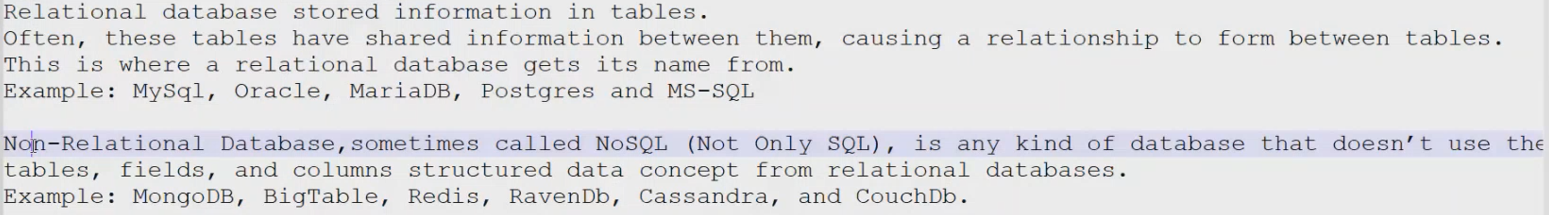
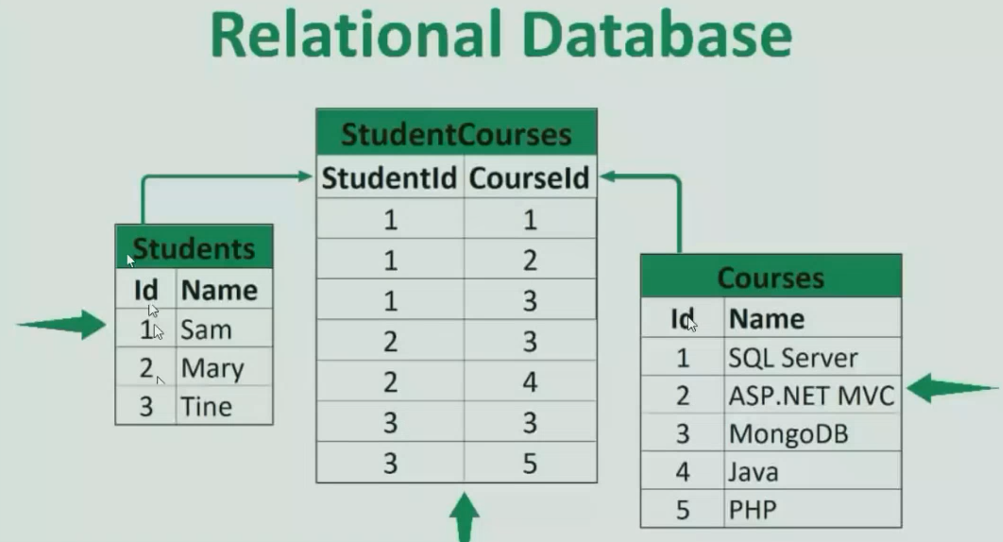
**Relational database services**

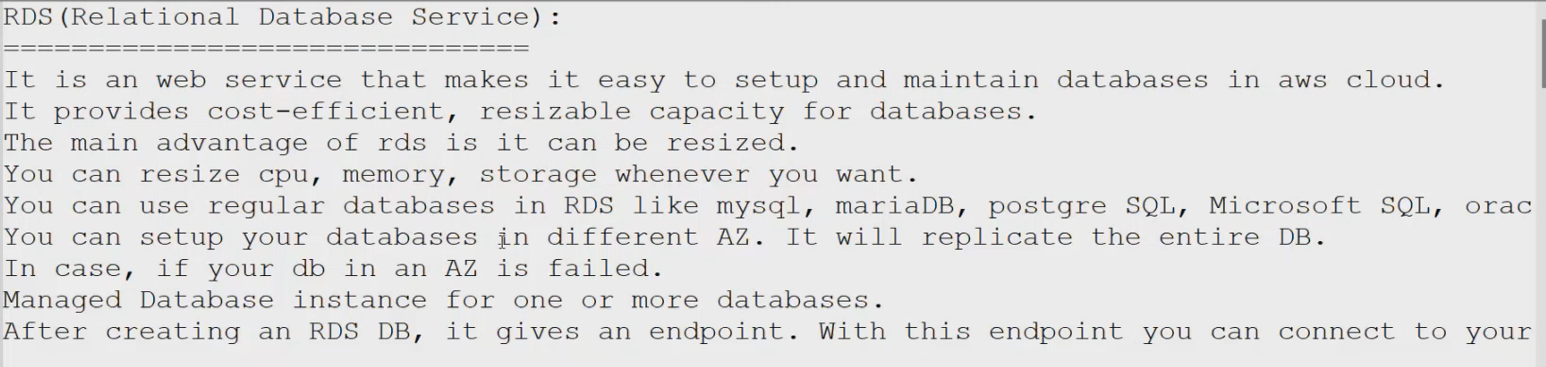
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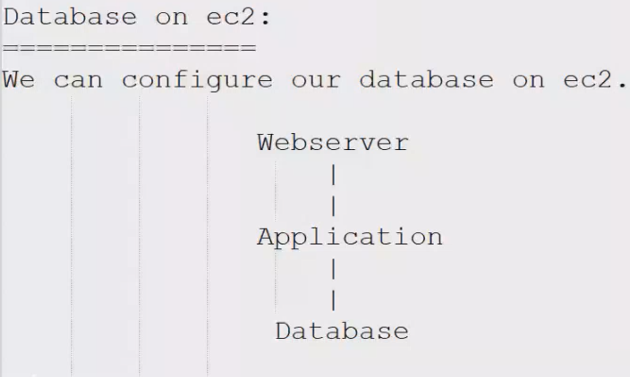
**Types of Databases and examples:**

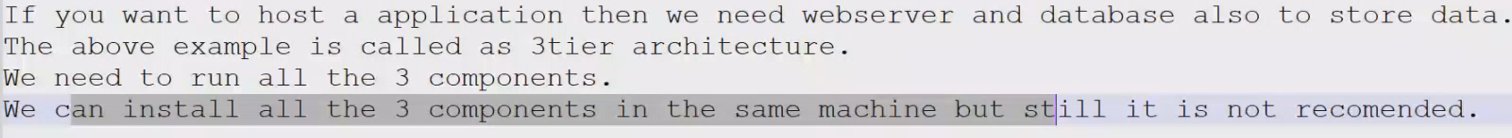
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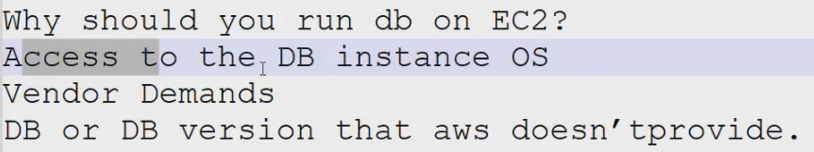
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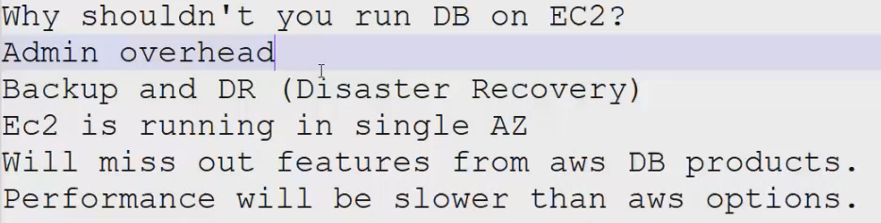
**“AWS SUPPORTS RELATIONAL DATABASE”**

****

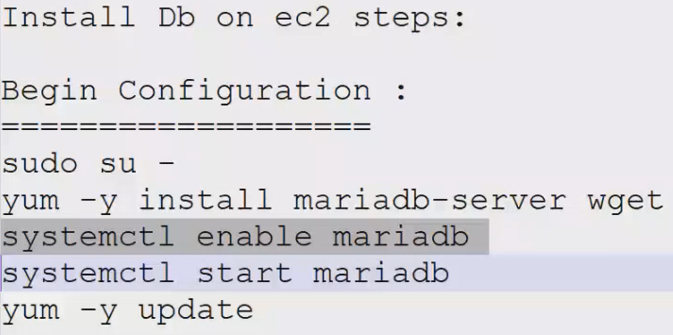
****

****

****

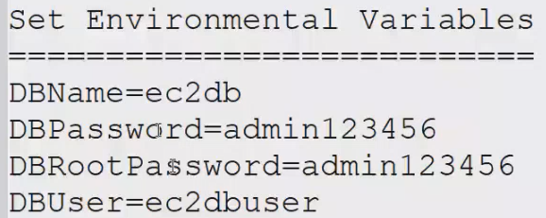
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**INSTALATION PROCESS :**

