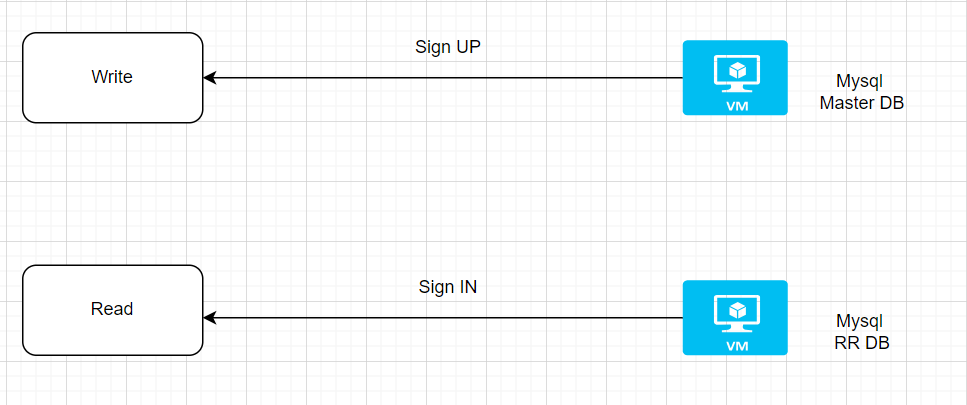
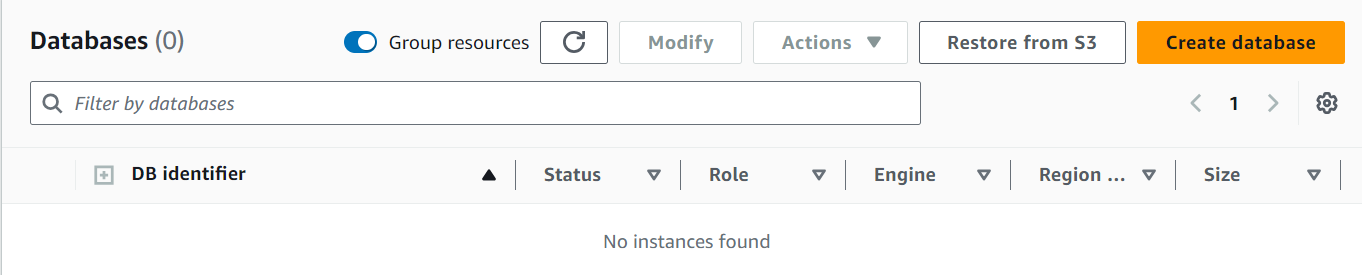
**RDS Definition:**

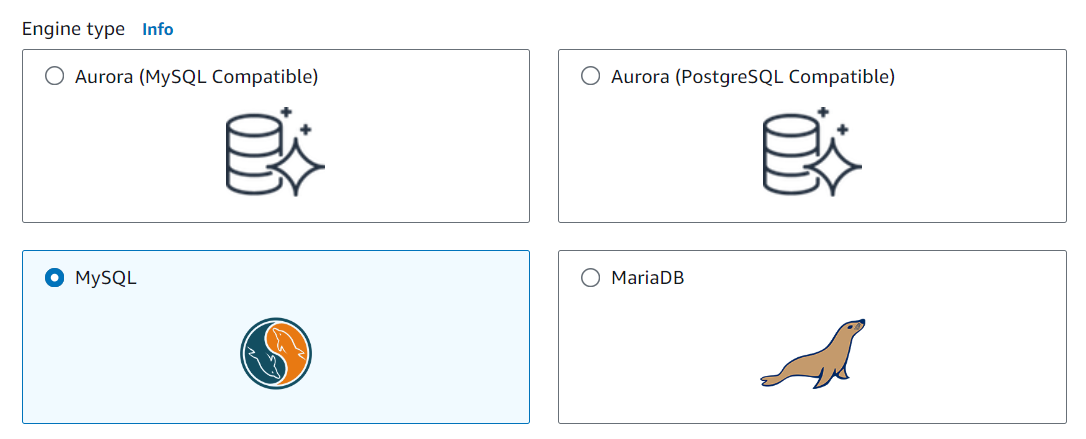
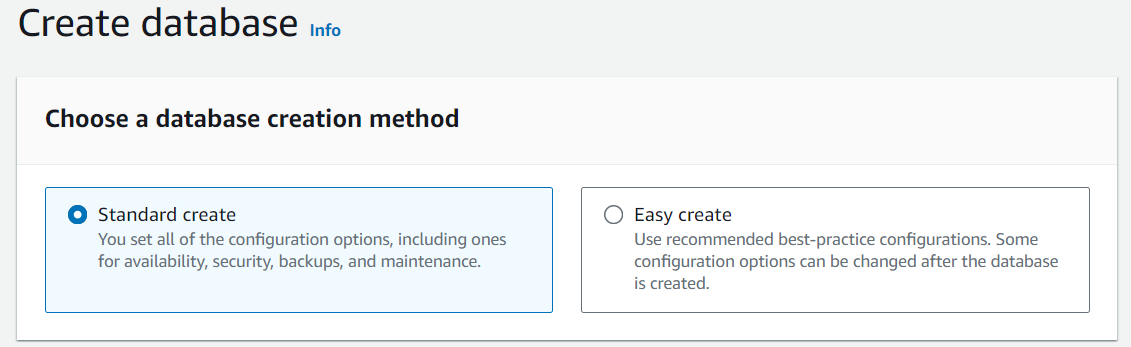
* Amazon RDS **(Relational Database Service)** is a managed service in **AWS** that makes it easy to set up, operate, and scale relational databases in the cloud.
* It supports multiple database engines such as **MySQL, PostgreSQL, SQL Server, Oracle, and MariaDB,** automating tasks like backups, patching, and scaling.

**Flow Chart:**

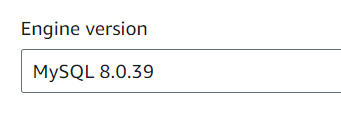


**Go here to create the Data base**

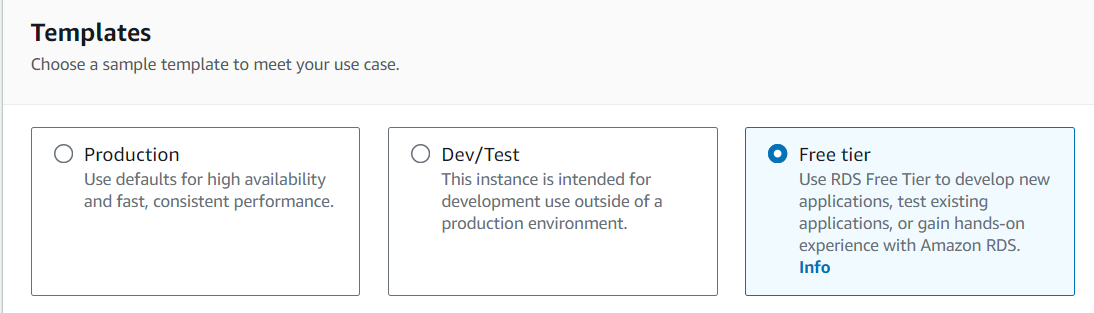
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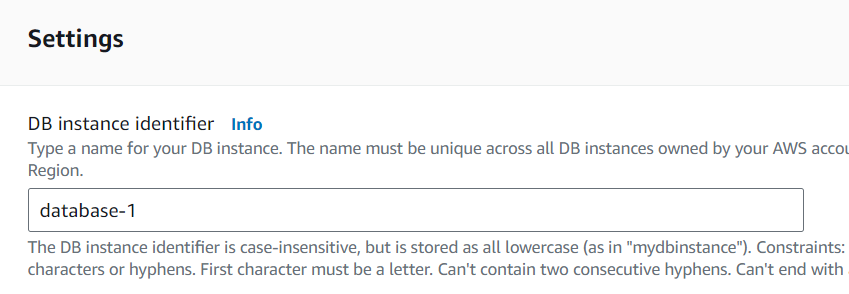
And select the engine version

****

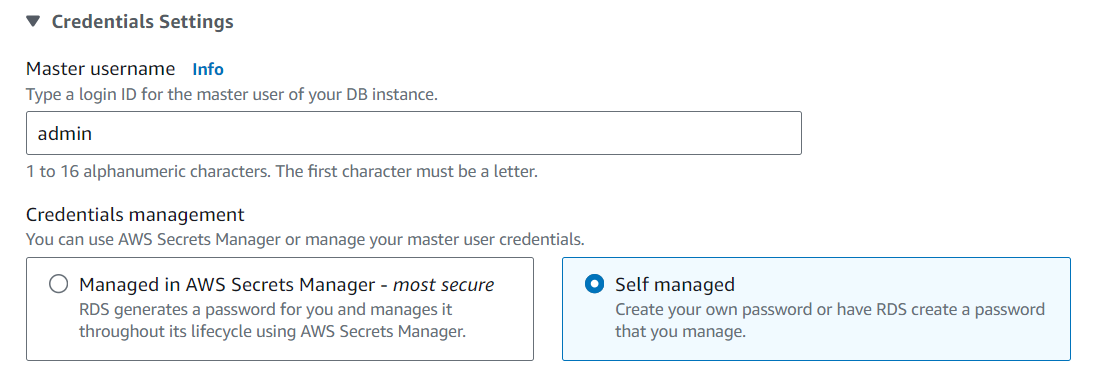
Click the template

****

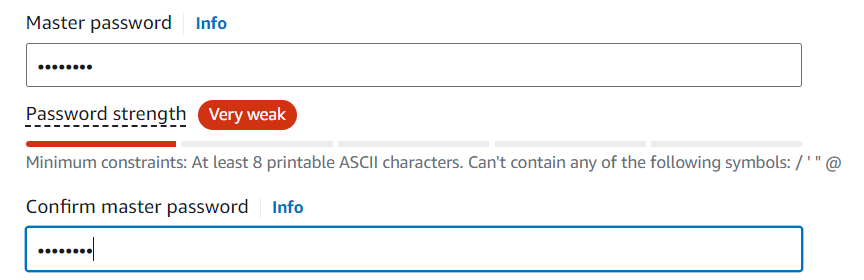
Date Base Instance Name

****

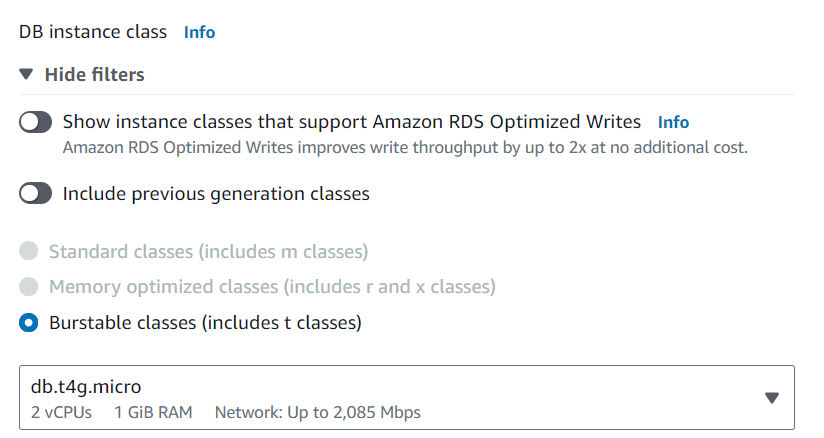
Credentials setting modify it

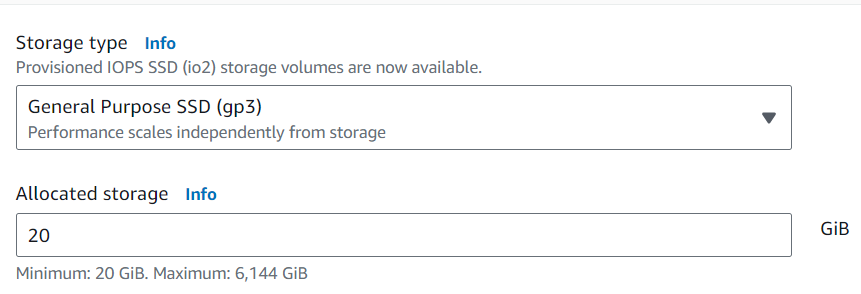
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Go here set the password

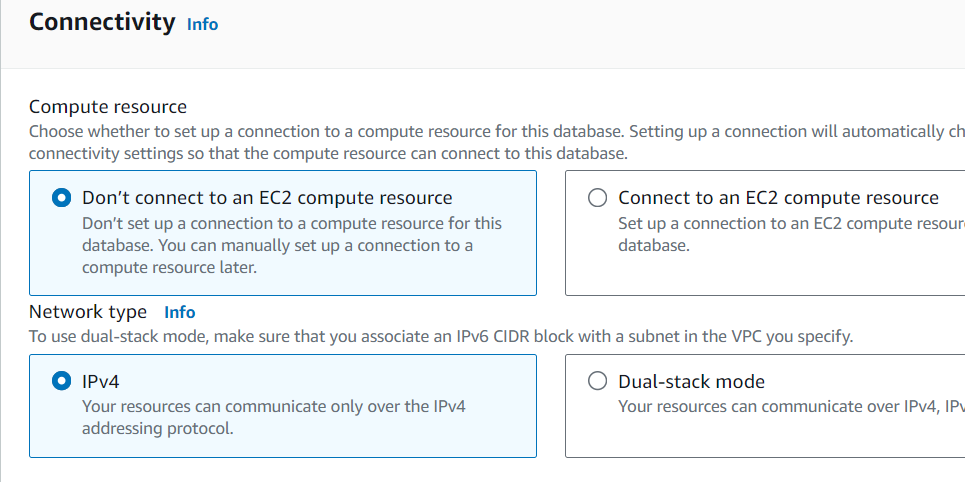
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Instance Configuration

