

AWS Relational Database Services (RDS)

- RDS is Database as a service offered by AWS supporting following database engines
 - Microsoft SQL Server
 - mySQL
 - PostgreSQL
 - Oracle
 - IBM DB2

Free Tier 12 MONTHS FREE

Amazon RDS

750 Hours

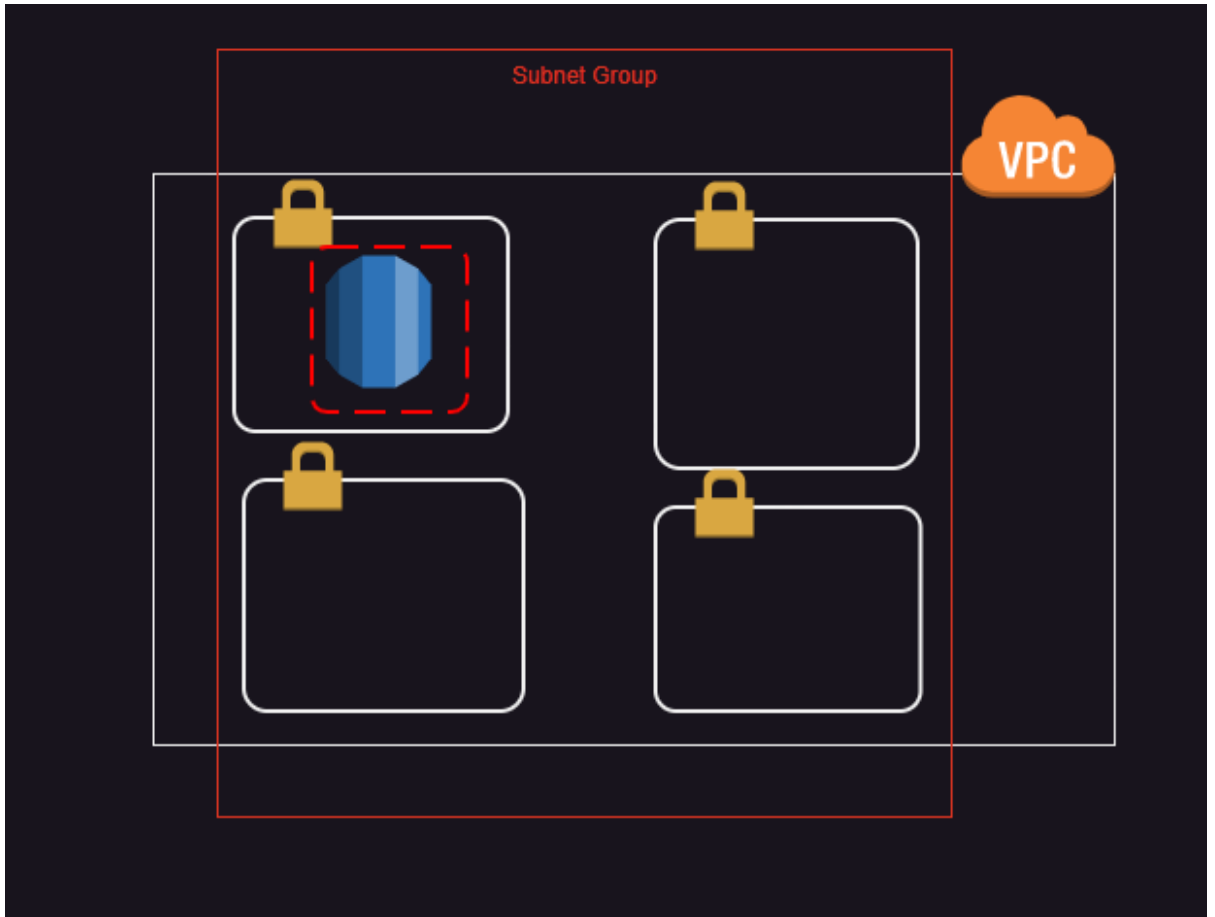
per month of database usage
(applicable DB engines)

Managed Relational Database
Service for MySQL,
PostgreSQL, MariaDB, or SQL
Server.