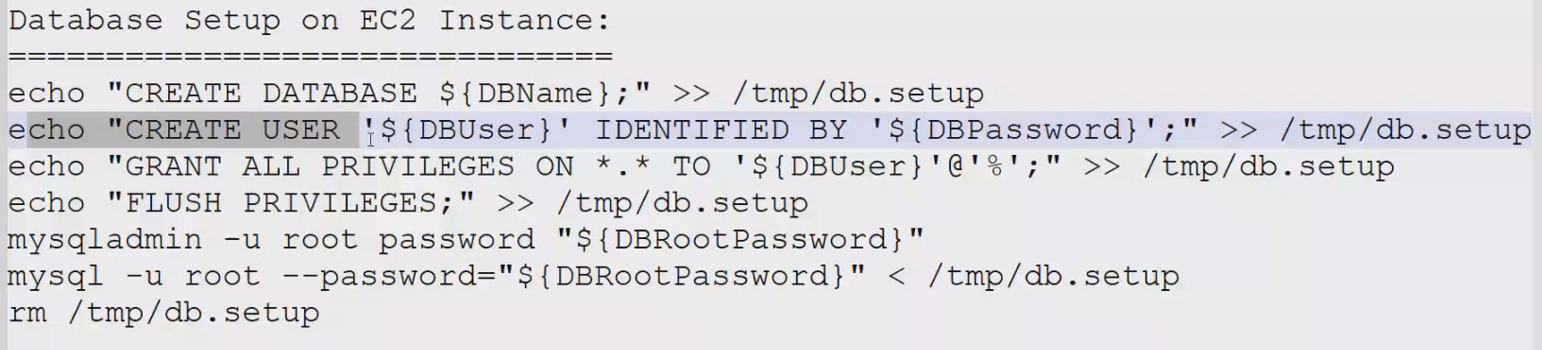
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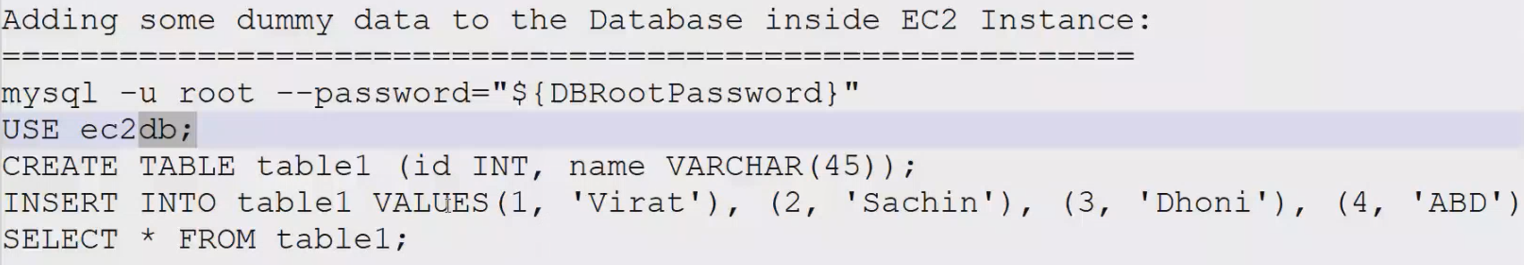
**AFTER INSTALLING WE CAN ONLY CHECK BY PORT NO.3306/TCP**

**“SQL : STRUCTURAL QUERY LANGAUAGE”**

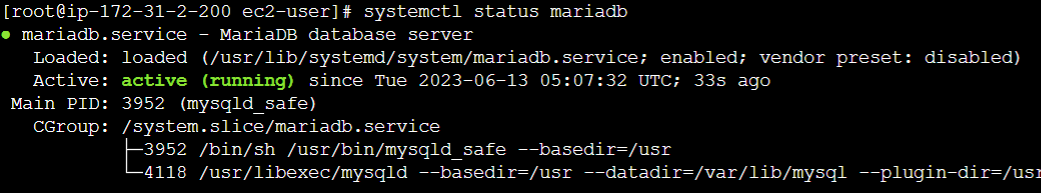
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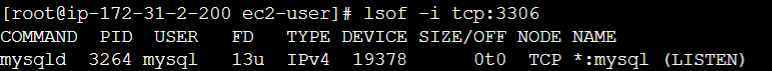
**“THESE ARE TEMPORARY STORAGE IF WE RESTART THE PROCESS THE STORAGE OF ENV WILL BE GONE”**

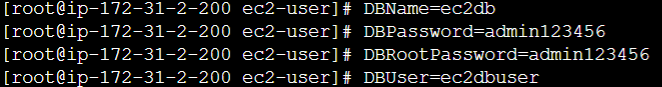
****

****

**1.** **Creating Maria-db database on ec2;**

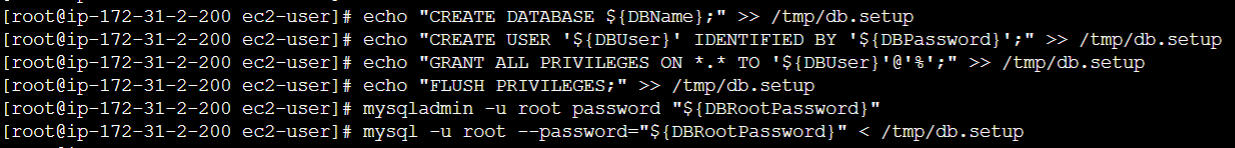
****

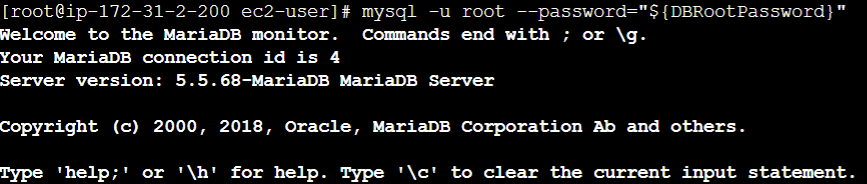
**SQL run on “3306” port only;  
**

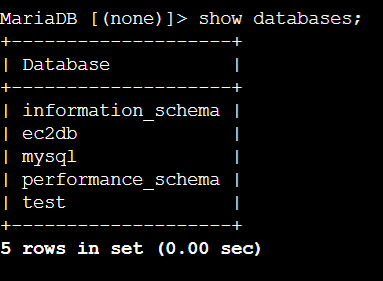
**After that we have to give some Env. Variable;  
**

**“This are only temporary variables”**

**Database Setup on EC2 Instance:**

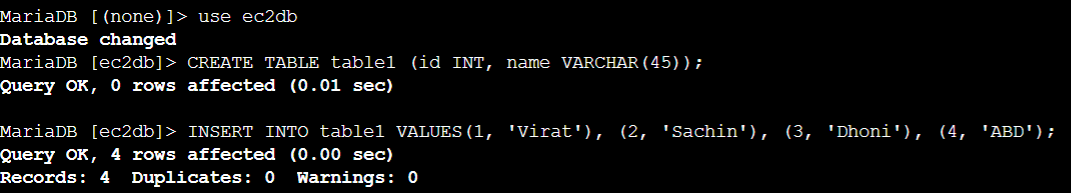
****

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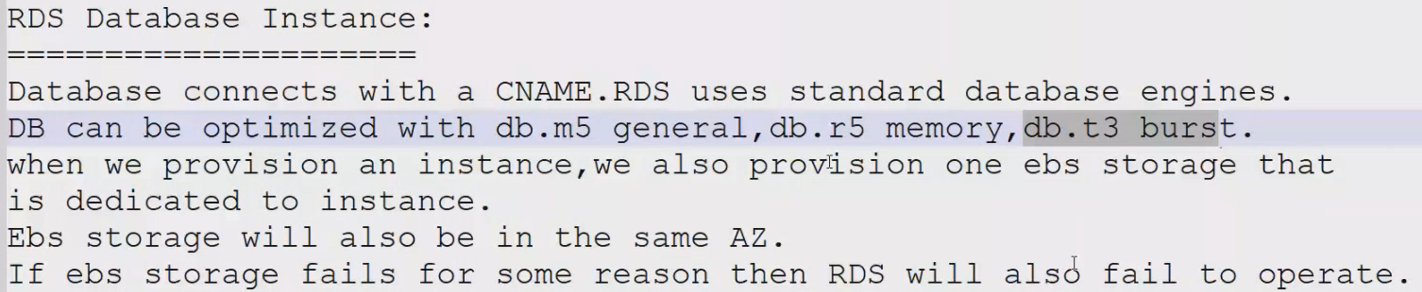
**2. Adding some dummy data to the Database inside EC2 Instance:**

