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# Connect a Web App to Amazon Aurora



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The screenshot shows the 'Create database' step in the AWS RDS console. In the 'Engine type' section, 'Aurora (MySQL Compatible)' is selected. Other options shown include Aurora (PostgreSQL Compatible), MySQL, PostgreSQL, MariaDB, Oracle, Microsoft SQL Server, and IBM Db2. In the 'Engine version' dropdown, 'Aurora MySQL 3.08.2 (compatible with MySQL 8.0.39)' is chosen. A note about 'Enable RDS Extended Support' is present. The 'Templates' section allows choosing between 'Production' and 'Dev/Test', with 'Dev/Test' being selected. At the bottom, there are links for CloudShell, Feedback, and Console Mobile App, along with copyright and legal information.

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# Introducing Today's Project!

## What is Amazon Aurora?

Amazon Aurora is AWS's souped-up version of MySQL and PostgreSQL that handles all the annoying database maintenance stuff automatically, and it is useful because it's way faster than regular MySQL or PostgreSQL (like 3-5x faster), automatically backs up your data, spreads it across multiple locations so it doesn't go down, and scales without you having to mess with it - basically giving you enterprise-level database performance without the enterprise-level headache.

## How I used Amazon Aurora in this project

In today's project, I used Amazon Aurora to connect to an EC2 instance so I can pull data from it in the future.

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

One thing I didn't expect in this project was how many settings there would be in the process of setting up a relational database.

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This project took me...

This project took me about 30 minutes to complete.

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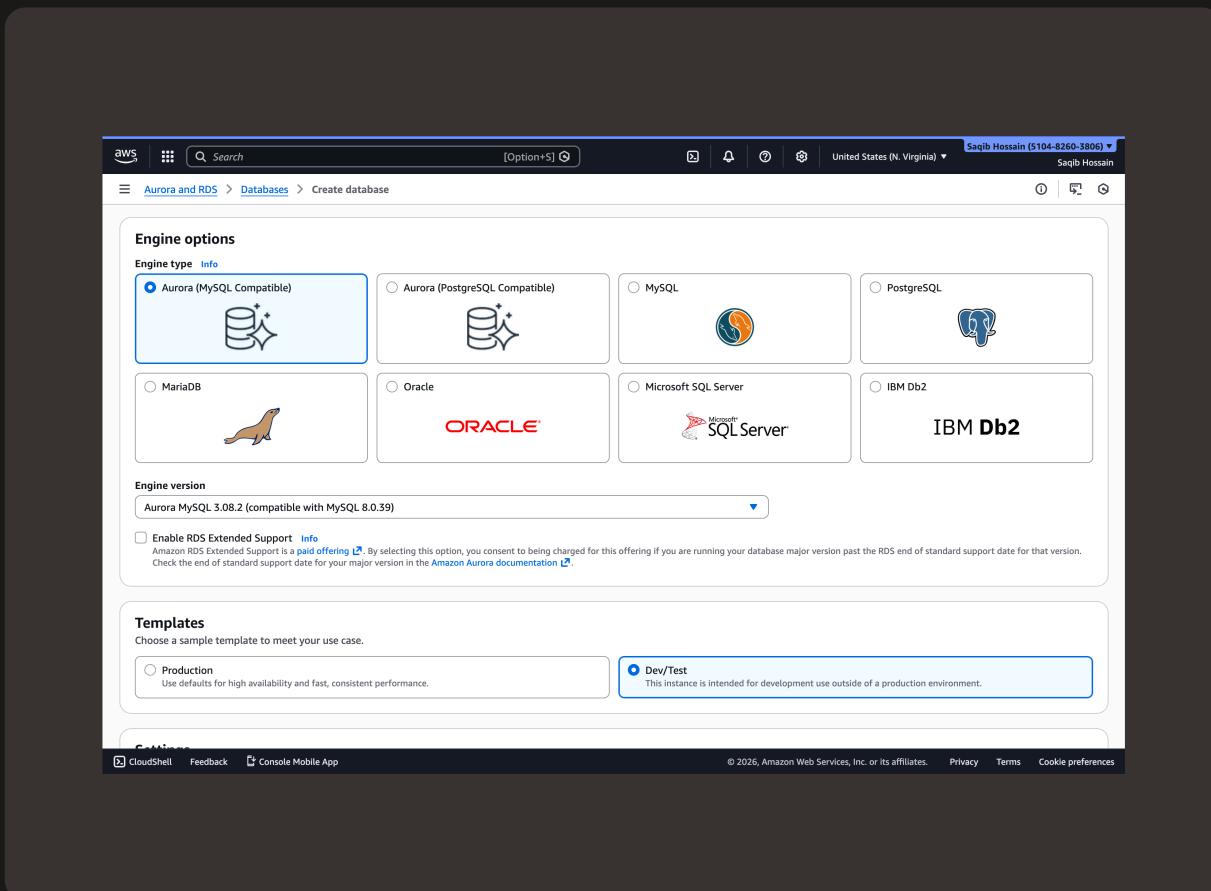
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# In the first part of my project...

