



Connect A Web App with Aurora



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Introducing Today's Project!

What is Amazon Aurora?

Amazon Aurora is a database engine and it can be used for literally all kinds of database applications most especially very big database projects.

How I used Amazon Aurora in this project

I connected Aurora to my EC2 instance.

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

I did not expect it to be quite tricky at some point but it was fun though

This project took me...

Approximately 5 hours



Creating a Web App

```
PS C:\Users\KwARTENG\OneDrive\Desktop> cd nextwork
PS C:\Users\KwARTENG\OneDrive\Desktop\nextwork> ls

Directory: C:\Users\KwARTENG\OneDrive\Desktop\nextwork

Mode                LastWriteTime         Length Name
----                -----        ----- 
-a---       10/20/2024  5:51 PM           1678 NextWorkAuroraApp.pem

PS C:\Users\KwARTENG\OneDrive\Desktop\nextwork> ssh -i NextWorkAuroraApp.pem ec2-user@ec2-13-68-173-112.eu-north-1.compute.amazonaws.com
The authenticity of host 'ec2-13-68-173-112.eu-north-1.compute.amazonaws.com (13.60.173.112)' can't be established.
ED25519 key fingerprint is SHA256:6f95Scyu3Cn2hawJirMNzKvCpG5757LOc4TqxnbLuM.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-13-68-173-112.eu-north-1.compute.amazonaws.com' (ED25519) to the list of known hosts.

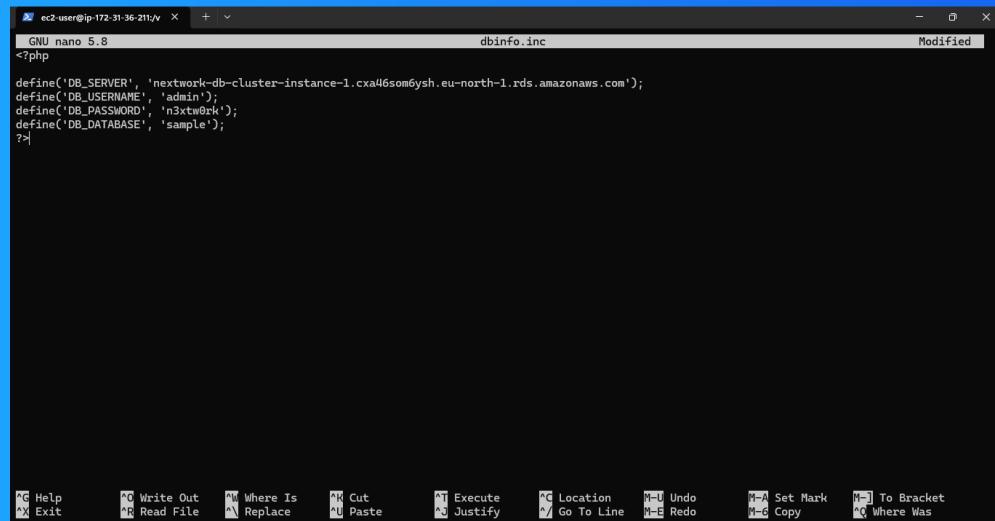
[ec2-user@ip-172-31-43-53 ~]$ |
```

To help me create my web app, I first had to make sure all the software on my EC2 instance were up to date and then I had to install some packages that would help my web app run.

To connect to my EC2 instance, I had to locate my .pem file on the desktop and write the SSH line of code to connect to my EC2 instance.



Connecting my Web App to Aurora



A screenshot of a terminal window titled "dbinfo.inc" showing the contents of a PHP configuration file. The file contains the following code:

```
ec2-user@ip-172-31-36-211:~ % nano dbinfo.inc
GNU nano 5.8
<?php
define('DB_SERVER', 'nextwork-db-cluster-instance-1.cxa46som6sh.eu-north-1.rds.amazonaws.com');
define('DB_USERNAME', 'admin');
define('DB_PASSWORD', 'n3xtw0rk');
define('DB_DATABASE', 'sample');
?>
```

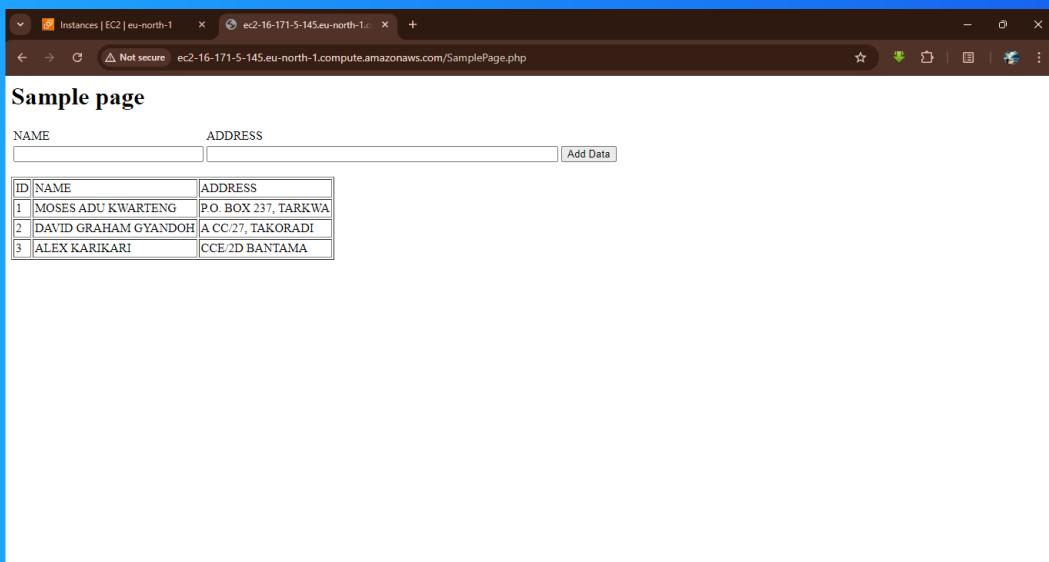
The terminal window has a dark background with white text. The bottom of the window shows a menu bar with various keyboard shortcuts for file operations like Help, Exit, Write Out, Read File, Where Is, Replace, Cut, Paste, Execute, Justify, Location, Go To Line, Undo, Redo, Set Mark, Copy, To Bracket, and Where Was.

I set up my EC2 instance's connection details to my database by copy by endpoint address and adding some php code snippet with my password and username to be able to connect details to my database.

To connect to my EC2 instance, I had to locate my .pem file on the desktop and write the SSH line of code to connect to my EC2 instance.



My Web App Upgrade



Next, I upgraded my web app by adding a script to my SamplePage.php file.



Testing my Web App

To make sure my web app was working correctly, I used mySQL CLI to run some queries to see if changes I made on the web app is reflected in the database.

```
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 (0.002 sec)

MySQL [sample]> SELECT * FROM EMPLOYEES;
+-----+-----+-----+
| ID  | NAME | ADDRESS |
+-----+-----+-----+
| 1   | MOSES ADU KWARTENG | P. O. BOX 237, TARKWA |
| 2   | DAVID GRAHAM GYANDOH | A CC/27, TAKORADI      |
| 3   | ALEX KARIKARI        | CCE/2D BANTAMA         |
+-----+-----+-----+
3 rows in set (0.000 sec)

MySQL [sample]> |
```



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