750 Hours of Amazon RDS Single-
AZ db.t2.micro, db.t3.micro, and
db.t4g.micro Instances usage
running MySQL, MariaDB,
PostgreSQL databases each month
(applicable DB engines)

- Free plan: (db.t2.micro/db.t3.micro)
- RDS instances require
 - vpc
 - subnet group

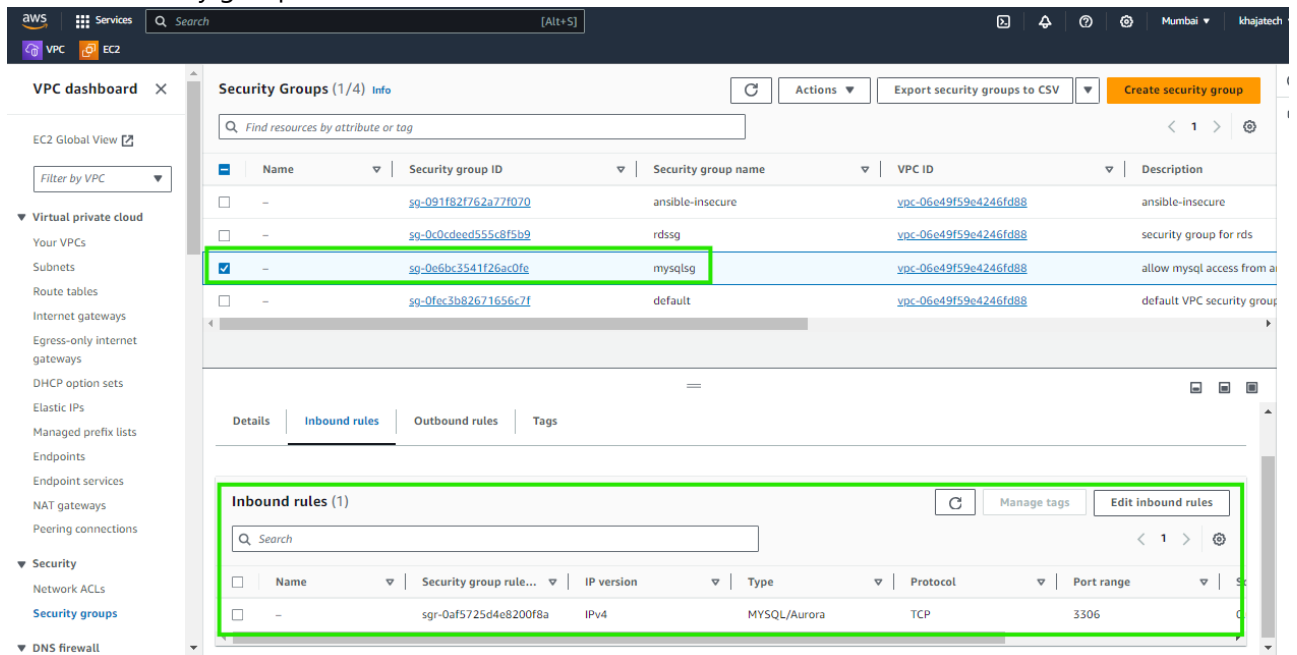
o security group



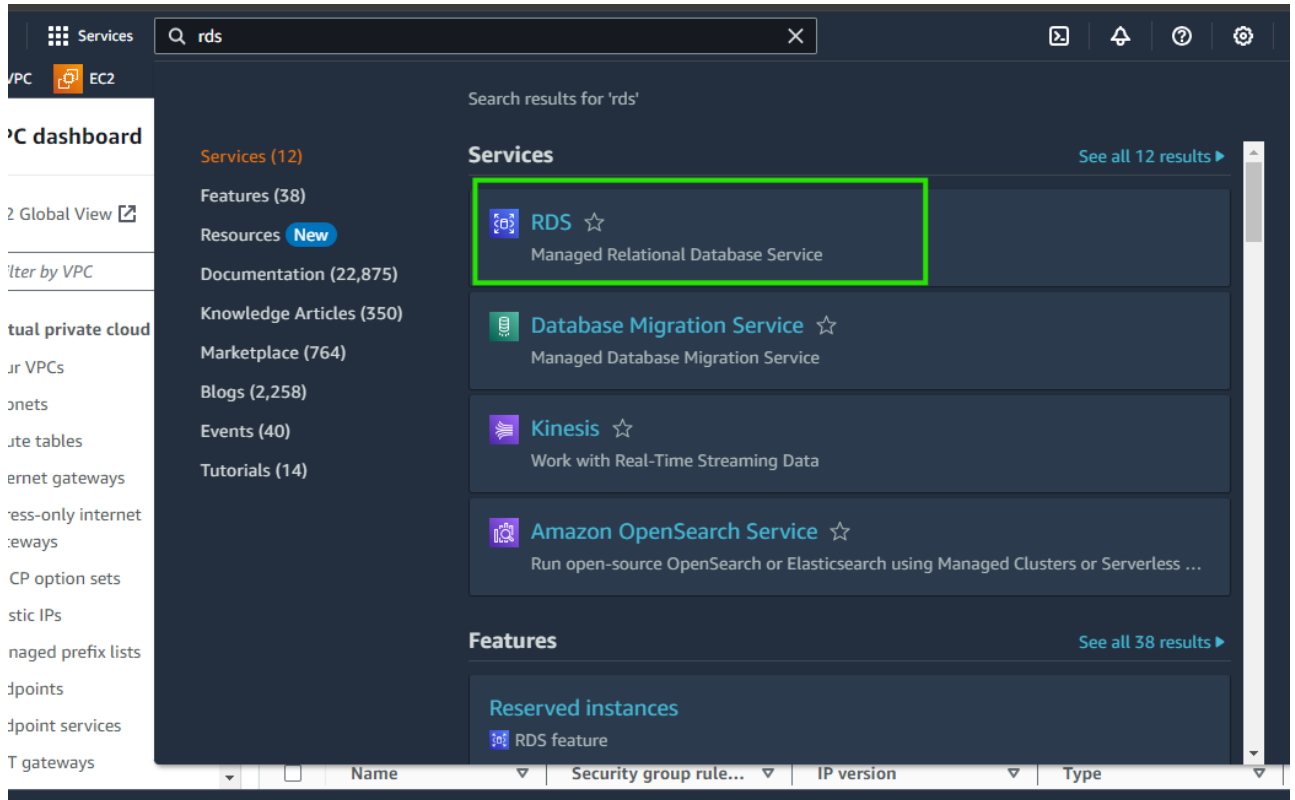
- RDS instances are sizes by db instance types

