



# Connect a Web App to Amazon Aurora



Sanjana Tripathy

Create database [Info](#)

Choose a database creation method

Standard create 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 3.0S.2 (compatible with MySQL 8.0.32)

Enable RDS Extended Support [Info](#)  
Amazon Aurora supports a new 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.

Production Use defaults for high availability and fast, consistent performance.

Dev/Test This instance is intended for development use outside of a production environment.

A circular profile picture of a young woman with dark hair, wearing a pink top and blue pants, sitting on a blue chair.

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# Introducing Today's Project!

## What is Amazon Aurora?

Amazon Aurora is a fully managed relational database service built for high performance, availability, and scalability. It's useful because it combines the speed of high-end databases with the simplicity and cost-effectiveness of open-source engines.

## How I used Amazon Aurora in this project

In today's project, I used Amazon Aurora to create a scalable and secure relational database cluster, then connected it to an EC2 instance. This setup helps manage and store web app data efficiently using Aurora's high performance and availability.

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

One thing I didn't expect in this project was how fun and exciting it would be to explore Amazon Aurora. Learning about its core concepts like clusters, endpoints, and reader/writer instances made the experience both engaging and insightful.



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## This project took me...

For this project, it took me almost 2 hour.

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# In the first part of my project...

## Creating an Aurora Cluster

A relational database organizes data into structured tables consisting of rows and columns. This tabular format allows for efficient storage, retrieval, and management of related data using SQL (Structured Query Language).

Amazon Aurora is engineered for mission-critical workloads, offering massive scalability up to 128TB and sustained high throughput. It delivers the peak performance and availability needed to power your most demanding, large-scale applications.



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**Engine options**

**Engine type** Info

Aurora (MySQL Compatible)

Aurora (PostgreSQL Compatible)

MySQL

PostgreSQL

MariaDB

Oracle

Microsoft SQL Server

IBM Db2

**Engine version**

Aurora MySQL 3.05.2 (compatible with MySQL 8.0.52)

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**  
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Production  
Use defaults for high availability and fast, consistent performance.

Dev/Test  
This instance is intended for development use outside of a production environment.

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# Halfway through I stopped!

I paused the creation of my Aurora database because, under the connectivity section, I selected "Connect to an EC2 compute resource." This requires an EC2 instance, which I haven't set up yet. I'll resume once the instance is created.

## Features of my EC2 instance

I created a new key pair for my EC2 instance because it acts as the secure login credentials required to access the virtual machine. This key pair ensures encrypted SSH access, allowing me to securely connect and manage the instance during the project.

When I created my EC2 instance, I took particular note of the Public IPv4 DNS, which acts as the address to access the instance, and the Key pair name, which is essential for secure login. Both are critical for connecting and managing the instance.



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▼ Summary

Number of instances [Info](#)

Software image (AMI)  
Amazon Linux 2023 AMI 2023.8.2... [read more](#)  
[ami-0d0f0f0f0f0f0f0f0](#)

Virtual server type (instance type)  
t2.micro

Firewall (security group)  
New security group

Storage (volumes)  
1 volume(s) - 8 GiB

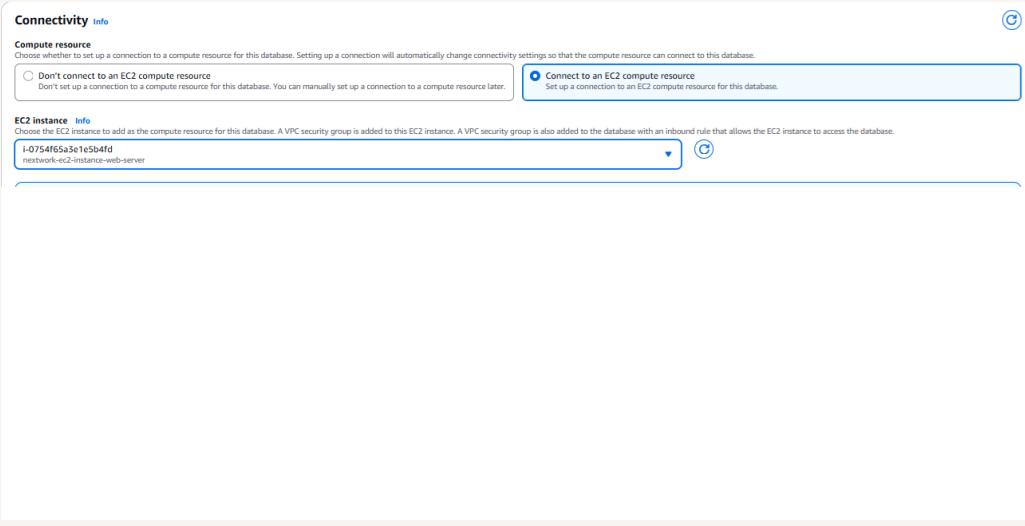
free tier! In your first year of opening an AWS account,  
you get 720 hours per month of t2.micro instance usage  
(or t3.micro where t2.micro isn't available) when used with  
the AWS Lambda service. You also get 100 free IP address  
usage, 30 GB of EBS storage, 2 million VQLs, 1 GB of  
snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#) [Launch instance](#) [Preview code](#)

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# Then I could finish setting up my database



Aurora uses clusters for maximum resilience and speed. A primary writer instance is paired with read replicas that provide automatic failover for high availability and scale performance by distributing the read workload, keeping your application fast.



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