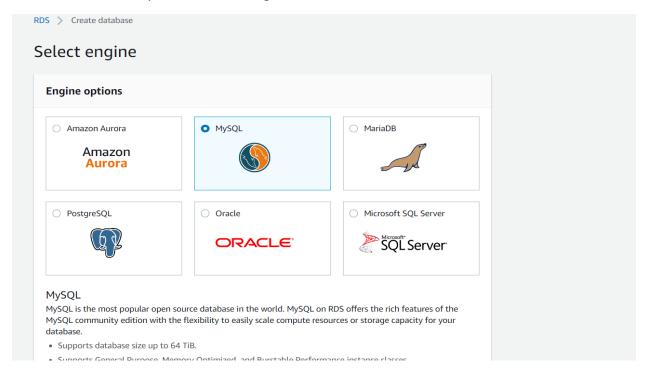
Lab 6

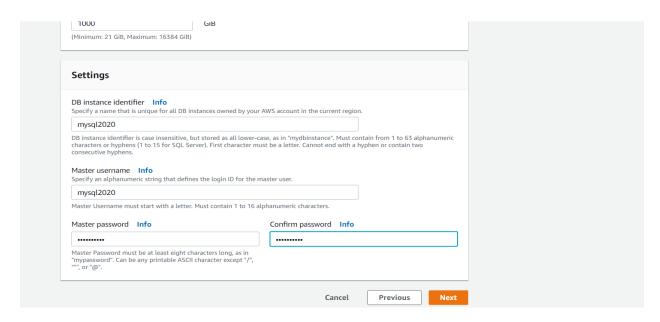
Run the PHP Code on EC2 instance that retrieve data from RDS Server

- Step 1: Log in to AWS Console and Select RDS
- **Step 2:** There are different database engines are available.check mark on free tier applicable on the bottom.Select MySQL Database Engine.

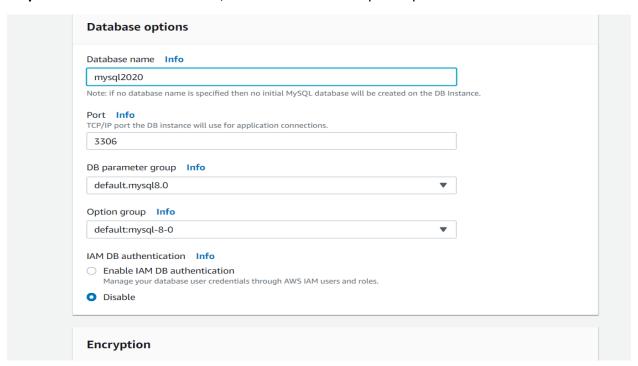


Step 3: Create Database Identifier

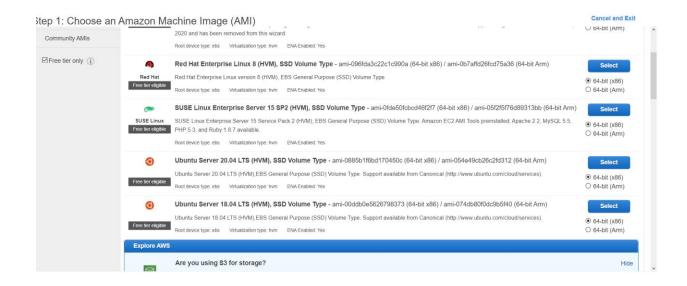
Step 4: Set Master username and Master Password for database



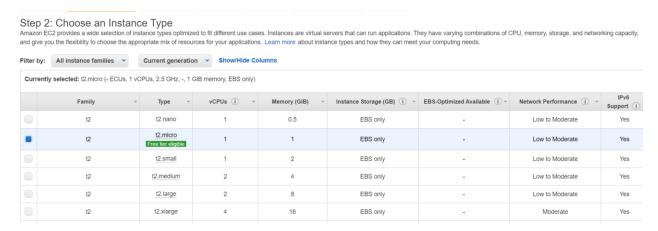
Step 5: Enter the database name, Port in the database options panel. then click create database.



Step 6: Now go to EC2 and Select Ubuntu Server AMI



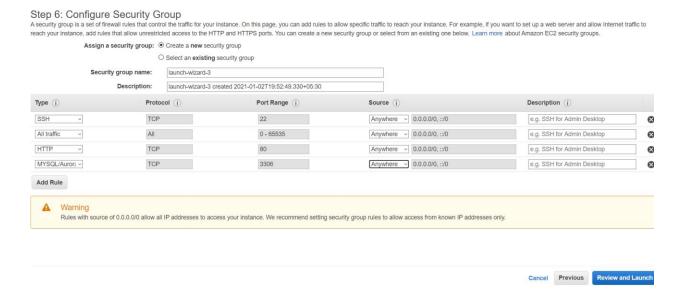
Step 7: Choose Instance type as t2.micro which is free tire eligible