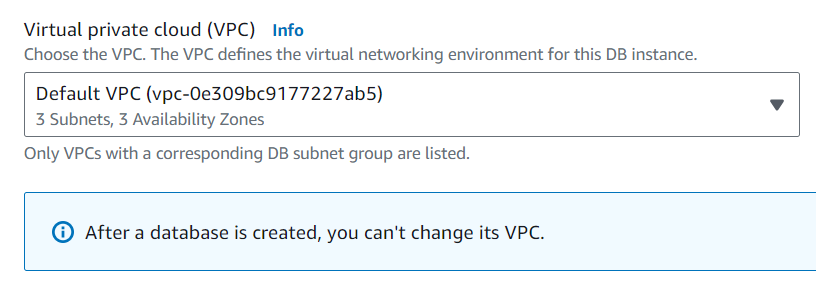
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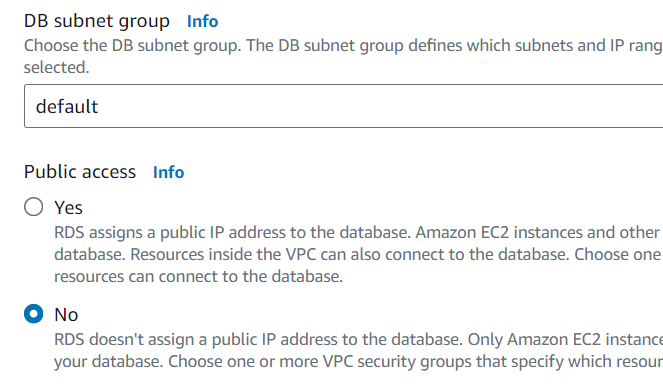
Connectivity info

****

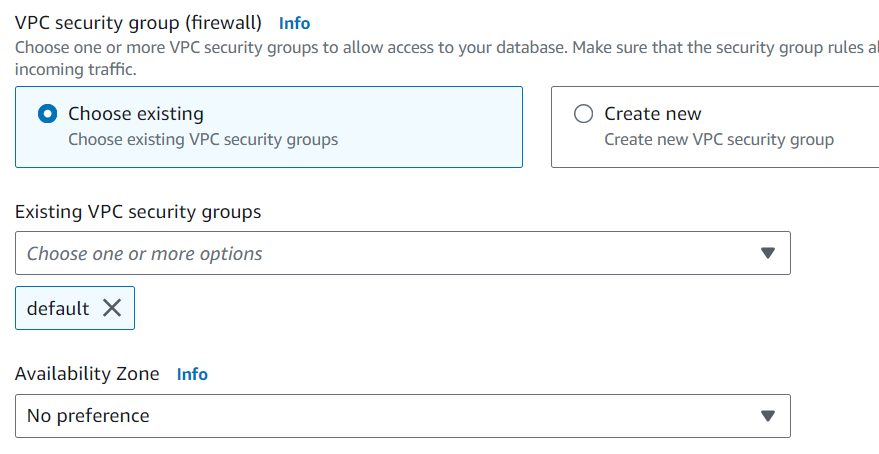
And click the vpc

****

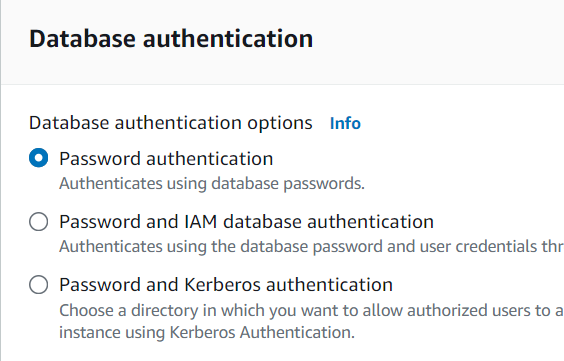
Subnet

****

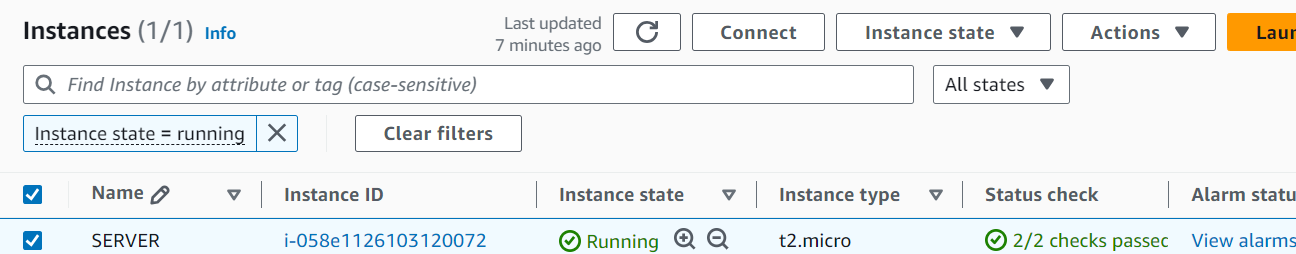
And vpc security

****

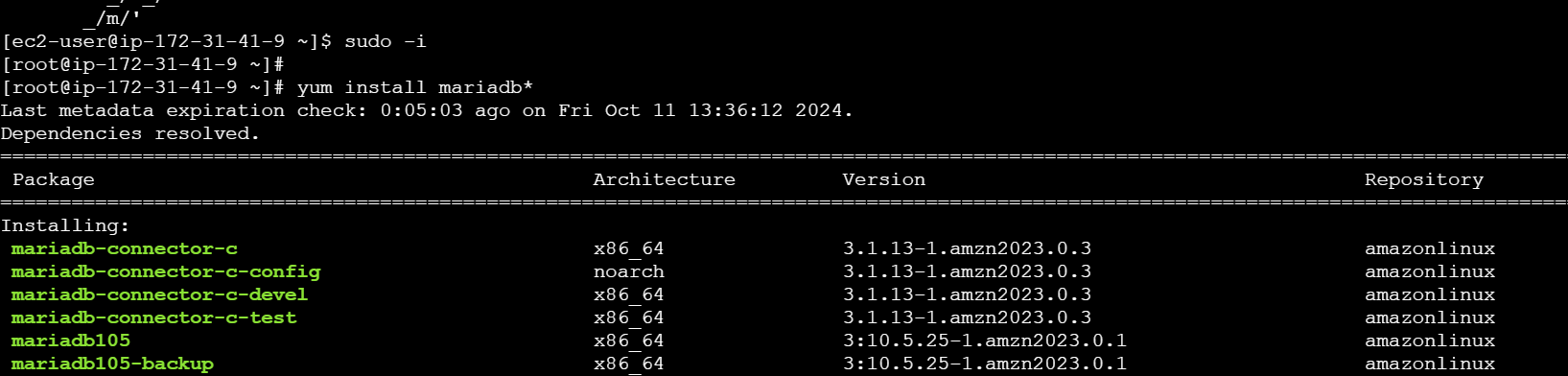
And click the Date base Authentication

****

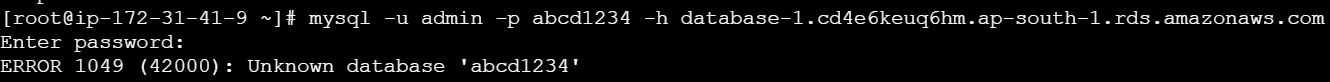
To create the instance

****

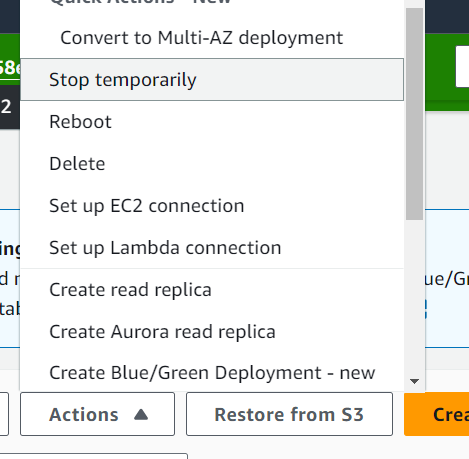
And to install the package is Mariadb in instance

****

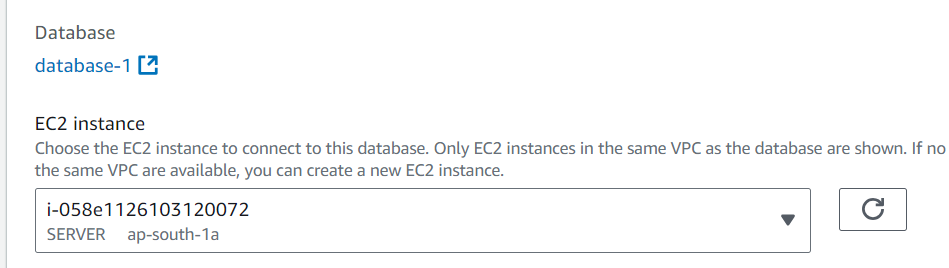
And go here login the DB account

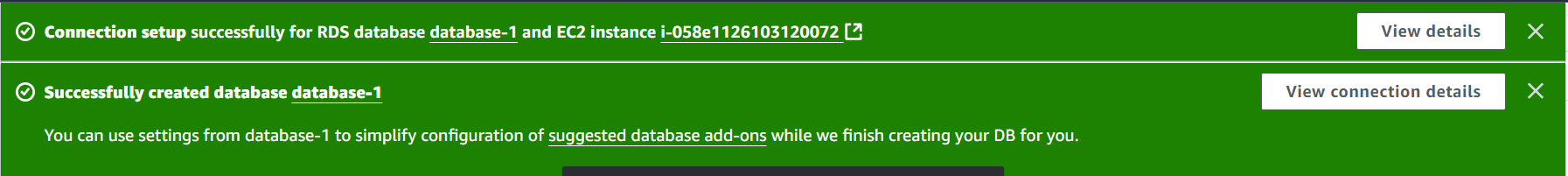
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Connecting Date base in instance

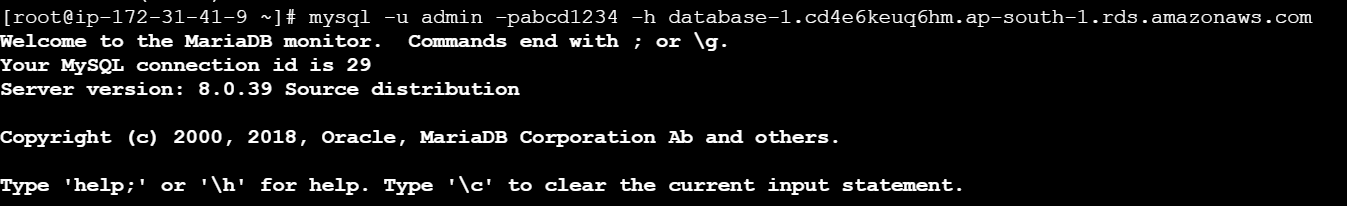
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Go to setup the EC2 Connection

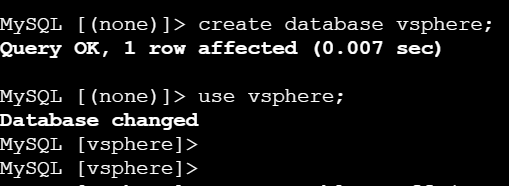
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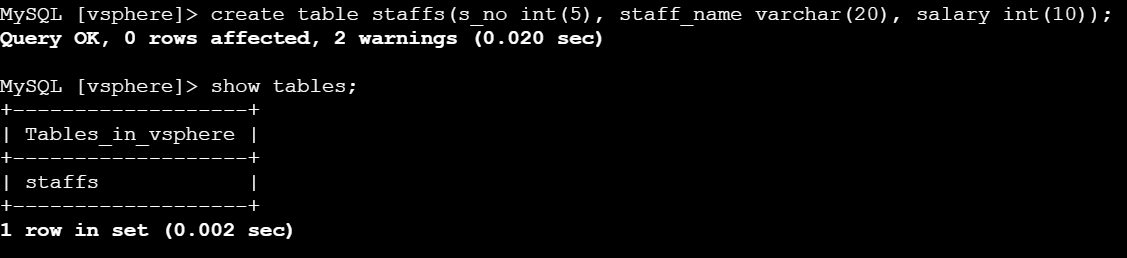
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Again to login

