NextWork.org

Connect A Web App with Aurora

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Introducing Today's Project!

What is Amazon Aurora?

Amazon Aurora is a fully managed relational database service from AWS, offering high performance and availability. It scales easily, provides automated backups, and is cost-effective for varying workloads.

How I used Amazon Aurora in this project

In today's project, I used Amazon Aurora by creating a relational database to store data for my web app. I connected it to an EC2 instance, enabling efficient data handling and user interactions.

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

One thing I didn't expect in this project was how quickly I could set up the Aurora database and connect it to my web app. The seamless integration and performance optimizations were pleasantly surprising!

This project took me...

2hours

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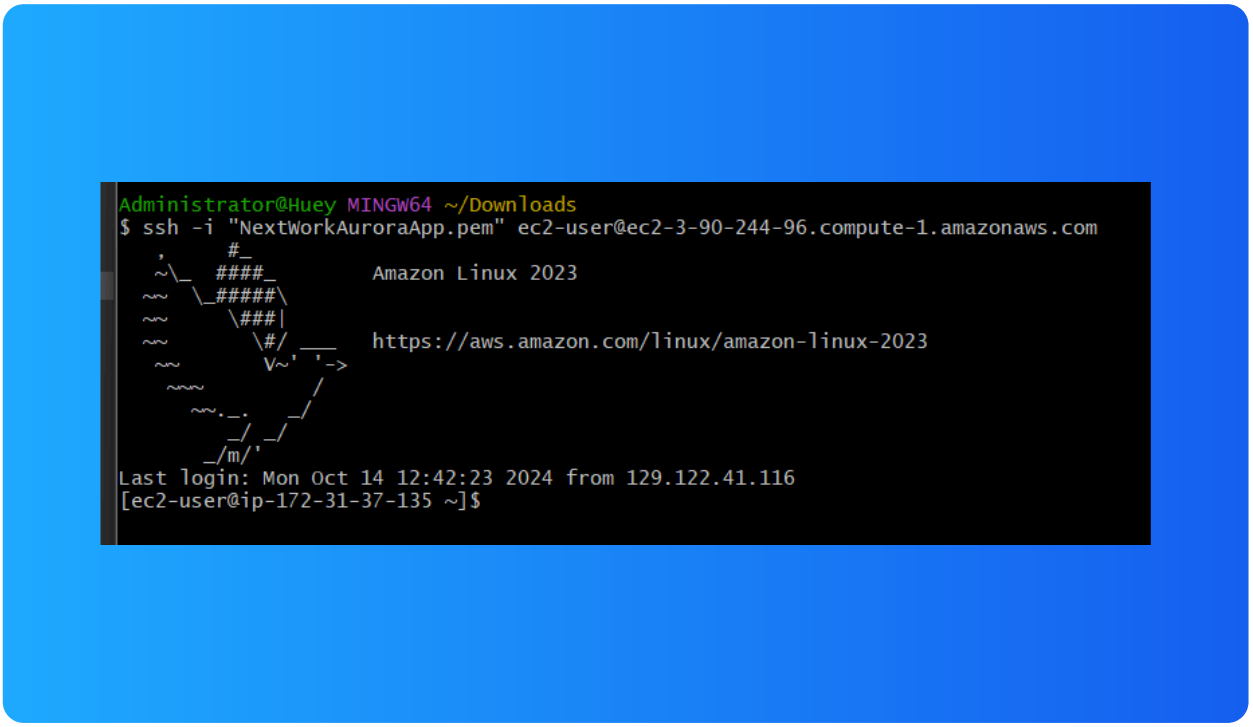
Creating a Web App



To help me create my web app, I first updated the software on my EC2 instance. Then, I installed Apache (httpd), PHP, the php-mysqli library for MySQL connections, and MariaDB to enable database interactions.

