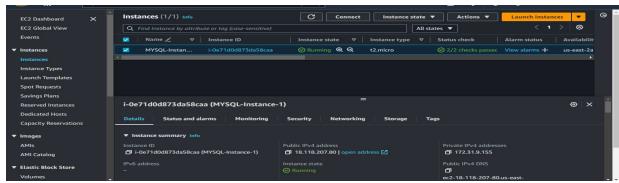
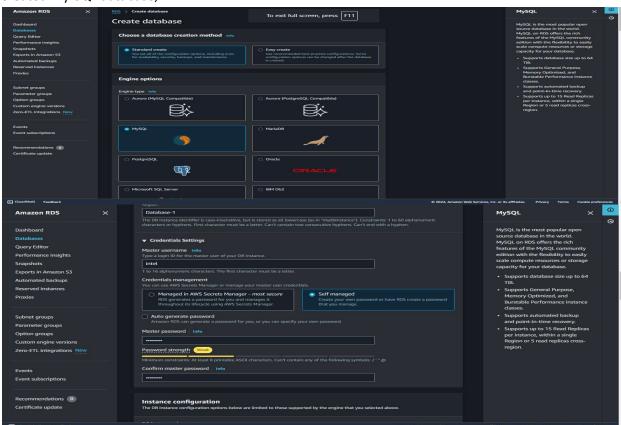
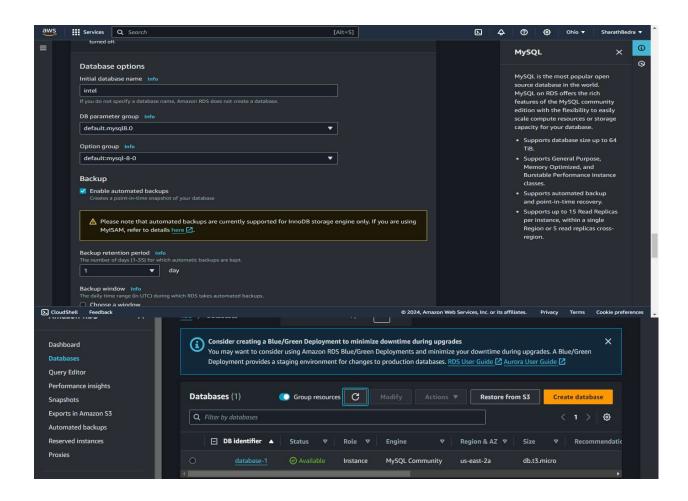
Project 1 – Deploying A Multi-Tier Website Using AWS EC2;

I have Launched an EC2 Instance;



Created My-SQL database;





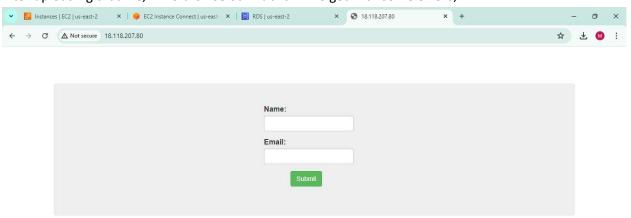
Let us copy the endpoint of the database and change it in our code;

```
- 0 ×
 *index - Notepad
   File Edit Format View Help
         </div class="form-group">
  <label for="email">Email:</label>
                   <input type="text" class="form-control" name="email">
          </div>
                                                                                                                                                                                                                                                                                                                                                     &
          (/tr>
   </div>
   </div>
    <?php
  $firstname=$_POST['firstname'];
 $\firstname=\pubsiterist( | \frac{1}{2} \)
$\frac{1}{2} \pubsiterist( | \frac{1}{2} \)
$\frac{1}{2} \text{servername} = "\frac{1}{4\frac{1}{2}\frac{1}{2}\sigma\frac{1}{2}\]
$\frac{1}{2} \text{servername} = \text{intell'};
$\frac{1}{2} \text{servername} = \text{intell'} = \text{servername} = \text{intell'};
$\frac{1}{2} \text
   // Create connection
  $conn = new mysqli($servername, $username, $password, $db);
   // Check connection
 if ($conn->connect_error) {
    die("Connection failed: " . $conn->connect_error);
 f
if(isset($_POST['firstname']) && isset($_POST['email'])){
$sql = "INSERT INTO data (firstname,email)
VALUES ('".$firstname."', '".$email."')";
 if ($conn->query($sql) === TRUE) {
                  echo "New record created successfully";
} else {
    echo "Error: " . $sql . "<br/>br>" . $conn->error;
```

