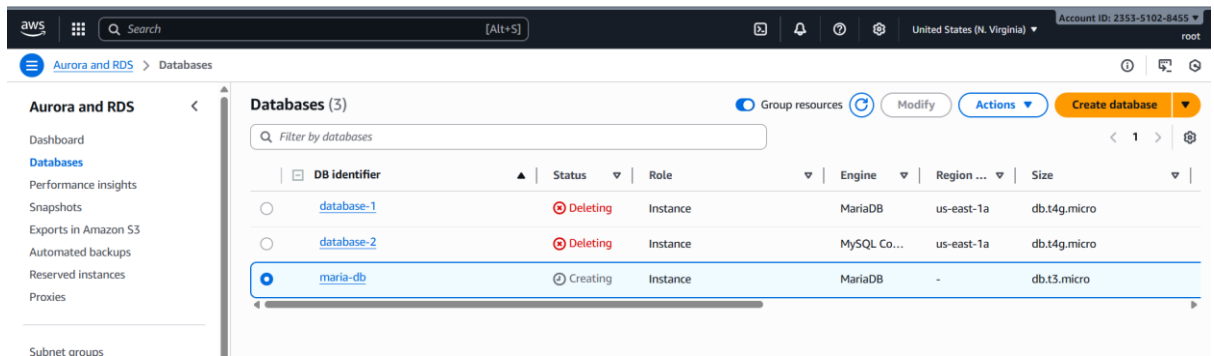
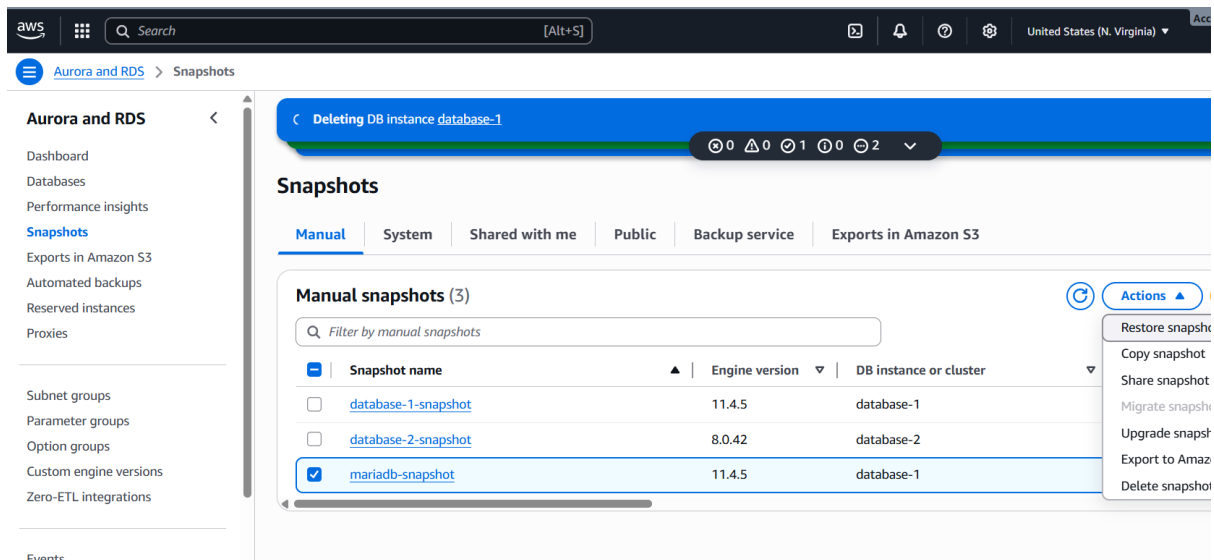
Select your database and click on snapshot



After taking the backup delete the database.

