



# Connect A Web App with Aurora



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Employee Management

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# Introducing Today's Project!

## What is Amazon Aurora?

Aurora is a relational database that allows us to store data in the form of tables, using an engine of our choice

## How I used Amazon Aurora in this project

To store employee data from my web app

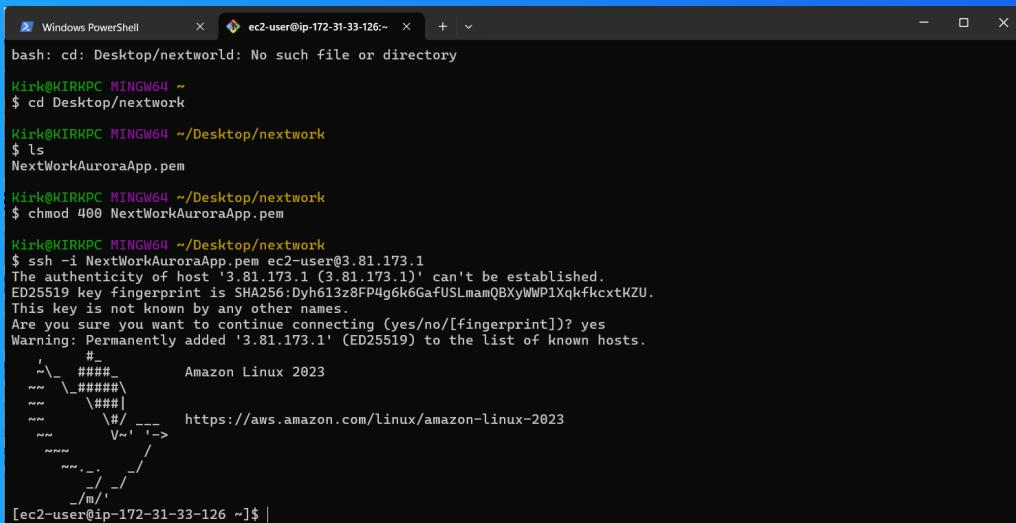
## One thing I didn't expect in this project was...

Having to rely on the terminal so much

## This project took me...

three hours

# Creating a Web App



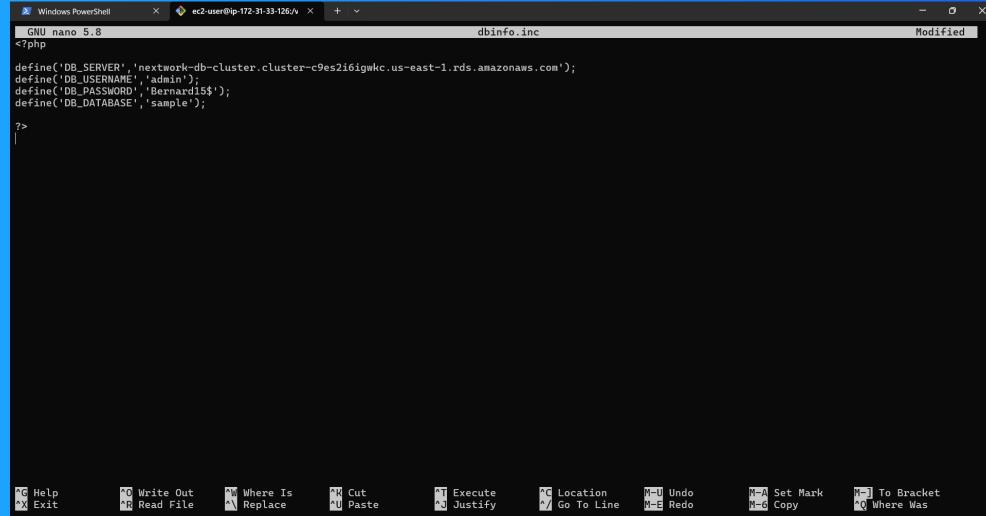
A screenshot of a Windows PowerShell window titled "Windows PowerShell". The window shows a command-line session where a user is attempting to connect via SSH to an EC2 instance. The session starts with the user navigating to their desktop directory and then to a "nextworld" folder. They run the "ls" command to list files and then "chmod 400 NextWorkAuroraApp.pem" to set the permissions of a key pair file. Finally, they attempt to connect with "ssh -i NextWorkAuroraApp.pem ec2-user@3.81.173.1", which fails due to a known host fingerprint mismatch. The user responds with "yes" to add the host to the known hosts list.

```
Windows PowerShell      x   ec2-user@ip-172-31-33-126:~ + 
bash: cd: Desktop/nextworld: No such file or directory
Kirk@KIRKPC MINGW64 ~
$ cd Desktop/nextworld
Kirk@KIRKPC MINGW64 ~/Desktop/nextworld
$ ls
NextWorkAuroraApp.pem
Kirk@KIRKPC MINGW64 ~/Desktop/nextworld
$ chmod 400 NextWorkAuroraApp.pem
Kirk@KIRKPC MINGW64 ~/Desktop/nextworld
$ ssh -i NextWorkAuroraApp.pem ec2-user@3.81.173.1
The authenticity of host '3.81.173.1 (3.81.173.1)' can't be established.
ED25519 key fingerprint is SHA256:Dyh613z8FP4g6k6GafUSLmamQBXYWWP1XqkfkcxtKZU.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '3.81.173.1' (ED25519) to the list of known hosts.
#_ _ _ _ _ Amazon Linux 2023
~~ \###_
~~ \###\}
~~ \##|
~~ \#/ _--> https://aws.amazon.com/linux/amazon-linux-2023
~~ /_/
~~ /_/
~~ /m'
[ec2-user@ip-172-31-33-126 ~]$ |
```

