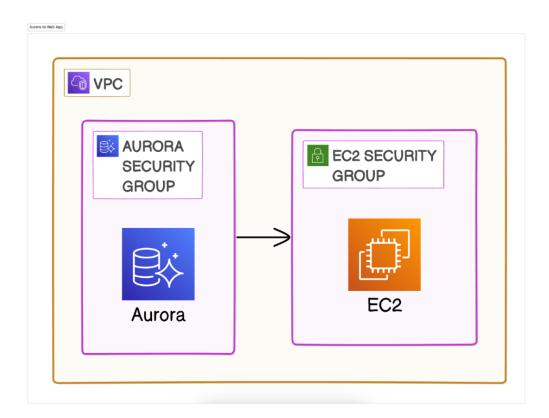
Connect a Web App to Amazon Aurora



Introducing Today's Project!

What is Amazon Aurora?

Amazon Aurora is a fully managed relational database compatible with MySQL and PostgreSQL. It provides high performance, scalability, automatic backups, and strong security, making it ideal for cloud applications with demanding workloads.

How I used Amazon Aurora in this project

In today's project, I used Aurora to set up a high-performance, scalable relational database. Its compatibility with MySQL, automatic backups, and strong security features allowed efficient data management and quick scaling to meet growing demands.

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

One thing I didn't expect in this project was how quickly the database scaling happened with Aurora. The automatic scaling feature handled increased traffic seamlessly without any manual intervention, making it much easier to manage.

This project took me...

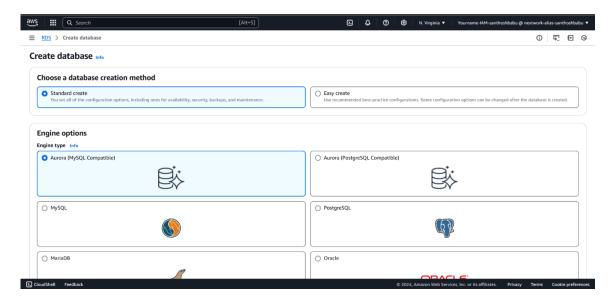
This project took me just half an hour to complete.

In the first part of my project...

Creating an Aurora Cluster

A relational database stores data in tables with rows and columns. Tables are linked using keys to establish relationships between data. SQL is used to manage, query, and update data, ensuring consistency, flexibility, and efficient data handling.

Aurora is a good choice when you need a high-performance, scalable relational database with automatic backups, fault tolerance, and low latency. It supports MySQL and PostgreSQL, offering strong security and seamless integration for large workloads.



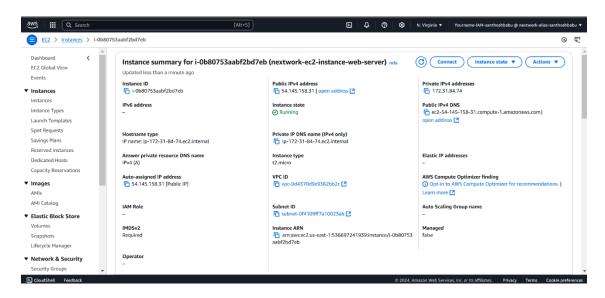
Halfway through I stopped!

I stopped creating my Aurora database because we haven't even created an EC2 instance yet. Without the proper infrastructure in place, such as an EC2 instance to connect to the database, it wouldn't be possible to set up or effectively use Aurora.

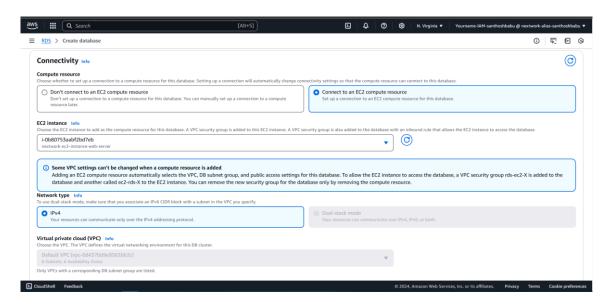
Features of my EC2 instance

I created a new key pair for my EC2 instance because it's required for securely accessing the instance via SSH. The key pair ensures that only authorized users can connect to the instance, providing an extra layer of security.

When I created my EC2 instance, I took note of the number of instances, OS type, virtual server type, firewall settings, and storage. These factors impact performance, security, compatibility, and data management for my applications.



Then I could finish setting up my database



Aurora Database uses clusters because they offer high availability, fault tolerance, and automatic scaling. Clusters distribute data across multiple nodes, ensuring continuous performance, quick recovery, and seamless load balancing for reliability.

Today you've learnt how to:

- Create an Aurora MySQL Database: You created an Aurora MySQL database instance from scratch in AWS, configured it with the appropriate settings, and connected it to an EC2 instance to prepare for hosting a web application.
- Launch and Configure an EC2 Instance: You successfully launched an EC2 instance using the Amazon Linux 2023 AMI, configured the instance to connect to your Aurora database, and set up the necessary security groups to allow traffic.