



# Connect A Web App With Aurora



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Sample page

NAME ADDRESS

ID	NAME	ADDRESS
1	Snehith example	india example
2	Anas Taj	India, Hyderabad, Towlichowki



# Introducing Today's Project!

## What is Amazon Aurora?

Amazon Aurora manages relational database service by AWS and is compatible with MySQL and PostgreSQL. It offers high performance, scalability, and availability at a fraction of the cost of traditional databases, making it ideal for cloud-based apps.

## How I used Amazon Aurora in this project

I used Amazon Aurora to connect to a web app. by connecting the EC2 instance and then connecting the web for storing the data. This means I could enter data through our browser (loading the web app), and see updates in the backend database

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

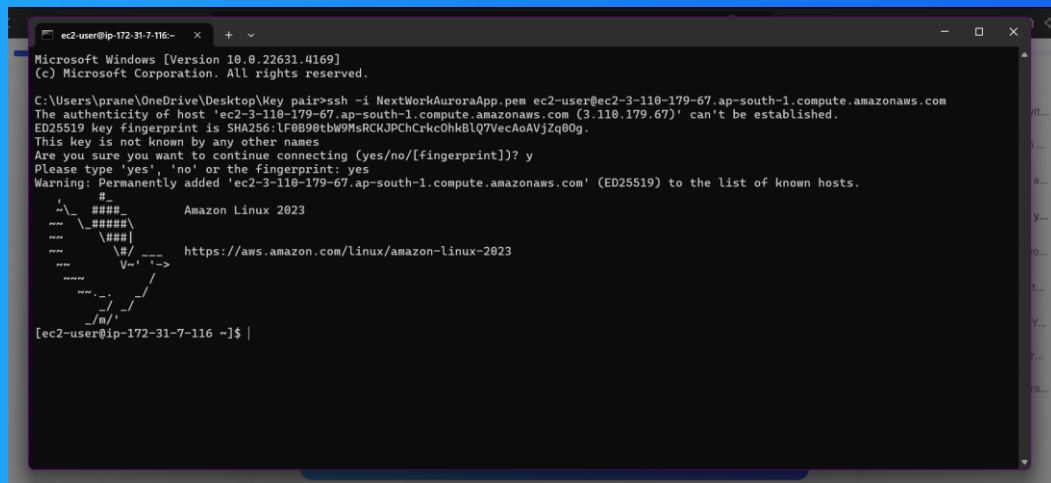
I didn't expect the error Permission Denied error for SamplePage.php but later it was easy to solve by using the sudo command.

## This project took me...

It took me 1.6 hours to complete.



# Creating a Web App



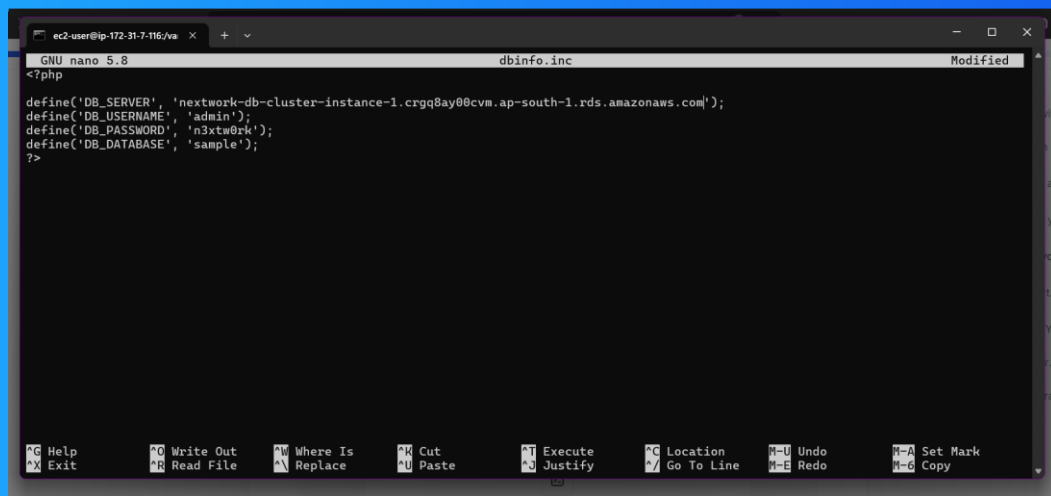
```
ec2-user@ip-172-31-7-116:~  
Microsoft Windows [Version 10.0.22631.4169]  
(c) Microsoft Corporation. All rights reserved.  
  
C:\Users\praneeth\OneDrive\Desktop\Key pair>ssh -i NextWorkAuroraApp.pem ec2-user@ec2-3-110-179-67.ap-south-1.compute.amazonaws.com  
The authenticity of host 'ec2-3-110-179-67.ap-south-1.compute.amazonaws.com (3.110.179.67)' can't be established.  
ED25519 key fingerprint is SHA256:1F0B98tbW9MsRCKJPChCrkc0hkBlQ7VecAoAVjZq00g.  
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 'ec2-3-110-179-67.ap-south-1.compute.amazonaws.com' (ED25519) to the list of known hosts.  
  
Amazon Linux 2023  
https://aws.amazon.com/linux/amazon-linux-2023  
  
[ec2-user@ip-172-31-7-116 ~]$
```

