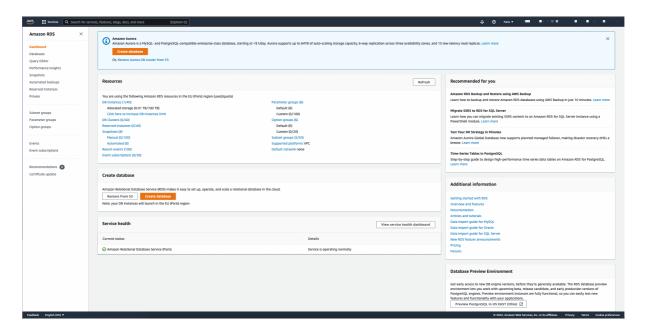


To connect your Query cluster(s) to the created RDS database

1. Create RDS database

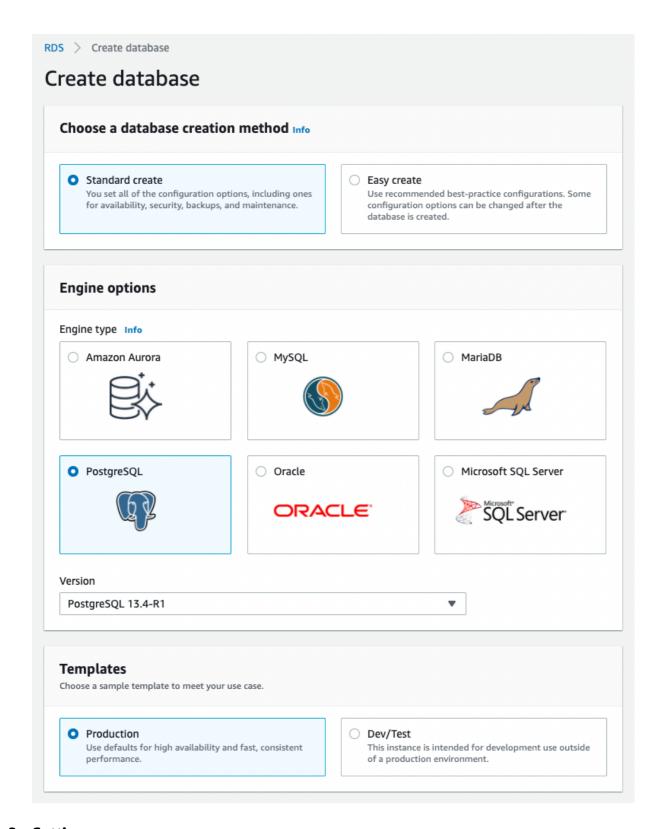
Go to the AWS RDS console and click Create database



2. Select your database type

- o We will need to create a dedicated VPC, so select Standard create.
- Then chose your database type (we'll use PostgreSQL for our example) and the version.
- Since we're creating a production database, we'll select the Production template. You can pick Dev/Test template for nonproduction environments.

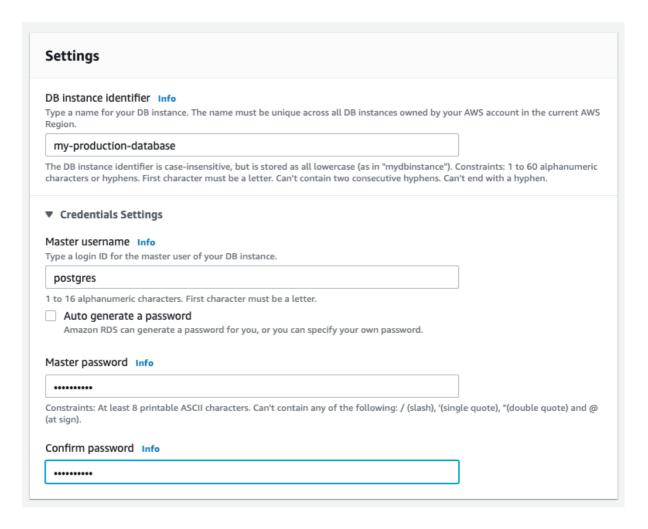




3. Settings

Select a name for your RDS instance, here <code>my-production-database</code>, master username and password.

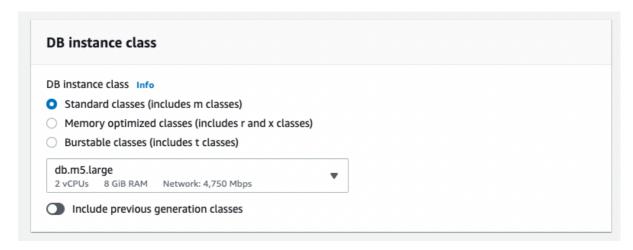




4. Instance class

Pick an instance class that works for your needs. You can refer to this document for more information about the different