Create a free mysql database in mumbai region

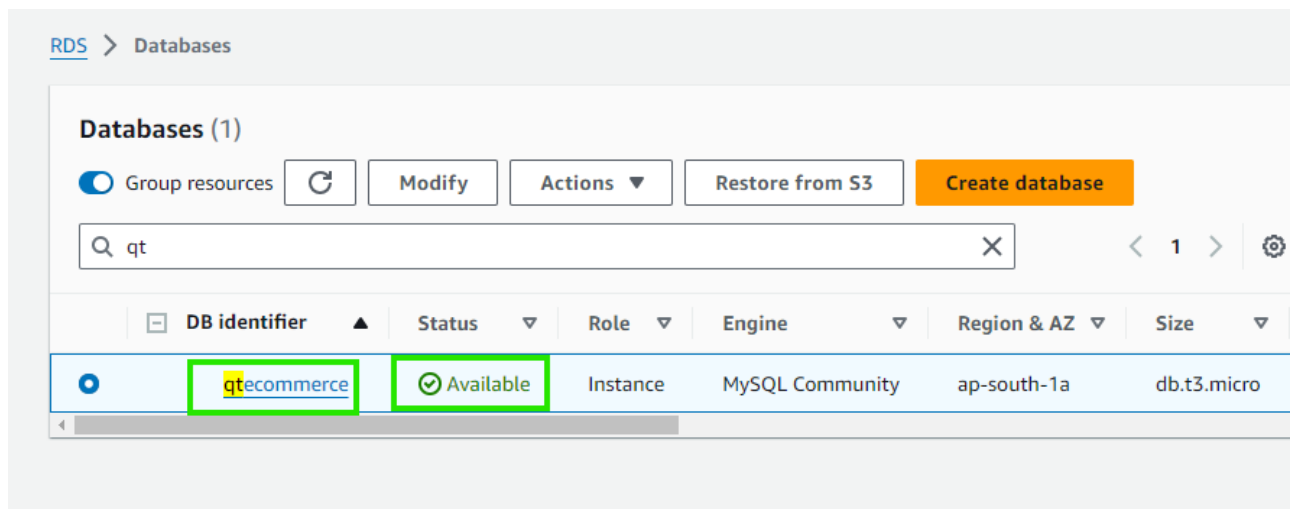
- Create a security group



- Navigate to RDS



- For screenshots refer classroom video



- As discussed we can use mysql client or azure data studio

- [Refer Here](#) for creating a table and inserting data.

```
+-----+
| Tables_in_authors |
+-----+
| authors           |
+-----+
1 row in set (0.02 sec)

mysql> INSERT INTO authors (id,name,email) VALUES(1,"Vivek","xuz@abc.com");
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO authors (id,name,email) VALUES(2,"Priya","p@gmail.com");
