Task on RDS. Database

Create mariadb db on ec2.

[ec2-user@ip-172-31-3-132 ~]$ sudo su -

[root@ip-172-31-3-132 ~]# yum -y install mariadb-server wget

[root@ip-172-31-3-132 ~]# systemctl enable mariadb

Created symlink from /etc/systemd/system/multi-user.target.wants/mariadb.service to /usr/lib/systemd/system/mariadb.service.

[root@ip-172-31-3-132 ~]# systemctl start mariadb

[root@ip-172-31-3-132 ~]# yum -y update

Loaded plugins: extras\_suggestions, langpacks, priorities, update-motd

No packages marked for update

[root@ip-172-31-3-132 ~]# DBName=ec2db

[root@ip-172-31-3-132 ~]# DBPassword=kazmi2452

[root@ip-172-31-3-132 ~]# DBRootPassword=kazmi2452

[root@ip-172-31-3-132 ~]# DBUser=ec2dbuser

[root@ip-172-31-3-132 ~]# echo "CREATE DATABASE ${DBName};">> /tmp/db.setup

[root@ip-172-31-3-132 ~]# echo "CREATE USER '${DBUser}' IDENTIFIED BY '${DBPassword}';">> /tmp/db.setup

[root@ip-172-31-3-132 ~]# echo "GRANT ALL PRIVILEGES ON \*.\* TO '${DBUser}'@'%';">> /tmp/db.setup

[root@ip-172-31-3-132 ~]# echo "FLUSH PRIVILEGES;">> /tmp/db.setup

[root@ip-172-31-3-132 ~]# mysqladmin -u root password "${DBRootPassword}"

[root@ip-172-31-3-132 ~]# mysql -u root --password="${DBRootPassword}"< /tmp/db.setup

[root@ip-172-31-3-132 ~]# rm /tmp/db.setup

rm: remove regular file ‘/tmp/db.setup’?

[root@ip-172-31-3-132 ~]# mysql -u root --password="${DBRootPassword}"

Welcome to the MariaDB monitor. Commands end with ; or \g.

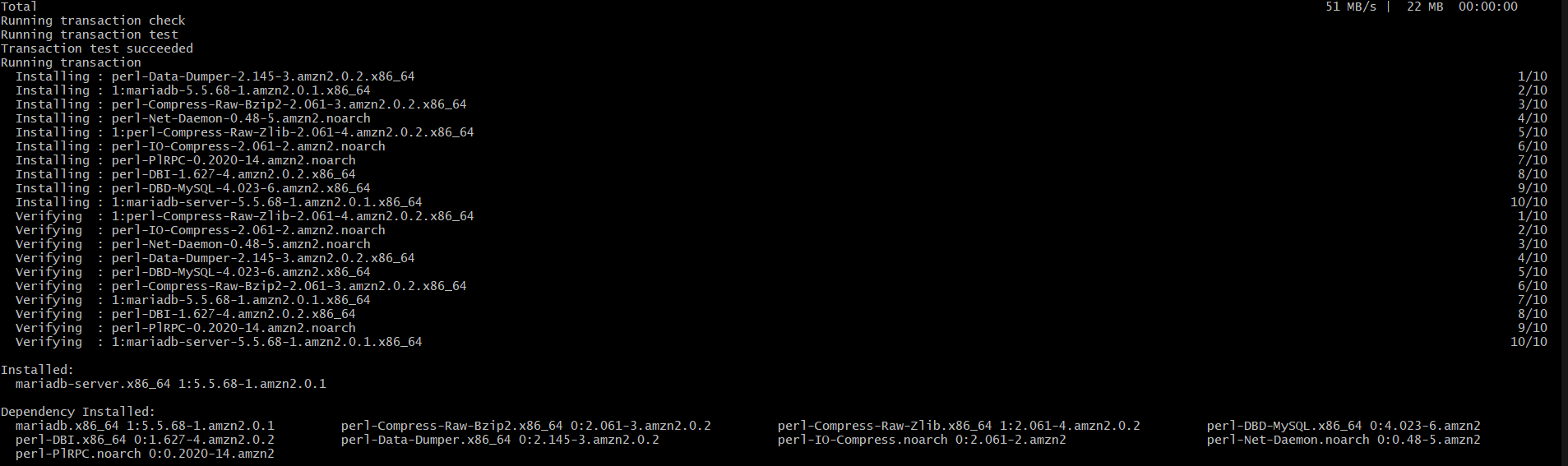
Your MariaDB connection id is 4

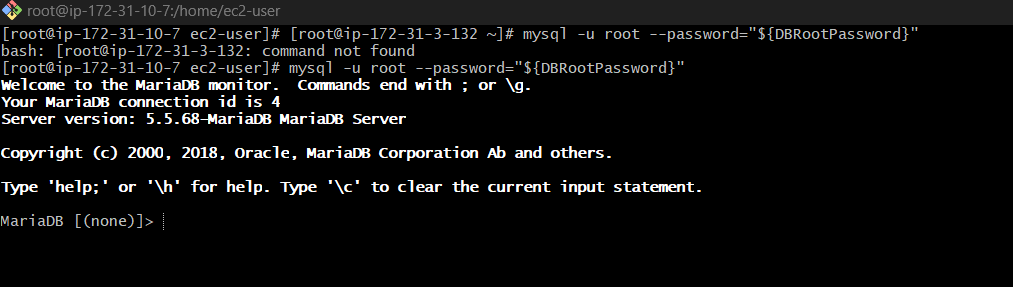
Server version: 5.5.68-MariaDB MariaDB Server

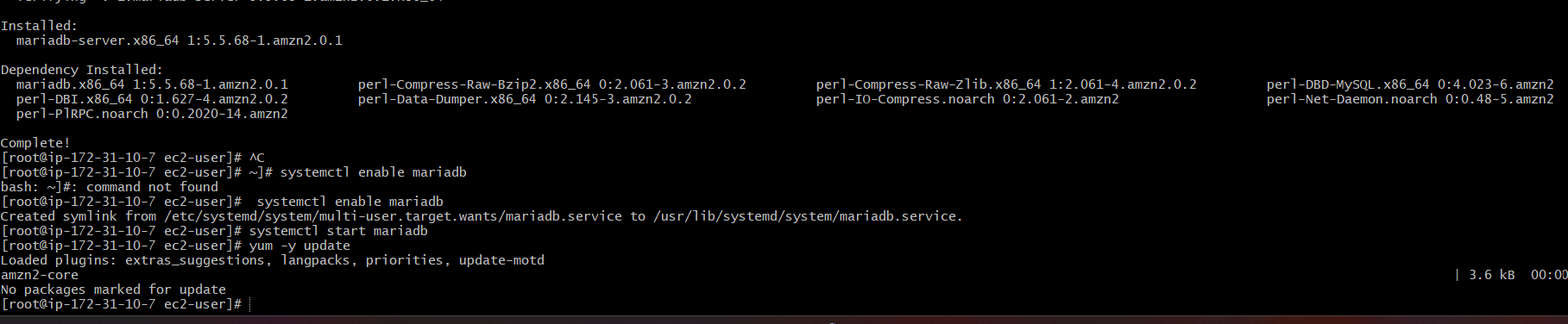
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