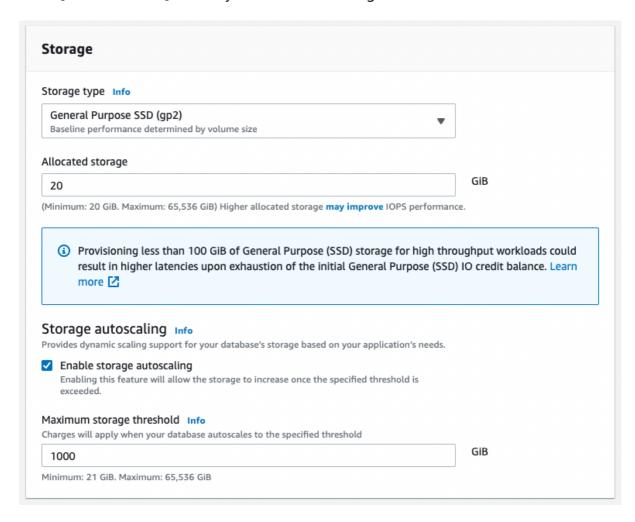
options: https://docs.aws.amazon.com/AmazonRDS/latest/UserGuide/Concepts.DBInstanceClass.html





5. Storage

General Purpose SSD should be the right option for most cases. Chose the allocated storage that fits the needs of your application. We also advise you to Enable storage autoscaling in case you need more storage over time.



6. Availability & durability

For a production setup you should <code>Create a standby instance</code>. For non-production usecase you can avoid it to reduce costs.



Availability & durability

Multi-AZ deployment Info

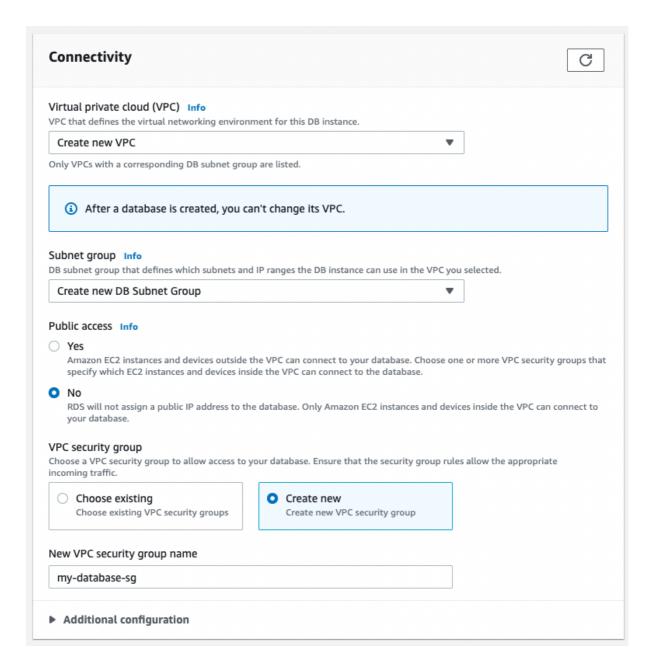
Create a standby instance (recommended for production usage)
 Creates a standby in a different Availability Zone (AZ) to provide data redundancy, eliminate I/O freezes, and minimize latency spikes during system backups.

O not create a standby instance

7. Connectivity

- Since we want the database to live in it's own VPC, make sure to select the Create new VPC option.
- o Also select Create new DB Subnet Group.
- We advise you to disable Public access for security reason. We'll setup VPC peering in the next guide to allow access from your Qovery clusters through private networking.
- o Finally chose Create new security group and give it a name.





8. Database authentication and estimated costs

Chose Password authentication.



Database authentication

Database authentication options Info

Password authentication

Authenticates using database passwords.

Password and IAM database authentication

Authenticates using the database password and user credentials through AWS IAM users and roles.

Password and Kerberos authentication

Choose a directory in which you want to allow authorized users to authenticate with this DB instance using Kerberos Authentication.

Additional configuration

Database options, encryption enabled, backup enabled, backtrack disabled, Performance Insights enabled, Enhanced Monitoring enabled, maintenance, CloudWatch Logs, delete protection enabled.

Estimated monthly costs

DB instance 150.38 USD
Multi-AZ standby instance 150.38 USD
Storage 5.32 USD
Total 306.08 USD

This billing estimate is based on on-demand usage as described in Amazon RDS Pricing . Estimate does not include costs for backup storage, IOs (if applicable), or data transfer.

Estimate your monthly costs for the DB Instance using the AWS Simple Monthly Calculator [2].

You are responsible for ensuring that you have all of the necessary rights for any third-party products or services that you use with AWS services.

Cancel

Create database

You can then click on Create database

9. Database creation

You should see your new RDS instance in the list of databases, with the Creating status.

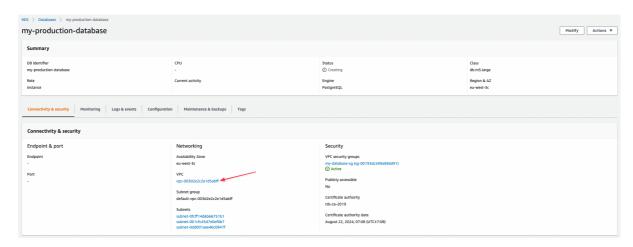




10. Name your RDS VPC

The VPC created for the new RDS database will be named –. For convenience you should rename it.

Click on your database in the list, then on the VPC id.



You will be redirected to the VPCs list, filtered on the VPC id. Click on the edit icon in the Name column, and give it a meaningful name.