**Use ec2db and creating table1 and inserting some values;**

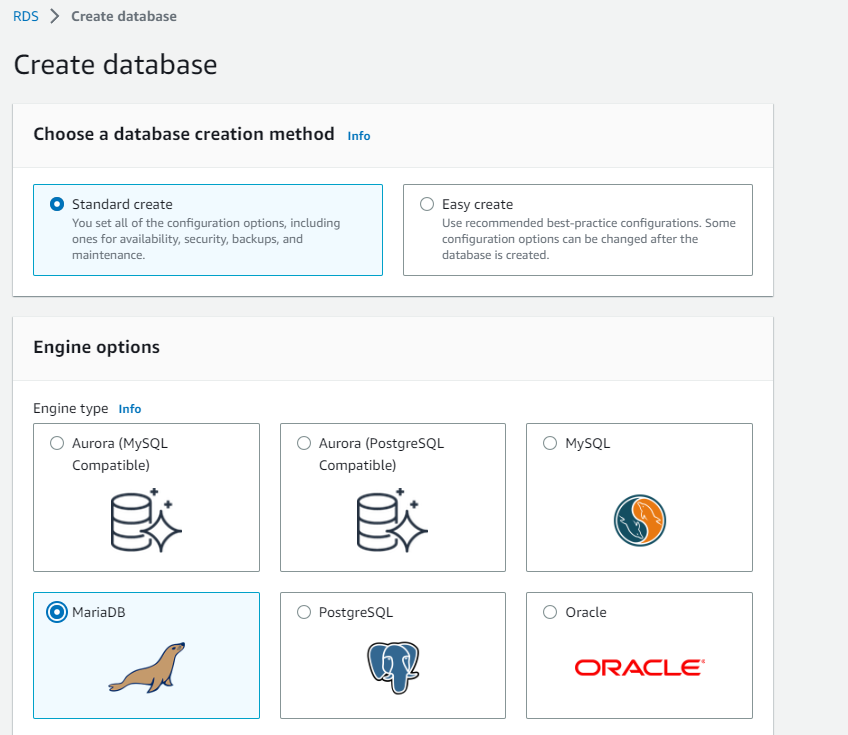
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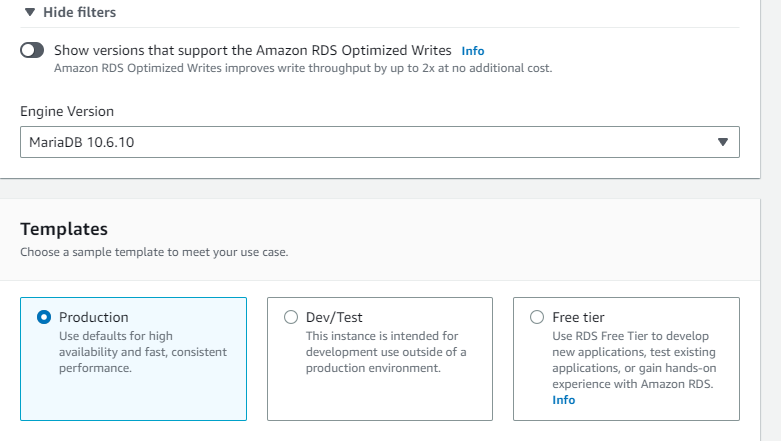
**To see the table1 content we are using “SELECT \* FROM table1;”**

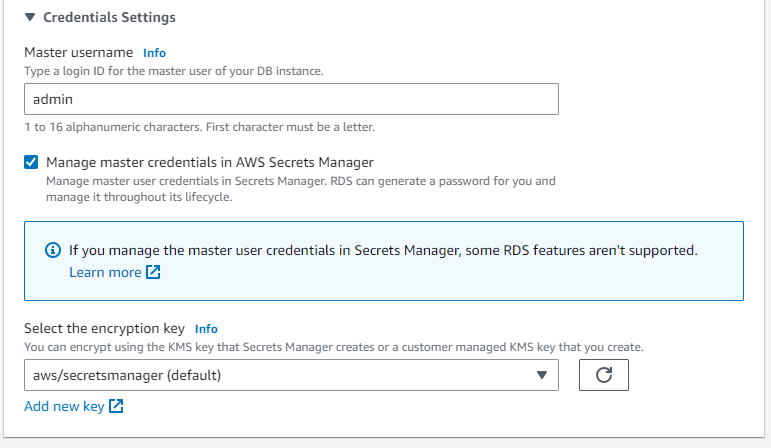
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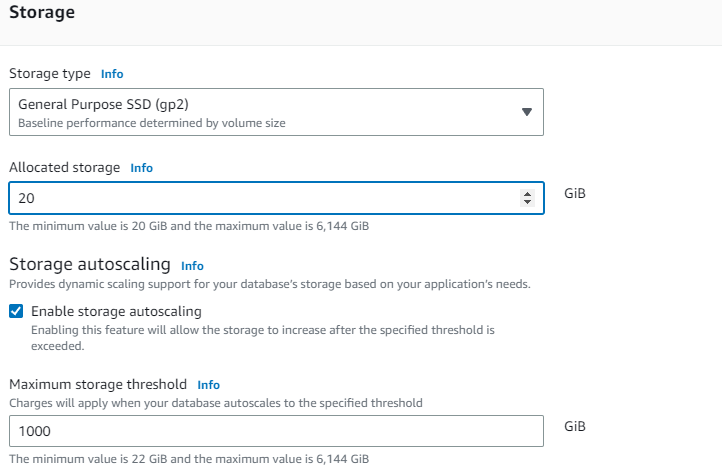
****

**Creating Database on RDS Instances;**

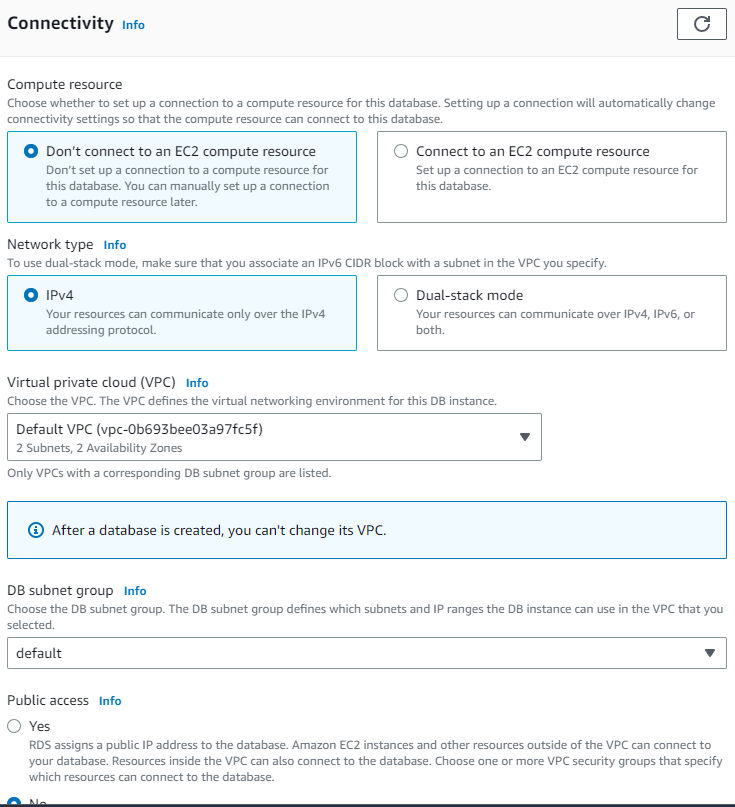
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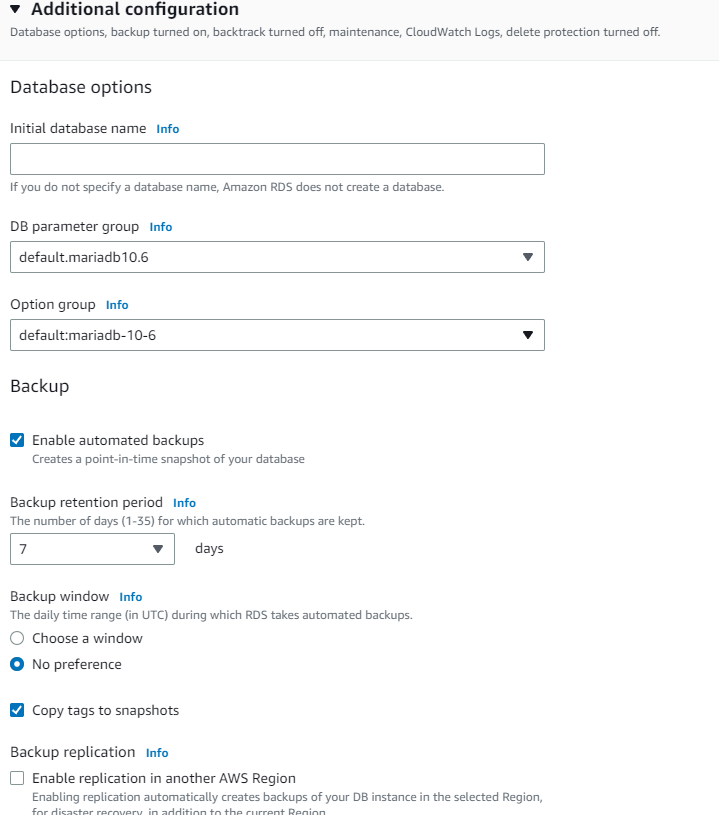
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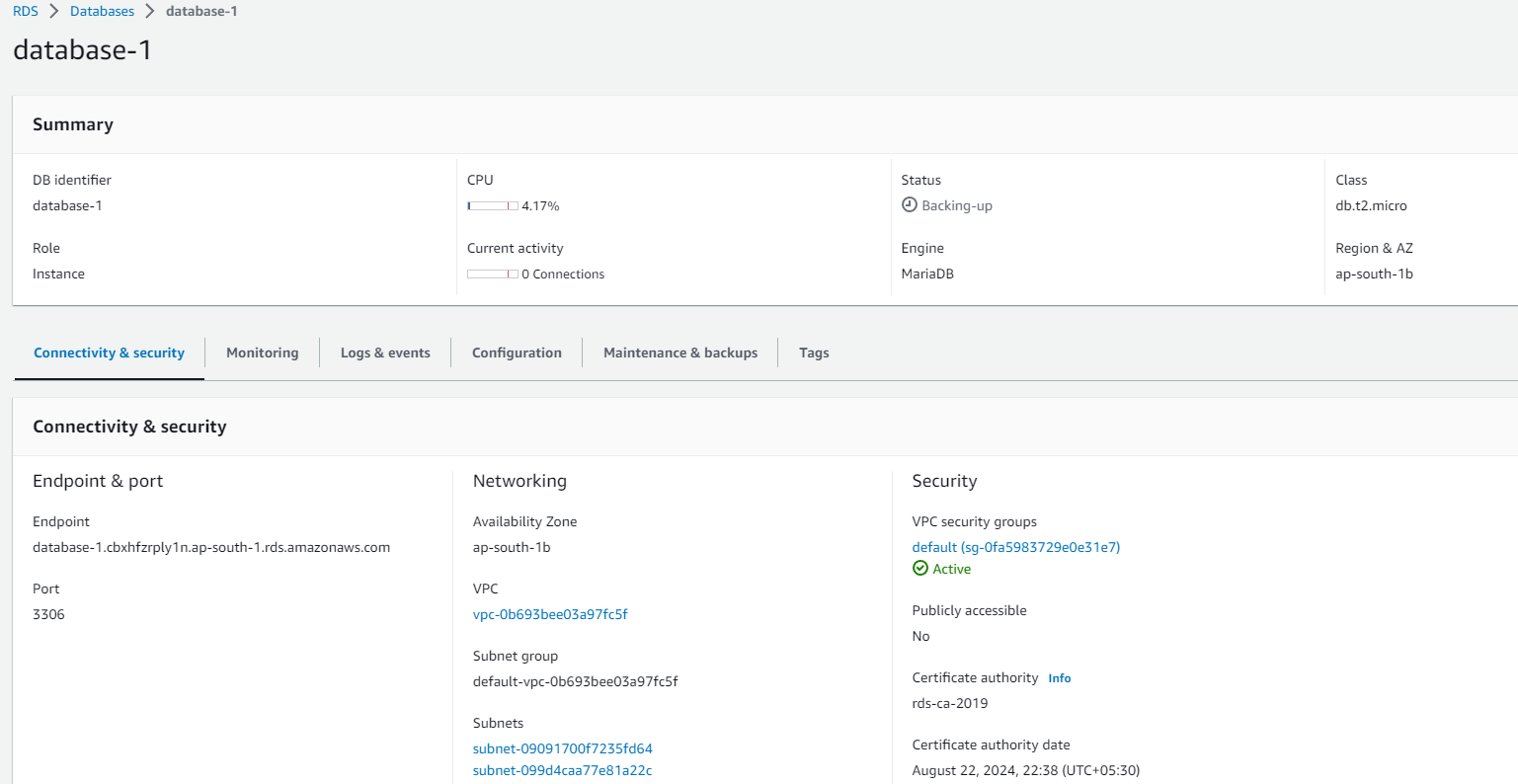
****