****

**And creating Date base using it**

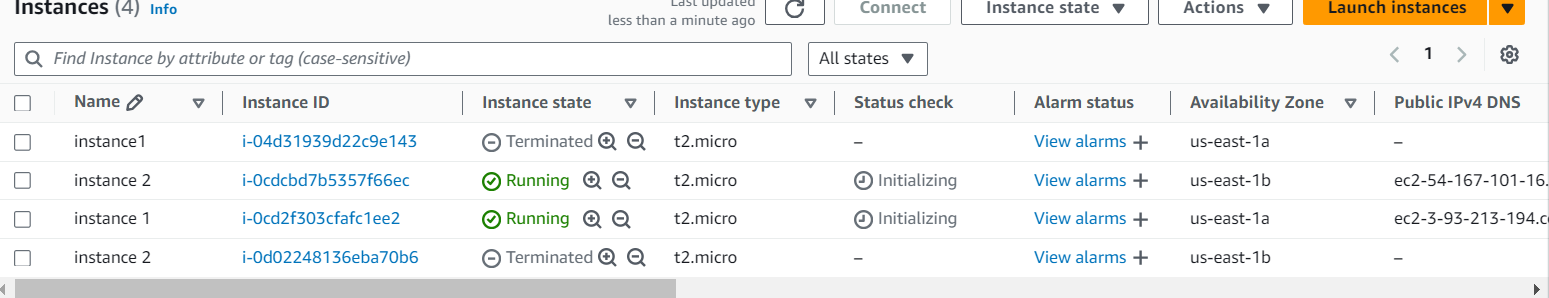
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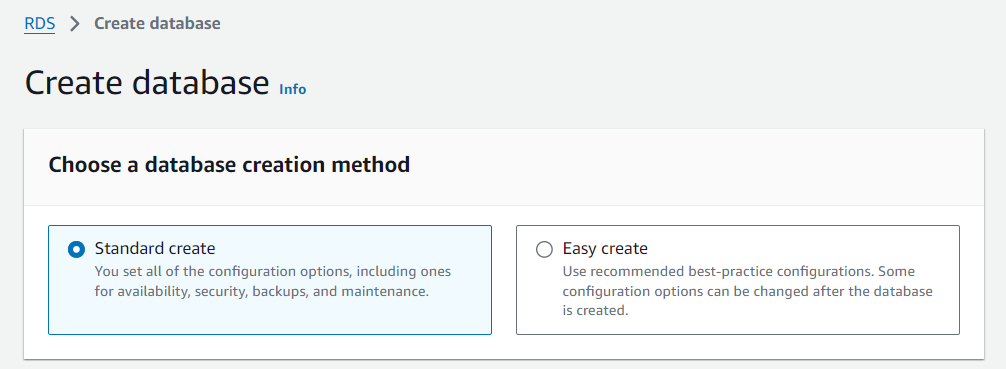
**Lab Exercise 2**

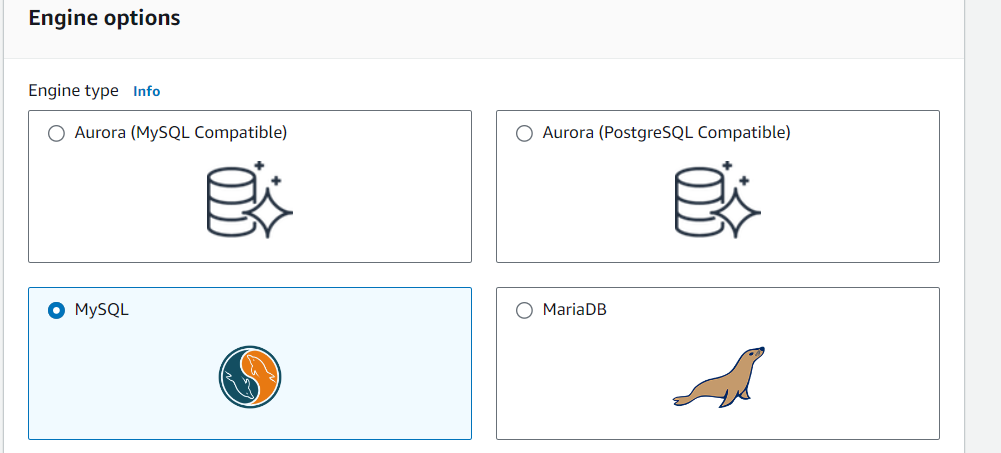
**Task: To create a database with high avaliabity then create read replica for your database**

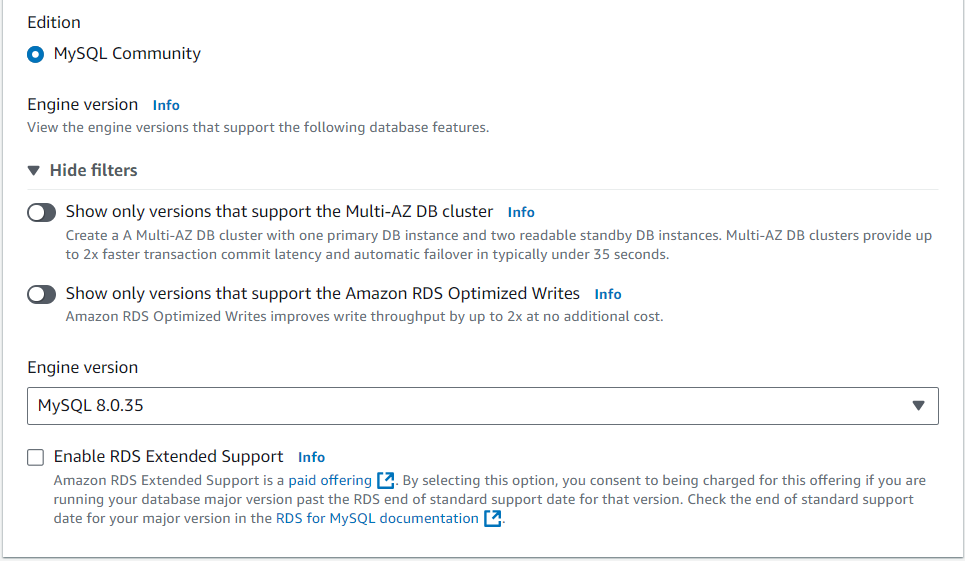
* Create the 2 instance in high avaliabity purpose

