LAB: RDS Instance

You need:

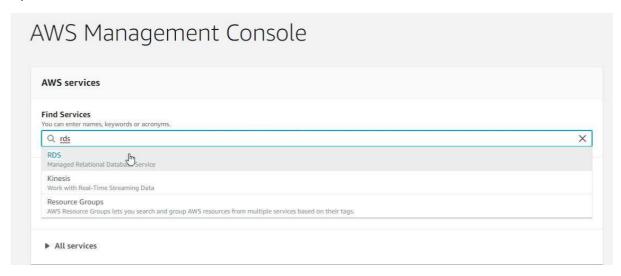
- An AWS Account
- Code in the CodeCommit Repository
- An existing CodeBuild Project

Duration of the Lab: 30 Minutes.

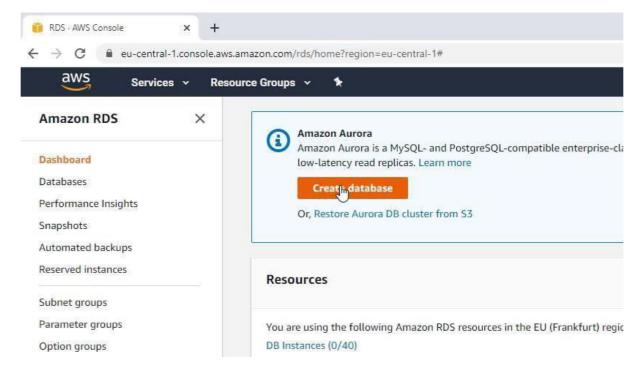
Difficulty: medium

Create an RDS Instance

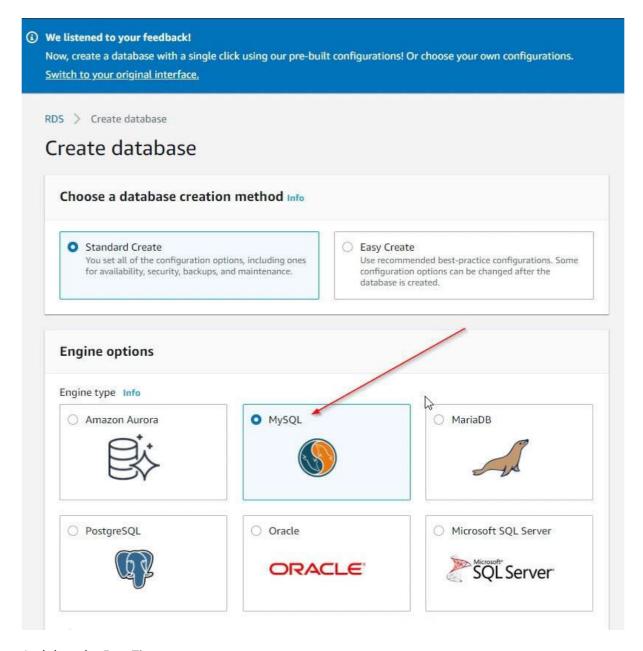
Open the RDS Dashboard:



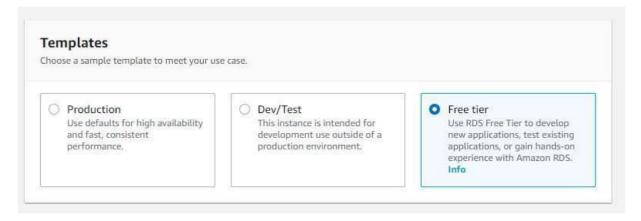
Create a new Database:



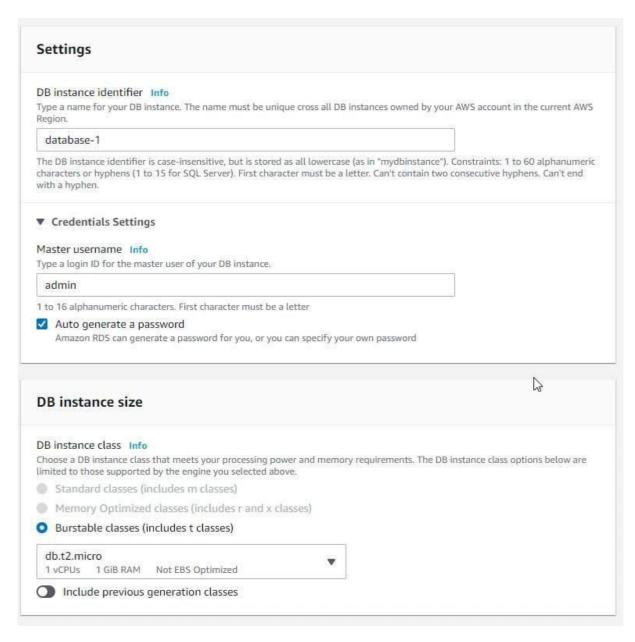
Select MySQL:



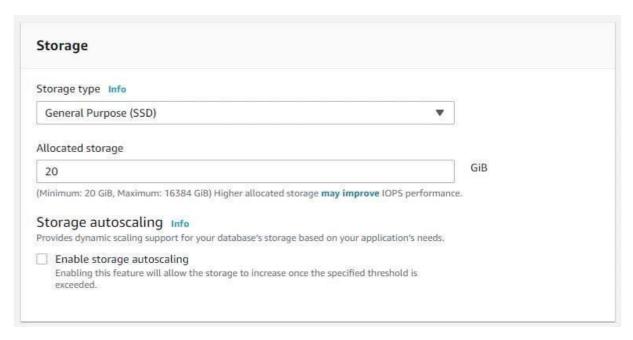
And then the Free Tier:



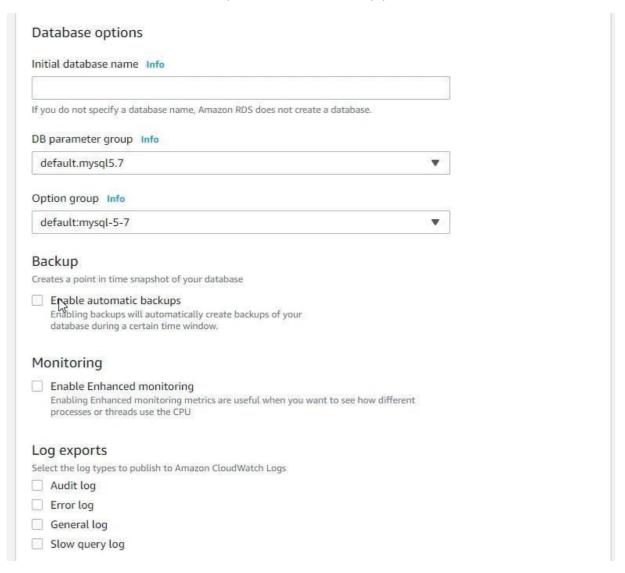
You can leave the name at the default setting, and choose to auto-generate a password:



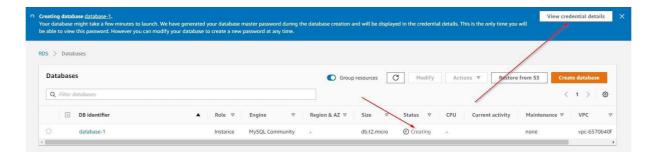
Remove the storage autoscaling for now:



You can remove the automatic backups for now and then simply create the database:

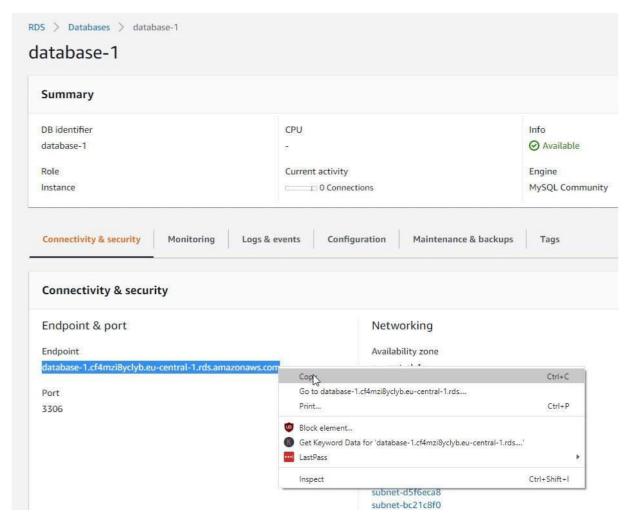


After creating the database, it will take a while until the database is ready. In the meantime, you can check the newly created credentials:



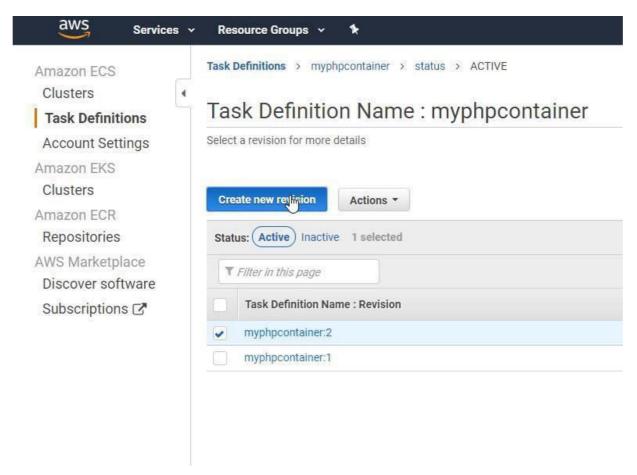
Connecting to the Database

To connect we need to copy the url and have the username and the password ready:

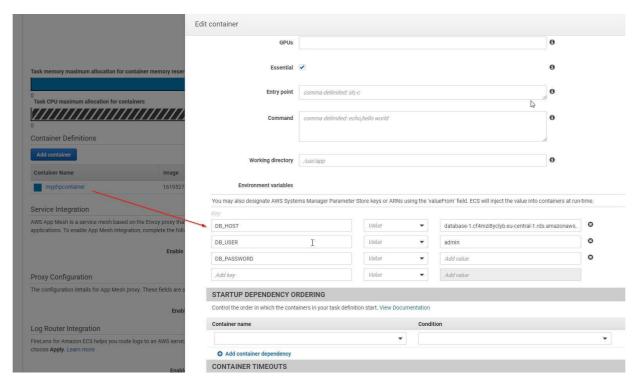


Let's add these parameters and environment variables to the task definition:

Create a new Revision



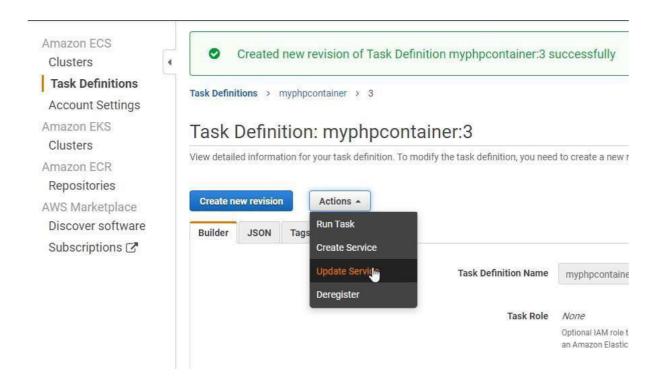
For the PHP container add some environment variables:



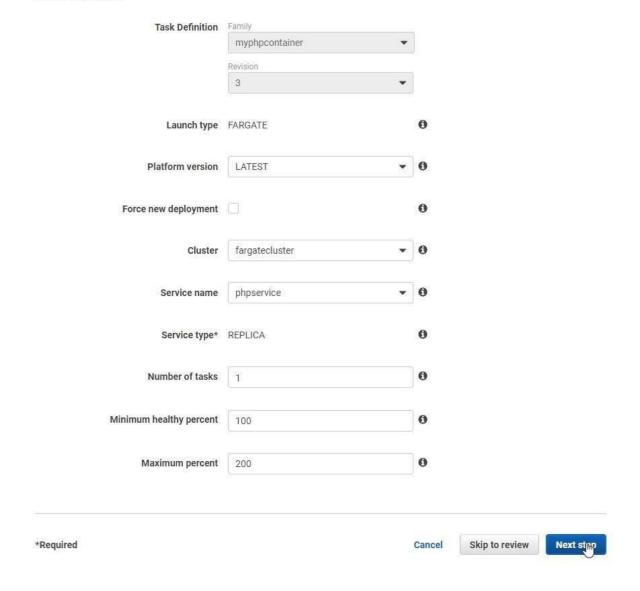
The host from your MySQL Instance, the username and password that was autogenerated.

