



Connect a Web App to Amazon Aurora

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Connectivity [Info](#) [C](#)

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](#)
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-0ad8b6520838659b5
nextwork-ec2-instance-web-server [▼](#) [C](#)

Some VPC settings can't be changed when a compute resource is added
Adding an EC2 compute resource automatically selects the VPC, DB subnet group, and public access settings for this database. To allow the EC2 instance to access the database, a VPC security group rds-ec2-X is added to the database and another called ec2-rds-X to the EC2 instance. You can remove the new security group for the database only by removing the compute resource.

Network type [Info](#)
To use dual-stack mode, make sure that you associate an IPv6 CIDR block with a subnet in the VPC you specify.

IPv4
Your resources can communicate only over the IPv4 addressing protocol.

Dual-stack mode
Your resources can communicate over IPv4, IPv6, or both.

Virtual private cloud (VPC) [Info](#)
Choose the VPC. The VPC defines the virtual networking environment for this DB cluster.

Default VPC (vpc-0a4c28603f48a4789) [▼](#)

Introducing Today's Project!

What is Amazon Aurora?

Amazon Aurora is a fast, fully managed relational database service. It is highly available, scalable, and compatible with MySQL and PostgreSQL, providing high performance at a lower cost than traditional databases.

How I used Amazon Aurora in this project

I used Amazon Aurora in today's project to set up a relational database, ensuring scalable and high-performance data storage. I connected it to an EC2 instance to enable efficient data handling for my web application.

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

I didn't expect how detailed the Aurora cluster setup would be, especially with security settings and integration with EC2. It required more attention than I anticipated but provided valuable hands-on experience in database management.

This project took me...

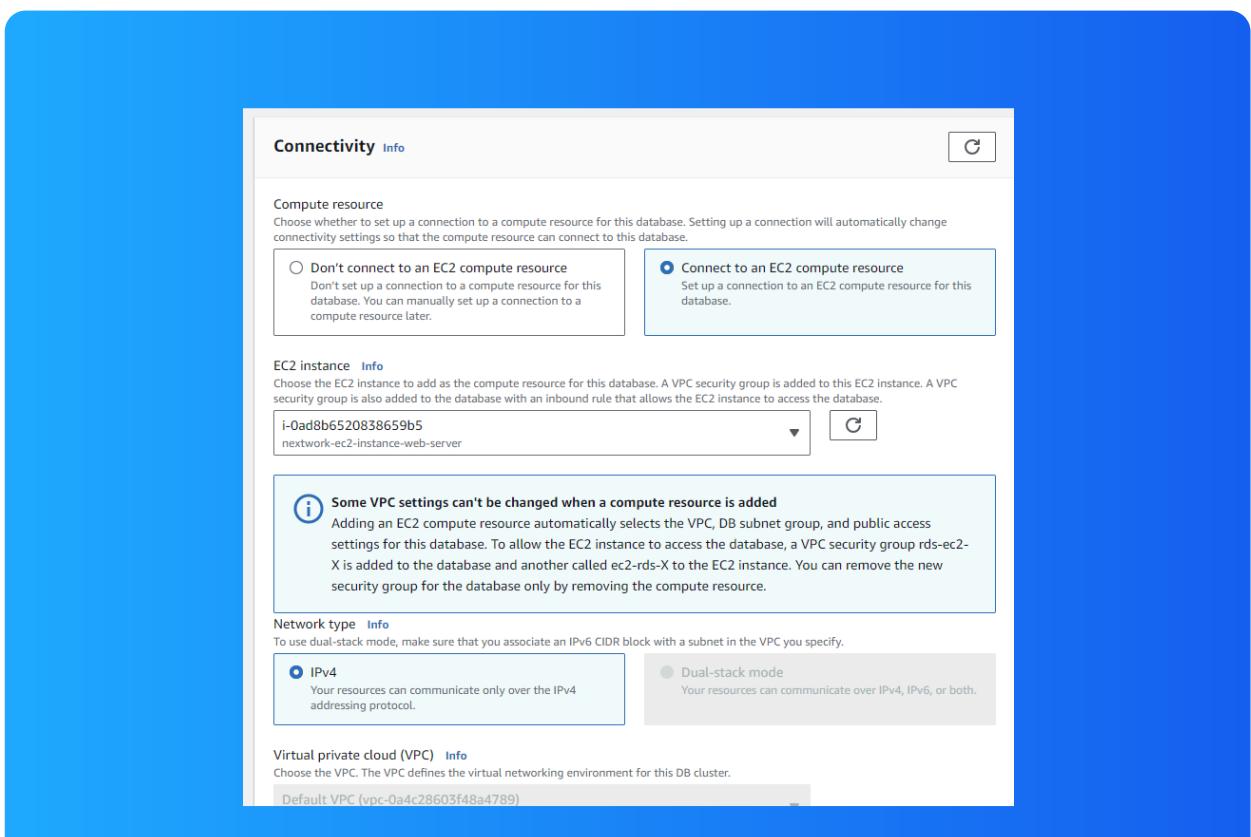
This project took me about 3 hours to complete. It involved setting up the Aurora database, configuring EC2 integration, and ensuring everything was properly connected, which took time to troubleshoot and verify all components worked smoothly.