To connect to my EC2 instance, I first set the correct permissions for my key pair with chmod 400 NextWorkAuroraApp.pem. Then, I used the SSH command: ssh -i "NextWorkAuroraApp.pem" ec2-user@ec2-3-90-244-96.compute-1.amazonaws.com for secure access

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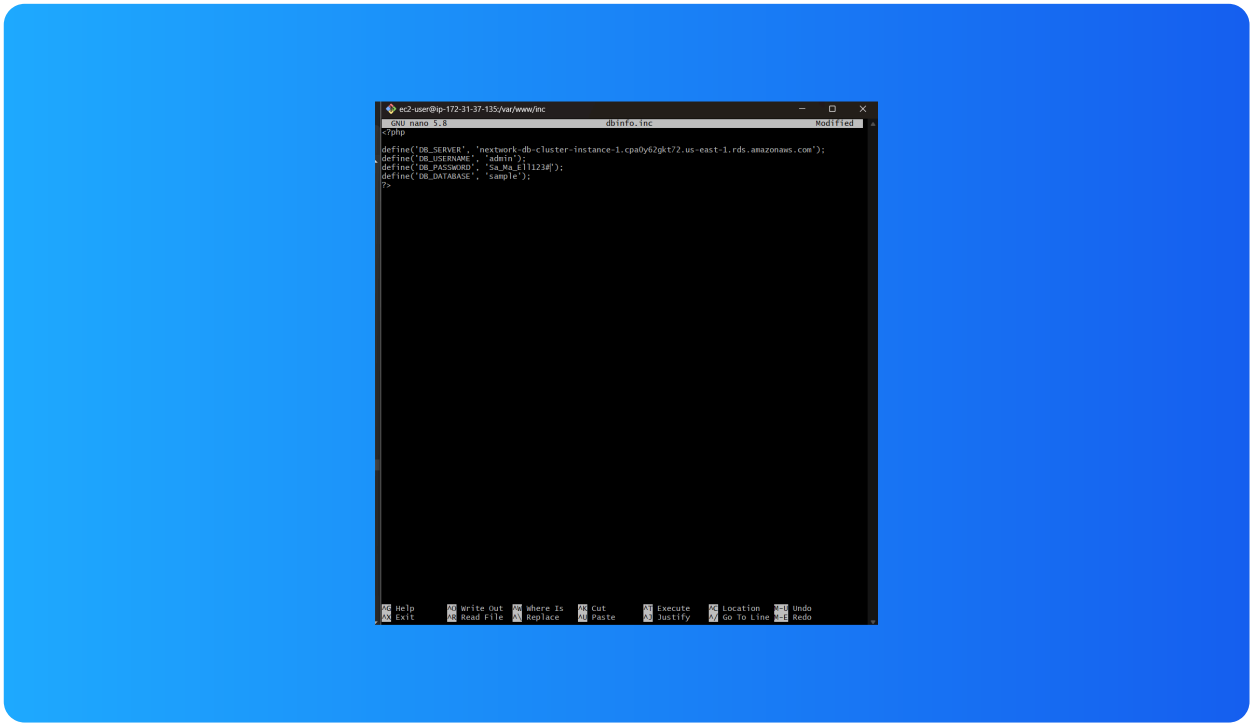
Connecting my Web App to Aurora



I set up my EC2 instance's connection details to my database by creating a PHP script that includes the database host, username, password, and database name. This configuration allows my web app to communicate with the Aurora database securely.

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My Web App Upgrade

Next, I upgraded my web app by enhancing the PHP script to improve user interaction and functionality. I connected it to the Aurora database, allowing for dynamic data retrieval and improved user experience.

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Testing my Web App

To make sure my web app was working correctly, I tested it in the browser and then used the MySQL command-line interface (CLI) to query the Aurora database and verify that the updates were reflected as expected.

```
MySQL [(none)]> USE sample;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
MySQL [sample]> SHOW TABLES;
+------------------+
| Tables_in_sample |
+------------------+
| EMPLOYEES        |
+------------------+
1 row in set (0.002 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 (0.005 sec)

MySQL [sample]> SELECT * FROM EMPLOYEES;
+----+-------------+-------------------------------+
| ID | NAME        | ADDRESS                       |
+----+-------------+-------------------------------+
|  1 | James MIlls | 100 Examples Street, new York |
|  2 | Celine MIlls | 02 KNUST Lane, San Francisco  |
+----+-------------+-------------------------------+
2 rows in set (0.001 sec)

MySQL [sample]>
```

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