Query OK, 1 row affected (0.03 sec)

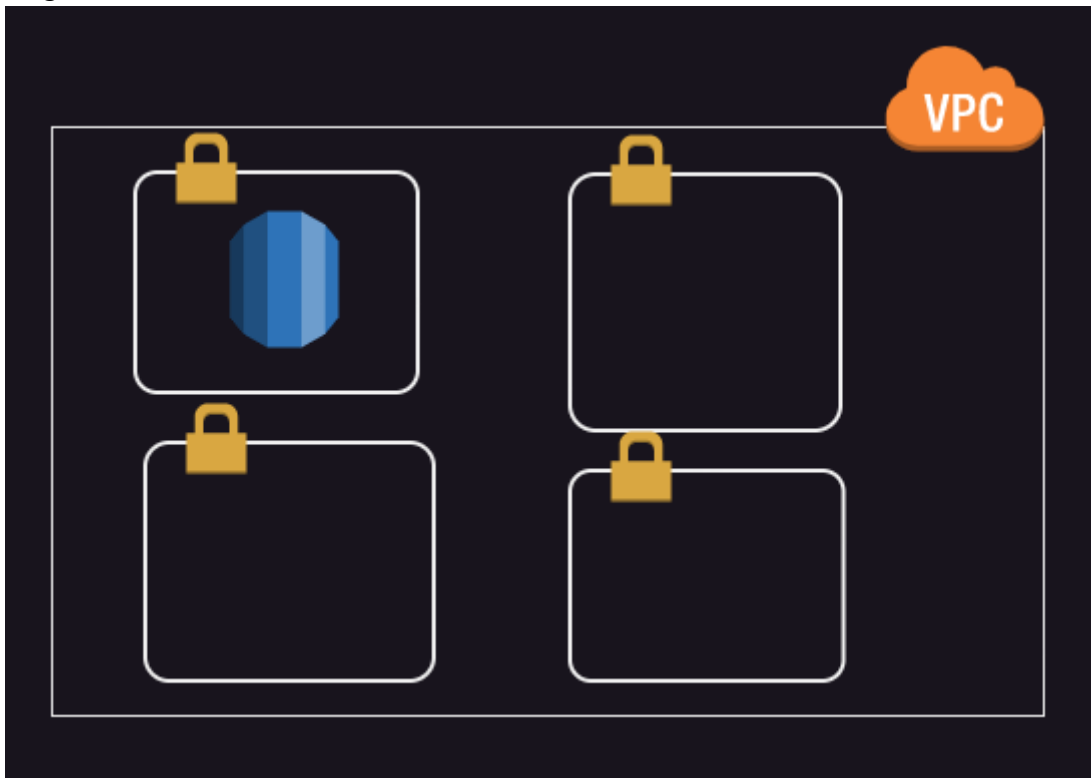
mysql> INSERT INTO authors (id,name,email) VALUES(3,"Tom","tom@yahoo.com");
Query OK, 1 row affected (0.02 sec)

mysql> SELECT * FROM authors;
+-----+-----+-----+
| id  | name  | email      |
+-----+-----+-----+
| 1   | Vivek | xuz@abc.com |
| 2   | Priya | p@gmail.com |
| 3   | Tom   | tom@yahoo.com |
+-----+-----+-----+
3 rows in set (0.03 sec)

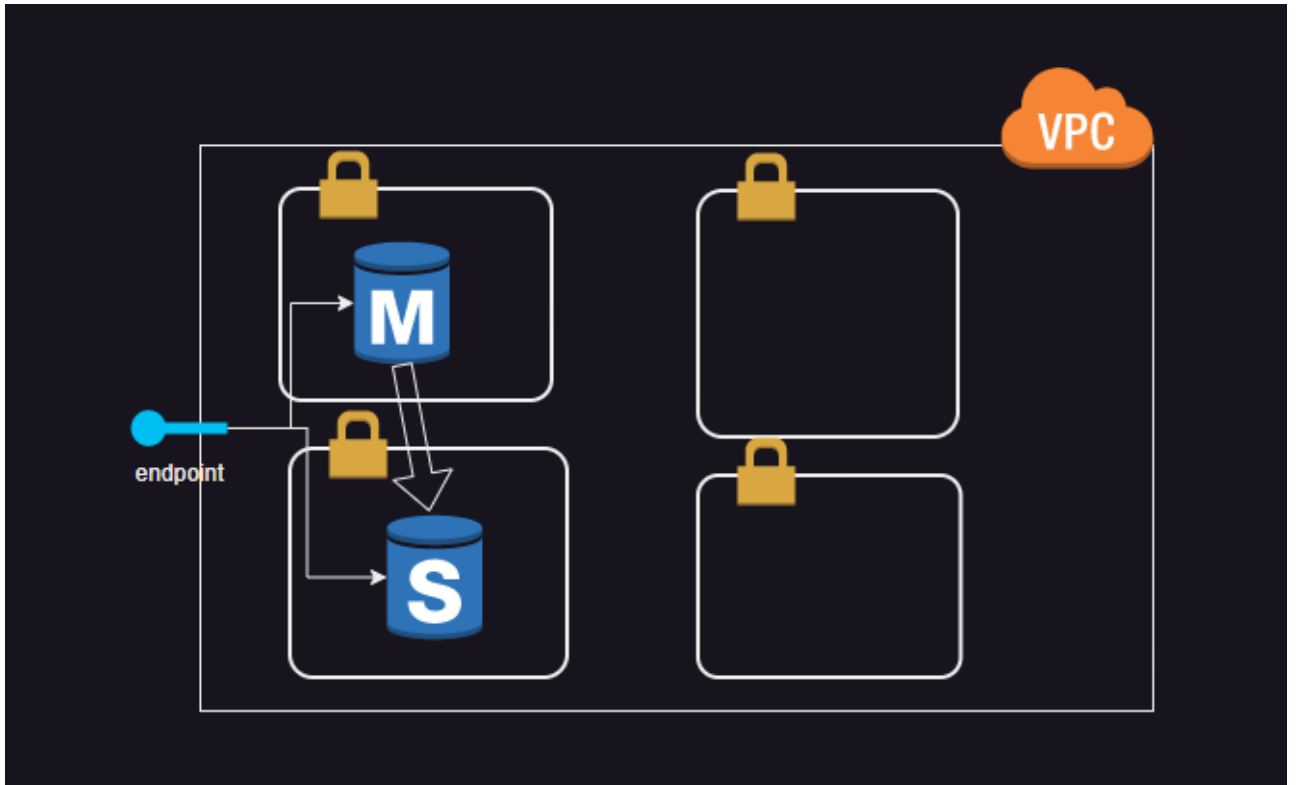
mysql>
```

