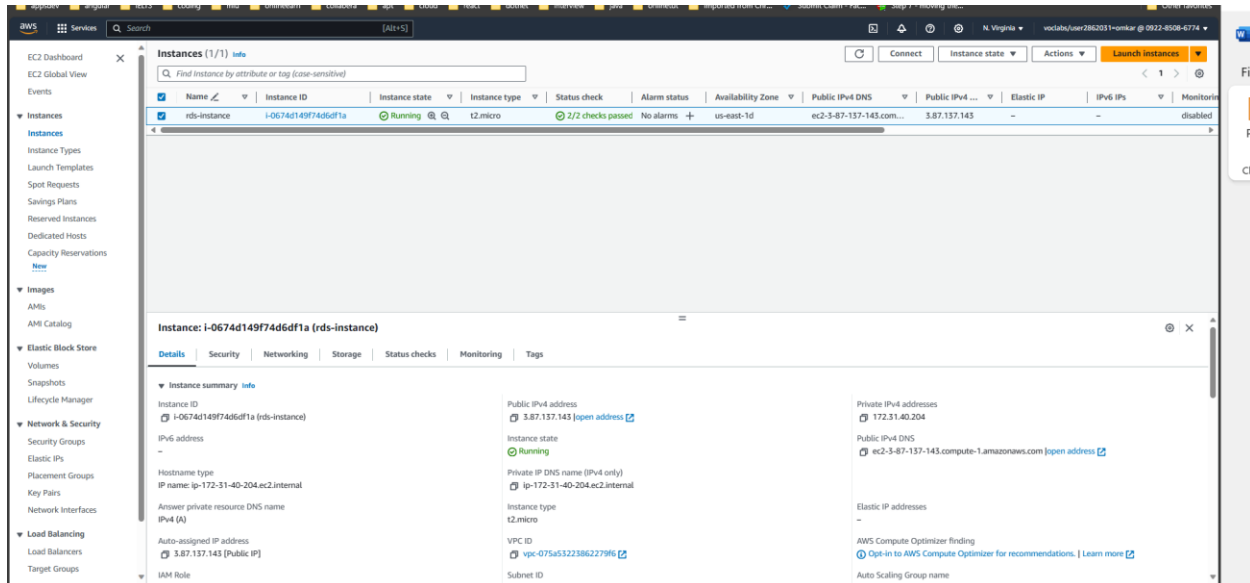


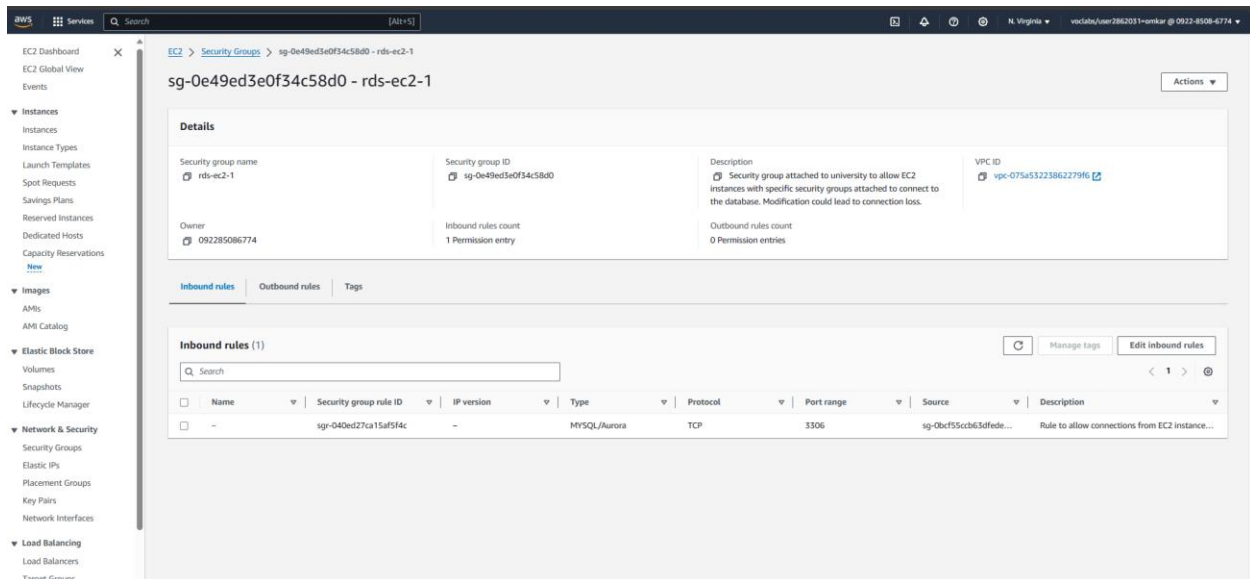
Lab4

1. Create Aurora database and connect it from an EC2 Instance

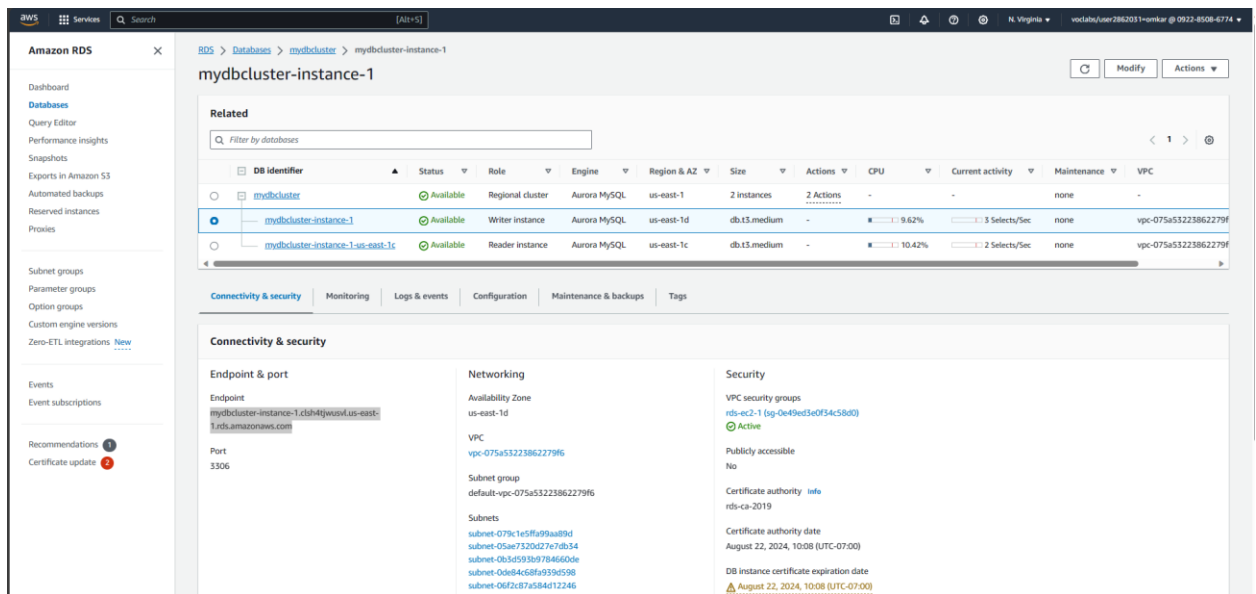
Step1: create an EC2 instance:



Step2: create SG for RDS and assign 3306 port and selecting SG group of EC2



Step3: Creating rds



Step4: install mySQL Client and create table , insert record and query the table.

```
Database changed
MySQL [university]> create table course (
  -> course_id int,
  -> course_code varchar(255),
  -> course_name varchar(255),
  -> teacher_id int
  -> );
Query OK, 0 rows affected (0.027 sec)

MySQL [university]> show tables
+-----+
| Tables_in_university |
+-----+
| course                |
+-----+
1 row in set (0.002 sec)

MySQL [university]> insert into course(course_id, course_code, course_name, teacher_id) values (1, "CC", "Cloud Computing", 1);
Query OK, 1 row affected (0.004 sec)

MySQL [university]> select * from course;
+-----+-----+-----+-----+
| course_id | course_code | course_name | teacher_id |
+-----+-----+-----+-----+
| 1         | CC          | Cloud Computing | 1         |
+-----+-----+-----+-----+
1 row in set (0.001 sec)

MySQL [university]> create table teacher(
  -> teacher_id int,
  -> name varchar(255)
  -> );
Query OK, 0 rows affected (0.024 sec)

MySQL [university]> insert into teacher(teacher_id, name) values(1, "Unbold");
Query OK, 1 row affected (0.004 sec)

MySQL [university]> select teacher.name, c.* from course c join teacher on teacher.teacher_id = c.teacher_id;
+-----+-----+-----+-----+
| name      | course_id | course_code | course_name | teacher_id |
+-----+-----+-----+-----+
| Unbold    | 1         | CC          | Cloud Computing | 1         |
+-----+-----+-----+-----+
1 row in set (0.001 sec)

l-0674d149f74d6df1a (rds-instance)
PublicPc: 3.87.137.143 PrivatePc: 172.31.40.204
```

