



# Connect A Web App with Aurora



Sibdou Ibrahim Issifu

The screenshot shows a web browser window with multiple tabs open at the top. The active tab displays a "Sample page" with a form and a table. The form has fields for "NAME" and "ADDRESS". Below the form is a table with columns "ID", "NAME", and "ADDRESS". The table contains two rows of data:

ID	NAME	ADDRESS
1	Eisen Hower	137 Gold-Matrix
2	Joy Sad	Lake Hell 08 Drive



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# Introducing Today's Project!

## What is Amazon Aurora?

Amazon Aurora is a fully managed relational database service that offers high performance, scalability, reliability, compatibility, and cost-effectiveness. It is ideal for handling demanding workloads such as online transaction processing.

## How I used Amazon Aurora in this project

To manage my database for a Web App.

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

I didn't expect this project to be less challenging.

## This project took me...

It took me about 2 hours.



# Creating a Web App

```
PS C:\Users\sibdo\Desktop\network> ls

    Directory: C:\Users\sibdo\Desktop\network

Mode LastWriteTime      Length Name
-- -a---- 21/10/2024     1678 NextWorkAuroraApp.pem

PS C:\Users\sibdo\Desktop\network> ssh -i NextWorkAuroraApp.pem ec2-user@ec2-18-217-216-133.us-east-2.compute.amazonaws.com
The authenticity of host 'ec2-18-217-216-133.us-east-2.compute.amazonaws.com (18.217.216.133)' can't be established.
ED25519 key fingerprint is SHA256:ggYsQ83dzXnCfJjdMwIm+uwMM9zWnWjolUQ6M0vpQ.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? y
Please type 'yes', 'no' or the fingerprint: yes
Warning: Permanently added 'ec2-18-217-216-133.us-east-2.compute.amazonaws.com' (ED25519) to the list of known hosts.

#_
_/_#####
_/_\###|
_/_\###|
_/_\###|_>
_/_\###|_>
_/_\###|_>
_/_\###|_>
_/_\###|_>
[ec2-user@ip-172-31-21-116 ~]$ |
```

To help me create my Web App, I first installed Apache web server, PHP, php-mysqli and MariaDB, using the command "sudo dnf install -y httpd php php-mysqli mariadb105"

To connect to my instance, I run the command "ssh -i NextWorkAuroraApp.pem ec2-user@ec2-18-217-216-133.us-east-2.compute.amazonaws.com" in powershell.



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# Connecting my Web App to Aurora

The screenshot shows a terminal window titled "ec2-user@ip-172-31-21-116:~" with the command "nano dbinfo.inc" running. The file contains the following PHP code:

```
GNU nano 5.8                                         dbinfo.inc                                         Modified
<?php
define('DB_SERVER', 'nextwork-db-cluster.cluster-cp8msuwaocrc.us-east-2.rds.amazonaws.com');
define('DB_USERNAME', 'admin');
define('DB_PASSWORD', 'n3xtw0r1');
define('DB_DATABASE', 'sample');
?>
```

The terminal window has a dark background and a light blue header bar. 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, and To Bracket.

I set up my EC2 instance's connection details to my database by creating a 'dbinfo' file that stores my EC2 instance's connection details to my database.

To connect to my instance, I run the command "ssh -i NextWorkAuroraApp.pem ec2-user@ec2-18-217-216-133.us-east-2.compute.amazonaws.com" in powershell.



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# My Web App Upgrade

The screenshot shows a web browser window with a blue header bar containing various tabs. The main content area displays a "Sample page" with a form and a table.

Form fields:

- NAME:
- ADDRESS:
- 

Table:

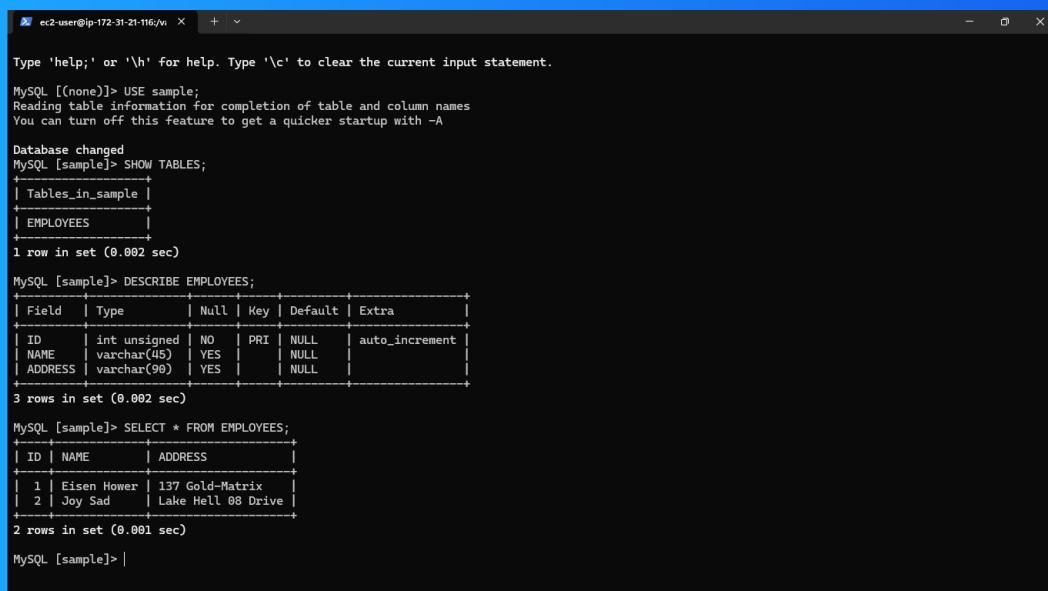
ID	NAME	ADDRESS
1	Eisen Hower	137 Gold-Matrix
2	Joy Sad	Lake Hell 08 Drive

Next, I upgraded my web app by creating a php file to add ability to query a database.



# Testing my Web App

To make sure my web app was working correctly, I connected to my Database using MySQL CLI and access the database for confirmation.



The screenshot shows a terminal window titled "ec2-user@ip-172-31-21-116:~". The MySQL command-line interface is running. The user has connected to the "sample" database. They run several commands to check the structure and data of the "EMPLOYEES" table:

```
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

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  | Eisen Hower | 137 Gold-Matrix |
| 2  | Joy Sad     | Lake Hell 08 Drive |
+----+
2 rows in set (0.001 sec)

MySQL [sample]> |
```



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