Now we shall create index.php file inside our instance upload our new code inside that file;



After uploading that file, if we browse our Public-IP we get with some errors;



connect_error) { die("Connection failed: " . \$conn->connect_error); } if(isset(\$_POST['instname']) && isset(\$_POST['email'])){ \$sql = "INSERT INTO data (firstname,email) VALUES (" .\$firstname.", " .\$email.")"; if (\$conn->query(\$sql) === TRUE) { echo "New record created successfully"; } else { echo "Error." . \$sql . "
" . \$conn->error; } \$conn->close(); } ?>

Now we shall install mysql-server;

```
whuntu@ip=172-31-9-155:/var/www/html$ ls
index.php
ubuntu@ip=72-31-9-155:/var/www/html$ sudo nano index.php
ubuntu@ip=72-31-9-155:/var/www/html$ sudo spt-get install mysql-server y
Reading package lists... Done
Reading state information... Done
```

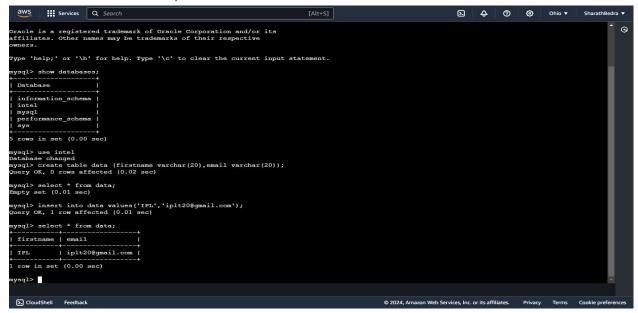
Now we shall connect to our RDS;

```
wbuntu@ip-172-31-9-155:/var/www/html$ sudo mysql -h database-1.cj2usy6mca6l.us-east-2.rds.amazonaws.com -u intel -pintel123
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor. Commands end with; or \g.
Your MySQL connection id is 31
Server version: 8.0.35 Source distribution
Copyright (c) 2000, 2024, Oracle and/or its affiliates.
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>
```

Created a Table named data;



Now connecting to same instance with new tab and shall host php.file;

```
aWS Services Q Search
                                                                                                                                                                               D A
                                                                                                                                                                                                 @
                                                                                                                                                                                                          (e)
                                                                                                                                                                                                                   Ohio ▼
                                                                                                                                                                                                                                  SharathBedra ▼
ubuntu@ip-172-31-9-155:~$ sudo add-apt-repository y ppa:ondrej/php
PPA publishes dbgsym, you may need to include 'main/debug' component
Repository: 'Types: deb
URIs: https://ppa.launchpadcontent.net/ondrej/php/ubuntu/
                                                                                                                                                                                                                                                 0
 uites: noble
Components: main
Description:
Co-installable PHP versions: PHP 5.6, PHP 7.x, PHP 8.x and most requested extensions are included. Only Supported Ubuntu Releases (https://wiki.ubuntu.com/Releases) are provided.
Debian oldstable and stable packages are provided as well: https://deb.sury.org/#debian-dpa
 ou can get more information about the packages at https://deb.sury.org
BUGS&FFATURES: This PPA now has a issue tracker: https://deb.sury.org/#bug-reporting
 AVEATS:
 AVEAUS:

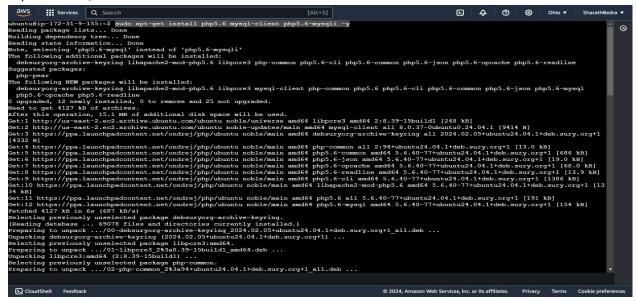
If you are using php-gearman, you need to add ppa:ondrej/pkg-gearman

If you are using apache2, you are advised to add ppa:ondrej/apache2

If you are using nginx, you are advised to add ppa:ondrej/nginx-mainline

or ppa:ondrej/nginx
PLEASE READ: If you like my work and want to give me a little motivation, please consider donating regularly: https://donate.sury.org/
WARNING: add-apt-repository is broken with non-UTF-8 locales, see https://github.com/oerdnj/deb.sury.org/issues/56 for workaround:
 LC_ALL=C.UTF-8 add-apt-repository ppa:ondrej/php
fore info: https://launchpad.net/~ondrej/+archive/ubuntu/php
```