In the first part of my project...

Creating an Aurora Cluster

A relational database is a structured system for storing data in tables, with each table consisting of rows and columns. It uses SQL for querying and organizing data, and tables can be linked through relationships like primary and foreign keys.

Aurora is a good choice when you need a scalable, high-performance relational database with minimal management. It's compatible with MySQL/PostgreSQL and offers high availability, making it ideal for growing web apps.



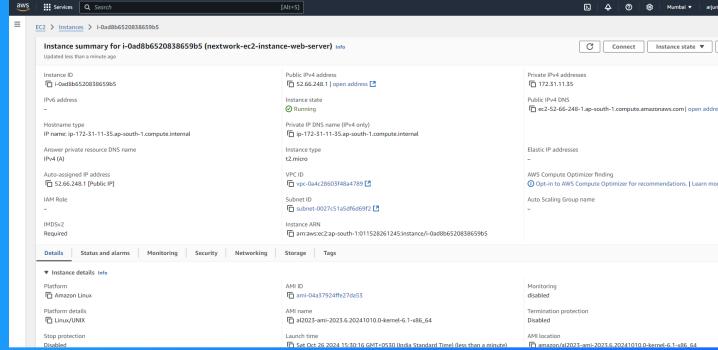
Halfway through I stopped!

I stopped creating my Aurora database because I faced network configuration issues, particularly with VPC and security group settings, which were necessary for secure communication between the Aurora database and my EC2 instance.

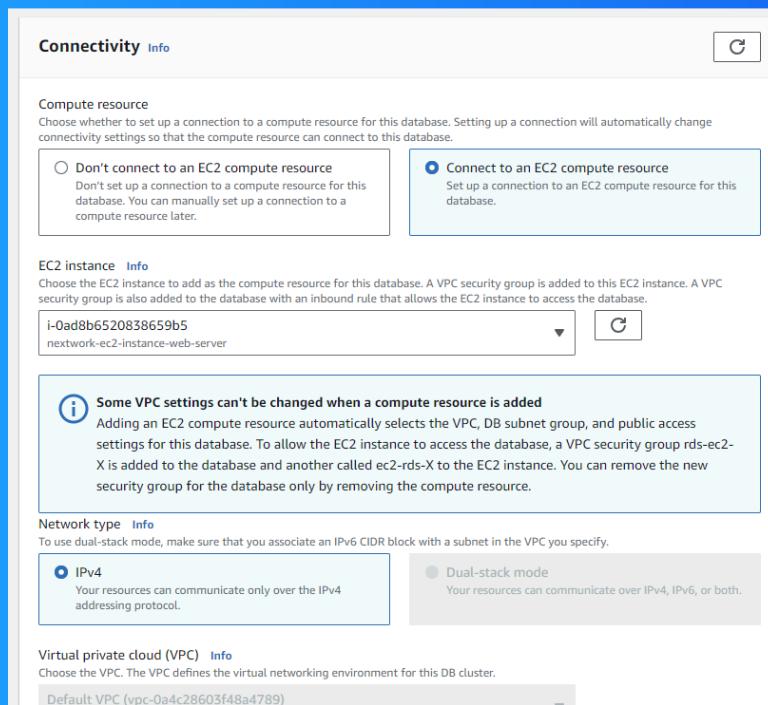
Features of my EC2 instance

I created a new key pair for my EC2 instance because it is required for securely accessing the instance via SSH. The key pair ensures that only authorized users can connect to the EC2 instance without compromising security.

When I created my EC2 instance, I noted the instance type for performance, key pair for secure access, security group to manage traffic, and default VPC/subnet for connectivity—ensuring functionality and security.



Then I could finish setting up my database



Aurora Database uses clusters because they offer high availability and scalability. Clusters have a primary instance for writes and up to 15 read replicas, improving performance and fault tolerance across multiple availability zones (AZs).



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