



# Connect a Web App to Amazon Aurora



Prerna Kulkarni

## Sample page

ID	NAME	ADDRESS
1	Prerna	xyz
2	pooja	mumbai
3	pranali	delhi

NAME  ADDRESS



# Introducing Today's Project!

## What is Amazon Aurora?

Amazon Aurora is a relational database management system (RDBMS) built for the cloud with full MySQL and PostgreSQL compatibility. Aurora gives you the performance and availability of commercial-grade databases at one-tenth the cost.

## How I used Amazon Aurora in this project

By connecting it to an EC2 instance and fetching user info directly into our database.

## One thing I didn't expect in this project was...

Going this far.

## This project took me...

45 mins



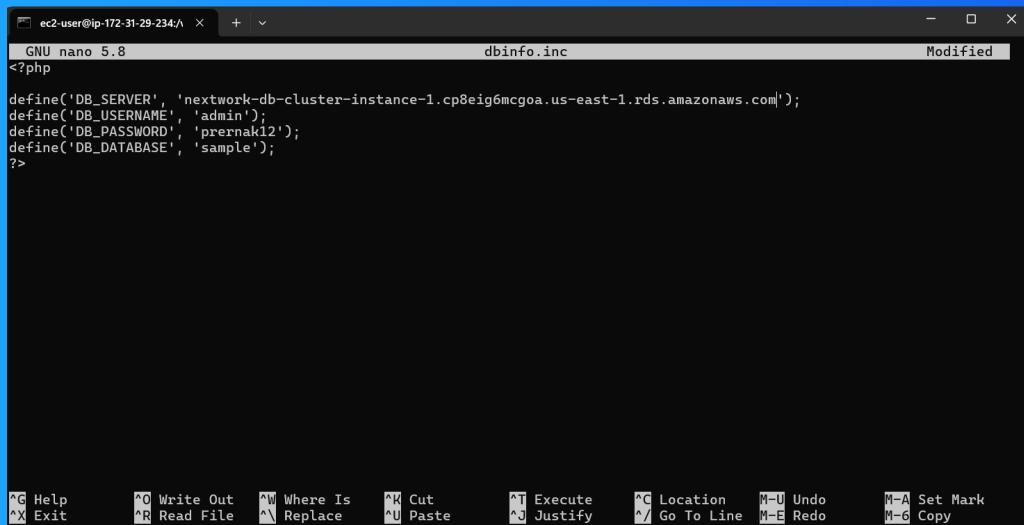
# Creating a Web App

```
ec2-user@ip-172-31-29-234:~ + - Microsoft Windows [Version 10.0.22631.4460] (c) Microsoft Corporation. All rights reserved. C:\Users\91820\Downloads\nextwork>ls 'ls' is not recognized as an internal or external command, operable program or batch file. C:\Users\91820\Downloads\nextwork>ssh -i NextWorkAuroraApp.pem ec2-user@ec2-54-210-37-148.compute-1.amazonaws.com # ~\_\ ##### Amazon Linux 2023 ~~ \##### ~~ \### ~~ #/ --> https://aws.amazon.com/linux/amazon-linux-2023 ~~ V--> ~~ /~~ .- /~~ /~~ /m/ [ec2-user@ip-172-31-29-234 ~]$ |
```

MariaDB, php, php-my-sqli, Apache web server

You need to access your .pem file in order to login successfully to your EC2 instance.

# Connecting my Web App to Aurora



```
ec2-user@ip-172-31-29-234:~ % nano dbinfo.inc
GNU nano 5.8                               dbinfo.inc                                Modified
<?php
define('DB_SERVER', 'nextwork-db-cluster-instance-1.cp8eig6mcgoa.us-east-1.rds.amazonaws.com');
define('DB_USERNAME', 'admin');
define('DB_PASSWORD', 'prernak12');
define('DB_DATABASE', 'sample');
?>
```

The screenshot shows a terminal window titled "ec2-user@ip-172-31-29-234:~". Inside the terminal, the nano 5.8 text editor is open, displaying a PHP configuration file named "dbinfo.inc". The file contains code to define database connection parameters for an Aurora RDS instance, including the server URL, username, password, and database name.

I used nano to edit the file where I used the code which contains my RDS endpoint and the password.

You need to access your .pem file in order to login successfully to your EC2 instance.

# My Web App Upgrade

## Sample page

NAME  ADDRESS

ID	NAME	ADDRESS
1	Prema	xyz
2	pooja	mumbai
3	pranali	delhi

By adding php code, by using the nano command, to create and save.

# Testing my Web App

By using SQL queries, select \* from employees.

```
ec2-user@ip-172-31-29-234:/ ~ + v
| Tables_in_sample |
+-----+
| EMPLOYEES |
+-----+
1 row in set (0.001 sec)

MySQL [sample]> DESCRIBE EMPLOYEES;
+-----+-----+-----+-----+-----+-----+
| Field | Type      | Null | Key | Default | Extra       |
+-----+-----+-----+-----+-----+-----+
| ID    | int unsigned | NO   | PRI | NULL    | auto_increment |
| NAME  | varchar(45)  | YES  |     | NULL    |              |
| ADDRESS | varchar(90) | YES  |     | NULL    |              |
+-----+-----+-----+-----+-----+-----+
3 rows in set (0.004 sec)

MySQL [sample]> SELECT * FROM EMPLOYEES;
+-----+-----+-----+
| ID  | NAME   | ADDRESS  |
+-----+-----+-----+
| 1   | Prerna | xyz      |
| 2   | pooja  | mumbai   |
| 3   | pranali| delhi    |
| 4   | rahul  | dehradun |
| 5   | SAVITA | PUNE     |
| 6   | prajakta| delhi    |
+-----+-----+-----+
6 rows in set (0.001 sec)

MySQL [sample]> |
```



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