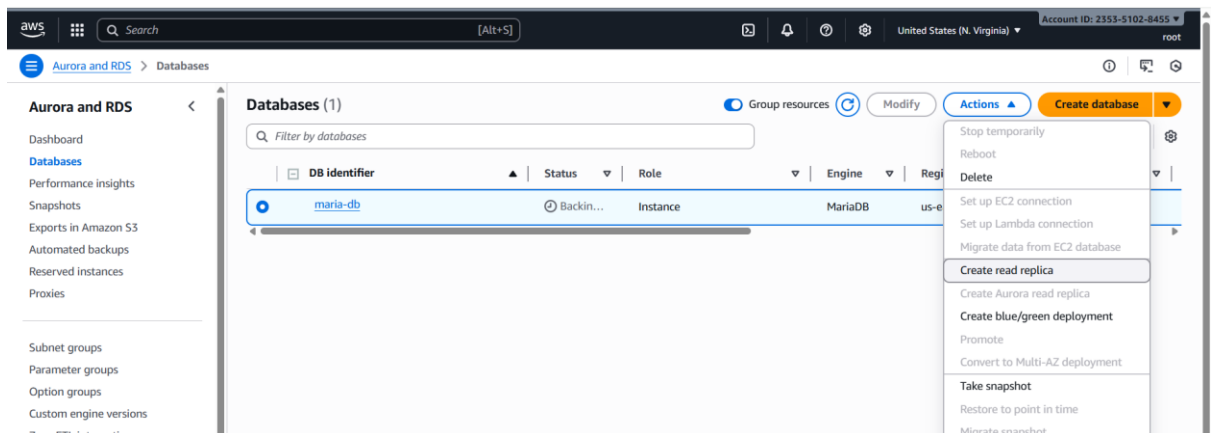


Go to snapshots and select on snapshot click on actions and restore snapshot.



## 10. Create read replica.

Select database and click on action and select create read replica.





### Availability & durability

Multi-AZ deployment [Info](#)

Specifies if the DB instance should have a standby deployed in another Availability Zone.

- ☐ Create a standby instance (recommended for production usage)  
Creates a standby in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.
- ☒ Do not create a standby instance

## Connectivity

Network type [Info](#)

To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.

- ☒ **IPv4**  
Your resources can communicate only over the IPv4 addressing protocol.

☐ **Dual-stack mode**  
Your resources can communicate over IPv4, IPv6, or both.

DB subnet group [Info](#)

Choose the DB subnet group. The DB subnet group defines which subnets and IP ranges the DB instance can use in the VPC that you selected.

```
default-vpc-06cf45eaab13624fe
```

## Public access

- ☐ **Publicly accessible**  
RDS assigns a public IP address to the database. Amazon EC2 instances and other resources outside of the VPC can connect to your database. Resources inside the VPC can also connect to the database which resources can connect to the database.
- ☒ **Not publicly accessible**  
No IP address is assigned to the DB instance. EC2 instances and devices outside the VPC can't connect.

*Choose VPC security groups*

default 

Availability Zone [Info](#)

The EC2 Availability Zone that the database will be created in.

us-east-1b

Certificate authority - optional [Info](#)

Using a server certificate provides an extra layer of security by validating that the connection is being made to an Amazon database. It does so by checking the server certificate that is automatically installed (

rds-ca-rsa2048-g1 (default)  
Expiry: May 26, 2061

If you don't select a certificate authority, RDS chooses one for you.

► **Additional configuration**

## Database authentication

Database authentication options [Info](#)

- ☒ **Password authentication**  
Authenticates using database passwords.
- ☐ **Password and IAM database authentication**  
Authenticates using the database password and user credentials through AWS IAM users and roles.

Aurora and RDS

Databases

Create read replica

Enter a key ARN

Amazon Resource Name (ARN)

arn:aws:kms:us-east-1:235351028455:key/cc128452-49d2-45fa-8ac6-38d8494d8ad7

Example: arn:aws:kms:<region>:<accountID>:key/<key-id>

Account

235351028455

KMS key ID

cc128452-49d2-45fa-8ac6-38d8494d8ad7

Maintenance

Auto minor version upgrade [Info](#)

☒ Enable auto minor version upgrade

Enabling auto minor version upgrade will automatically upgrade your database minor version. For limitations and more details, see [Automatically upgrading the minor engine version documentation](#)

☐ Enable deletion protection

Protects the database from being deleted accidentally. While this option is enabled, you can't delete the database.

Cancel

Create read replica