AWS Database Deployment Options

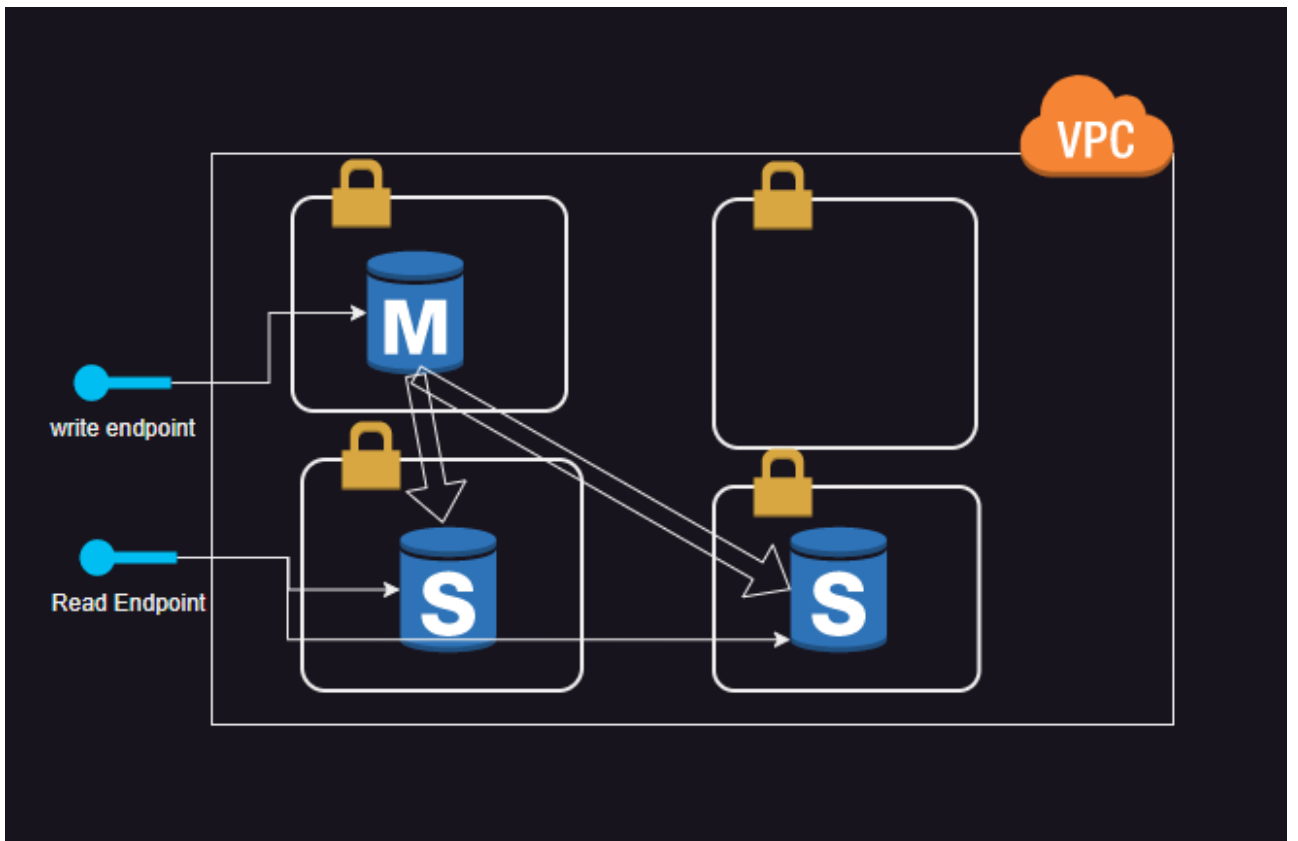
- Single Database



- Multi AZ Database



- Multi Cluster Database



AWS Database Instance Sizes

- By Purpose
 - Standard
 - Memory Optimized
 - Compute Optimized

- Burstable
- Size [Refer Here](#)

Backups

- Manual Backups can be taken to create snapshots
- Automated Backups can be enabled.
 - PITR (Point in time restore)