Install Apache, PHP and mariadb to gain access to mysql compatible client libraries

I downloaded the key pair with .pem extension to be able to use to connect to the ec2 using ssh. Since I am on windows I used gitbash. I had to make the key pair file readonly for only the owner using the chmod command and connect using ssh

# Connecting my Web App to Aurora



The screenshot shows a Windows PowerShell window titled "Windows PowerShell" with the command "ec2-user@ip-172-31-33-126:~" in the title bar. The window contains a nano text editor with the file "dbinfo.inc" open. The code in the editor is:

```
GNU nano 5.8
<?php
define('DB_SERVER','nextwork-db-cluster.cluster-c9es2i6igwkc.us-east-1.rds.amazonaws.com');
define('DB_USERNAME','admin');
define('DB_PASSWORD','Bernard15$');
define('DB_DATABASE','sample');

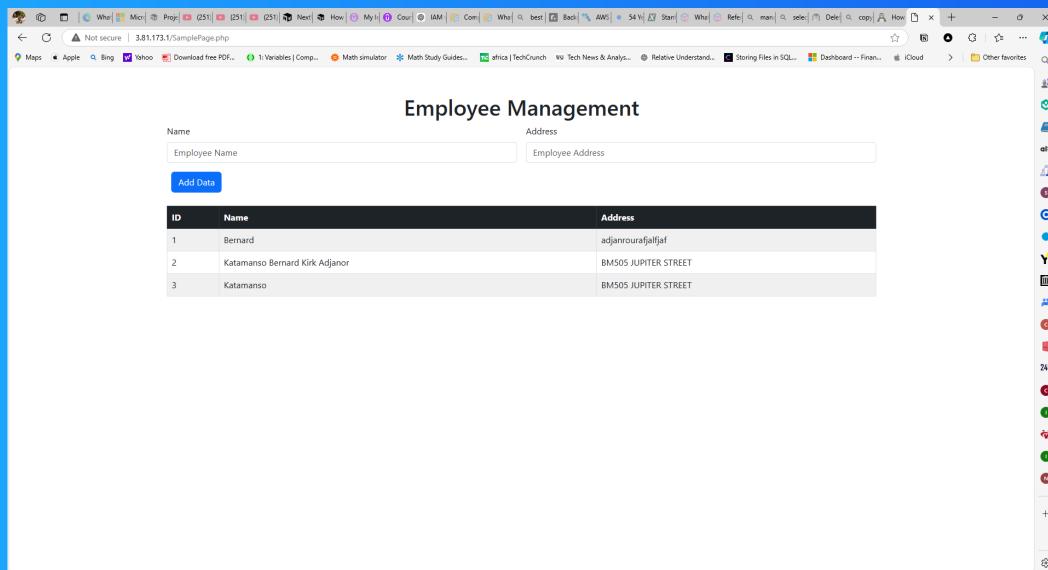
?>
```

The bottom of the window shows the nano editor's menu bar with various keyboard shortcuts for file operations like Help, Exit, Read File, Write Out, Replace, Cut, Paste, Execute, Justify, Location, Go To Line, Undo, Redo, Set Mark, Copy, To Bracket, and Where Was.