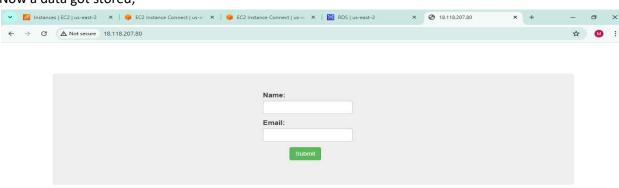
Now we shall establish a connection between our source code and database by installing the dependencies;



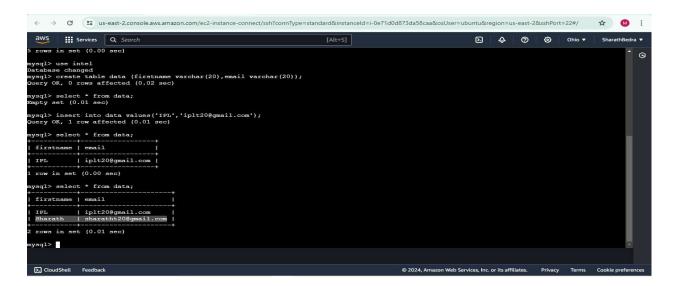
Now we didn't get any error;



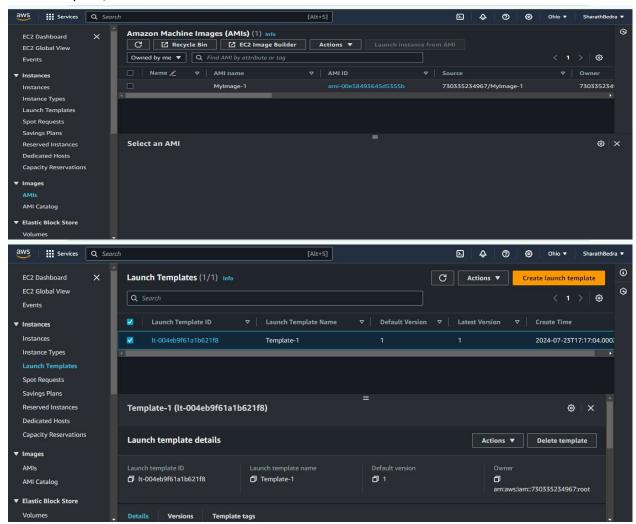
Now a data got stored;



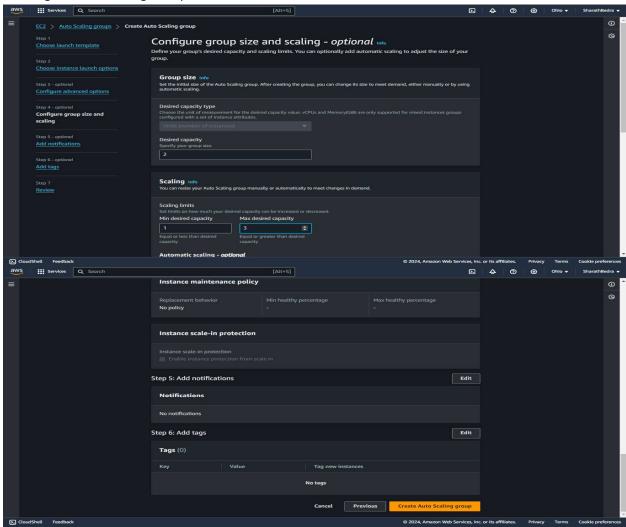
New record created successfully



Now we shall create an image of the running instance and then using that image we shall create a launch template;



Creating an Auto-Scaling Group;



So, new instances got launched;