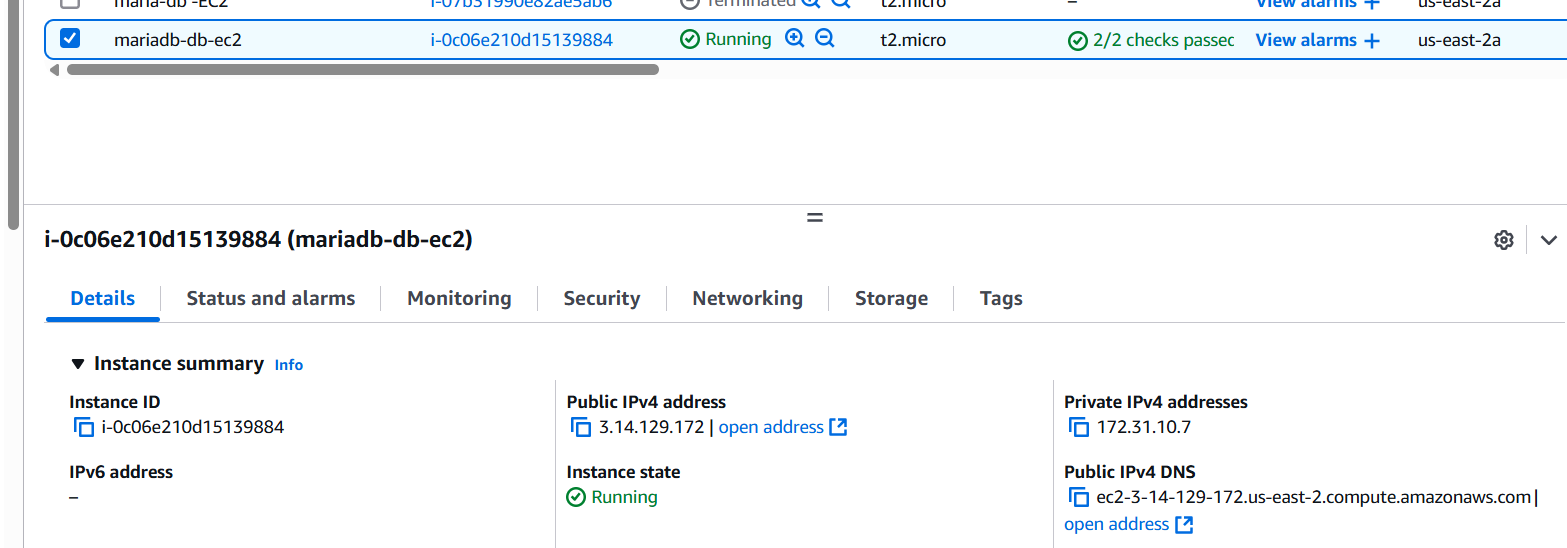
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]>

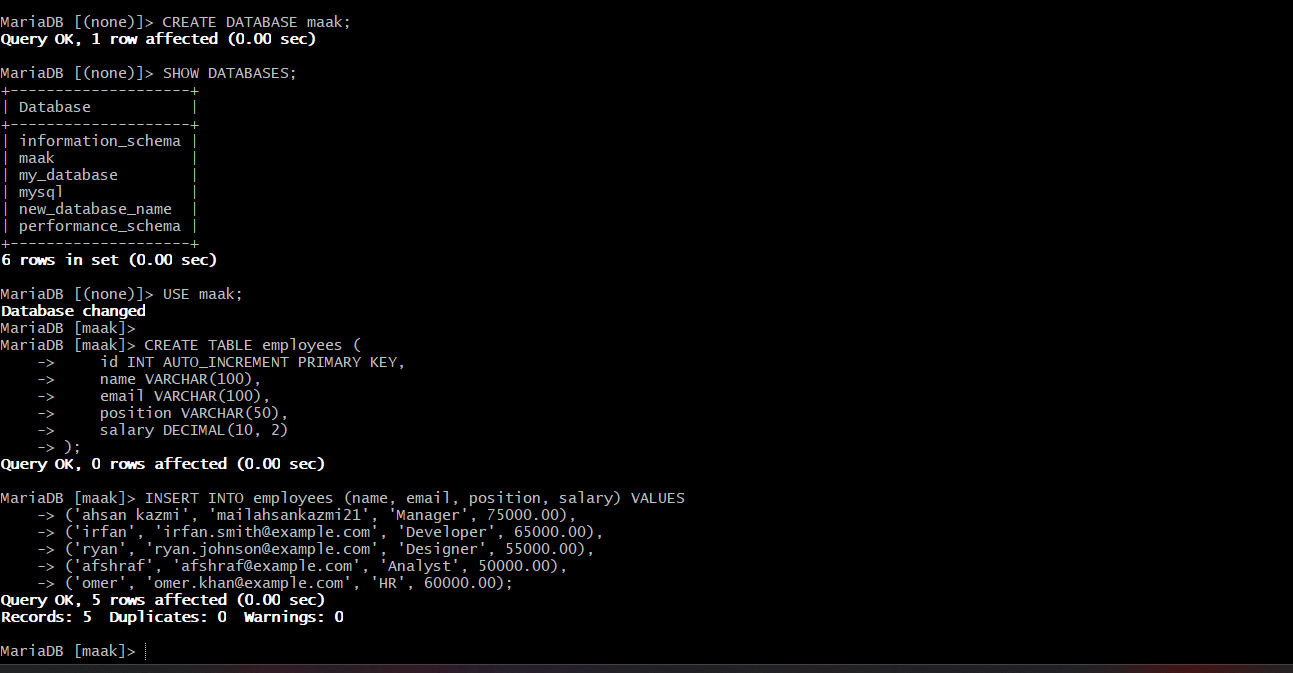




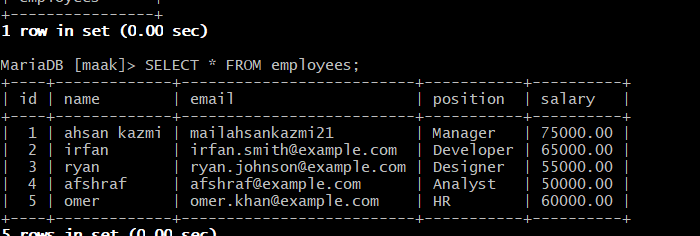




2) Insert some dummy data



SELECT \* FROM employees; employees I the table name



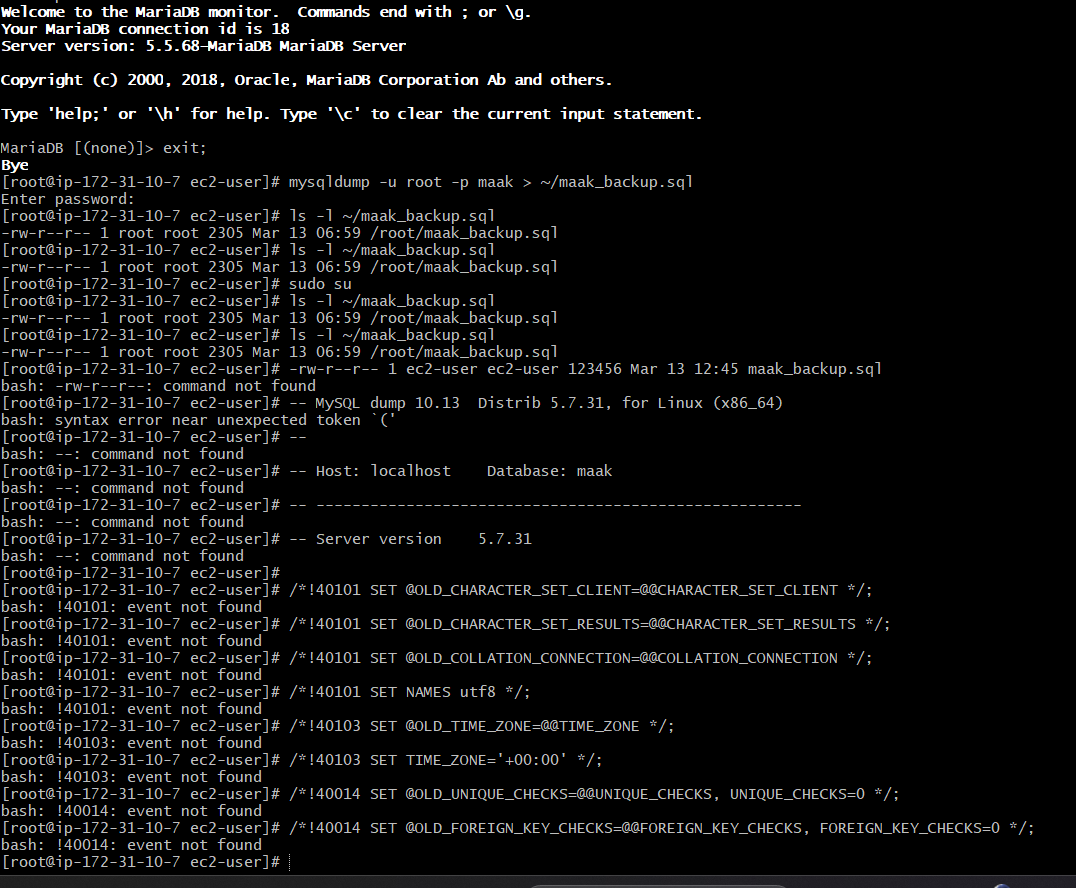
3) Take the backup of dummy data on ec2

[root@ip-172-31-3-132 ~]# mysqldump -u root -p ec2db > vijaya.sql

Enter password:

[root@ip-172-31-3-132 ~]# ls

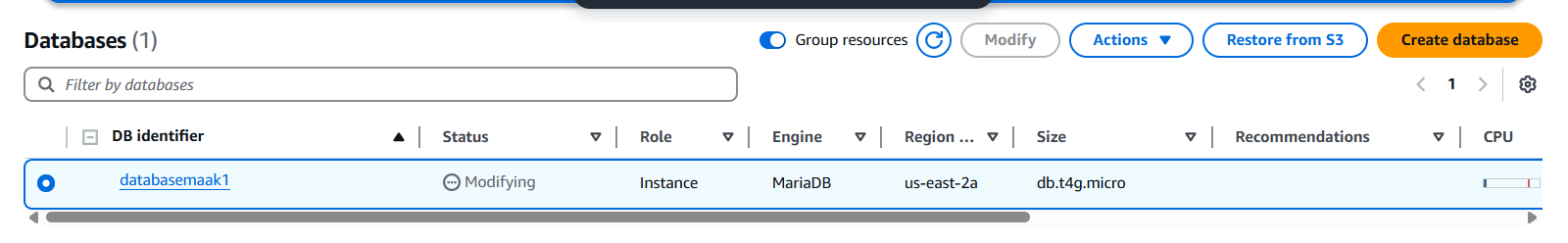
Ahsan.sql

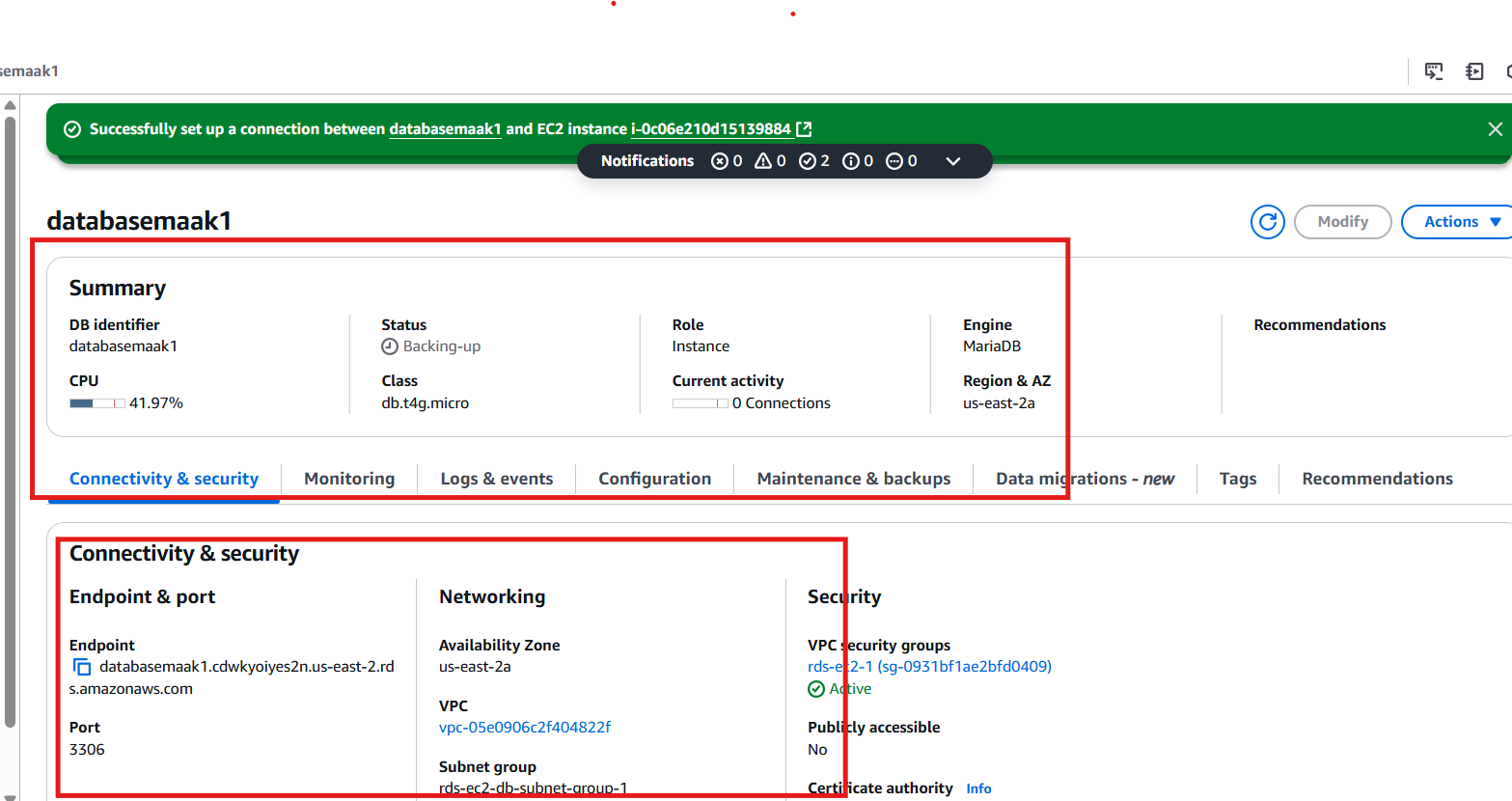


4) launch Mariadb RDS instance.