I setup my EC2 instance's connection details to my database by defining them in a php script using nano

I downloaded the key pair with .pem extension to be able to use to connect to the ec2 using ssh. Since I am on windows I used gitbash. I had to make the key pair file readonly for only the owner using the chmod command and connect using ssh

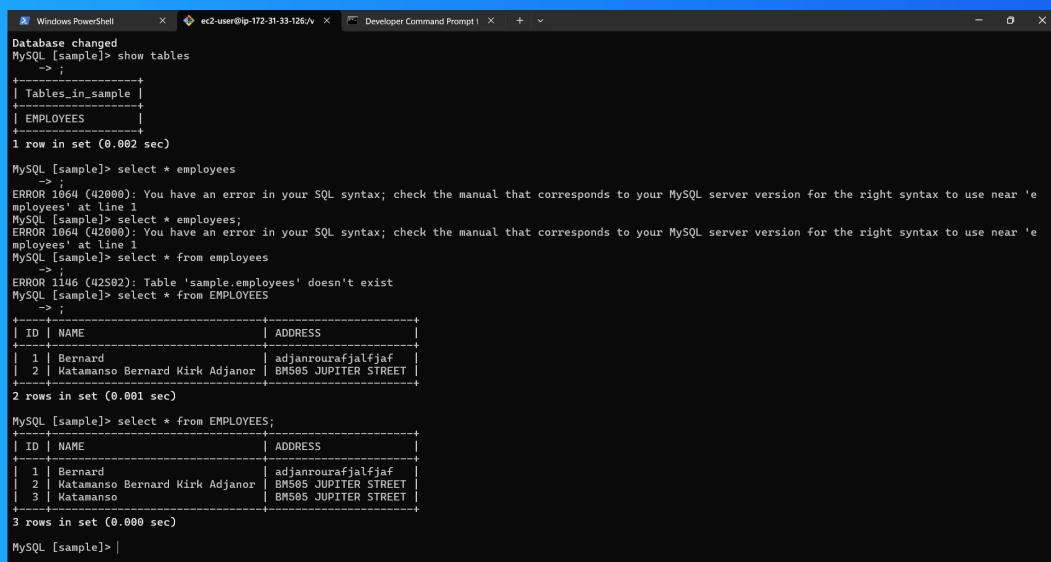
# My Web App Upgrade



Next, I upgraded my web app by running sudo dnf update -y

# Testing my Web App

To make sure my web app was working correctly, I connected to the database and check for the latest entry I made from the web app



```
Windows PowerShell -> ec2-user@ip-172-31-33-126:~ -> Developer Command Prompt - + <>
Database changed
MySQL [sample]> show tables
->;
+-----+
| Tables_in_sample |
+-----+
| EMPLOYEES |
+-----+
1 row in set (0.002 sec)

MySQL [sample]> select * employees
->;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'employees' at line 1
MySQL [sample]> select * employees;
ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near 'employees' at line 1
MySQL [sample]> select * from employees
->;
ERROR 1146 (42S02): Table 'sample.employees' doesn't exist
MySQL [sample]> select * from EMPLOYEES
->;
+----+-----+-----+
| ID | NAME           | ADDRESS        |
+----+-----+-----+
| 1  | Bernard         | adjanrourafjalfjaf |
| 2  | Katamanso       | adjanrourafjalfjaf |
| 3  | Katamanso       | BM505 JUPITER STREET |
+----+-----+-----+
2 rows in set (0.001 sec)

MySQL [sample]> select * from EMPLOYEES;
->;
+----+-----+-----+
| ID | NAME           | ADDRESS        |
+----+-----+-----+
| 1  | Bernard         | adjanrourafjalfjaf |
| 2  | Katamanso       | adjanrourafjalfjaf |
| 3  | Katamanso       | BM505 JUPITER STREET |
+----+-----+-----+
3 rows in set (0.000 sec)

MySQL [sample]>
```



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