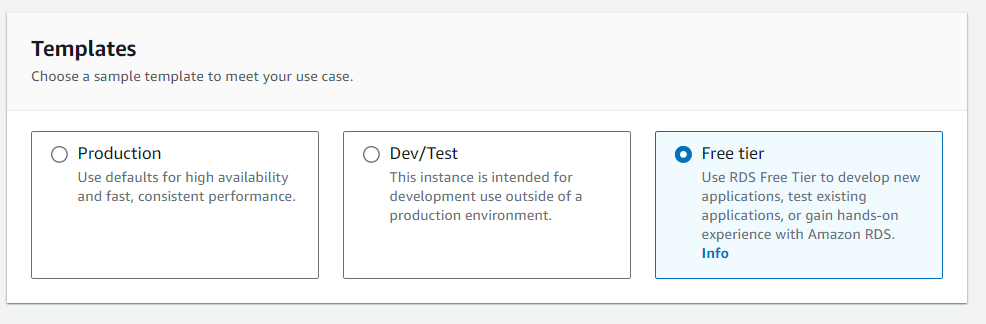


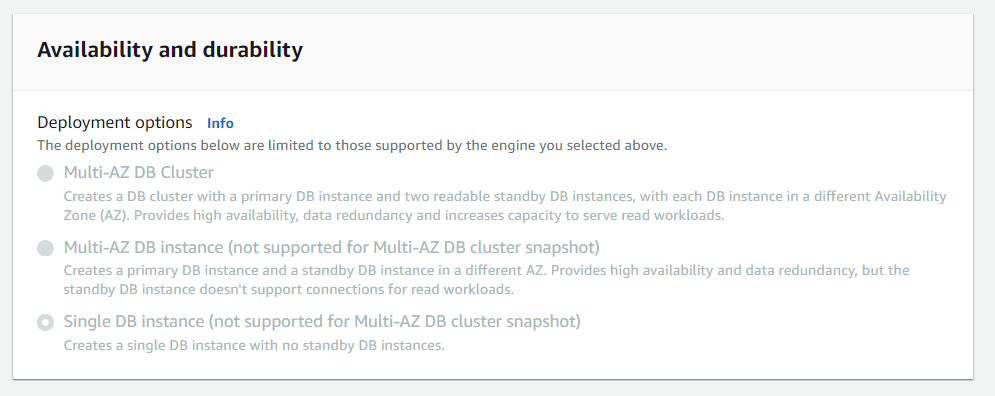
* Create a Database in MySQL

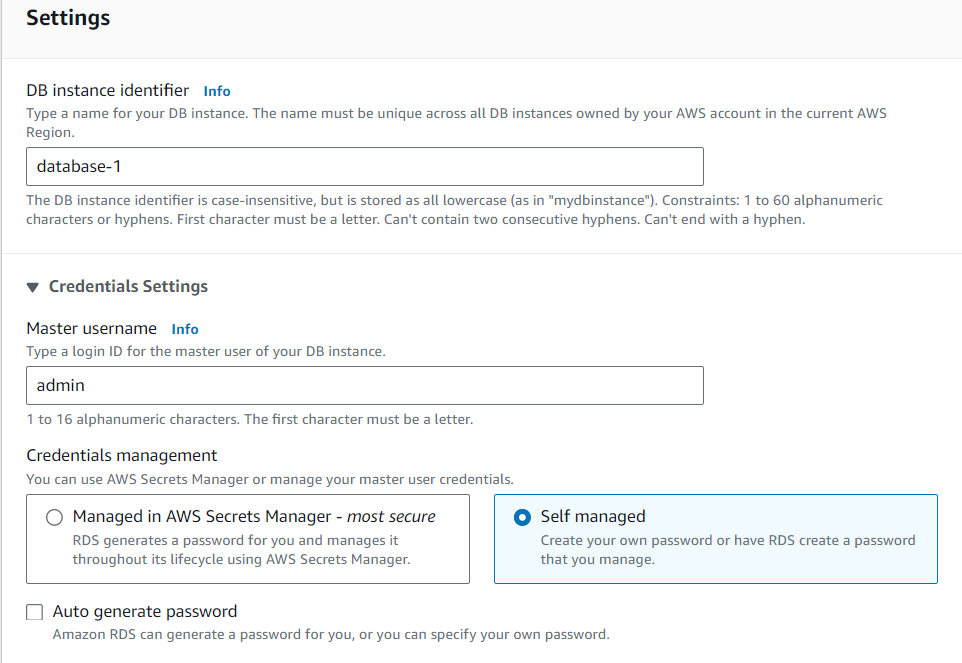


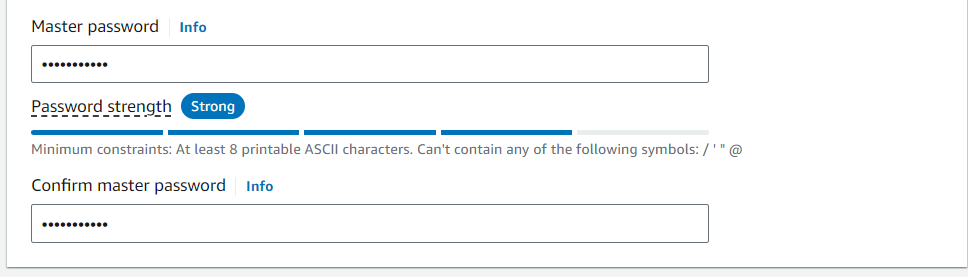


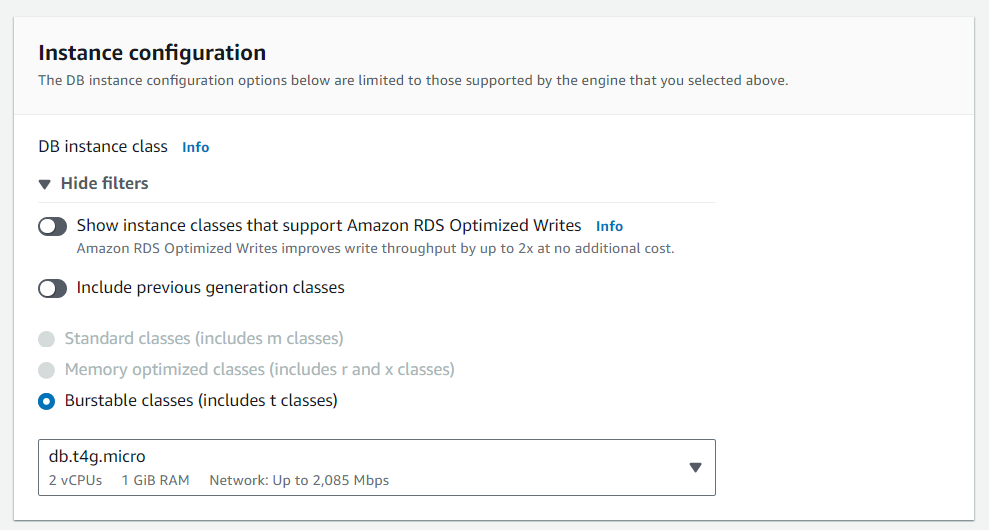


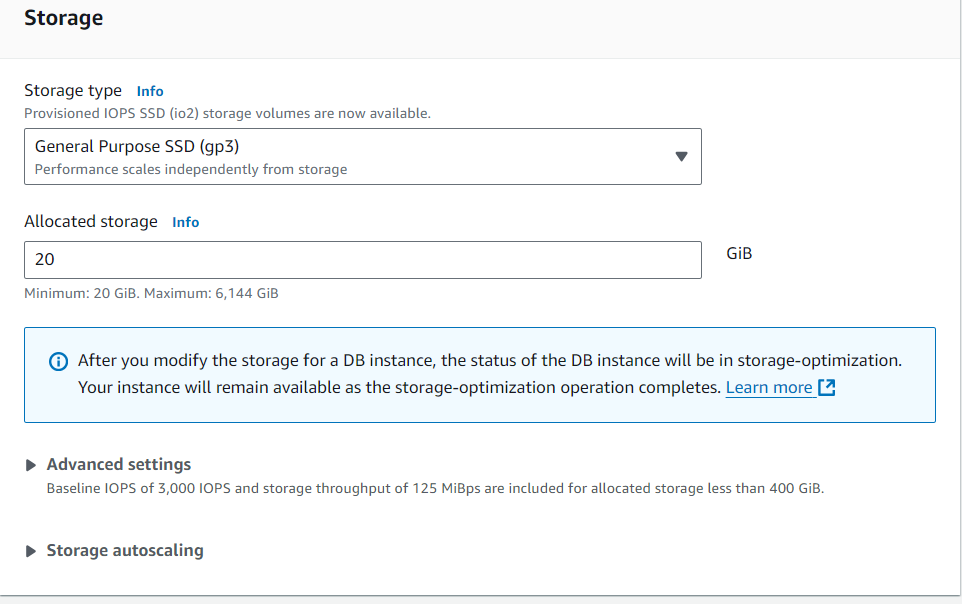


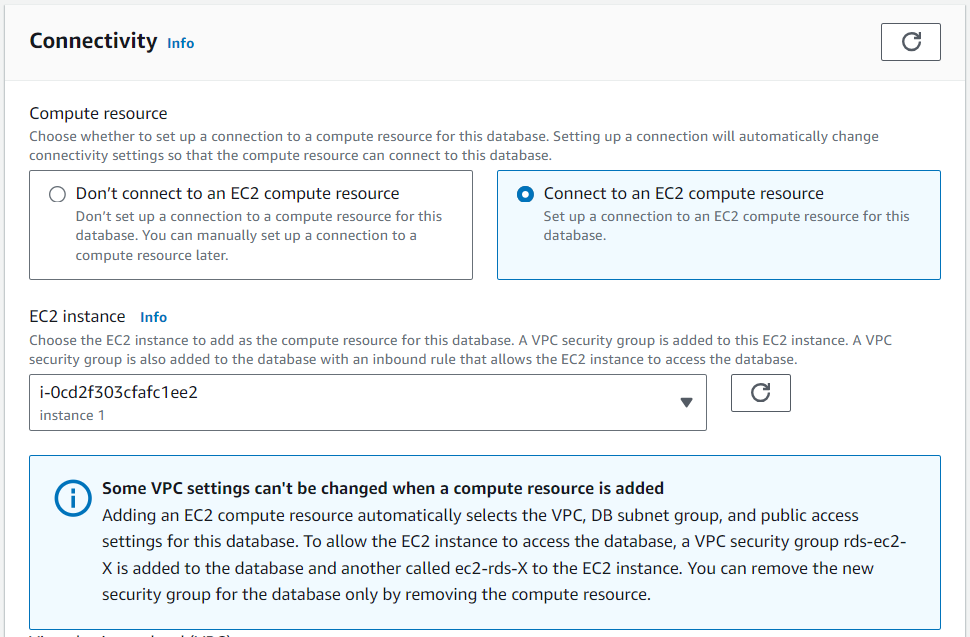


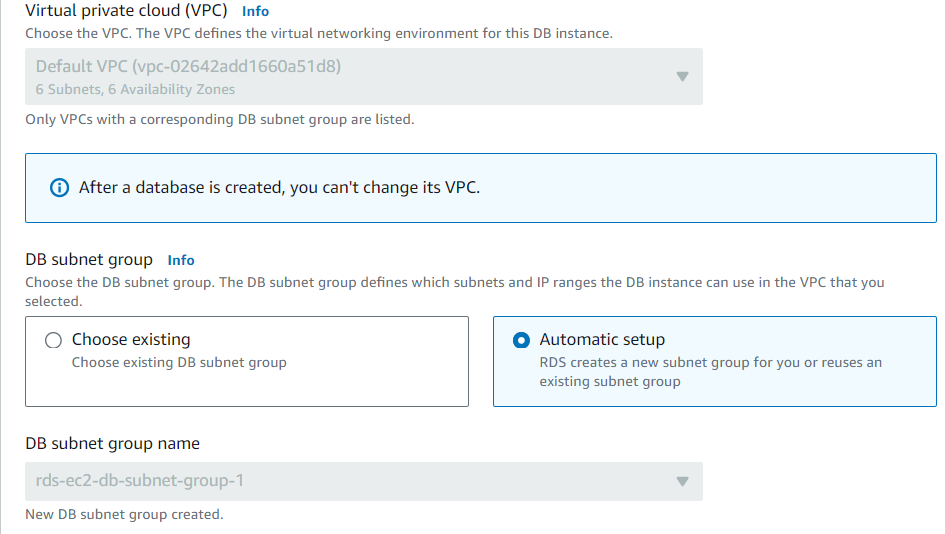


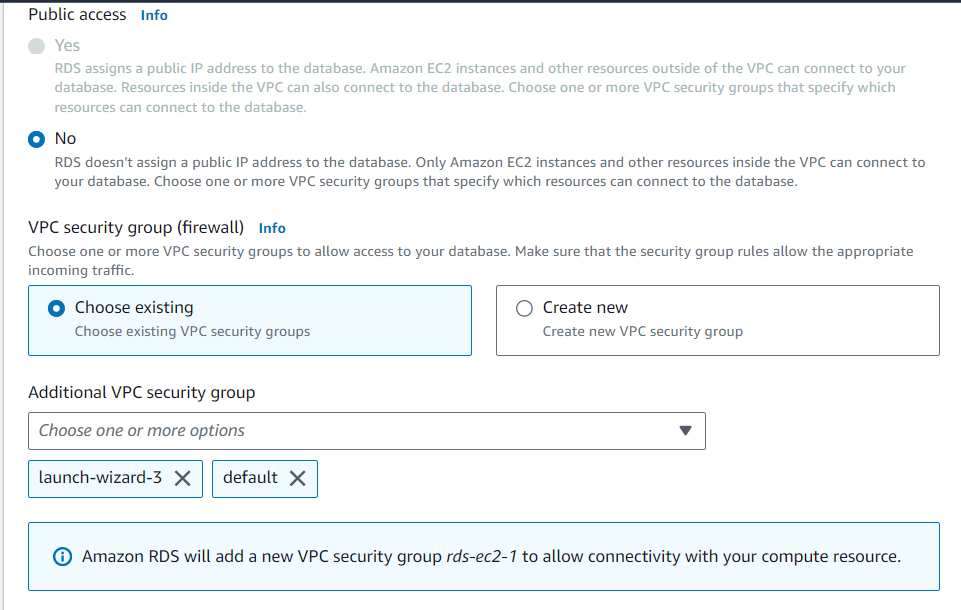


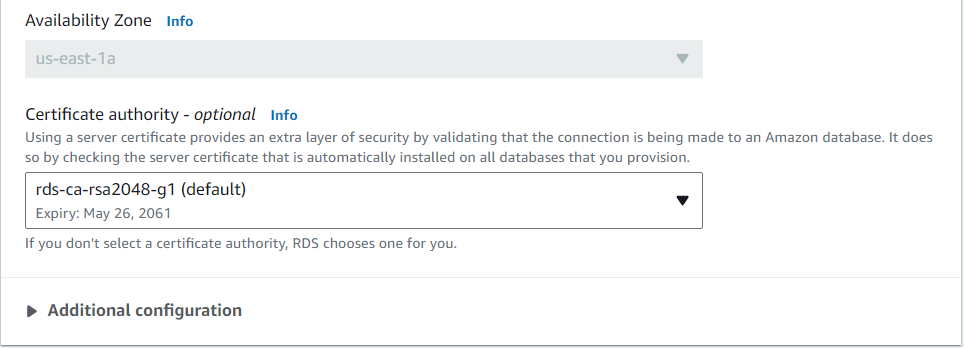