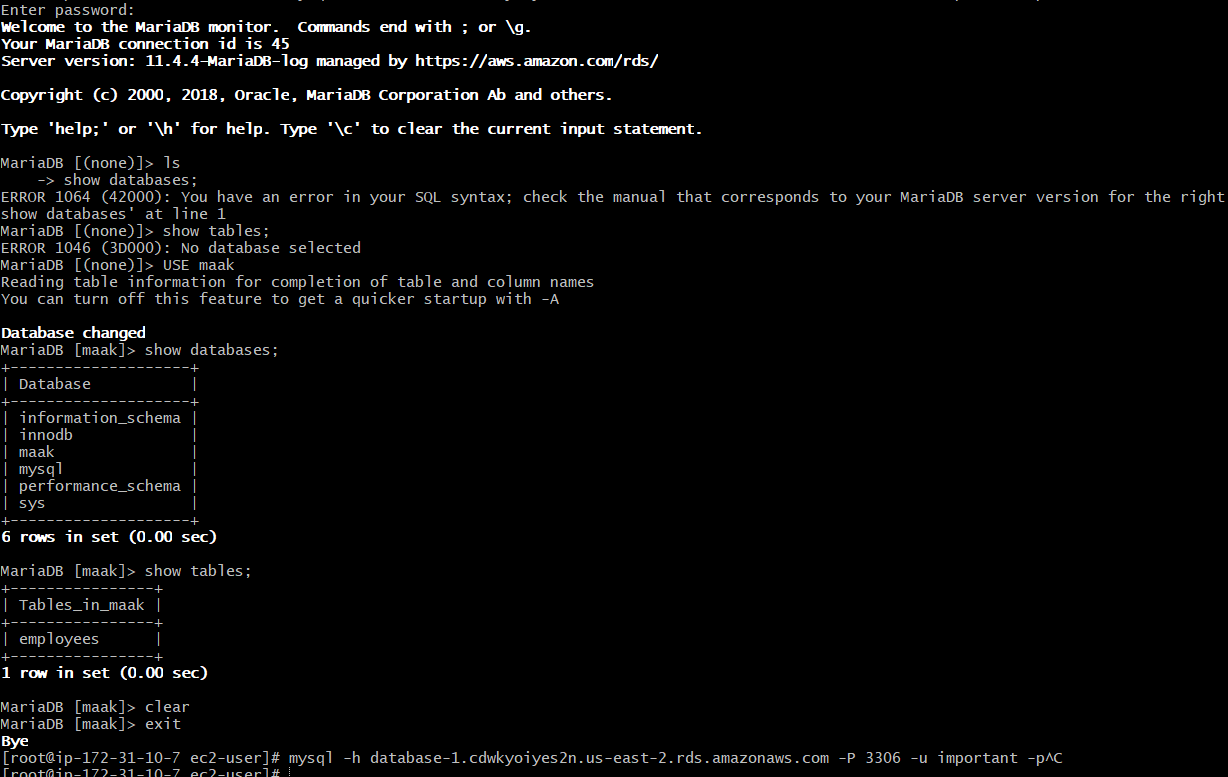
database ec2 login credentials

ec2 name: databasemaak1



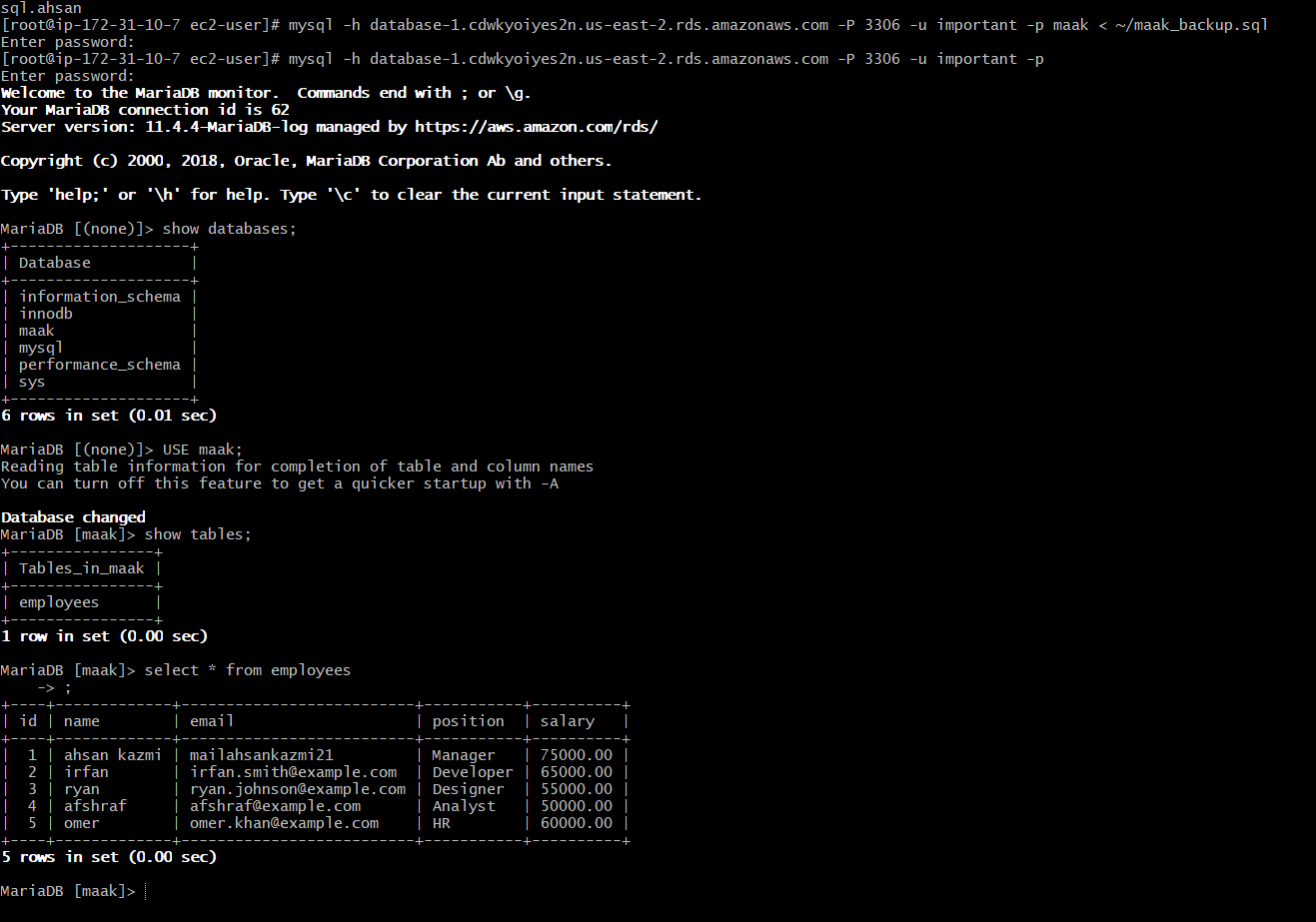


5) Migrate database from ec2 to RDS.



mysql -h databasemaak1.cdwkyoiyes2n.us-east-2.rds.amazonaws.com -P 3306 -u your-username -p

mysql -h database-1.cdwkyoiyes2n.us-east-2.rds.amazonaws.com -P 3306 -u important -p maak < ~/maak\_backup.sql

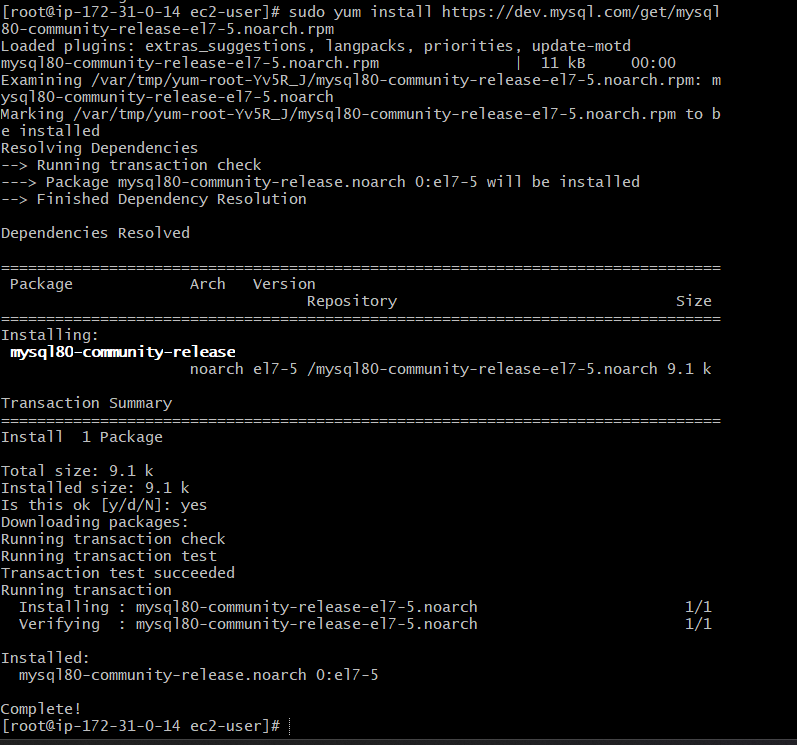


6) Install mysql db on ec2

**yum install https://dev.mysql.com/get/mysql80-community-release-el7-5.noarch.rpm**

**yum install mysql-community-server**

**Step 1:** **successfully installed the MySQL Community repository! Now, let's proceed with the installation of MySQL Server**



**Correct steps to install mysql server refer from other person**

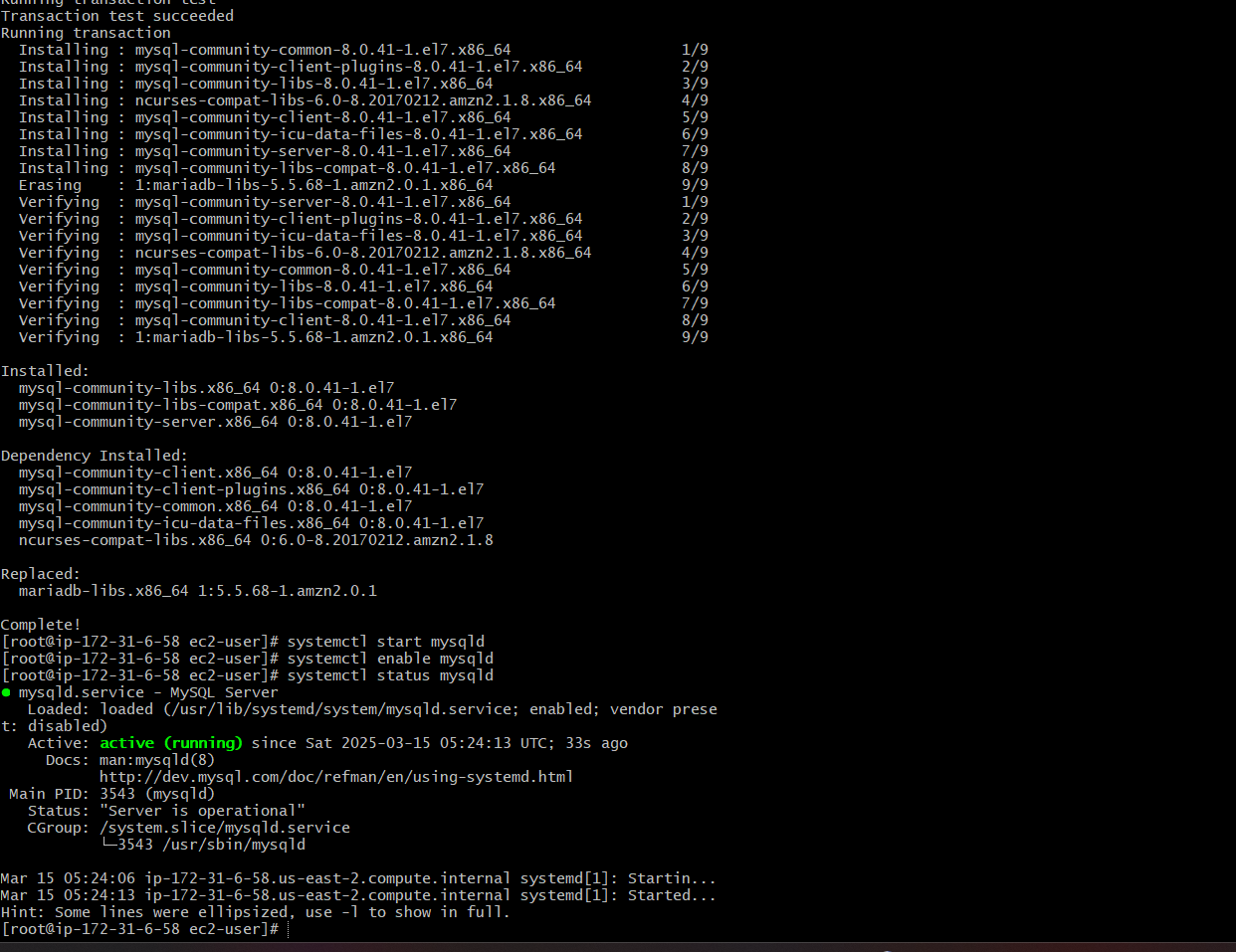
sudo rpm –Uvh <https://repo.mysql.com/mysql80-community-release-el7.rpm>

