



Aurora Database with EC2



Saish Nar

Choose a database creation method [Info](#)

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"/> MariaDB
<input type="radio"/> PostgreSQL 	<input type="radio"/> Oracle
<input type="radio"/> Microsoft SQL Server 	<input type="radio"/> IBM Db2

Engine Version

Aurora MySQL 3.05.2 (compatible with MySQL 8.0.32) - default for major version 8.0



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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 today's project by creating an Amazon Aurora database, setting up an EC2 instance (web server) separately, and then connecting that Aurora database to my EC2 instance.

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

One thing I didn't expect was that i had to create my EC2 instance first before finishing setting up my Amazon Aurora database.

This project took me...

This project took me one hour to complete.



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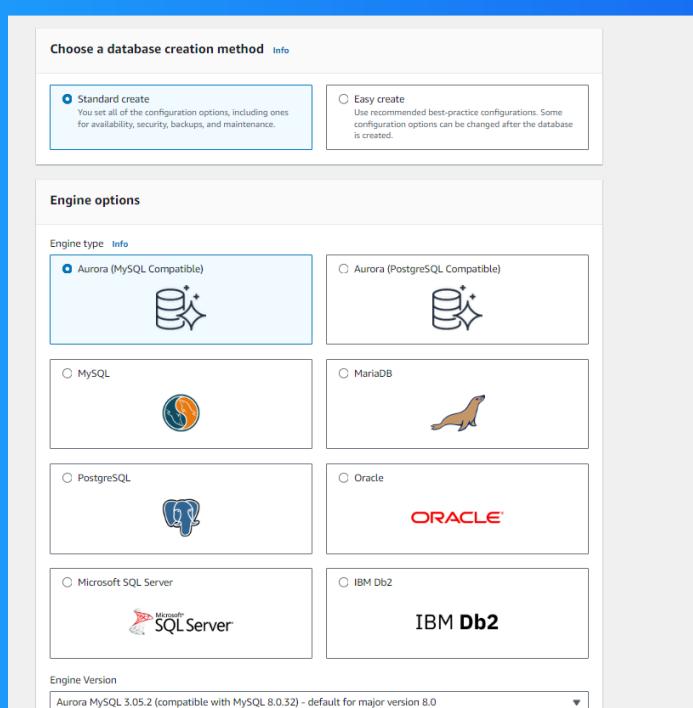
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In the first part of my project...

Creating an Aurora Cluster

A relational database is a type of database that organises its data in rows and columns. Relational databases are often compared to spreadsheets and tables.

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





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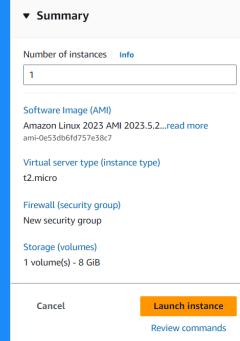
Halfway through I stopped!

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

Features of my EC2 instance

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

When I created my EC2 instance, I took particular note of the EC2 instance's IPv4 DNS and key pair name. These two work together to inform me the location of the EC2 instance (i.e. my web server) and the keys that will give me access to it.

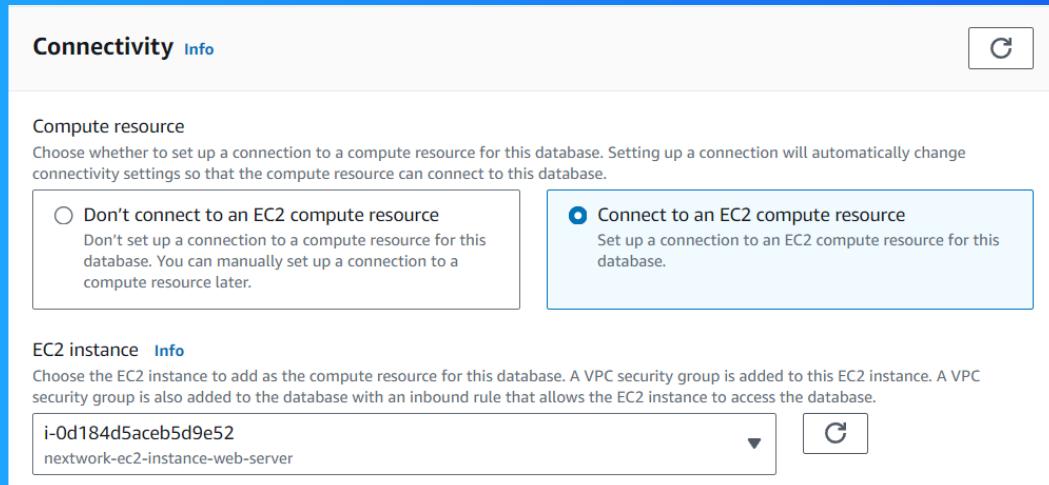




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Then I could finish setting up my database



The screenshot shows the 'Connectivity' configuration step in the AWS Aurora Database setup wizard. It includes sections for 'Compute resource' and 'EC2 instance' selection.

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:
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-0d184d5aceb5d9e52
nextwork-ec2-instance-web-server

Aurora Database uses clusters because Each cluster consists of a primary instance (all write operations) and multiple read replicas as back-ups. If your database's primary instance fails, one of the replicas can be promoted to primary automatically.



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