



Connect a Web App to Amazon Aurora

Y

YOUHAD AYOUB

Choose a database creation method

Full configuration
You set all of the configuration options, including ones for availability, security, backups, and maintenance.

Easy create
Use recommended best-practice configurations. Some configuration options can be changed after the database is created.

Engine options

Engine type [Info](#)

<input checked="" type="radio"/> Aurora (MySQL Compatible) 	<input type="radio"/> Aurora (PostgreSQL Compatible) 	<input type="radio"/> MySQL 	<input type="radio"/> PostgreSQL 
<input type="radio"/> MariaDB 	<input type="radio"/> Oracle 	<input type="radio"/> Microsoft SQL Server 	<input type="radio"/> IBM Db2 

Engine version
Aurora MySQL 3.10.3 (compatible with MySQL 8.0.42) - default for major version 8.0

Enable RDS Extended Support [Info](#)
Amazon RDS Extended Support is a paid offering. By selecting this option, you consent to being charged for this offering if you are running your database major version past the RDS end of standard support date for that version. Check the end of standard support date for your major version in the [Amazon Aurora documentation](#).

Templates
Choose a sample template to meet your use case.

<input type="radio"/> Production Use defaults for high availability and fast, consistent performance.	<input checked="" type="radio"/> Dev/Test This instance is intended for development use outside of a production environment.
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Introducing Today's Project!

What is Amazon Aurora?

Amazon Aurora is a cloud database service by AWS that is fast, secure, and highly available. It is useful because it automatically creates backups, replicates data across multiple servers, supports high workloads and uptime, and can quickly recover from failures, ensuring reliable and scalable performance.

How I used Amazon Aurora in this project

In today's project, I used Amazon Aurora to connect to a web app hosted on an EC2 instance.

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

One thing I didn't expect in this project was that, to delete the database, I first needed to delete the instance. The second thing is that Aurora is a cluster-based database, not a single database.



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YOUHAD AYOUB
NextWork Student

nextwork.org

This project took me...

15 min



In the first part of my project...

Creating an Aurora Cluster

A relational database is a type of database that organizes data into tables, made up of rows and columns.

Aurora is a good choice when you need a large-scale database with high performance and strong uptime, because it uses clustered architecture for better reliability and scalability.



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Dev/Test
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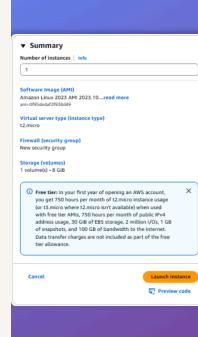
Halfway through I stopped!

I stopped creating my Aurora database because I first need an EC2 instance that hosts a web application and connects to this database.

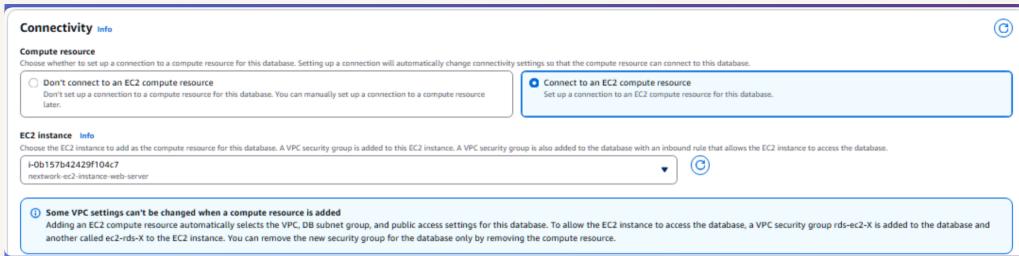
Features of my EC2 instance

I created a new key pair for my EC2 instance to securely access it whenever we want to add, change, or update how the instance is running.

The important details of your EC2 instance are the Public IPv4 DNS and the Key pair name. The Public IPv4 DNS is like the address of the instance—it tells you where to connect. The Key pair name provides the secure key needed to access it. Both are essential because i need the address to reach the instance and the key to log in safely.



Then I could finish setting up my database



Aurora Database uses clusters made up of multiple copies that work together to ensure your data is always available. Each cluster consists of a primary instance, where all write operations occur, and multiple read replicas that act as backups. If the primary instance fails, one of the replicas is automatically promoted to become the new primary.



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