**On Connectivity we have to connect our resources with ec-2**

****

****

**3. launch Mariadb RDS instance.**

****

**4. Migrate database from ec2 to RDS.**

* **Get the dump of your existing DB on EC2**

**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**

* **Connect to your RDS DB instance**

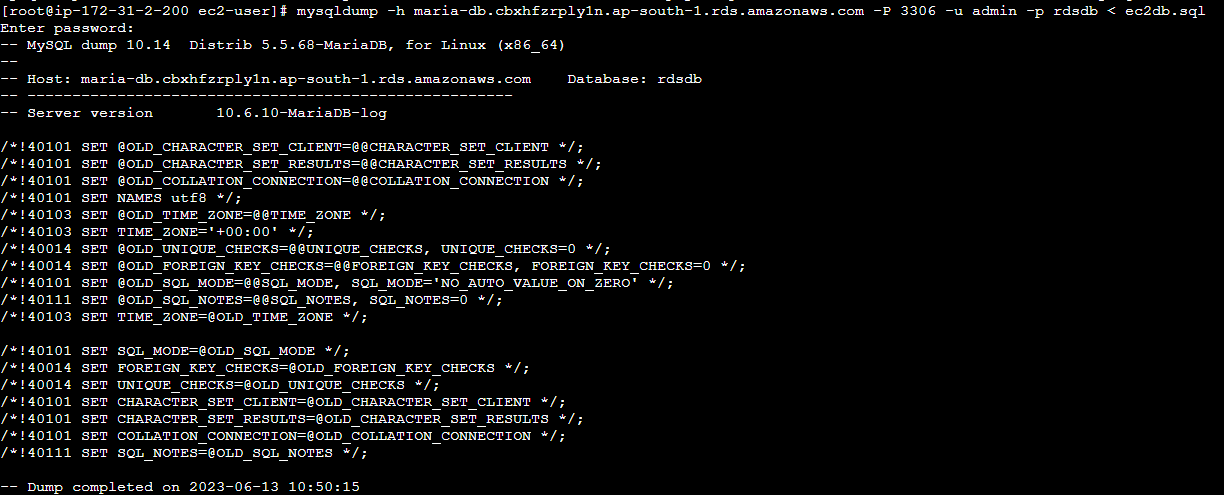
**mysql -h <replace-rds-end-point-here> -P 3306 -u rdsuser –p**

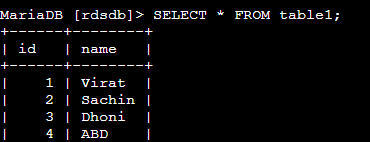
* **Switch to the database and verify the details.**

