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Connect a Web App to Amazon Aurora



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The screenshot shows a web browser window with the following details:

- Address Bar:** Not secure | ec2-34-224-41-253.compute-1.amazonaws.com/SamplePage.php
- Title:** Sample page
- Form Fields:** NAME (input field) and ADDRESS (input field). There is also an "Add Data" button.
- Table:** A data grid with columns ID, NAME, and ADDRESS. The data is as follows:

ID	NAME	ADDRESS
1	J.Yuvaraj	ongole
2	D.venky	ongole
3	K.santosh	vizag
4	K.venky	ongole

Introducing Today's Project!

What is Amazon Aurora?

Amazon Aurora is a relational database service. This means data is stored in rows and columns and Aurora specifically is great at handling performance and handling of data.

How I used Amazon Aurora in this project

We used Amazon Aurora to connect our web app! This means we could enter our data through browser (loading the web app) and see updates in the backend Aurora database.

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

We didn't expect that updating the database manually in the backend would still update the table in the frontend (i.e. the table that our web app was displaying).

This project took me...

This project took us nearly 3 hours to complete.

Creating a Web App

```
PS C:\Users\J YUVRAJ\OneDrive\Desktop> ssh -i NextWorkAuroraApp.pem ec2-user@ec2-34-224-41-253.compute-1.amazonaws.com
The authenticity of host 'ec2-34-224-41-253.compute-1.amazonaws.com (64:ff9b:22e0:29fd)' can't be established.
ED25519 key fingerprint is SHA256:lh0nawRAb989WlfY4L0kyaaov/qFLNk6W3mvzLoX4z8.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'ec2-34-224-41-253.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

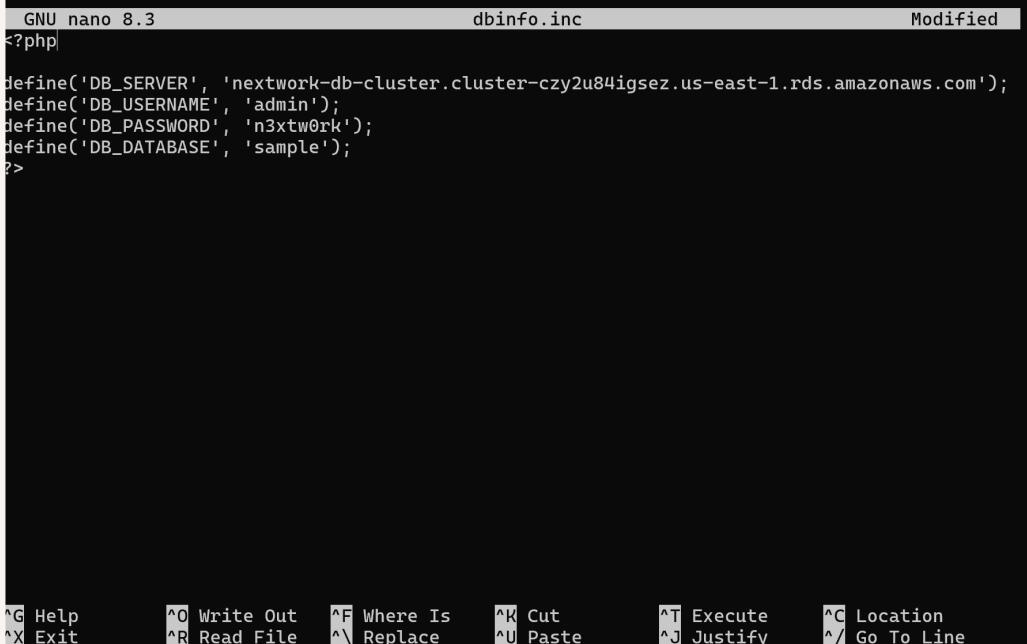
          _#
         /###\
        /####\
       /##\   Amazon Linux 2023
      /# \   https://aws.amazon.com/linux/amazon-linux-2023
     /#  \
    /#   \
   /#    \
  /#     \
 /#      \
/m/      [
[ec2-user@ip-172-31-26-42 ~]$
```

To connect to my EC2 instance, I used a keypair downloaded in my local computer and use the key pair details to ssh into the EC2 instance from my local computer terminal

To help me to create web app I first installed PHP mariadb Apache web server php mysql. These tools installed helped me to set up web serveer and the ability to my webapp and my Ec2 instance to interact with the database.