Step 5: Connect to another instance and ensure that it is in read only mode.

```
1 row in set (0.001 sec)

MySQL [university]> create table teacher(
  -> teacher_id int,
  -> name varchar(255)
  -> );
Query OK, 0 rows affected (0.024 sec)

MySQL [university]> insert into teacher(teacher_id, name) values(1,"Unbold");
Query OK, 1 row affected (0.004 sec)

MySQL [university]> select teacher.name, c.* from course c join teacher on teacher.teacher_id = c.teacher_id;
+-----+-----+-----+-----+
| name | course_id | course_code | course_name | teacher_id |
+-----+-----+-----+-----+
| Unbold | 1 | CC | Cloud Computing | 1 |
+-----+-----+-----+-----+
1 row in set (0.001 sec)

MySQL [university]> exit
bye
[ec2-user@ip-172-31-40-204 ~]$ mysql -h mydbcluster-instance-1-us-east-1c.ckah4tjmuav1.us-east-1.rds.amazonaws.com -P 3306 -u admin -p
Enter password:
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MySQL connection id is 135
Server version: 8.0.28 Source distribution

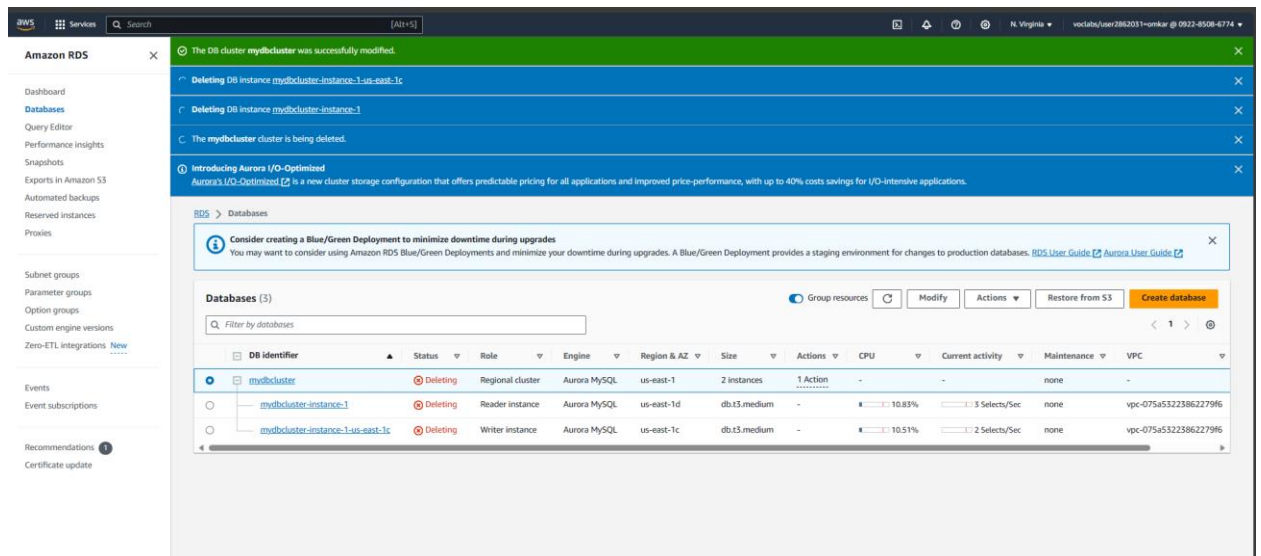
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

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

MySQL [(none)]> use university
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
MySQL [university]> create table course ( course_id int, course_code varchar(255), course_name varchar(255), teacher_id int );
ERROR 1050 (42S01): Table 'course' already exists
MySQL [university]> insert into course(course_id, course_code, course_name, teacher_id) values (2,"ASD","Advance System Design","Pese",2);
ERROR 1136 (21S01): Column count doesn't match value count at row 1
MySQL [university]> insert into course(course_id, course_code, course_name, teacher_id) values (2,"ASD","Advance System Design",2);
ERROR 1136 (21S01): Column count doesn't match value count at row 1
MySQL [university]> 
```

2. clean up the RDS and EC2 instances after taking screenshots.



Resources are cleaned.