**USE rdsdb**

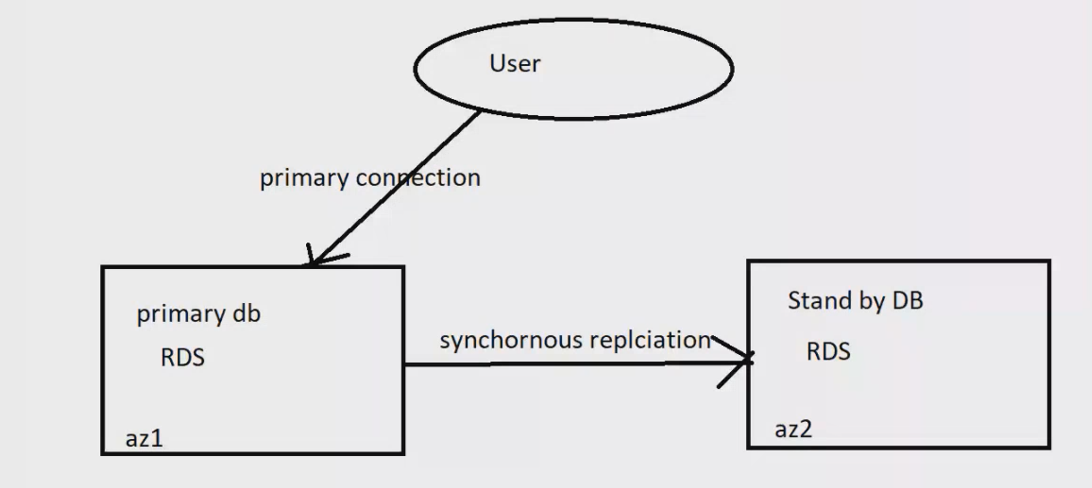
**SELECT \* FROM table1;**

**DUMPING/BACKUP OF EXISTING DB ON EC2;**

****

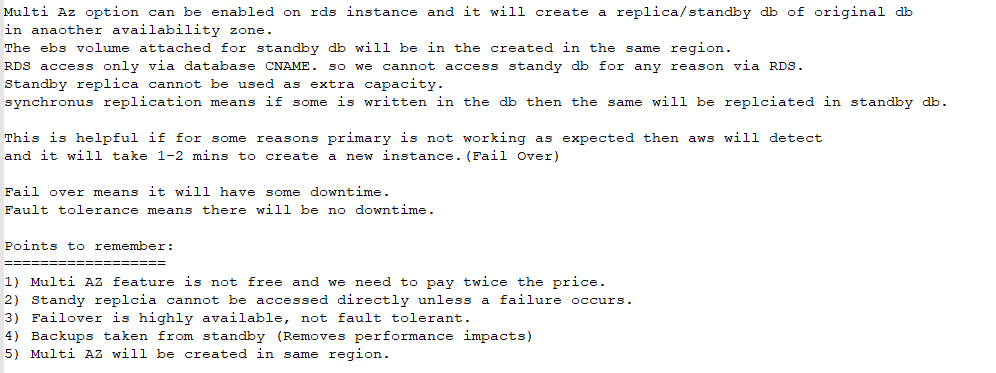
****

**5. Configuring multi AZ :**

****

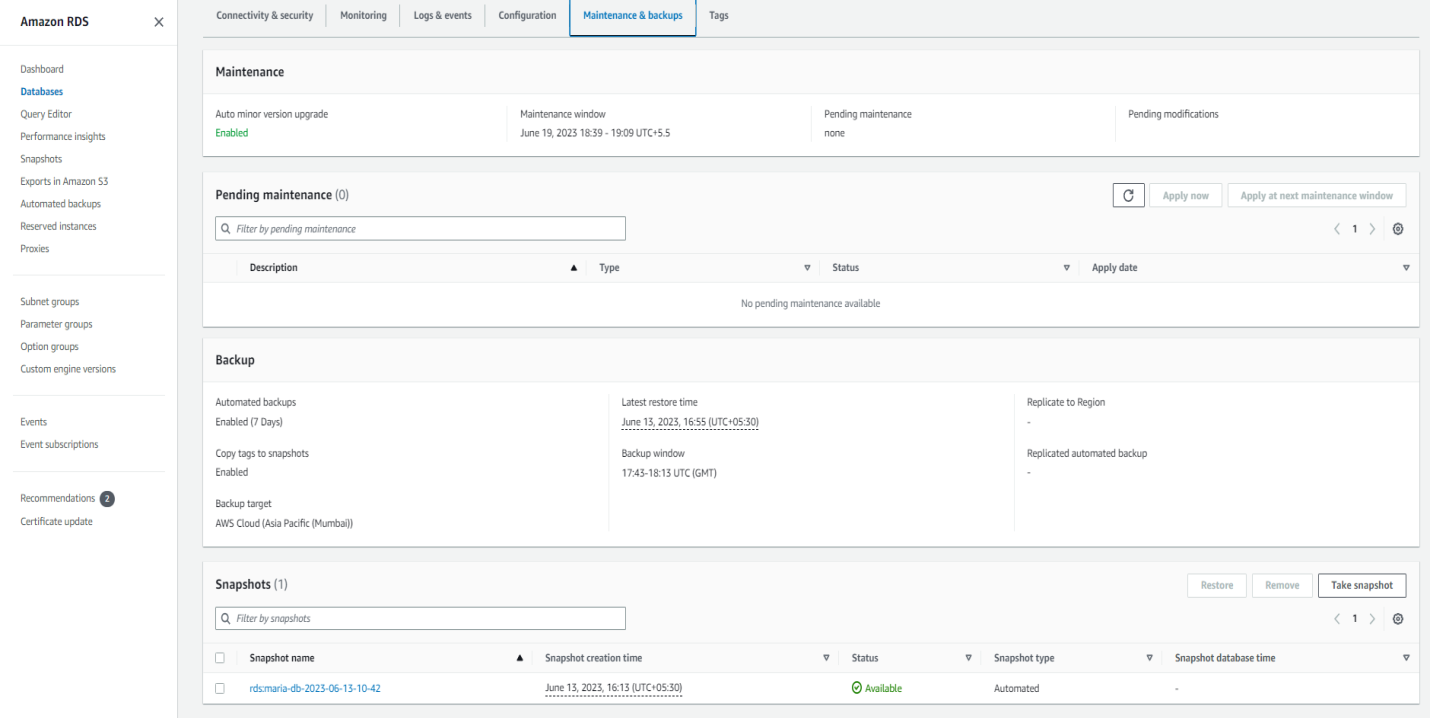
**“It is managed by AWS only”**

**EXPLANATION:**

****

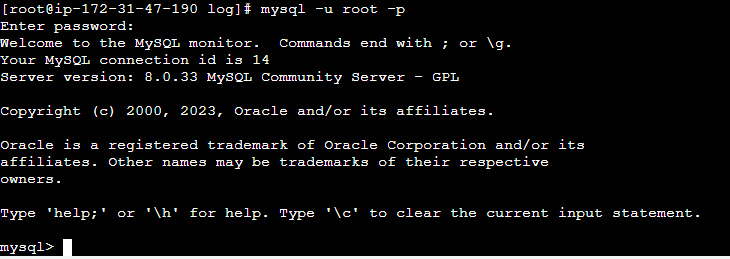
**CREATION:**

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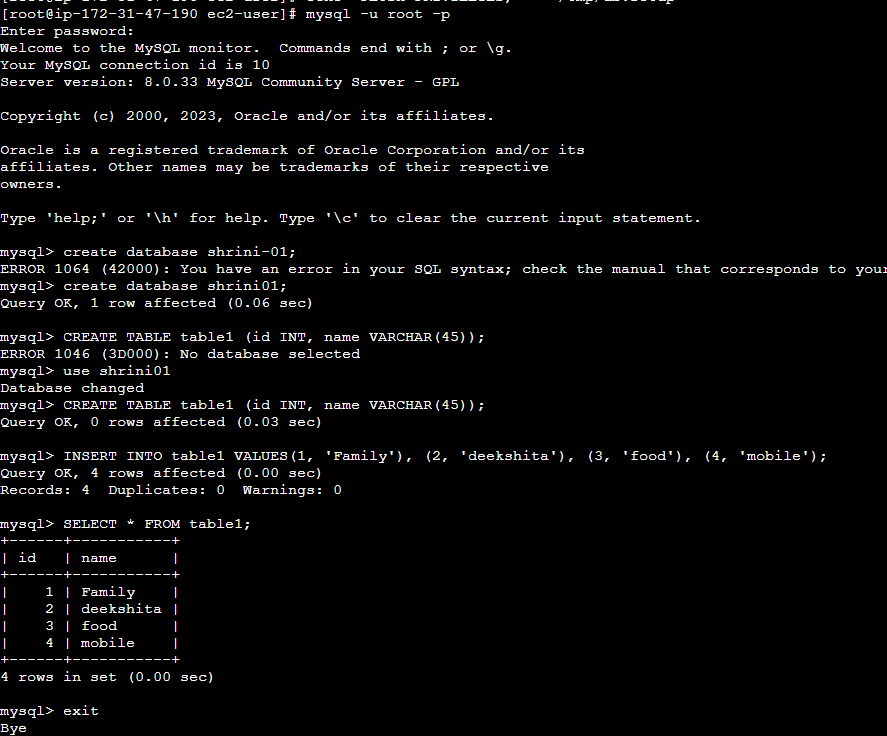
****

**6. Installing MYSQL db on ec2;**

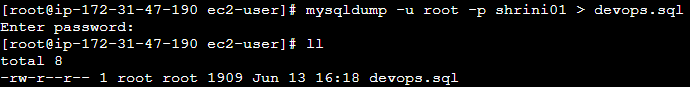
**Follow the doc for installing mysql in aws ec-2;**[**https://tecadmin.net/how-to-install-mysql-8-on-amazon-linux-2/**](https://tecadmin.net/how-to-install-mysql-8-on-amazon-linux-2/)

****

**Inserted some dummy data in mysql ec2/ and taking backup;**

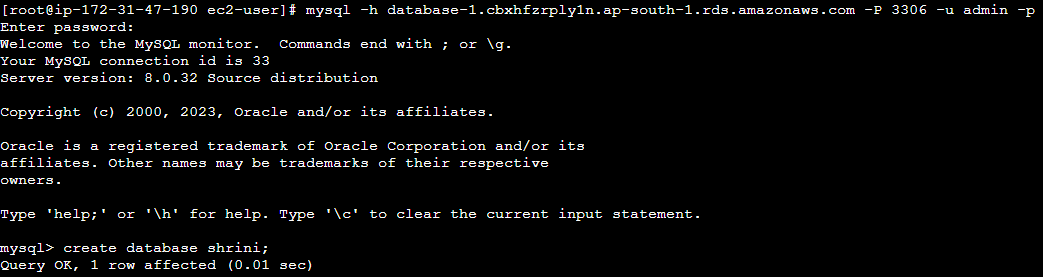
****

**Now taking backup of above ec-2 db named “shrini01” with SQL file;**

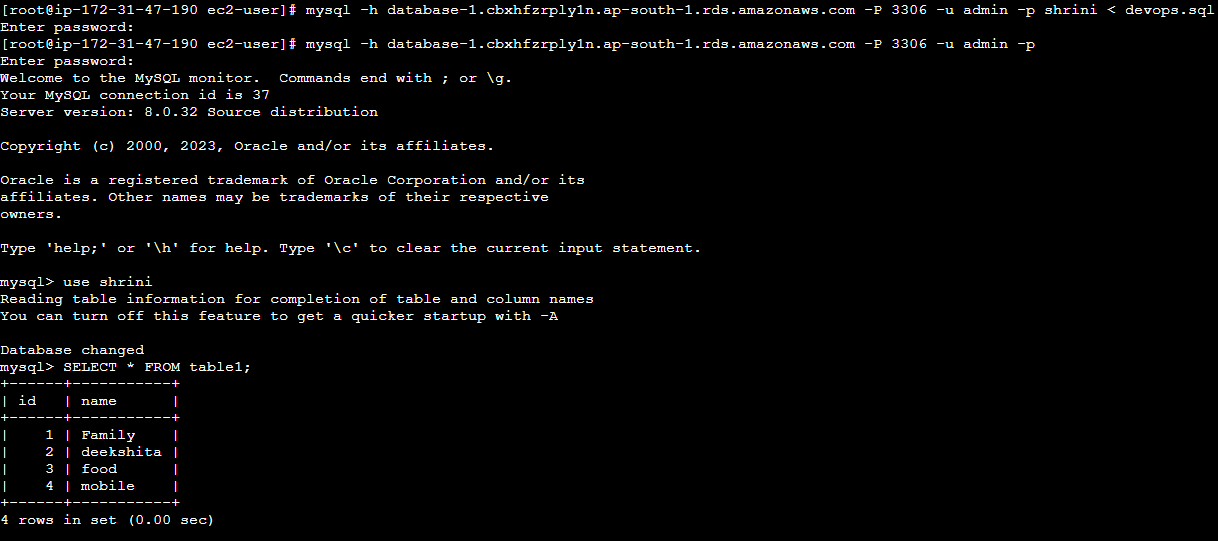
****

**Password will be given on MYSQL installation will be used here**

**Now, we moved the backup file of ec2-db named “devops.sql” but we have to create a DB inside the RDS-DB named “shrini”;**

