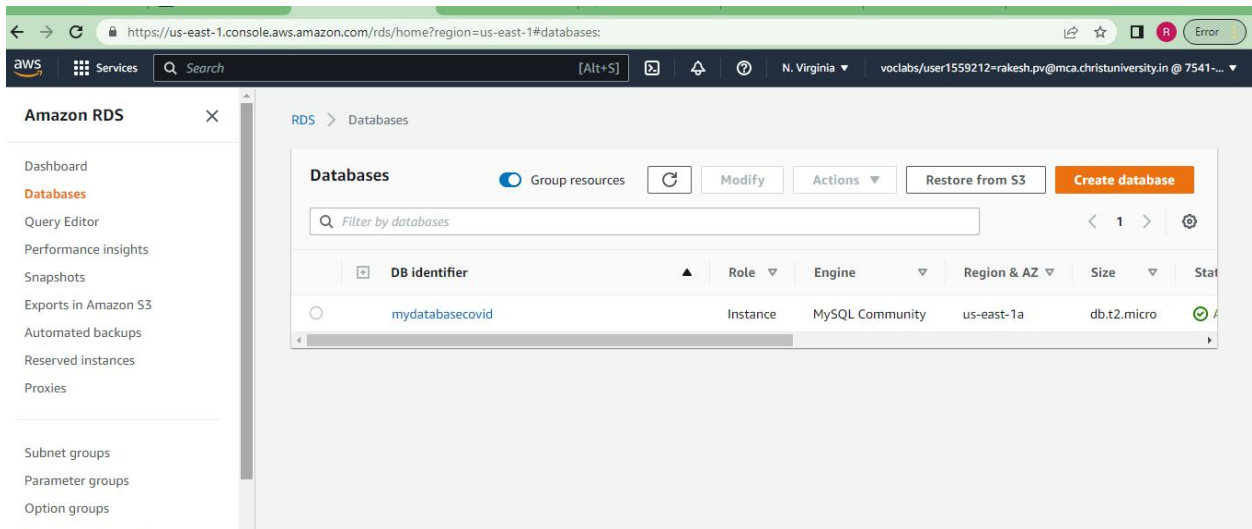


Create PHP application on EC2 instance with Amazon RDS as backend.

This is my schema



This is my endpoint url



This is my ec2 connected to rds : covid ec2 linux ami

Connected compute resources (1) Info				
Connections to compute resources that were created automatically by RDS are shown here. Connections to compute resources that were created manually aren't shown.				
<input type="text" value="Filter by compute resources"/>				
Resource identifier ↗	Resource type	Availability zone	RDS security group ↗	Compute resource security group ↗
i-05d56c15b183655b0	EC2 Instance	us-east-1a	rds-ec2-2	ec2-rds-2

This is my network settings in ec2

Setting up my security group:
In security group we have to setup inbound rules

Connectivity & security		
<div>Endpoint & port</div> <div>Endpoint</div> <div>mydatabasecovid.clahmvujfeoz.us-east-1.rds.amazonaws.com</div> <div>Port</div> <div>3306</div>	<div>Networking</div> <div>Availability Zone</div> <div>us-east-1a</div> <div>VPC</div> <div>vpc-043e0d8c01d28866c</div> <div>Subnet group</div> <div>default-vpc-043e0d8c01d28866c</div> <div>Subnets</div> <div>subnet-0c243e139f02f558d</div> <div>subnet-00de91856013eb628</div> <div>subnet-087f9bf7a9d49b38b</div> <div>subnet-0f881bd2db6e4979f</div> <div>subnet-08496a93b6fd32b43</div> <div>subnet-0ecc488ddb71d097</div> <div>Network type</div> <div>IPv4</div>	<div>Security</div> <div>VPC security groups</div> <div>rds-ec2-2 (sg-0564c34e00cb08bce)</div> <div>Active</div> <div>RDS-SG (sg-02a912f4280b146fb)</div> <div>Active</div> <div>Publicly accessible</div> <div>Yes</div> <div>Certificate authority</div> <div>rds-ca-2019</div> <div>Certificate authority date</div> <div>August 22, 2024, 22:38 (UTC+05:30)</div>
Security group rules (1)		

Step 1: In EC2 service console, go to Security groups in side panel. Click on Create security groups.

Create a Security Group for Linux Server with following configuration:
Click on Create security group.

Configure it as follows:

Security group name: covid

Description: Security Group for EC2 Webserver in custom VPC

Add three rules under Inbound Rules:

1. Type: HTTP

Source: 0.0.0.0/0

2. Type: HTTP

Source: ::/0

3. Type: SSH

Source: 0.0.0.0/0

Inbound rules			
Type	Protocol	Port range	Source
HTTP	TCP	80	0.0.0.0/0
HTTP	TCP	80	::/0
SSH	TCP	22	0.0.0.0/0

Click on Create security group button in bottom right corner. Confirm that it is created.

Go back to EC2 service console, go to Security groups in side panel. Click on Create security groups.

Provide Security group name as RDS-SG.

Provide Description as Security Group for Database.