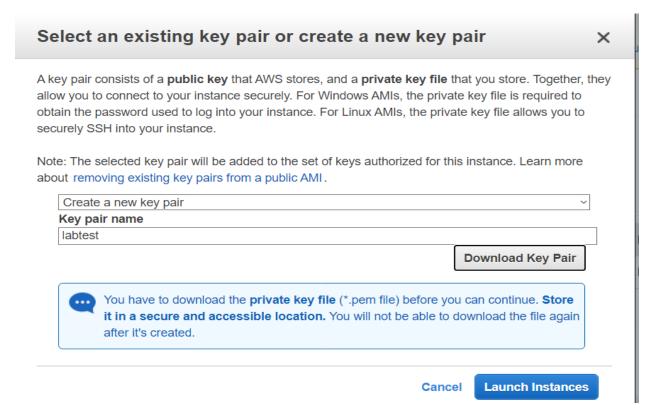
Step 8: In Security Group Add

- HTTP Protocol and Set Source anywhere
- HTTPS Protocol and Set Source anywhere
- MYSQL/AURORA and Set Source anywhere
- All traffic and set source anywhere

Click on review and launch



Step 9: Create a new Key Pair and Download the Key pair



Click on launch instances

Step 10: Connect Ubuntu VM using ssh client using Command:

ssh -I <.pem file>@dns

Step 11: Now install apache2 software in Ubuntu VM using Command:

sudo apt install apache2 -y

```
Cot:35 http://security.ubuntu.com/ubuntu focal-security/universe andid c-n-f Metadata [936d B] cot:35 http://security.ubuntu.com/ubuntu focal-security/universe andid pages [126 B] cot:35 http://security.ubuntu.com/ubuntu focal-security/universe andid pages [126 B] cot:35 http://security.ubuntu.com/ubuntu focal-security/universe andid pages [126 B] cot:35 http://security.ubuntu.com/ubuntu focal-security/universe andid c-n-f Metadata [116 B] focal package lists... Done
Get:38 http://security.ubuntu.com/ubuntu focal-security/universe andid c-n-f Metadata [116 B] focal package lists... Done
Reading state information... Done
Get packages can be upgraded. Run 'agut list --upgradable' to see them.
duntule[17:17:13-017:15] door optimized lists and the list
```

Step 12: Now install mysql-server in Ubuntu VM using Command:

sudo apt install mysql-server -y

Step 13: Install php in Ubuntu VM using Command:

sudo apt-get install php libapache2-mod-php php-mysql php-curl php-gd php-json php-zip php-mbstring

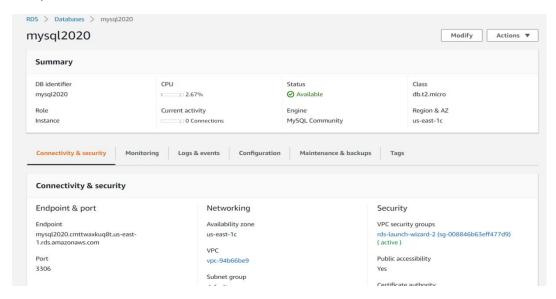
```
in Select bound#[0-172-13-0-175]-

in Abbiling conf to Calized-error-pages.
Enabling conf other-whosts-access-log.
Enabling conf other-whosts-access-log.
Enabling conf security.
Enabling site security.
Enabling site so default.
Created symink /tet/systemd/system/multi-user.target.wants/apache2.service + /lib/systemd/system/apache2.service.
Created symink /tet/systemd/system/multi-user.target.wants/apache-htcacheclean.service.

Processing triggers for unit (0.30-0) ...
Processing triggers for system (1283.4-abbuntub.2) ...

about 1888.4 abbuntub.2 abbuntub
```

Step 14: Now go to connectivity and security panel in Creted database and copy the Endpoint and port number .



Step 15: Now connect Mysql database using following command

mysql -h <End point> -P 3306 -u <UserName> -p

It will ask for Master Password , enter the master password.

Step 16: Now Mysql database which we created inside AWS is connected to Mysql database

```
wbuntu@ip-172-31-38-93:~ bubuntu@ip-172-31-38-93:~ mysql -h mysql2020.cmttwaxkuq8t.us-east-1.rds.amazonaws.com -P 3306 ^-u mysql2020 -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.20 Source distribution
Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.
Oracle is a registered trademark of Oracle Corporation and/or its affiliates. Other names may be trademarks of their respective owners.

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

mysql> create database bookdb;
Query OK, 1 row affected (0.02 sec)

mysql> use b_

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**Voundational oracle orac
```

Step 17: Create table in mysql database

```
ubuntu@lp-172-31-38-93.-

-u mysql2020 -p
Enter password:
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 21
Server version: 8.0.20 Source distribution

Copyright (c) 2000, 2020, Oracle and/or its affiliates. All rights reserved.

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

mysql> create database bookdb;
Query OK, 1 row affected (0.02 sec)

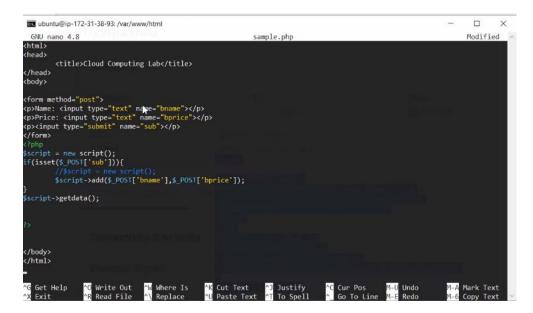
mysql> use bookdb;
Database changed
mysql> create table books(

-> id int AUTO_INCREMENT primary key,
-> bookname varchar(255),
-> price varchar(255),
-> price
```

Step 18: Now go to /var/www/html folder and create new sample.php file inside ubuntu VM.



Step 19: Write the php code inside sample.php to take input and store in database



Step 20: Now copy the public ip of ubuntu instance and paste in address bar.php application is live and it stores the details in mysql databse .