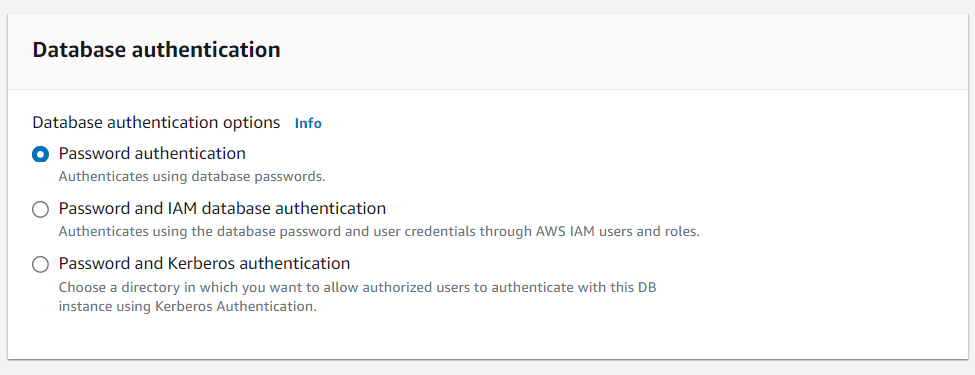


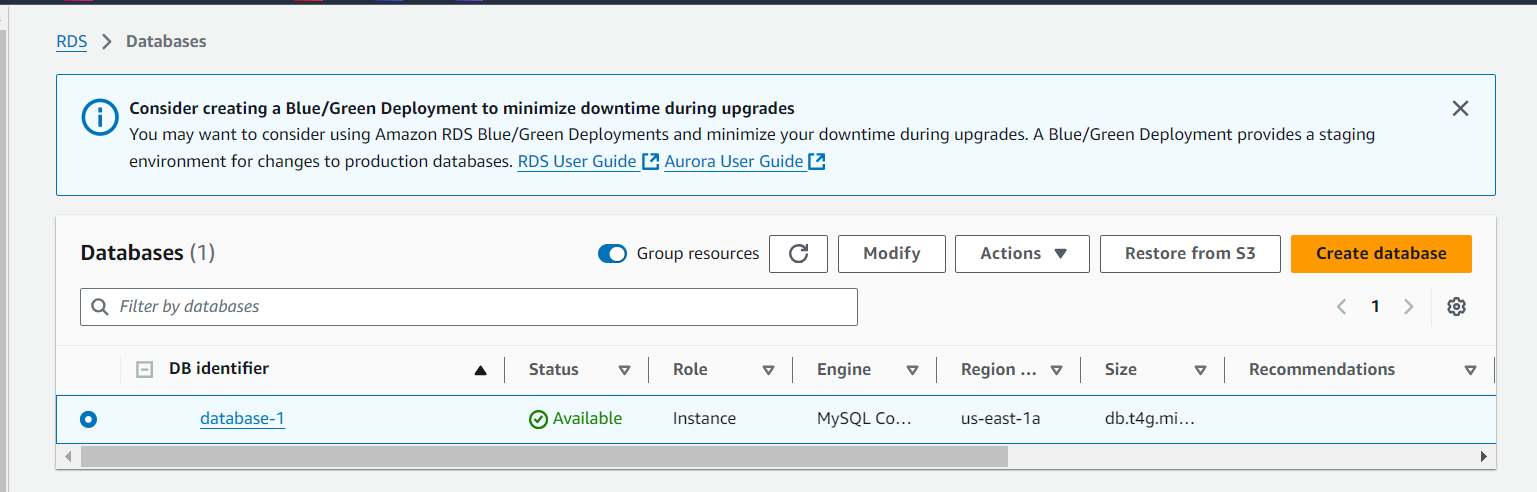


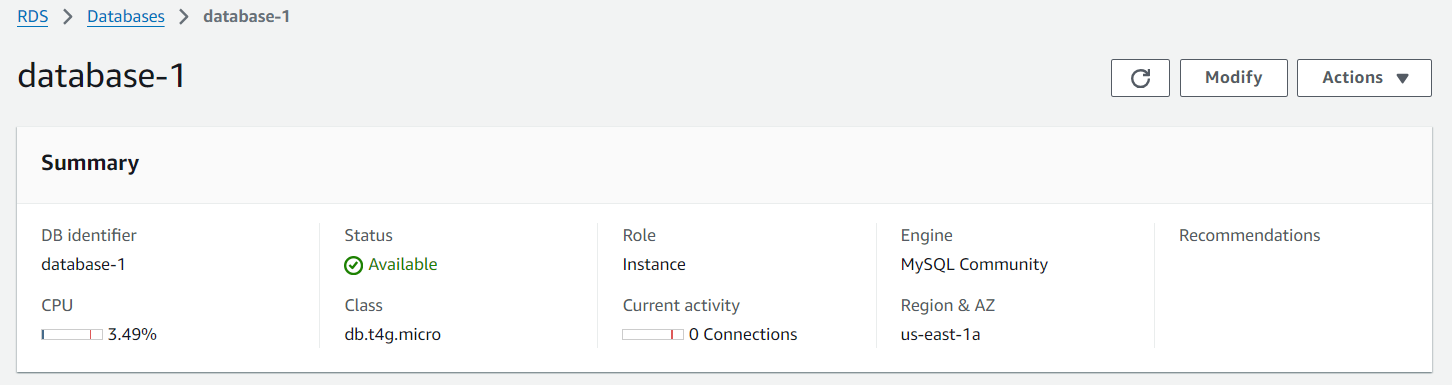


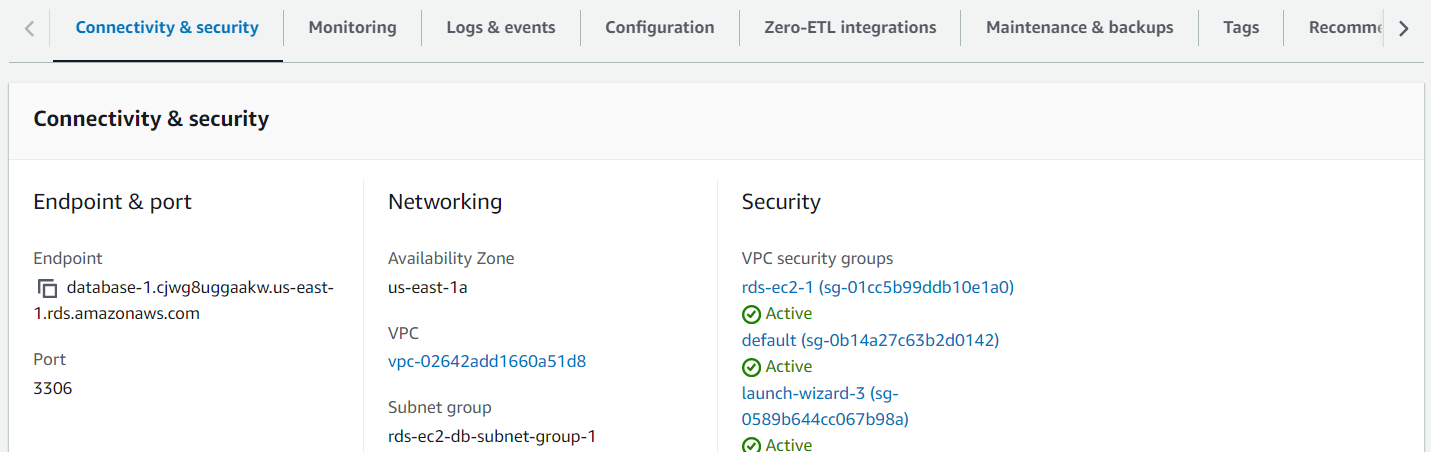




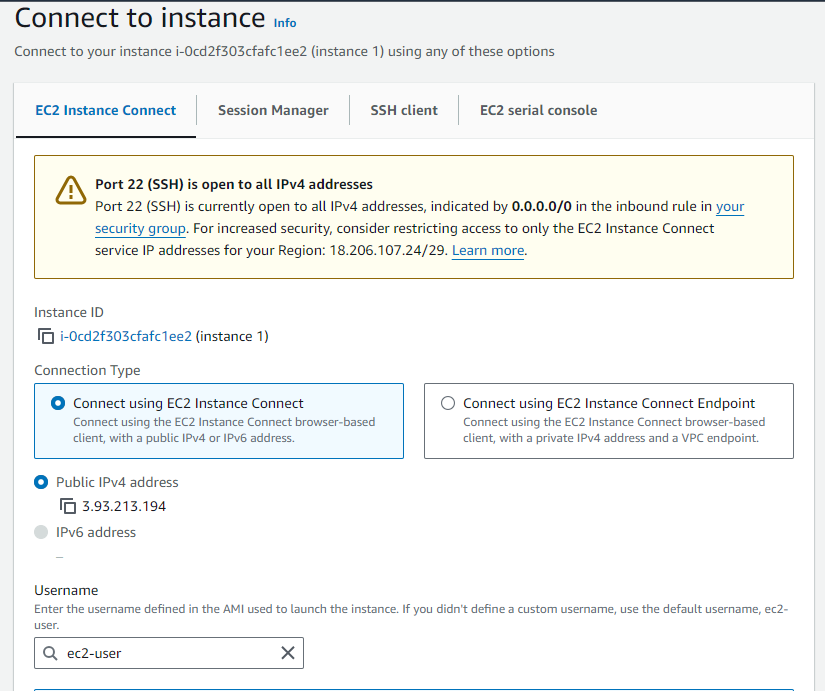


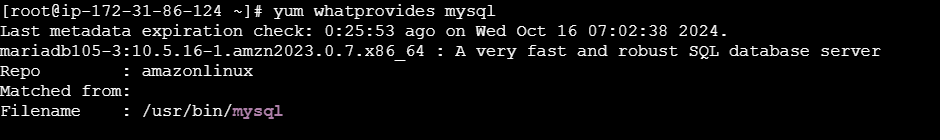


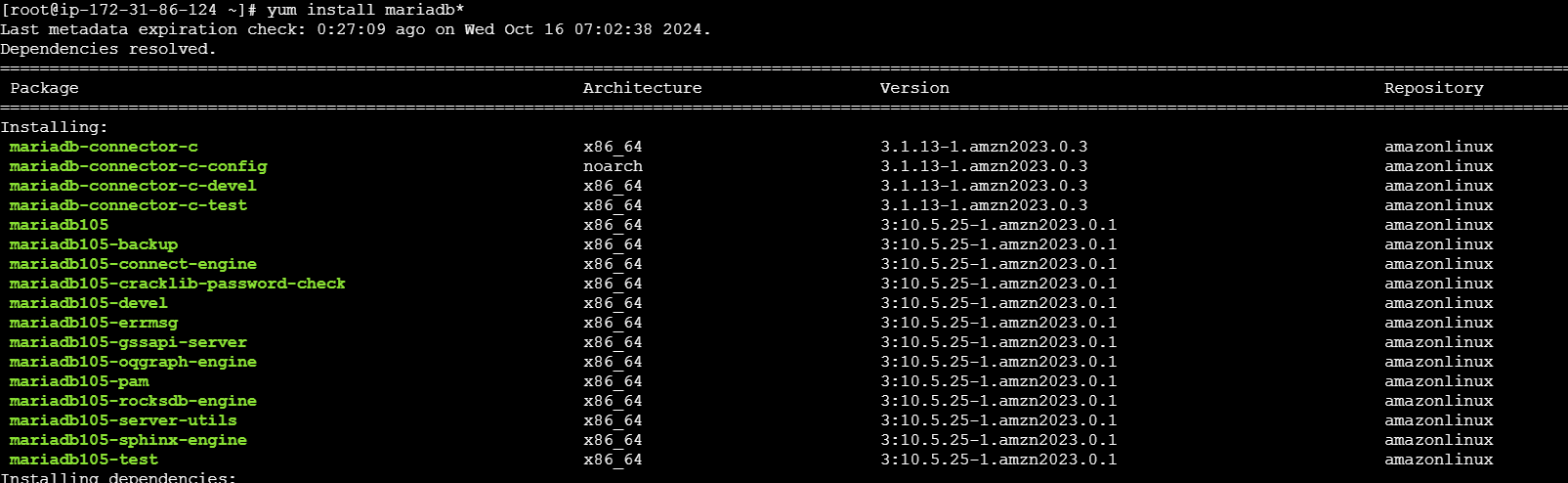


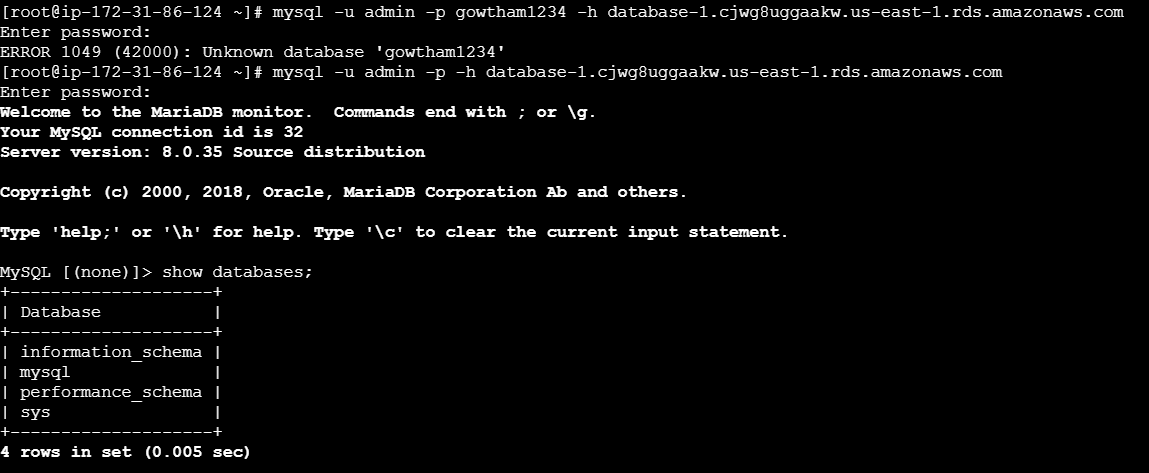


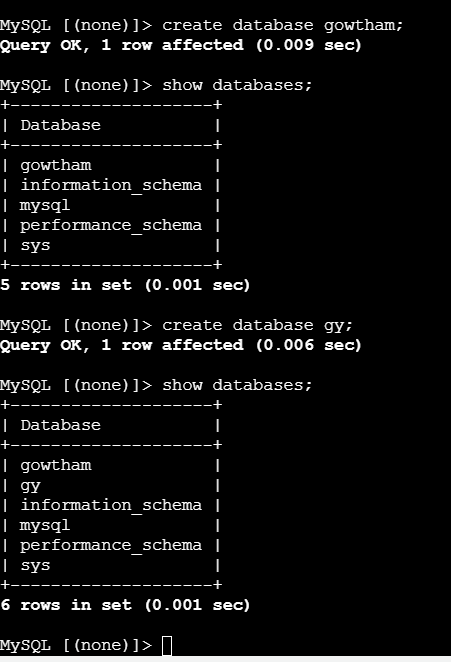
* And to connect the instance in MySQL username & password & Endpoint with DB