Provide following Inbound rules:

1. Type: SSH

Source: 0.0.0.0/0

2. Type: MySQL/Aurora

Source: 0.0.0.0/0

3. Type: MySQL/Aurora

Source: MyWebServerSG (security group that would be used to create the EC2 instance)

Inbound rules			
Type	Protocol	Port range	Source
SSH	TCP	22	0.0.0.0/0
MYSQL/Aurora	TCP	3306	0.0.0.0/0
MYSQL/Aurora	TCP	3306	sg-0ef5565514aef0217 (WebServerSG)

Step 2: Go to RDS service console. Click on Create database.

Choose a Standard create database creation method.

RDS > Create database

Create database


Choose a database creation method [Info](#)


☒ **Standard create**
 You set all of the configuration options, including ones for availability, security, backups, and maintenance.


☐ **Easy create**
 Use recommended best-practice configurations. Some configuration options can be changed after the database is created.


Engine options


Engine type [Info](#)


☐ Amazon Aurora


☒ **MySQL**


☐ MariaDB


☐ PostgreSQL


☐ Oracle


☐ Microsoft SQL Server


Edition

☒ MySQL Community

Known Issues/Limitations
 Review the [Known Issues/Limitations](#) to learn about potential compatibility issues with specific database versions.

Version

MySQL 8.0.20

Select the free tier in Templates.

Under Settings:

Give DB instance identifier as mycovid_latest

Provide Credentials Settings as per your choice and store it in a secure place. We refer to following values for this document:

- Master Username: admin
- Master password: admin123

Confirm the default Storage settings as Storage type: General type- General Purpose (SSD) and Allocated storage 20 GiB.

Uncheck the Enable storage autoscaling.

Under Availability & durability select Do not create a standby instance radio button.

Connectivity section will have Default VPC selected.

Click on Additional connectivity configuration for drop down.

- Select default-vpc Subnet group.
- Select Yes radio button under Public access.
- Select Choose Existing radio button in VPC security group.
- In the Existing VPC security groups default will be selected. Remove this security group by clicking on the cross sign. Select the RDS-SG created in previous step.
- In Availability Zone select 1a which should be same as the AZ of Linux Instance.
- The Database port will be default 3306.

Database authentication is set to Password authentication.

This is my home page .

(select * from MyGuests) : it displays the records present in that table

Here only 1 record is inserted and displayed

←

→

↺

Not secure | http://ec2-54-208-158-18.compute-1.amazonaws.com/inc/covid.php

🔍

🔖

🔒

🔴

Error

Covid Details

+ Add New Entries

PLEASE MAINTAIN ALL COVID SOP

COVID DATA

id	State Name	No of sample	No of Death	No of positive	No of negative	No of discharge	Reg Date
1	ka	0	2	6	3	1	2022-12-01 10:56:00

As of now 1 data is inserted and is displayed below

← → ↻ ⚠ Not secure | http://ec2-54-208-158-18.compute-1.amazonaws.com/inc/covid_create.php

Create Record

Please fill this form and submit to add new record to the database.

State Name

no of samples

no of death

no of positive

no of Negative

no of Discharge

COVID DATA

id	State Name	No of sample	No of Death	No of positive	No of negative	No of discharge	Reg Date
1	ka	0	2	6	3	1	2022-12-01 10:56:00

Here we can add new user to covid database

← → ↻ ⚠ Not secure | http://ec2-54-224-44-24.compute-1.amazonaws.com/php_crud/includes/home.php

COVID DATABASE

ID	Username	Email	Password	CRUD Operations
----	----------	-------	----------	-----------------

Navigator: SCHEMAS

Filter objects

- mycovid_latest
- sys

Query 1 x SQL File 1*

Limit to 1000 rows

```
1 • use mycovid_latest
2 ✖ select * from MyGuests
3
```

Now data is inserted

← → ↻ ⚠ Not secure | http://ec2-54-224-44-24.compute-1.amazonaws.com/php_crud/includes/home.php 🔑 📄 ☆ 🏠

COVID DATABASE

[👤 Create New User](#)

ID	Username	Email	Password	CRUD Operations		
39	rakesh	rakesh.pv@mca.christuniversity.in	1234	👁 View	✎ EDIT	🗑 DELETE

[Back](#)

Data updation (rakesh -> rakesh pv)

← → ↻ ⚠ Not secure | http://ec2-54-224-44-24.compute-1.amazonaws.com/php_crud/includes/update.php?edit&user_id=39 🔑 📄 ☆ 🏠

Update User Details

Username

Email ID

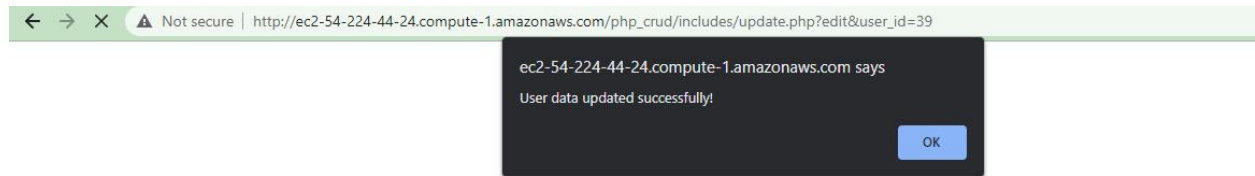
We'll never share your email with anyone else.

Password

[update](#)

[Back](#)

Update confirmation



Now im deleting record with ID 1



RECORD IS DELETED