sudo yum install -y mysql-community-server

sudosystemctl start mysqld

sudosystemctl enable mysqld

sudosystemctl status mysqld



7) Launch mysql RDS image

Click on create database:

Engine options: mysql

Engine version: latest version

Template: freetier

DB instance identifier: mysqldb

Credentials settings:

Master username: admin

Click on self managed password

Master password: admin123456

Instance configuration: db.t3.micro

Storage: disable auto scaling

Connectivity: don’t connect to ec2

Network type: IPV4

VPC: default

Public access: yes

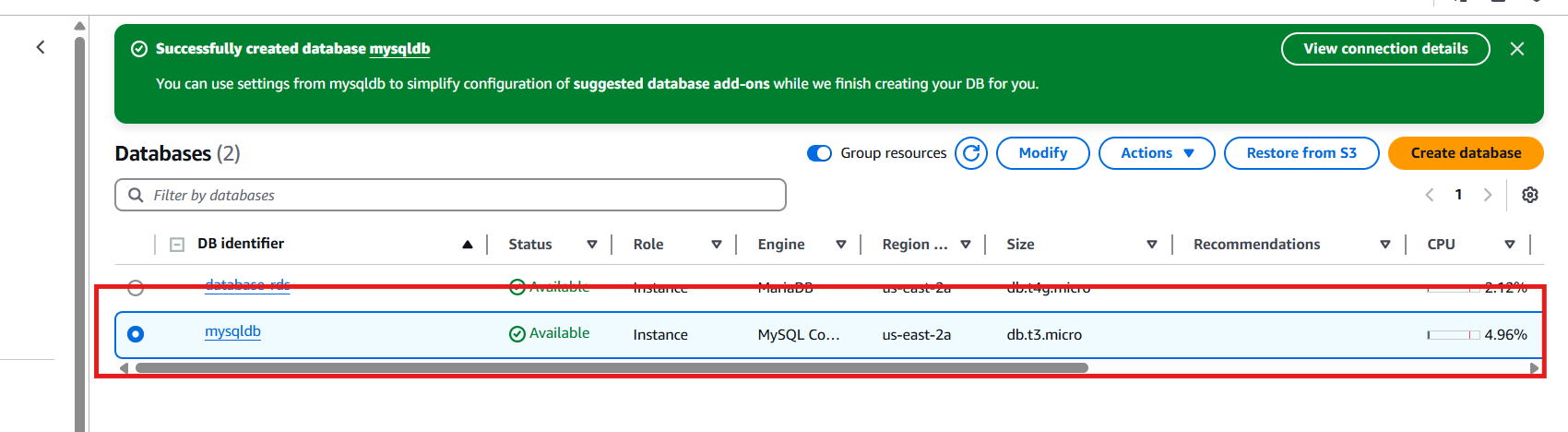
Security group: existing : default

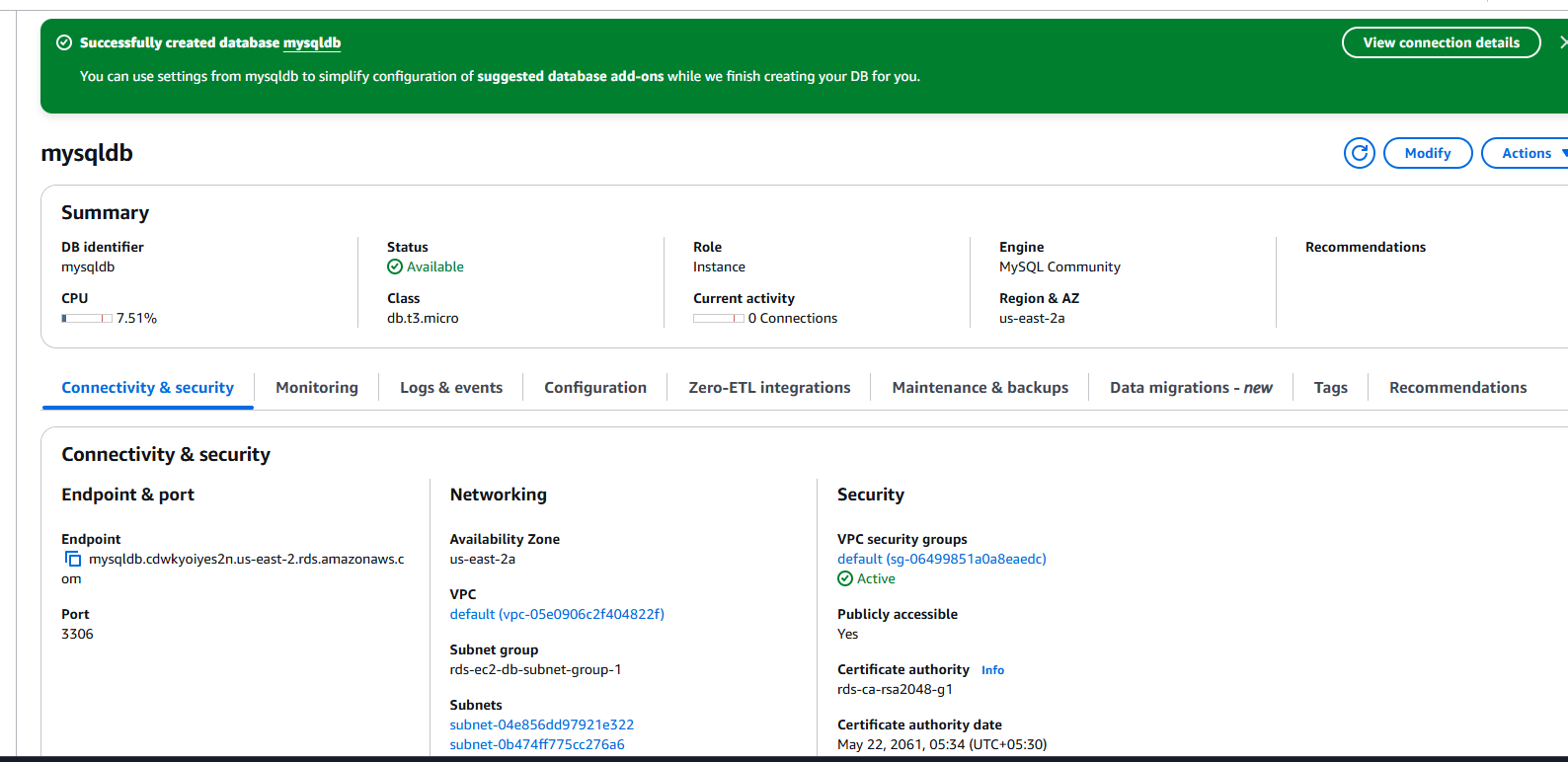
AZ: us-east-1a

Database authentication: PW authentication

Monitoring: standard

Click on create database

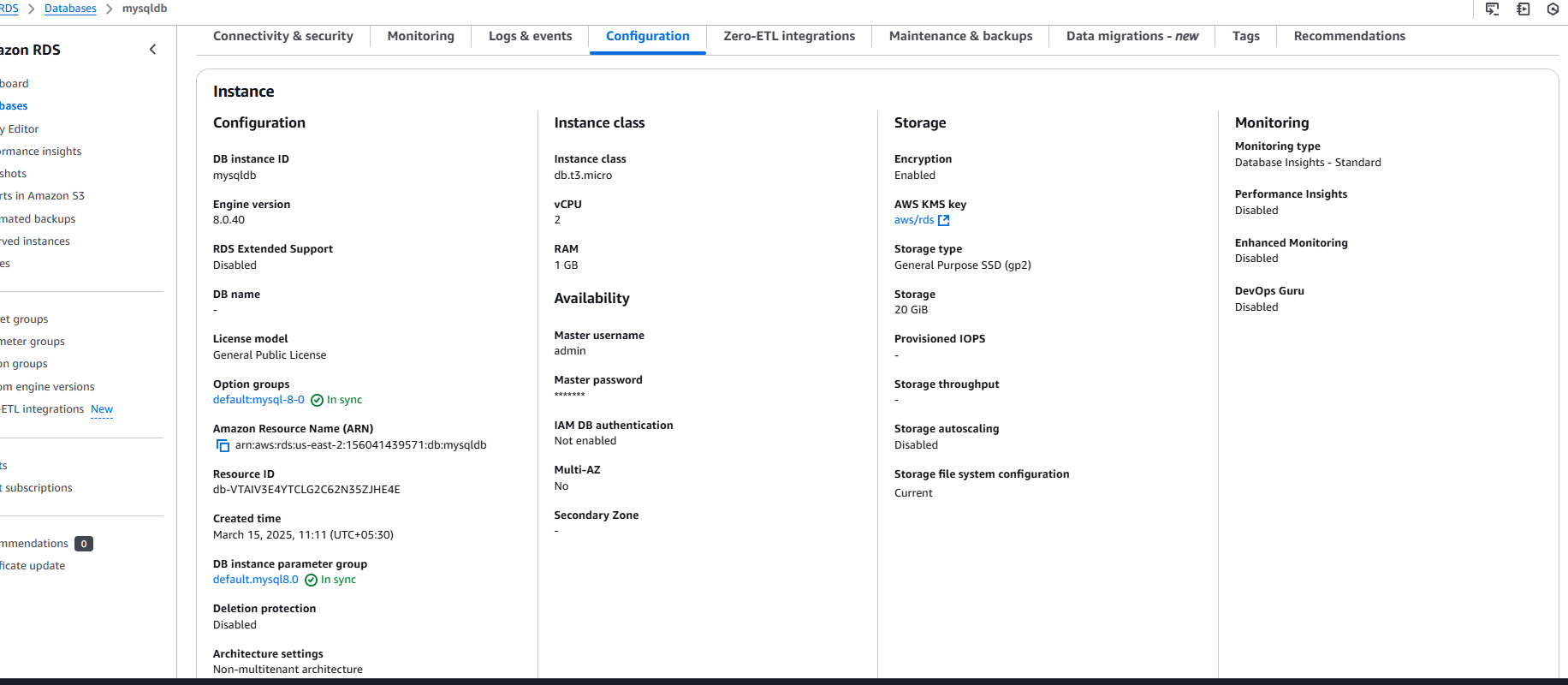




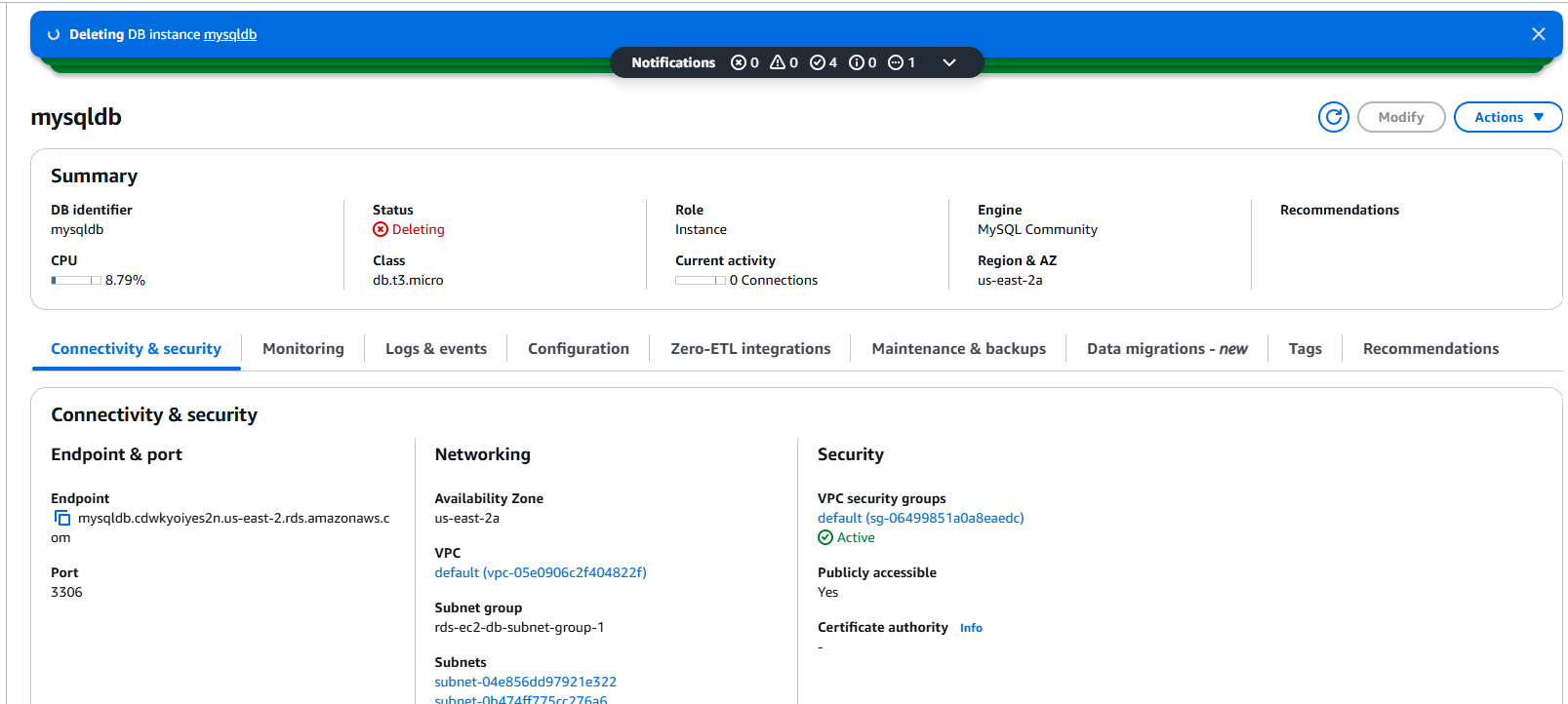
8) COnfigure multi AZ

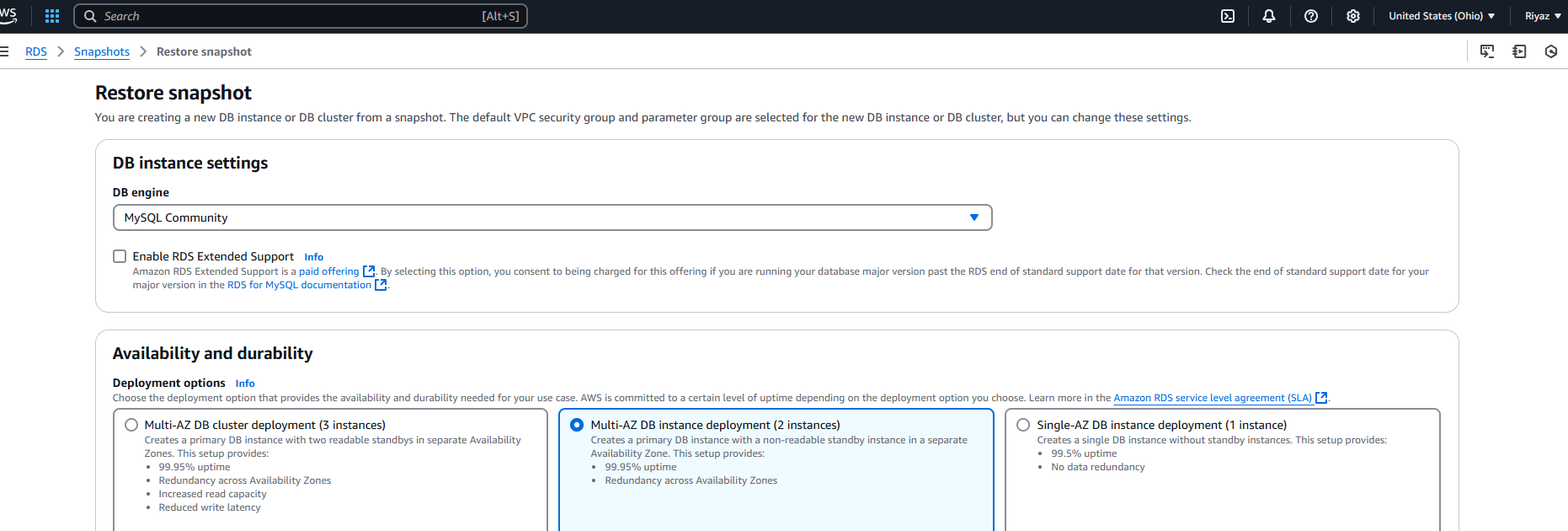
Click on actions - Click on convert multi availability zone