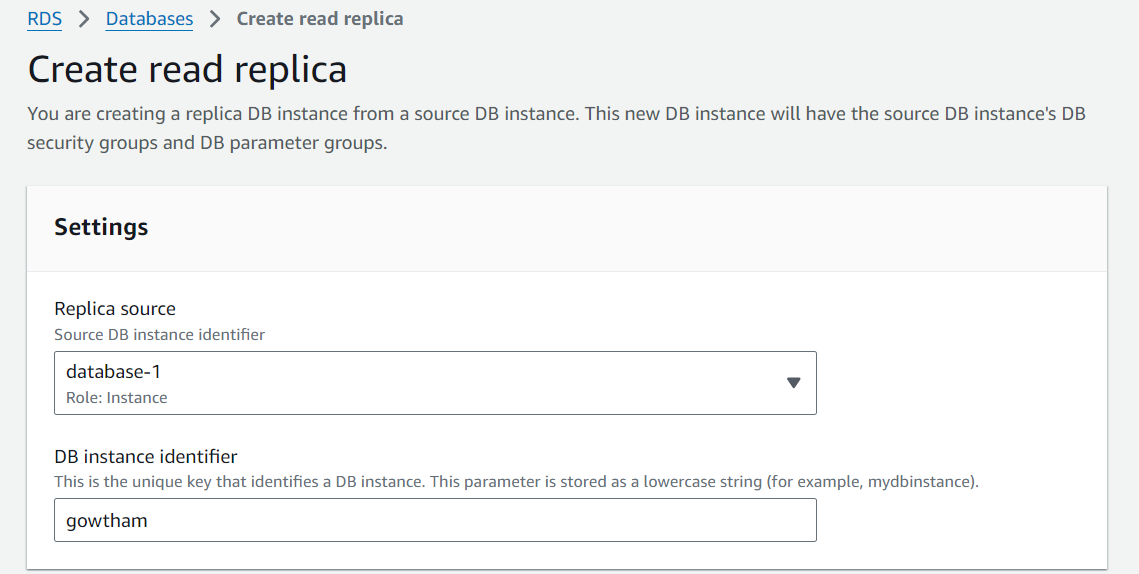


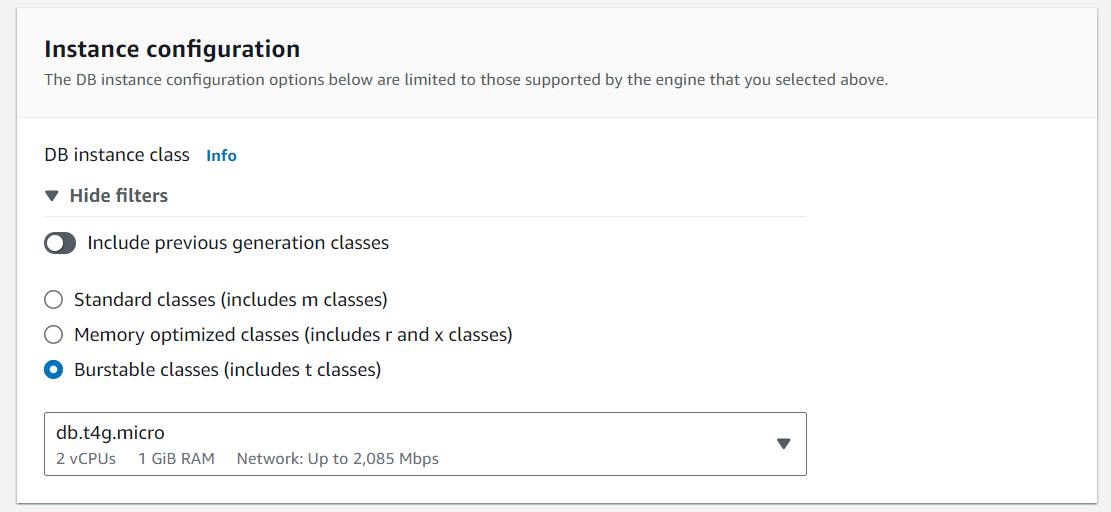


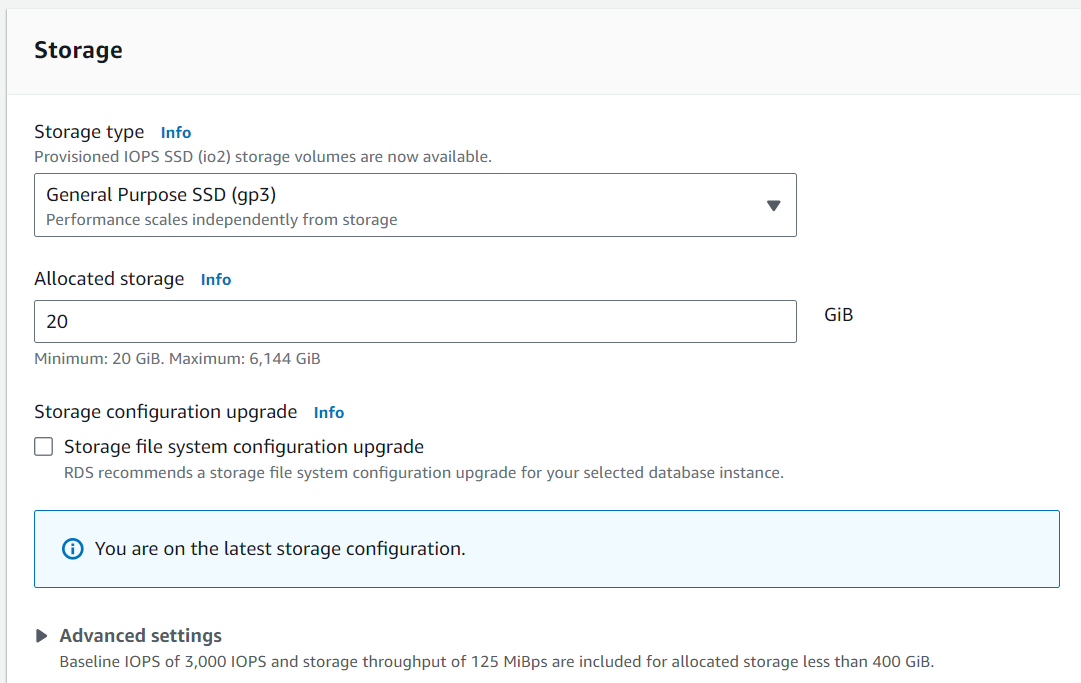


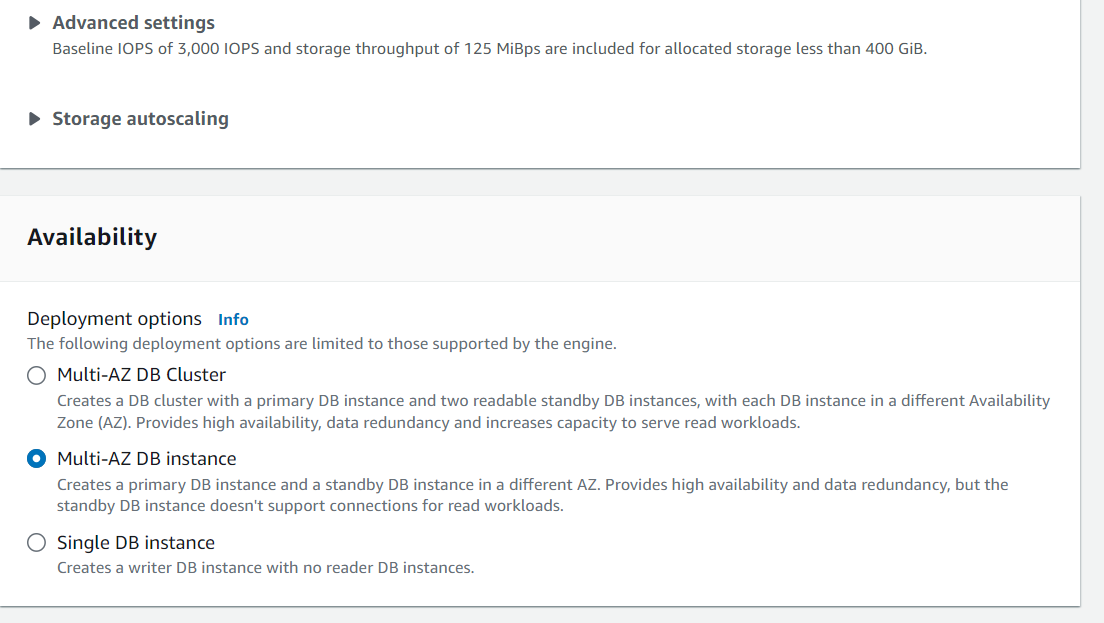


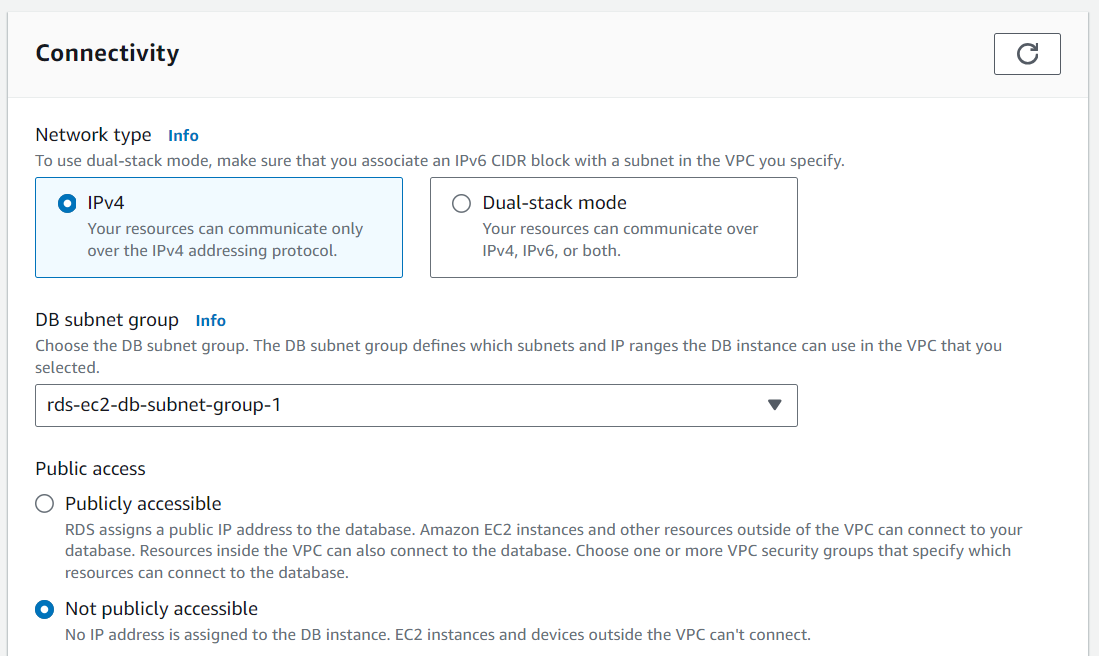
* Go here to seeing the DB page and click action to create the read replica