To help me create my web app, I first updated the software and then installed the Apache server and install phpMySQL, and MariaDB. Then we give HTTP access for all systems.

To connect to my EC2 instance, I opened cmd on my Windows PC and then gave the SSH command to connect through an EC2 instance and to access .pem file. Yeah, that's it connected to the EC2.



# Connecting my Web App to Aurora



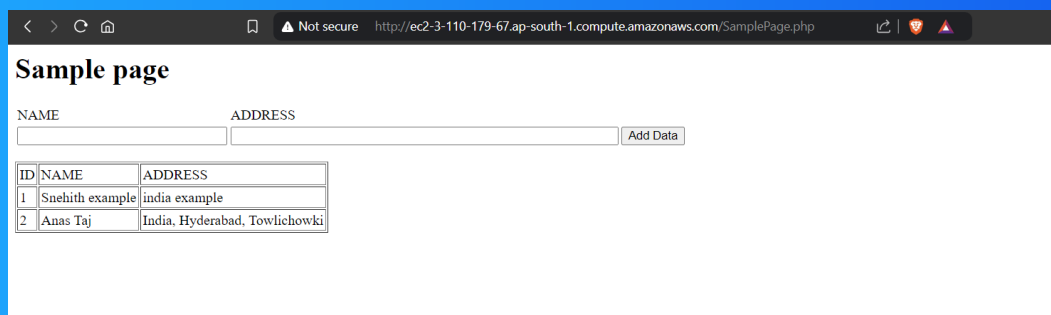
```
ec2-user@ip-172-31-7-116:/va x + v
GNU nano 5.8 dbinfo.inc Modified
<?php
define('DB_SERVER', 'nextwork-db-cluster-instance-1.crgq8ay00cvm.ap-south-1.rds.amazonaws.com');
define('DB_USERNAME', 'admin');
define('DB_PASSWORD', 'n3xtw0rk');
define('DB_DATABASE', 'sample');
?>
```

I set up my EC2 instance's connection details to my database by creating a folder where store the file of the PHP script for running the web app.

To connect to my EC2 instance, I opened cmd on my Windows PC and then gave the SSH command to connect through an EC2 instance and to access .pem file. Yeah, that's it connected to the EC2.



# My Web App Upgrade



The screenshot shows a web browser window with the address bar displaying 'http://ec2-3-110-179-67.ap-south-1.compute.amazonaws.com/SamplePage.php'. The page title is 'Sample page'. Below the title, there is a form with two input fields labeled 'NAME' and 'ADDRESS', and an 'Add Data' button. Below the form, there is a table with the following data:

ID	NAME	ADDRESS
1	Snehith example	india example
2	Anas Taj	India, Hyderabad, Towlichowki

Next, I upgraded my web app by creating a PHP file that includes a connection to a database and then adding a basic front-end code to store the data of the user.



# Testing my Web App

To make sure my web app was working correctly, I downloaded the software "MySQL CLI" That lets us run the SQL queries in the command line. Which actually shows the data table as given in the Sample page.

```
ec2-user@ip-172-31-7-116:/va x + v
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 (0.003 sec)

MySQL [sample]> SELECT * FROM EMPLOYEES;
+-----+-----+-----+
| ID | NAME          | ADDRESS                |
+-----+-----+-----+
| 1  | Sneith example | India example          |
| 2  | Anas Taj       | India, Hyderabad, Towlichowki |
+-----+-----+-----+
2 rows in set (0.001 sec)

MySQL [sample]> |
```



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