****

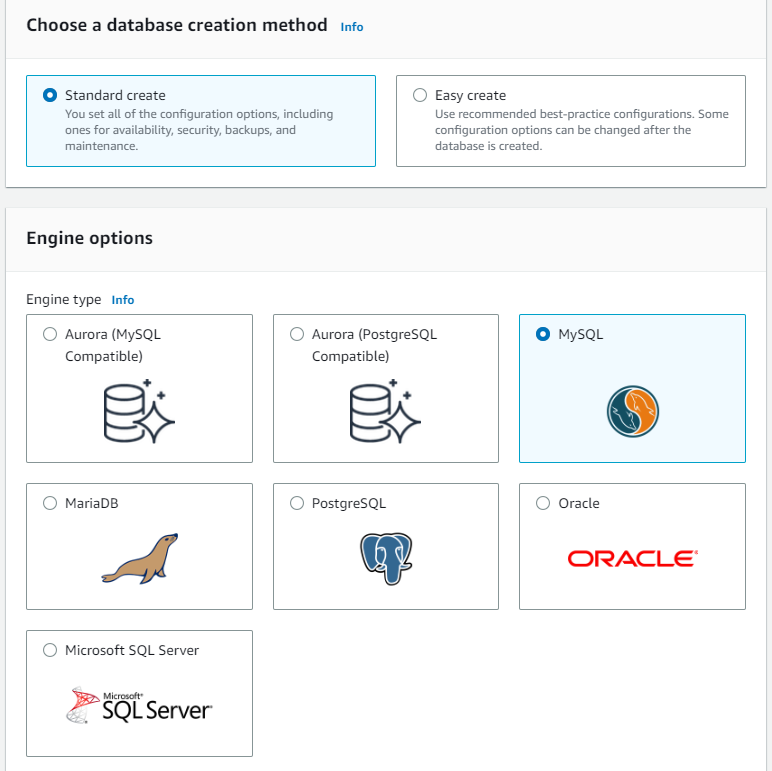
**So DB is created and we have to backup the ec2-DB(shrini01) to RDS-DB(shrini)**

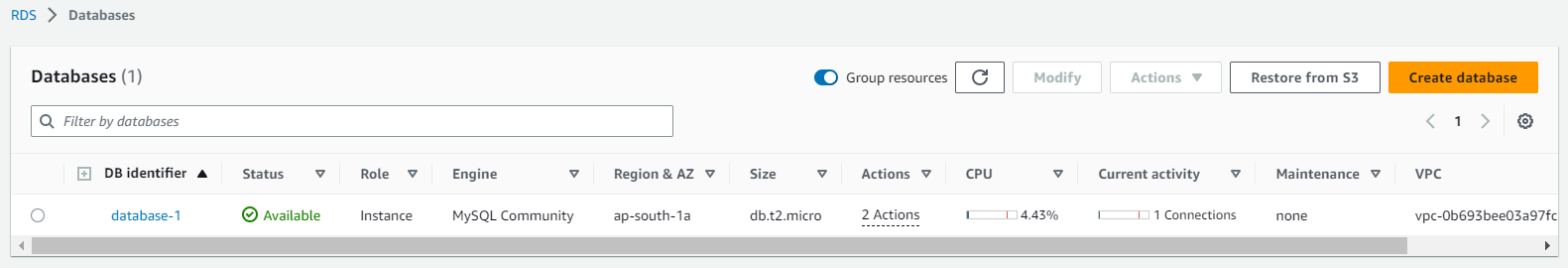
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**“Above pic we can see our ec2-db content has been backup in RDS-DB”**

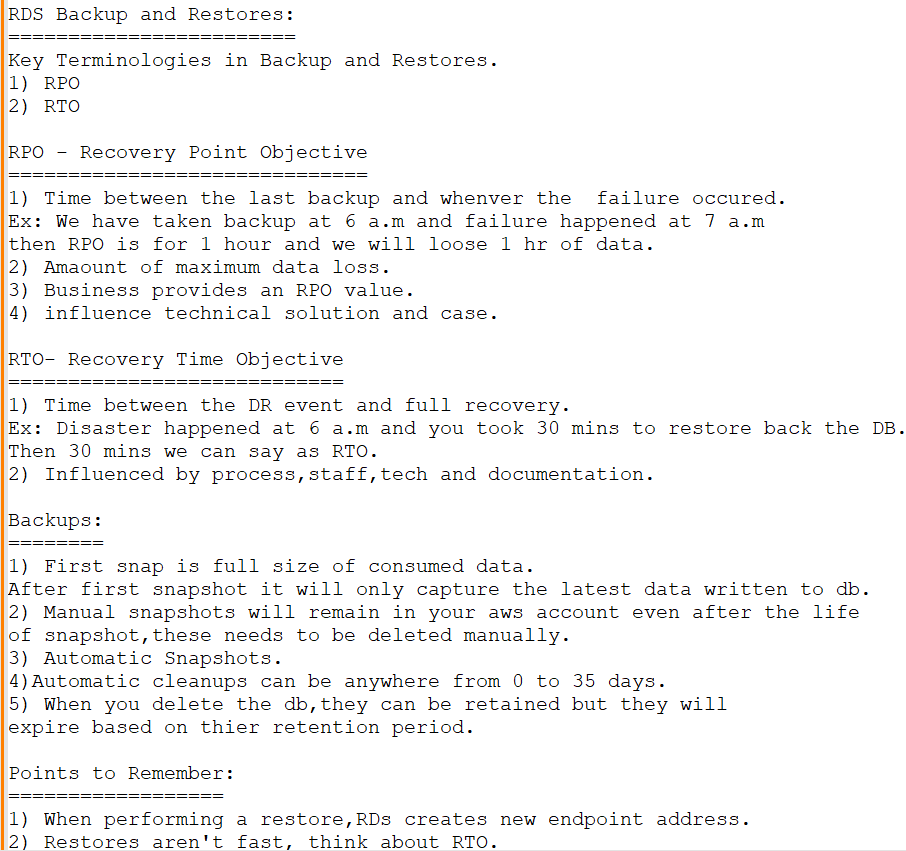
**7. Launching mysql RDS image;**

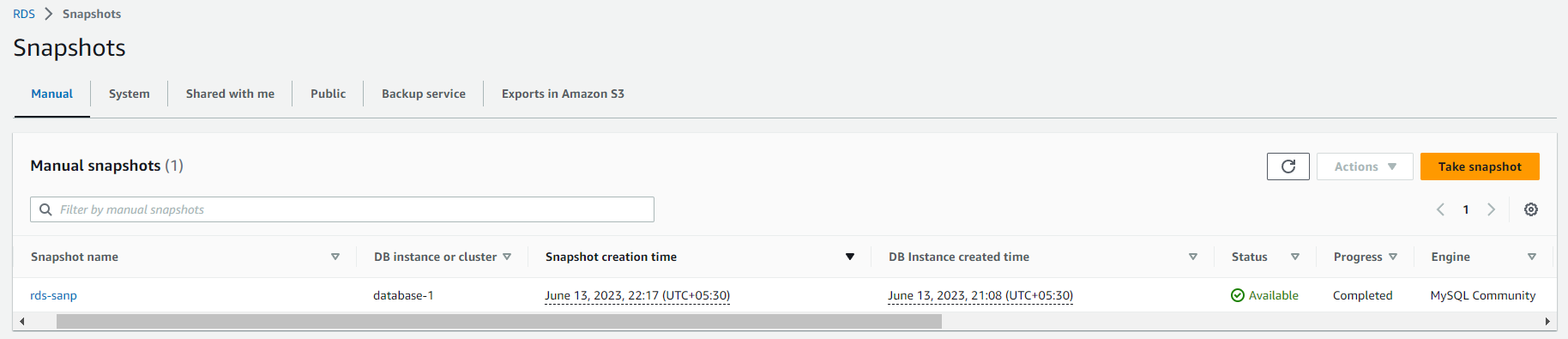
**We have to follow all the above steps for mentioning in mariaDB RDS just only we have to take the image of MYSQL;**

****

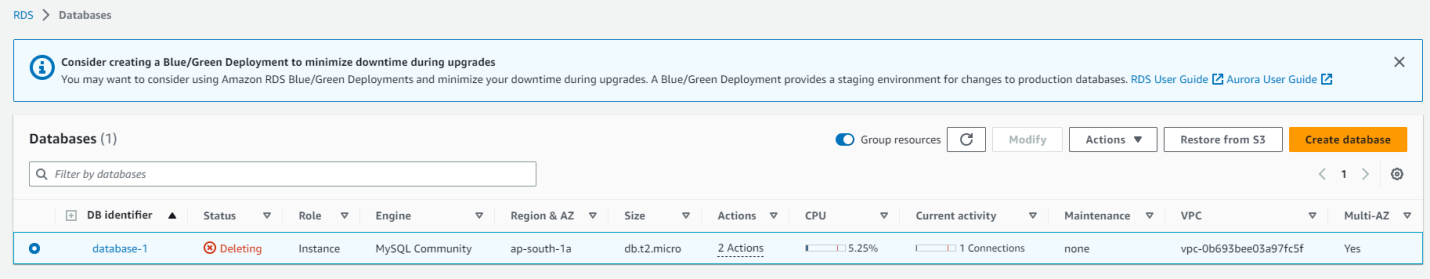
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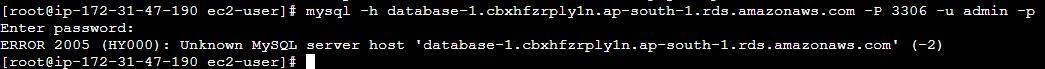
**8. Taking Backup of db via Snapshot;**