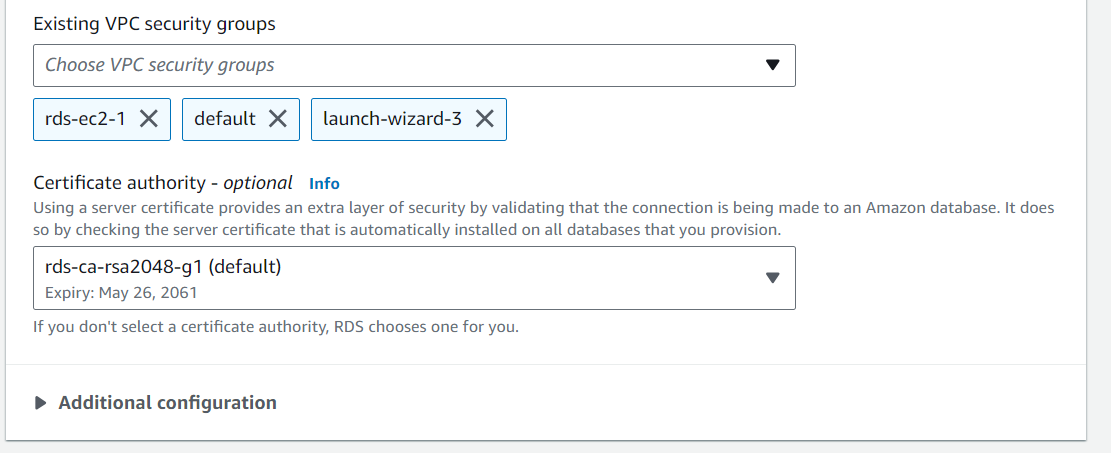


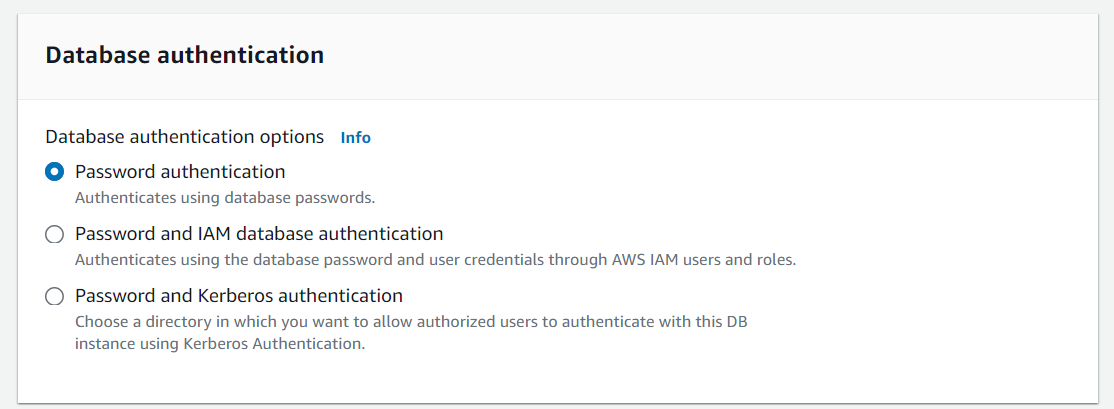


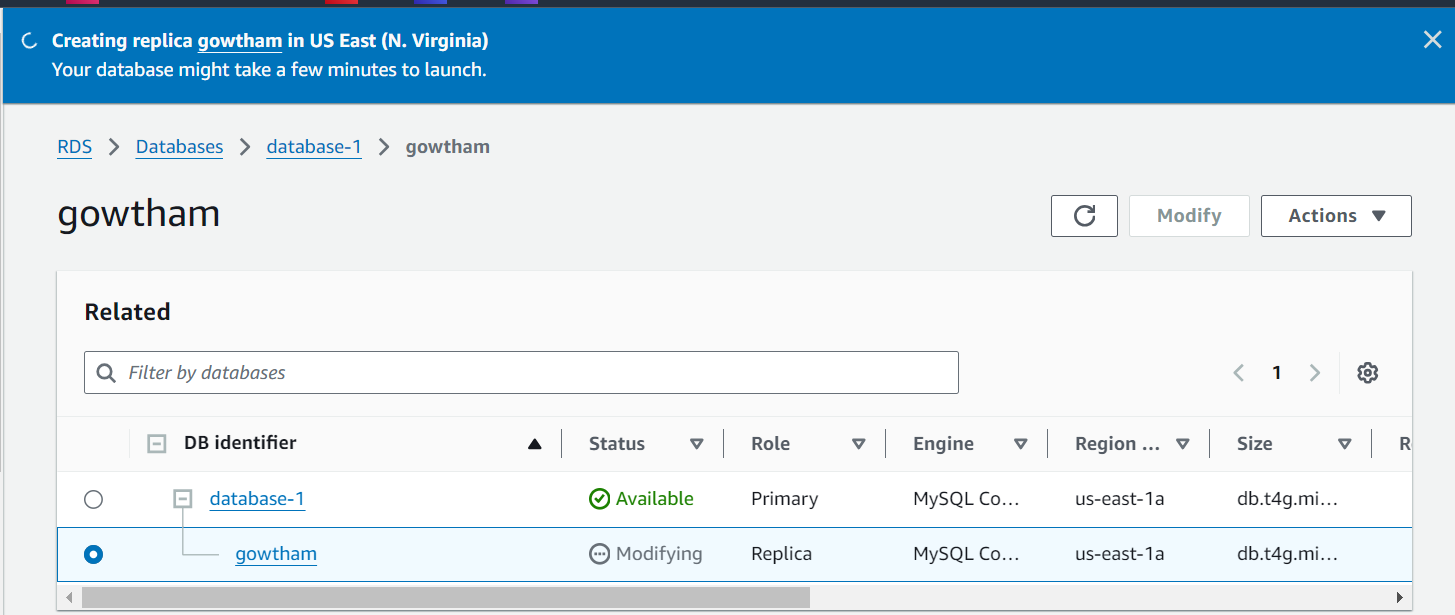


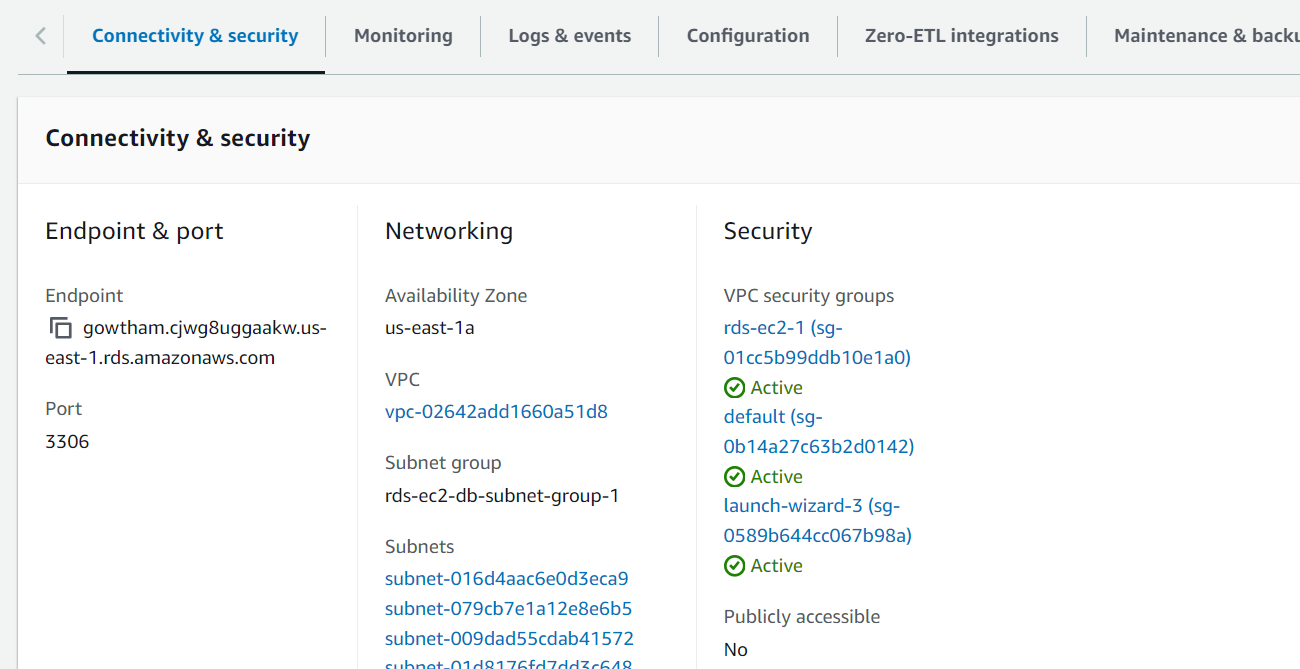




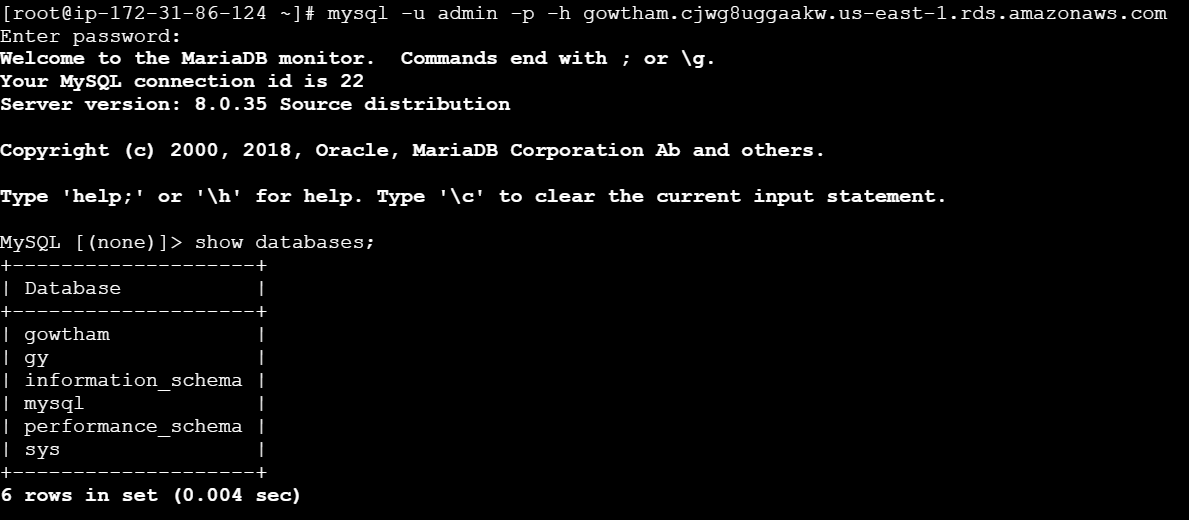




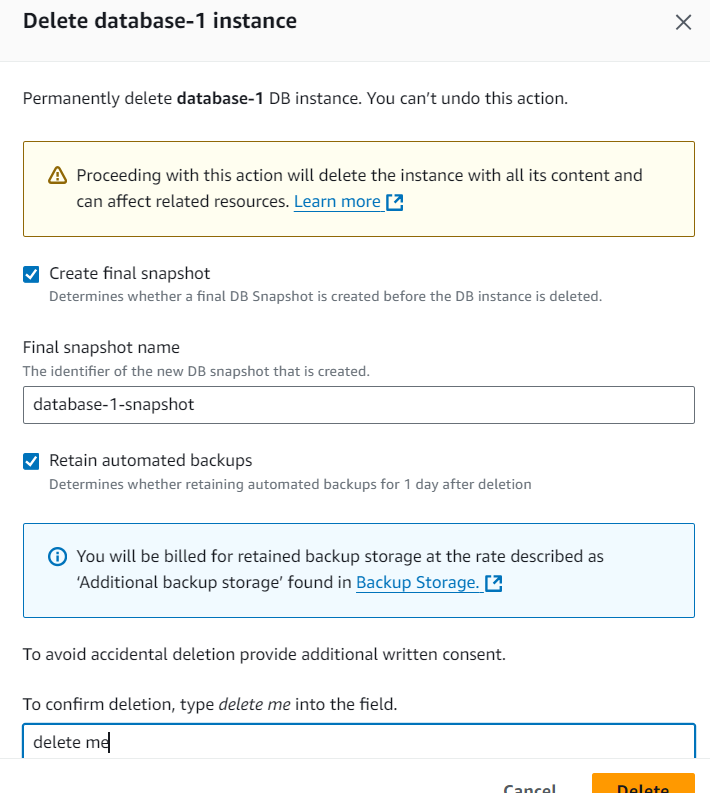




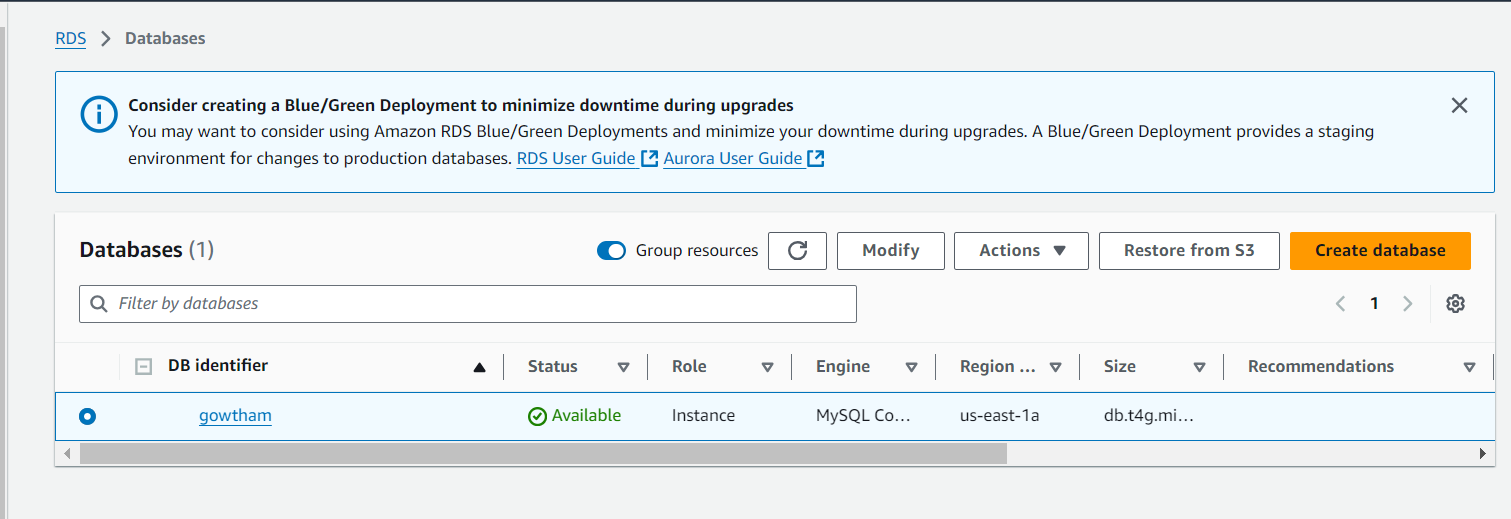
* To click the EC2 instance and connect to read replica endpoint to enter it



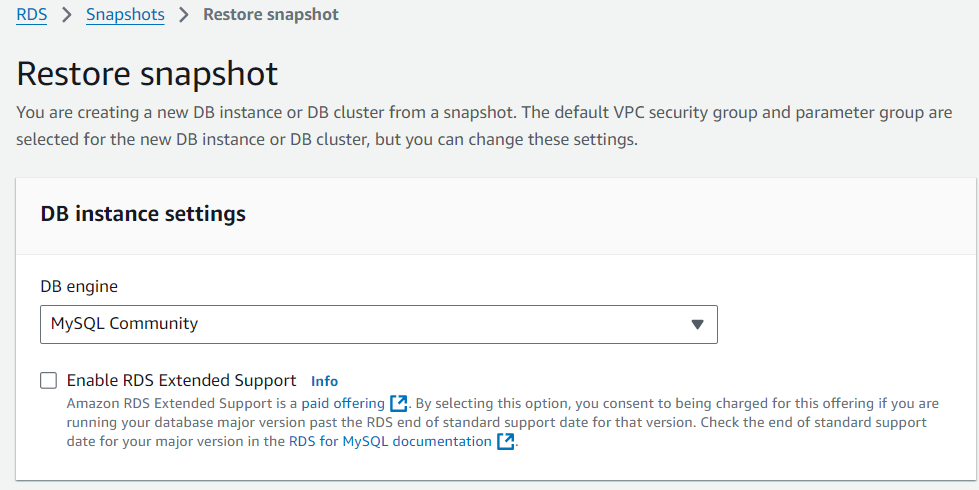
* Go to delete the main database to master

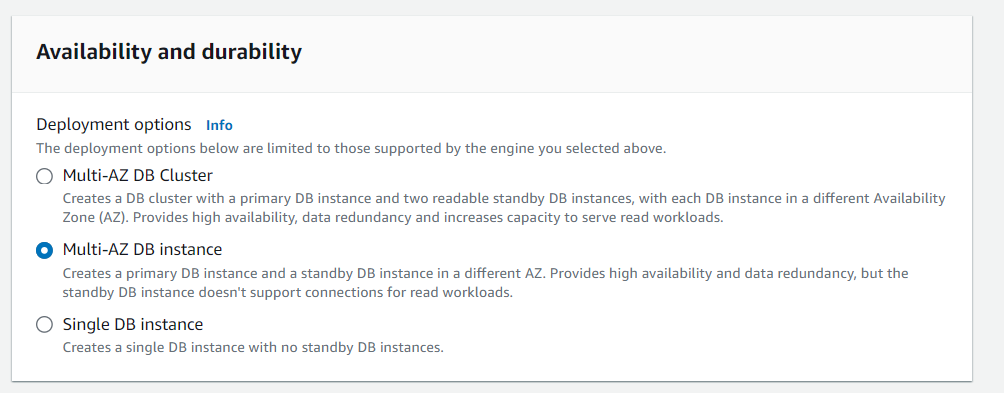


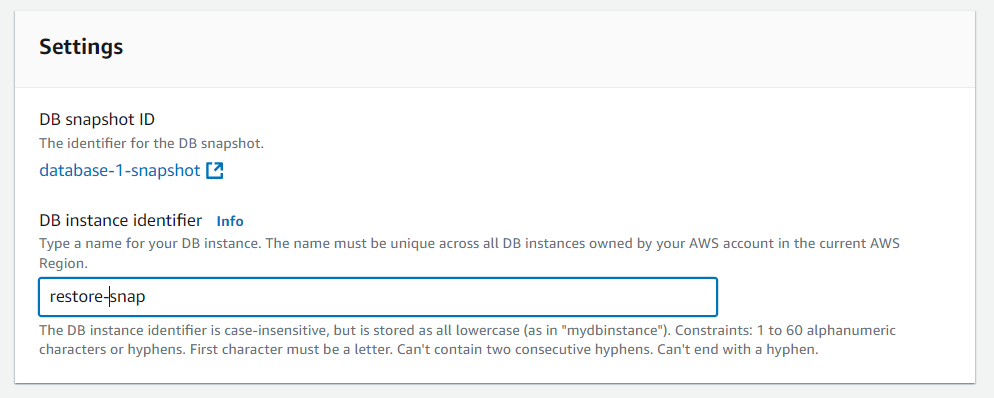
* After delete the Master DB & replica to change on available

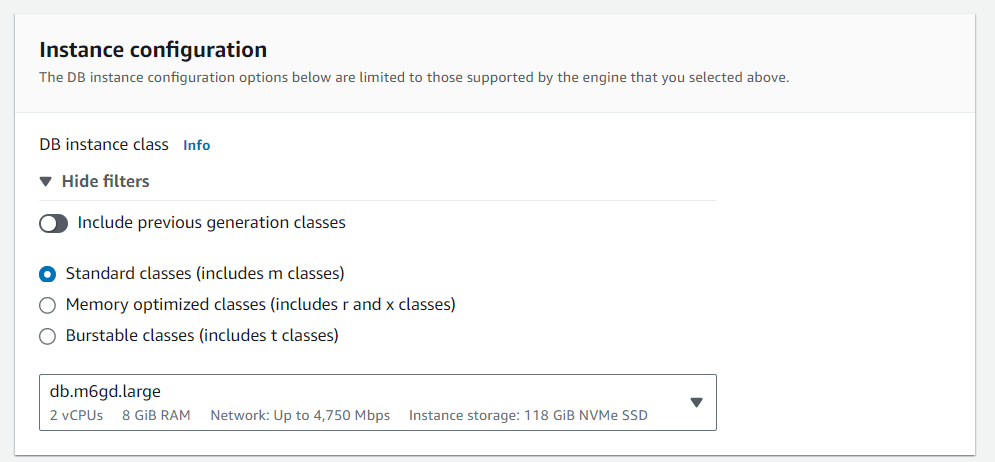


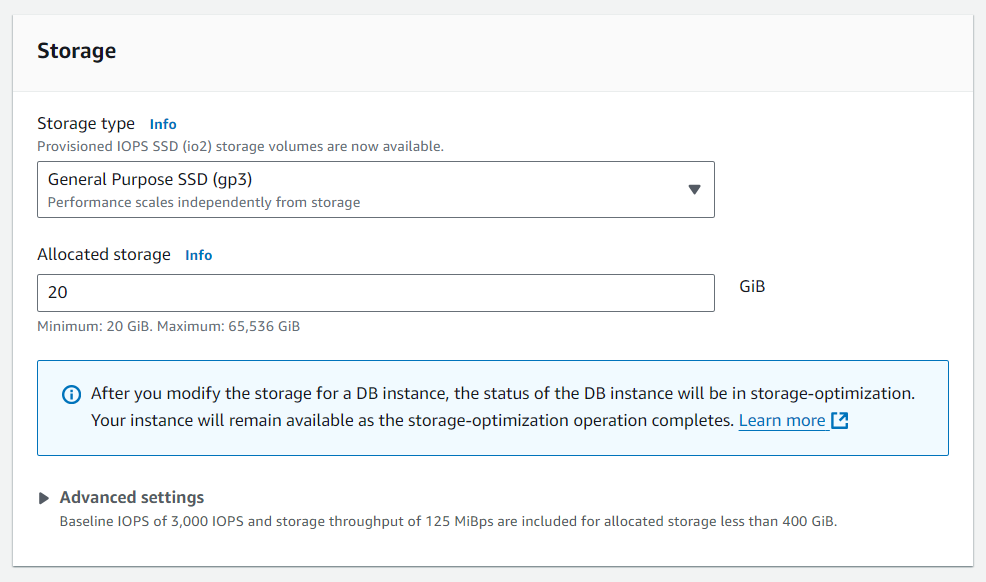
* Go to DB Dashboard and click the snapshots and restore the snapshot