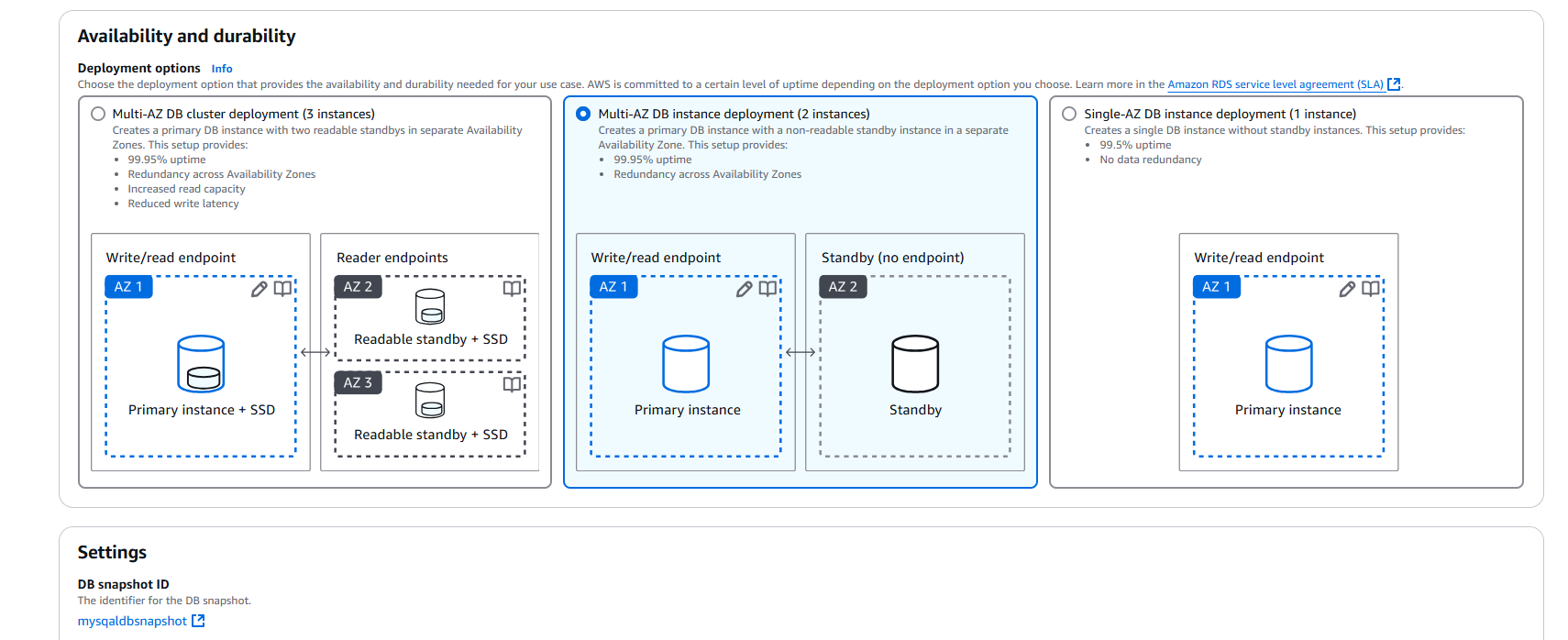
Click on apply-immediately

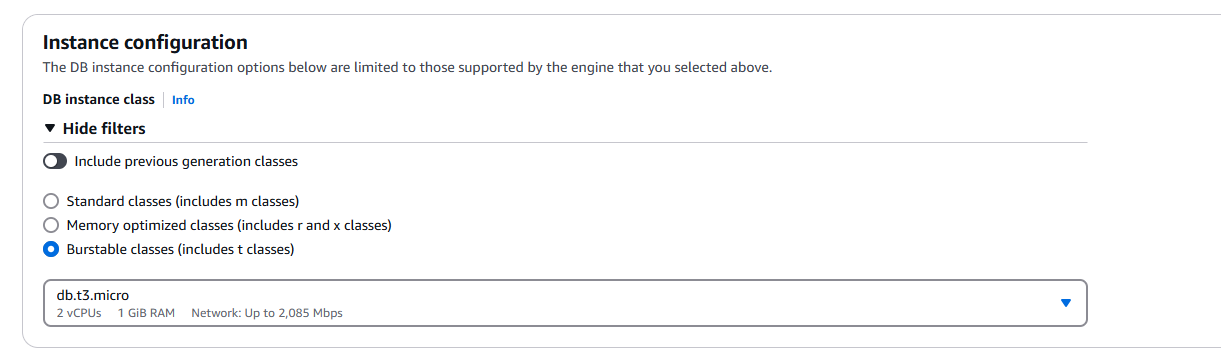


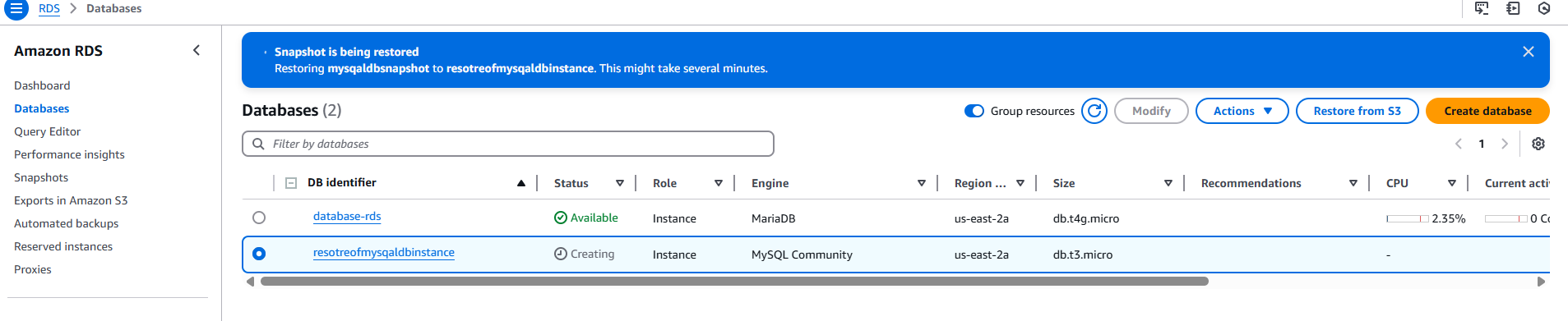
9) Take Backup of db and restore the DB





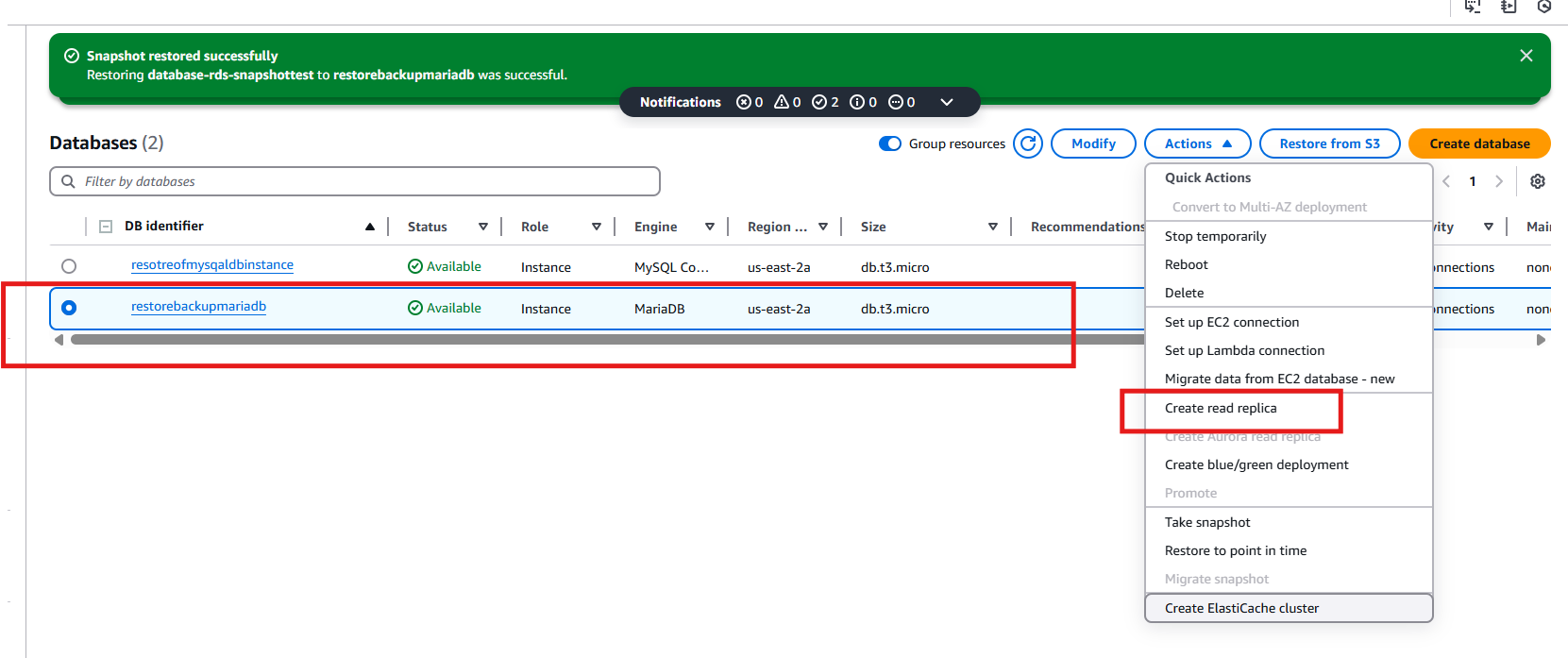




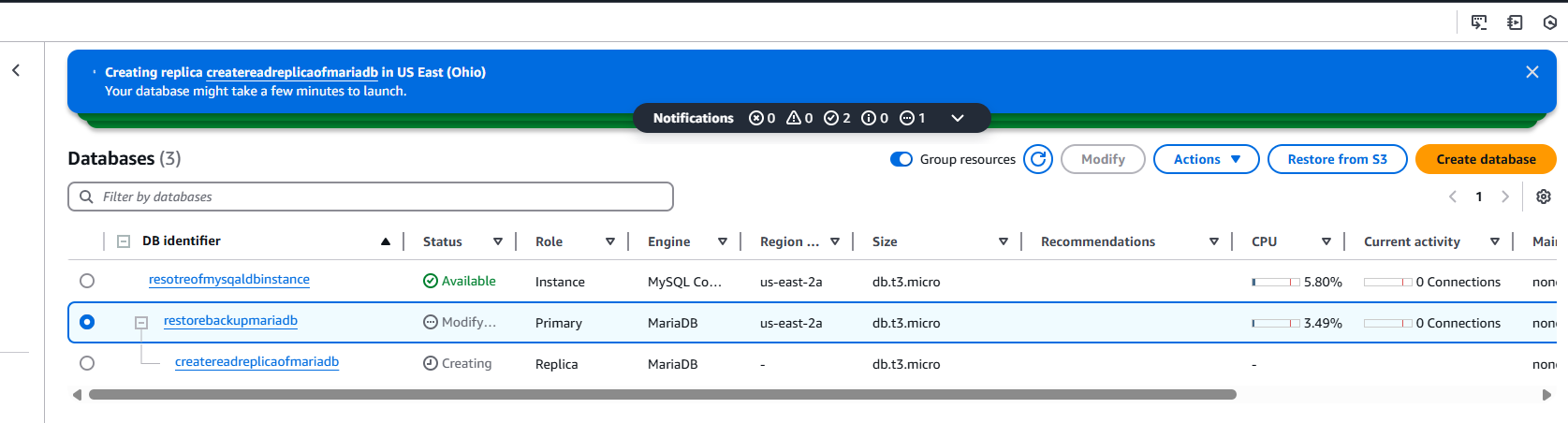


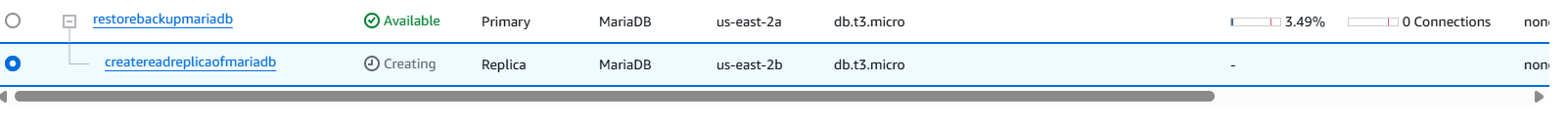
Same options – click on restore db instance

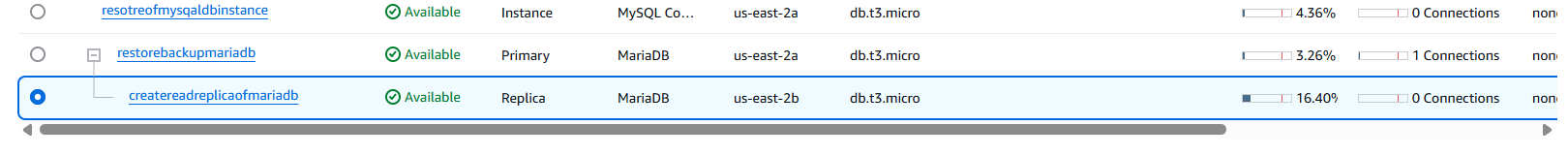
**10) Create ReadReplca**



Click on create read repica







Then we will get replica of rds instance with another endpoint name:

Connect to replica:

mysql -h mysqldb2.cmzy2umkwl5h.us-east-1.rds.amazonaws.com -P 3306 -u admin –p

this is replication to connect server

connect the server

'''mysql -h createreadreplicaofmariadb.cdwkyoiyes2n.us-east-2.rds.amazonaws.com -u adminkazmi –p

mysql> SHOW DATABASES;

+--------------------+

| Database |

+--------------------+

| ec2db |

| information\_schema |

| innodb |

| kazmidb |

| mysql |

| performance\_schema |

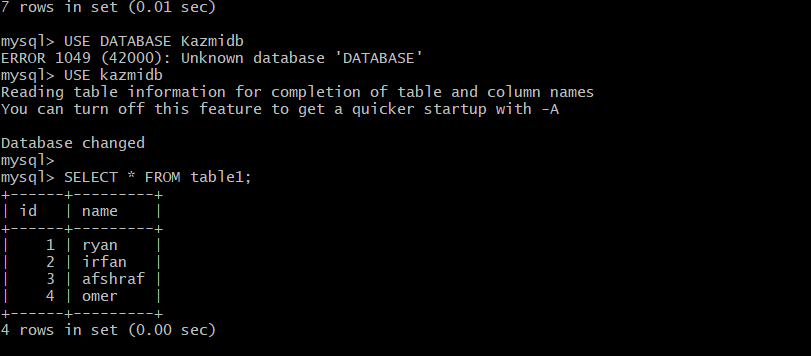
| sys |

+--------------------+

7 rows in set (0.01 sec)

mysql>

mysql> SELECT \* FROM table1;



mysql> SHOW VARIABLES LIKE 'read\_only';