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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. At the top, there's a breadcrumb navigation: [Aurora and RDS](#) > Create database. Below it, the title 'Create database' has an 'Info' link. The first section, 'Choose a database creation method', contains two options: 'Standard create' (selected) and 'Easy create'. 'Standard create' is described as setting all configuration options, including availability, security, backups, and maintenance. 'Easy create' uses recommended best-practice configurations. The second section, 'Engine options', shows four engine types: 'Aurora (MySQL Compatible)' (selected), 'Aurora (PostgreSQL Compatible)', 'MySQL', and 'PostgreSQL'. Each option has a small icon: MySQL shows a globe and a bar chart, Aurora MySQL shows a stack of cylinders with stars, Aurora PostgreSQL shows a stack of cylinders with a starburst, and PostgreSQL shows a hand pointing at a brain.

Introducing Today's Project!

What is Amazon Aurora?

Amazon Aurora is an AWS relational database service that is best suited for large-scale databases that require high performance and uptime.

How I used Amazon Aurora in this project

I used Amazon Aurora in this project by creating an Amazon Aurora database, setting up an EC2 instance separately, and connecting that Aurora databases to the EC2 instance (web server).

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

I had to create the EC2 instance first before finishing setting up the Amazon Aurora database.

This project took me...

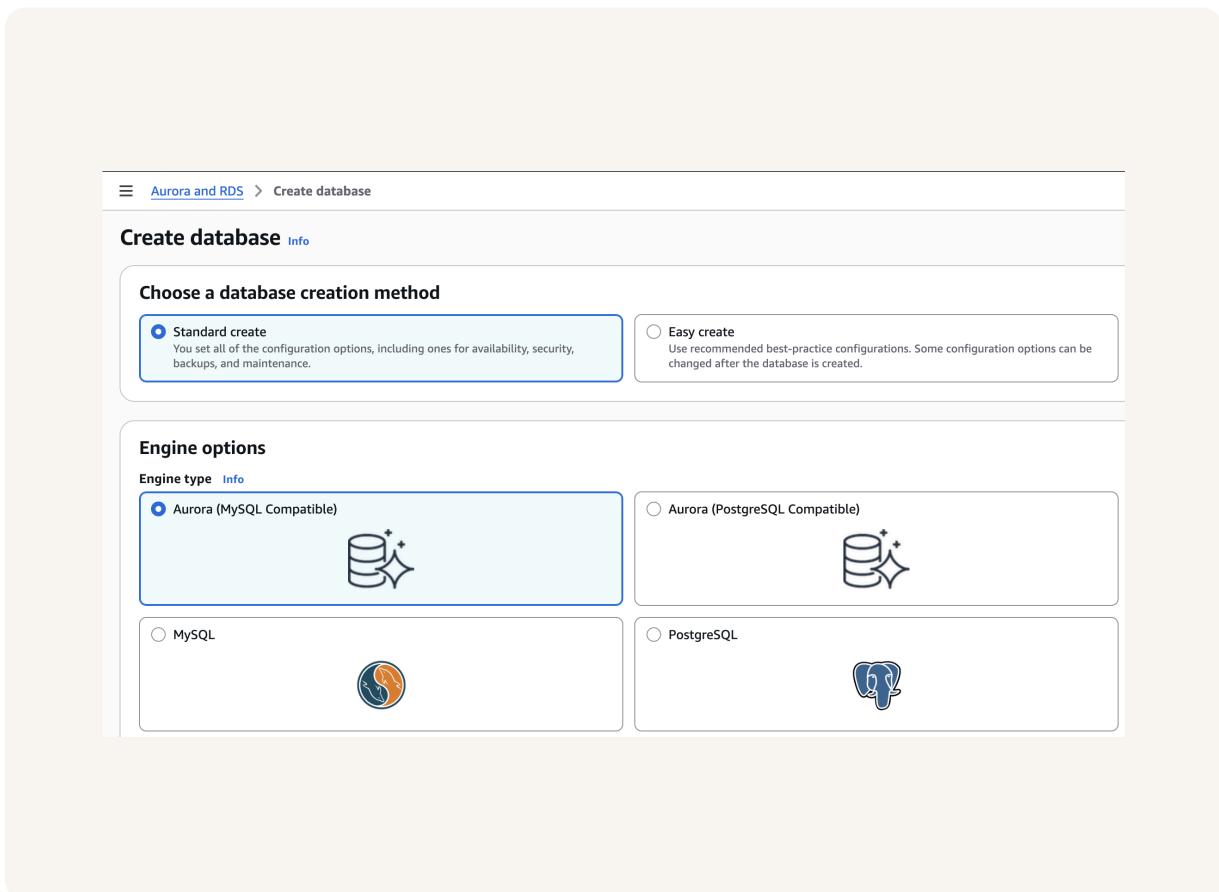
This took me 30 mins to complete.

In the first part of my project...

Creating an Aurora Cluster

A relational database is a type of database that organizes data into tables, which are collections of rows and columns.

Aurora is a good choice when there are high performance and uptime requirements for a large-scale relational database.



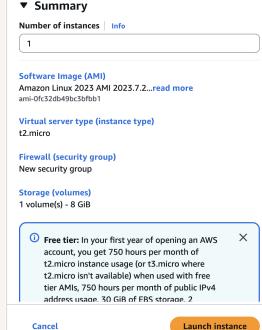
Halfway through I stopped!

I stopped creating my Aurora database because I needed to connect this database to an EC2 instance. I will need to set up that EC2 instance first before completing the database setup.

Features of my EC2 instance

I created a new key pair for my EC2 instance because it will help secure my EC2 instance and give me direct access to my EC2 instance so that I can configure it and create a web app + connect it to my Aurora database.

When I created my EC2 instance, I took particular note of the EC2 instance's IPV4 DNS and the key pair name. These two work together to inform me of the location of the EC2 instance (i.e. web server) and the keys that will give me access to it.



Then I could finish setting up my database

The screenshot shows the 'Connectivity' section of the Aurora Database setup. It includes two options: 'Don't connect to an EC2 compute resource' (unchecked) and 'Connect to an EC2 compute resource' (checked). Below this is the 'EC2 instance' section, which lists 'i-0a96019e74fc04151 nextwork-ec2-instance-web-server'.

Connectivity [Info](#) [G](#)

Compute resource
Choose whether to set up a connection to a compute resource for this database. Setting up a connection will automatically change connectivity settings so that the compute resource can connect to this database.

Don't connect to an EC2 compute resource
Don't set up a connection to a compute resource for this database. You can manually set up a connection to a compute resource later.

Connect to an EC2 compute resource
Set up a connection to an EC2 compute resource for this database.

EC2 instance [Info](#) [G](#)

Choose the EC2 instance to add as the compute resource for this database. A VPC security group is added to this EC2 instance. A VPC security group is also added to the database with an inbound rule that allows the EC2 instance to access the database.

i-0a96019e74fc04151 [▼](#) [G](#)
nextwork-ec2-instance-web-server

Aurora Database uses clusters because this enables high availability. Clusters mean there are multiple copies of the same database. So that if the primary instance fails, there are backups (read replicas) that would still be available or in operation



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