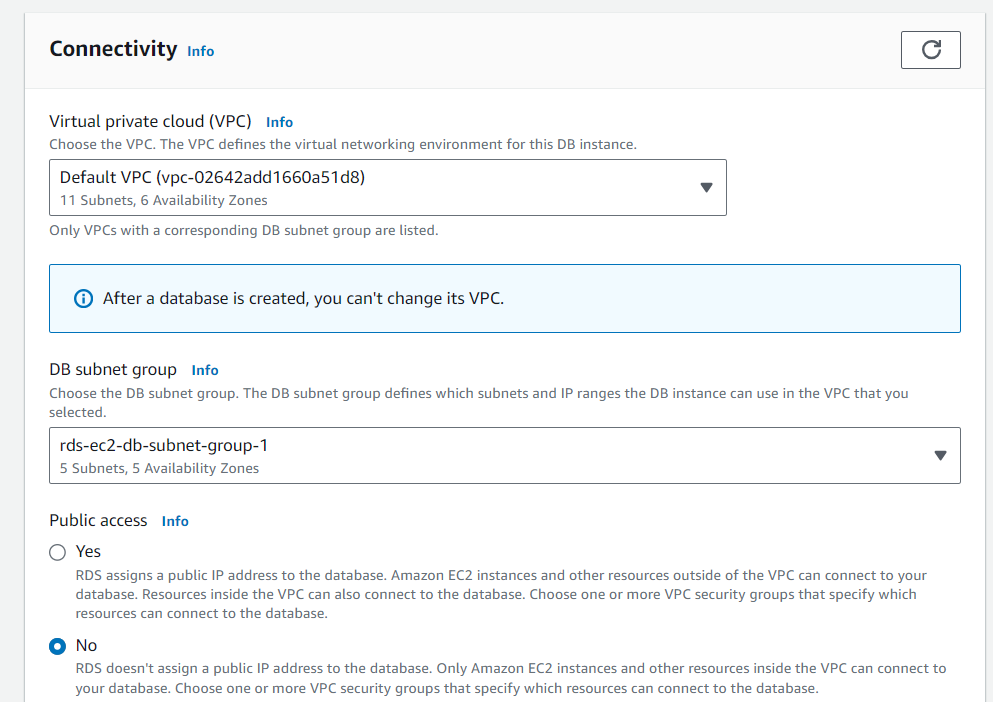


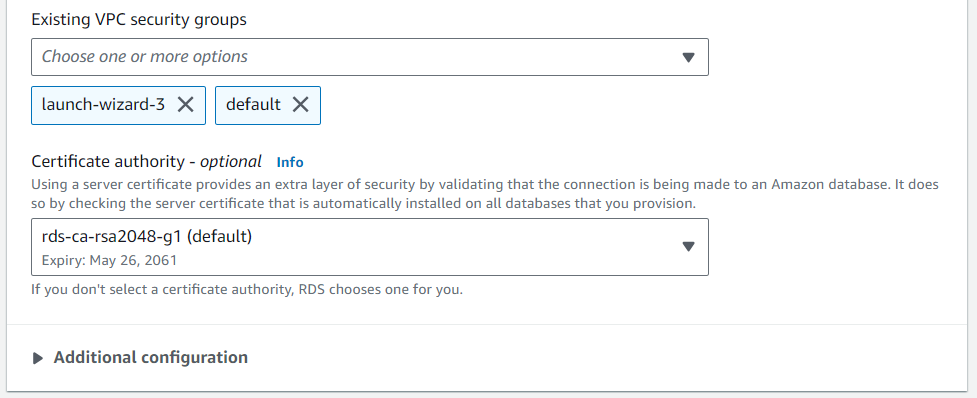


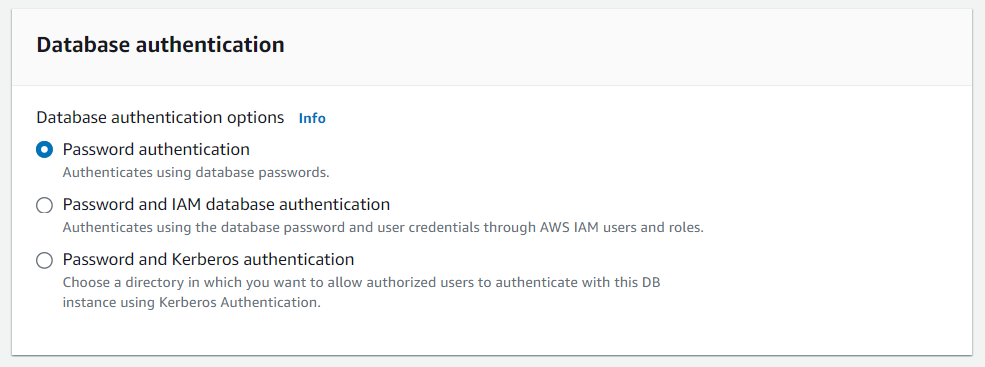


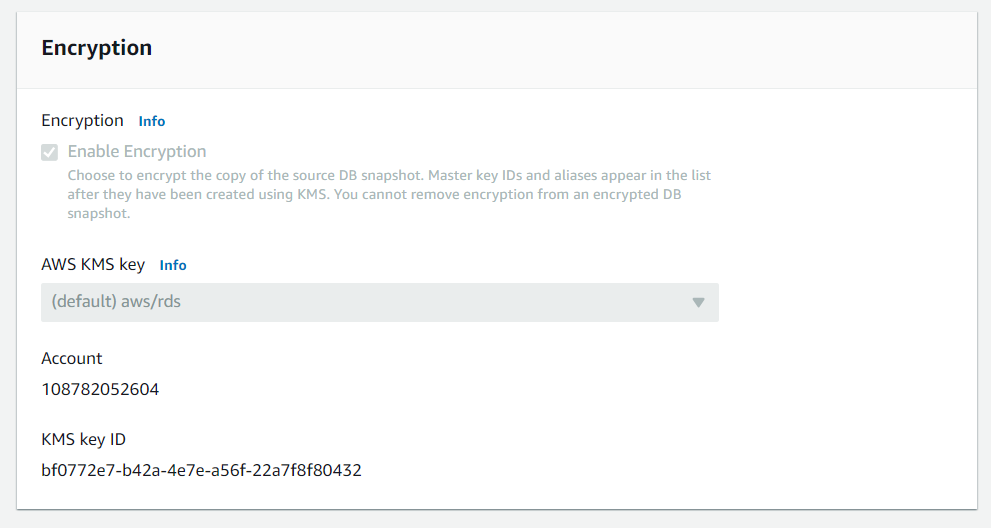




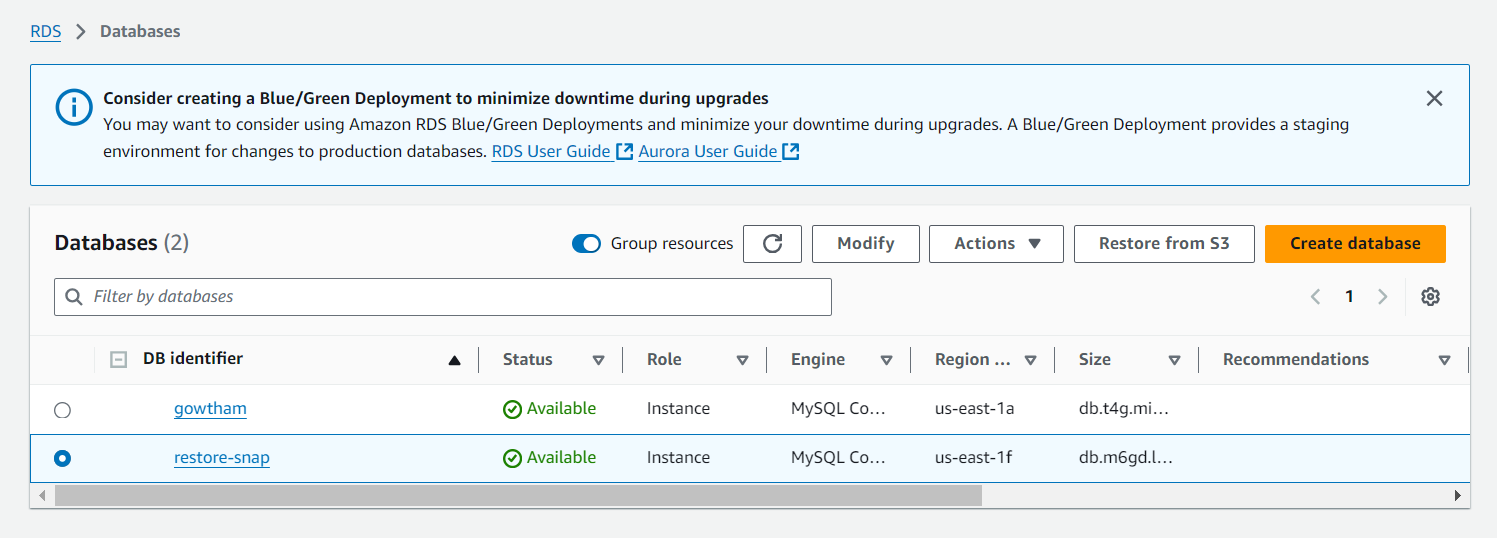




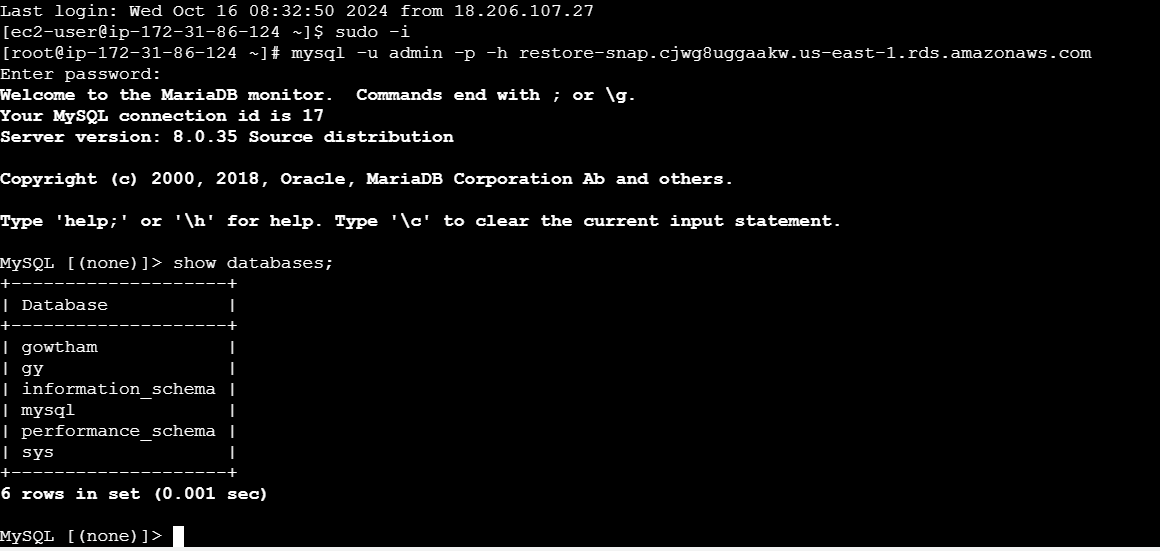


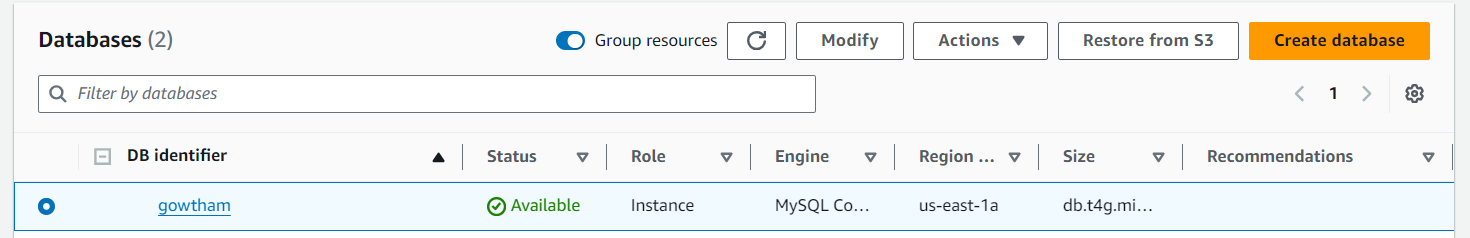


* Snapshot has been created



* Again go EC2 instance in restore snap click it and take the end point to check it & seeing the output



* To Check the Master DB to check it
* Again go EC2 instance in Master Database click it and take the end point to check it & seeing the output