## Creating an Aurora Cluster

A relational database is a database made of rows and columns, basically a spreadsheet, that can be queried using SQL.

Aurora is a good choice when you have large scale database needs, since it uses clusters, whereas MySQL and Oracle are better for smaller scale databases.



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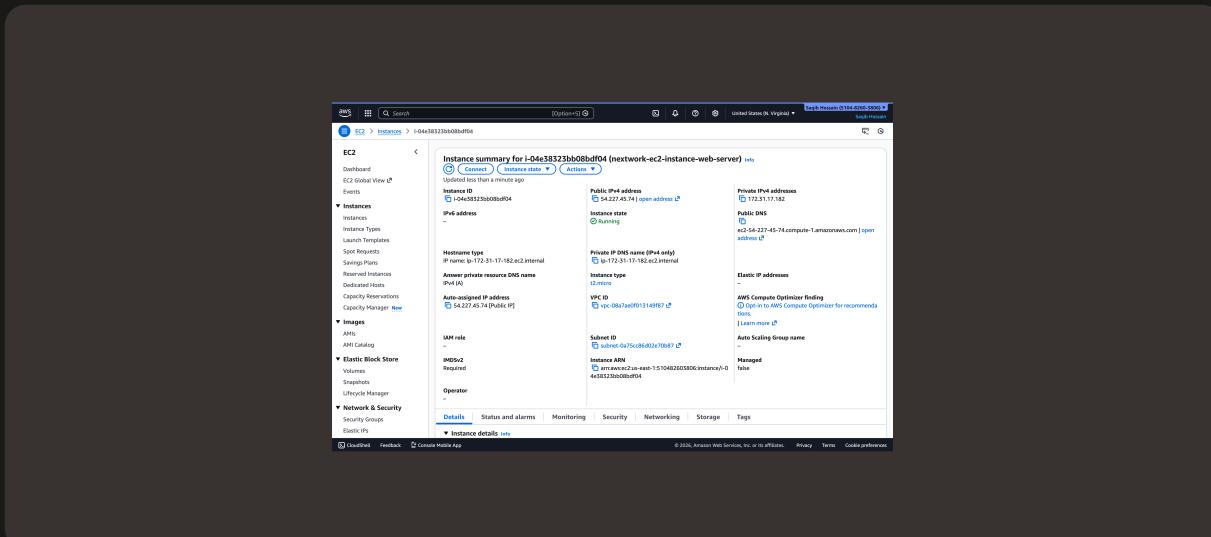
# Halfway through I stopped!

I stopped creating my Aurora database because I need to first create my EC2 instance that the database will connect to.

## Features of my EC2 instance

I created a new key pair for my EC2 instance because this provides me with a secure way of connecting with my EC2 instance. This will also keep out anyone not authorized to view my instance.

When I created my EC2 instance, I took particular note of the public IPv4 address because this is essentially the address of my instance on the open internet.

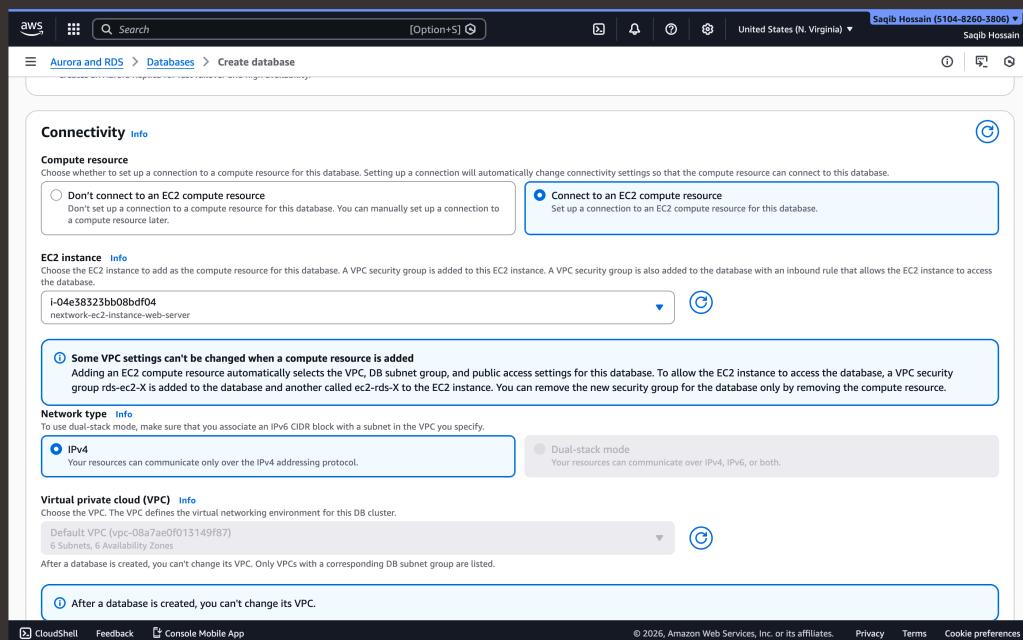


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# Then I could finish setting up my database



Aurora Database uses clusters because clusters can handle larger workloads without failing or slowing down.



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