Connecting my Web App to Aurora

I setup my Ec2 connection details to my database by creating a new file called dbinfo.inc and storing our databse details e.g username ,endpoint,password,database name etc.The ec2 instance can refer to this file for connection details.

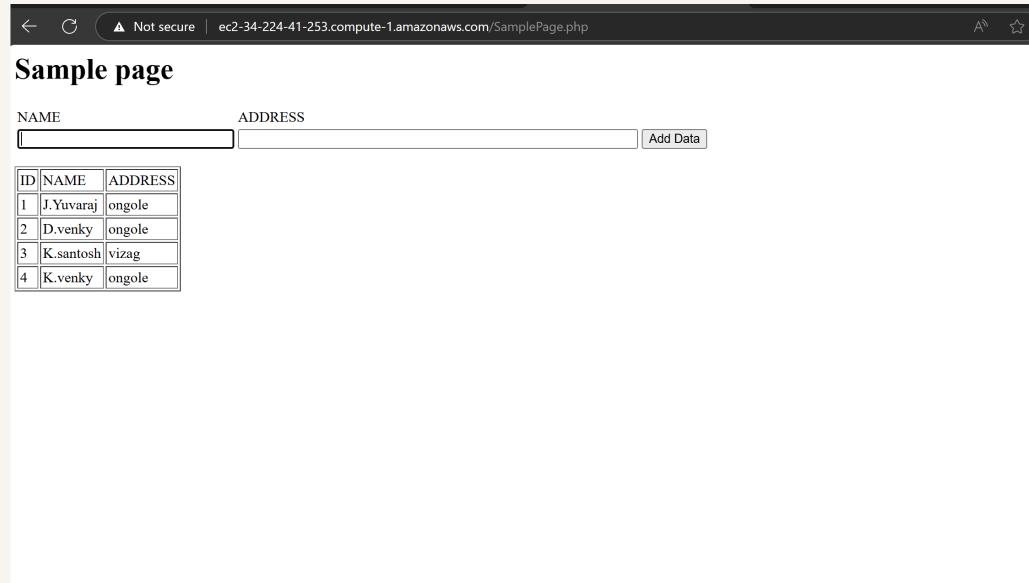


```
GNU nano 8.3          dbinfo.inc          Modified
<?php
define('DB_SERVER', 'nextwork-db-cluster.cluster-czy2u84igsez.us-east-1.rds.amazonaws.com');
define('DB_USERNAME', 'admin');
define('DB_PASSWORD', 'n3xtw0rk');
define('DB_DATABASE', 'sample');
?>
```

^G Help ^O Write Out ^F Where Is ^K Cut ^T Execute ^C Location
^X Exit ^R Read File ^\ Replace ^U Paste ^J Justify ^/ Go To Line

My Web App Upgrade

Next we upgraded our webapp by creating a new PHP file that includes connection to a database and light frontened framework that involves that involves submission form and a table.



Testing my Web App

To make sure my web app was working correctly, I downloaded a software(mysql cli) which lets us run sql queries that select all the data from a table in our database and verified that the table containing all user input through the webapp.

```
MySQL [sample]> SELECT * FROM EMPLOYEES;
+----+-----+-----+
| ID | NAME   | ADDRESS        |
+----+-----+-----+
| 1  | Joe    | nextwork.org   |
| 2  | Vegeta | SamplePage.php|
+----+-----+-----+
2 rows in set (0.001 sec)

MySQL [sample]> █
```



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