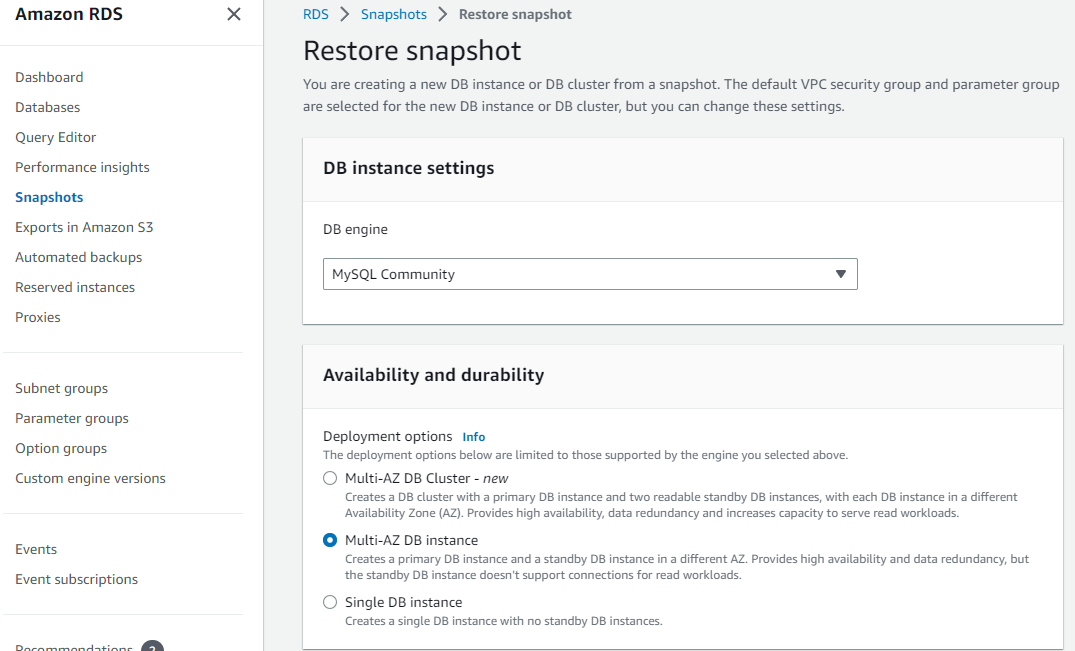
****

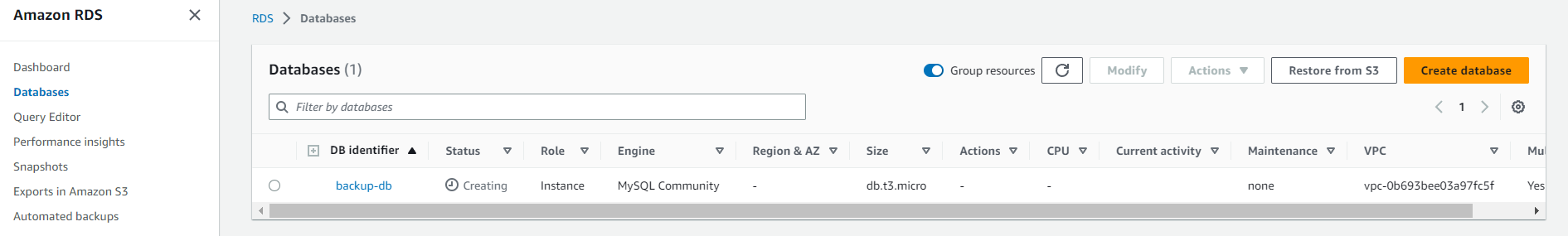
****

**And Now, we will restore the db after deleting the RDS-DB;**

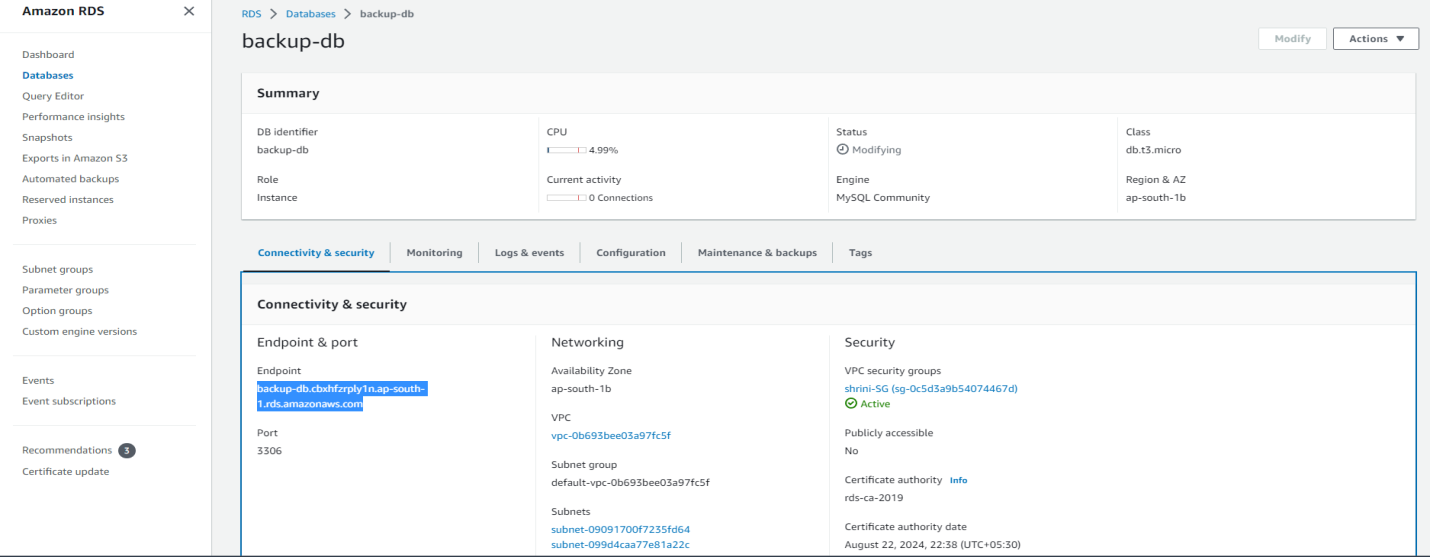
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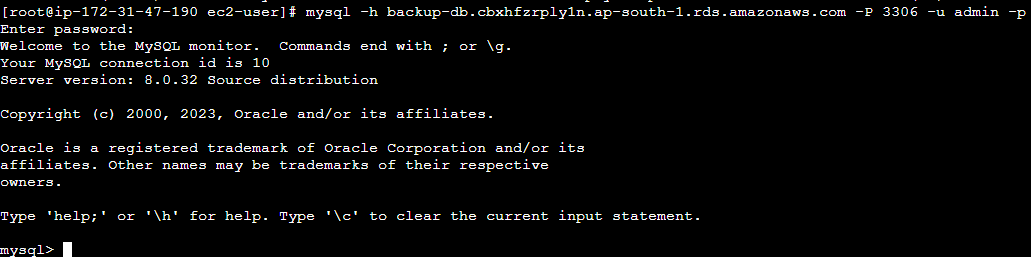
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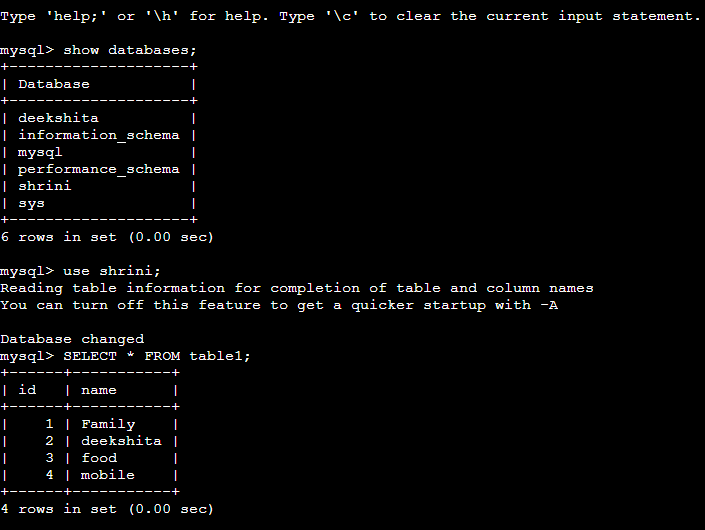
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**Now, we have to take our new endpoint and try to connect with ec2;**

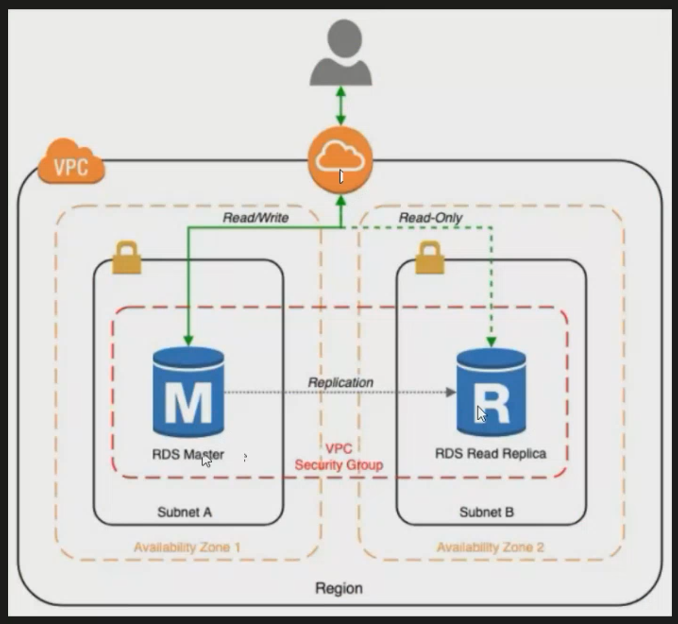
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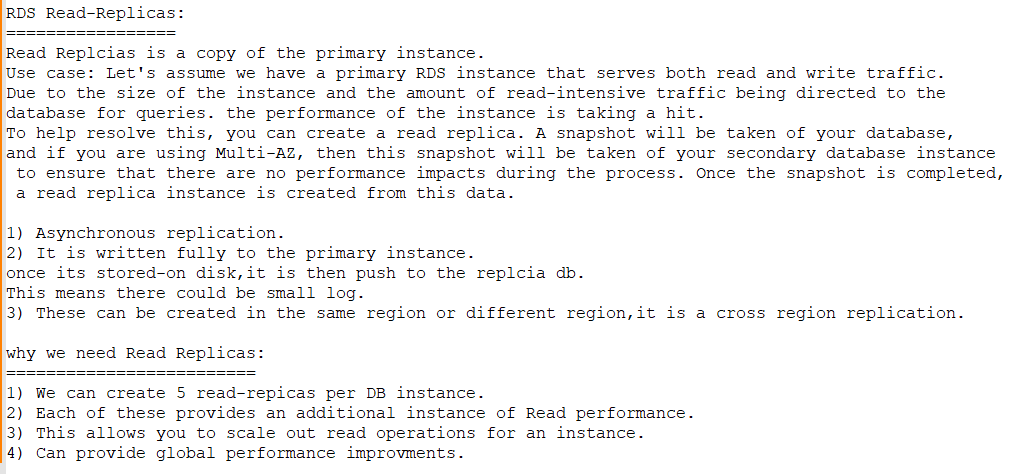
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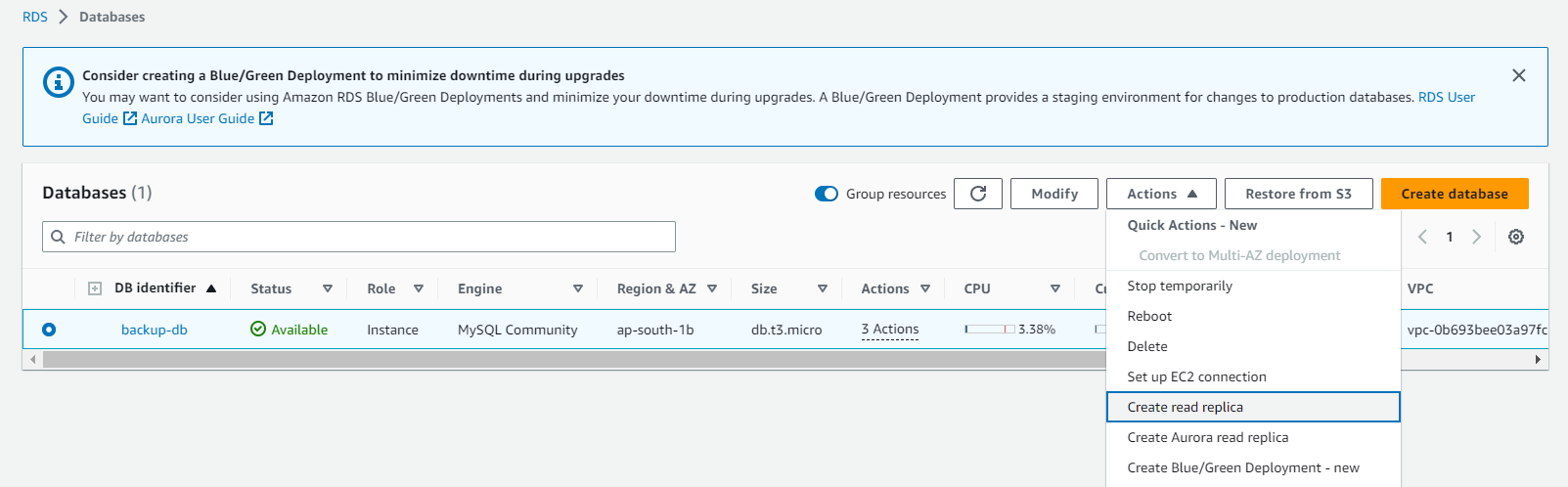
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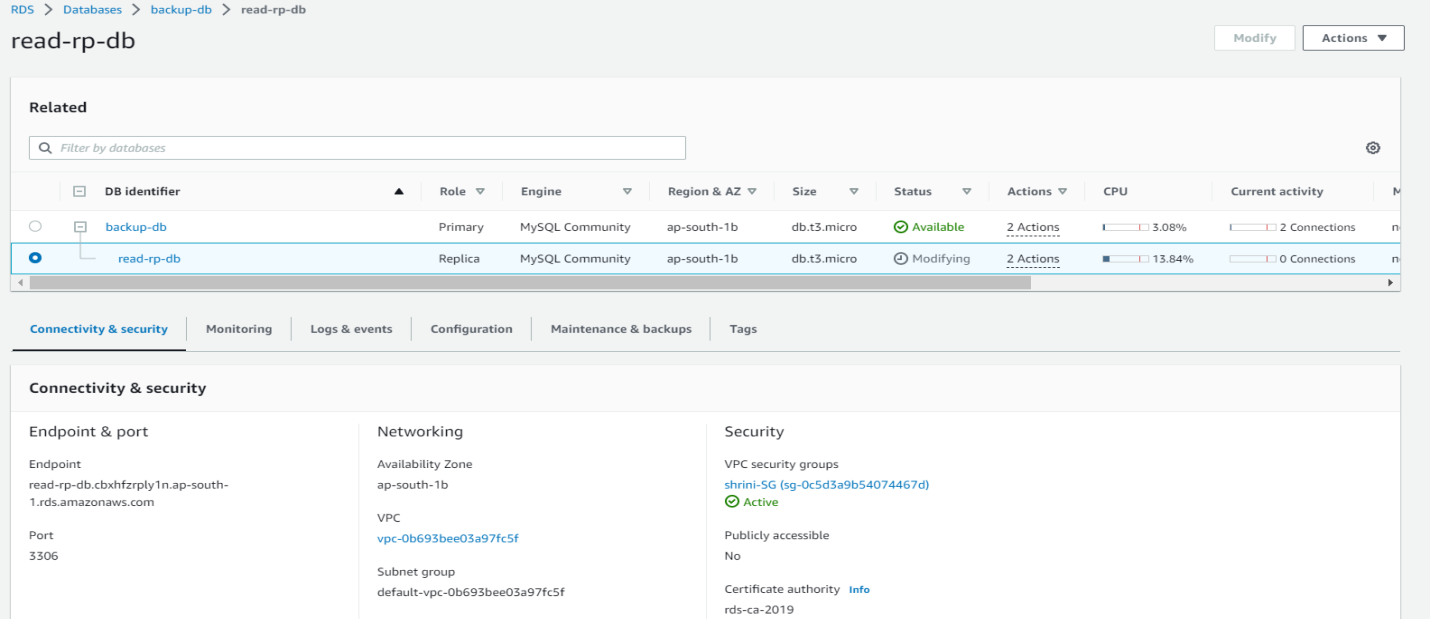
**“By restoring the db we are getting our databases with the help of snapshot”**

**9. Creating Read-Replica;**

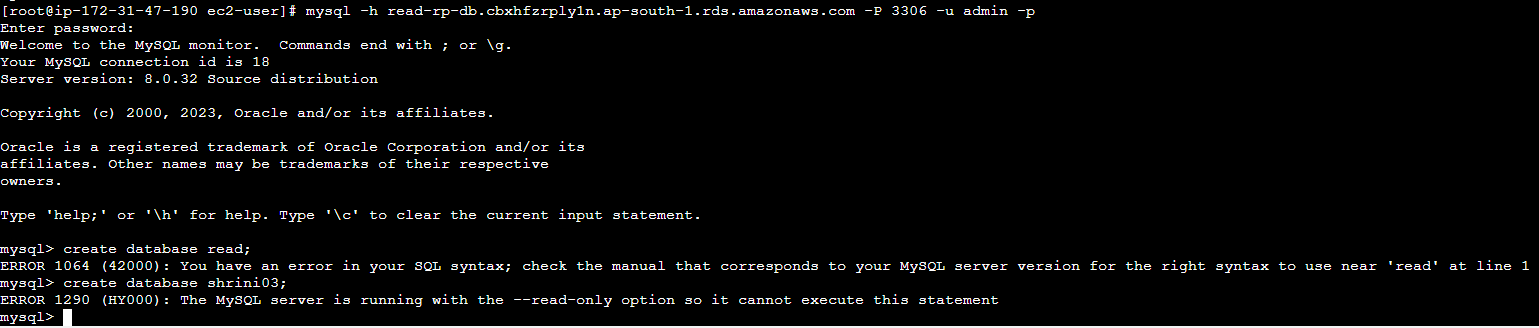
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**\*\*If we want to use the read replica-db we have to take endpoint of replica   
“You can find the below error we can’t able to write ant thing on db”**

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**-----------------------------------------------------------------------------------------------**