Update the Service

Then save the service and update it:



A service lets you specify how many copies of your task definition to run and maintain in a cluster. You can optionally use an Elastic Load Balancing load balancer to distribute incoming traffic to containers in your service. Amazon ECS maintains that number of tasks and coordinates task scheduling with the load balancer. You can also optionally use Service Auto Scaling to adjust the number of tasks in your service.

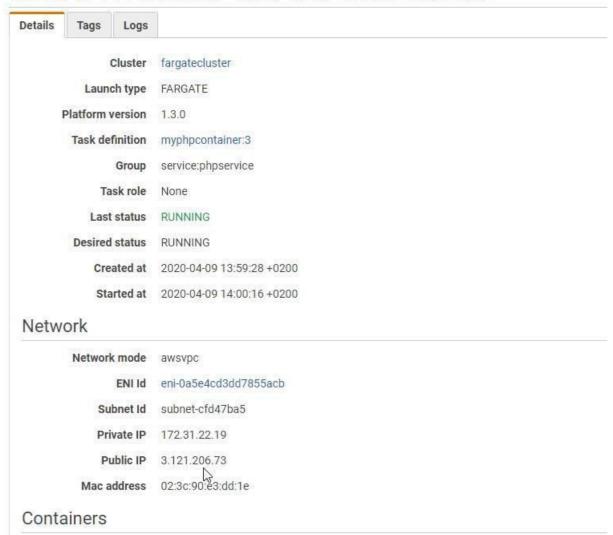


Try the new Service

After the service is "running" copy the IP Address again and open it in a new tab:

Clusters > fargatecluster > Task: d177f48a-29e3-46cc-a70f-5855143e5e7b

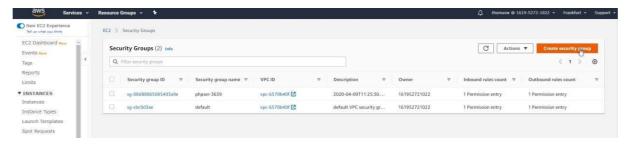
Task: d177f48a-29e3-46cc-a70f-5855143e5e7b



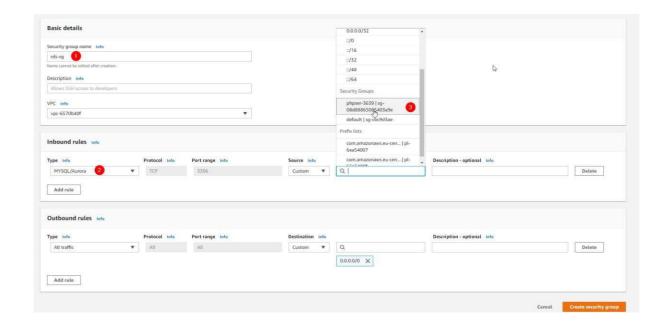
You will see it will time-out. Because our Security Group from the Database doesn't let any connections in. So we have to edit the mysql security group.

Edit the Security Group

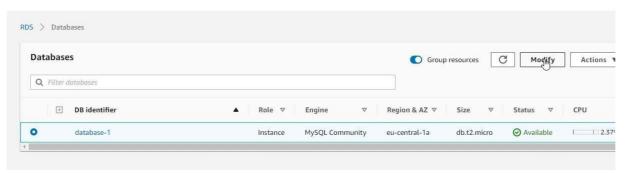
Head over to the EC2 Console and create a new security group:



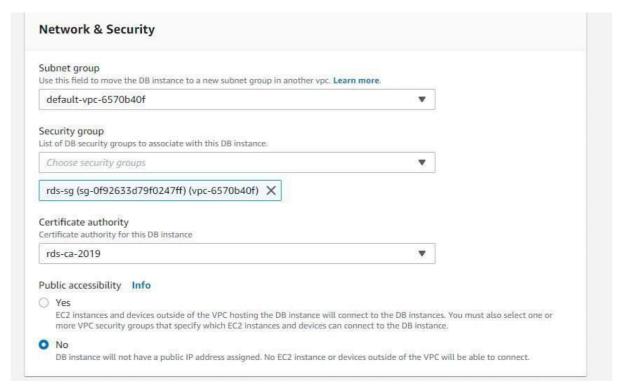
Give it a name, a description and allow MySQL/Aurora connection from your cluster security group, which most likely is called something like "phpser-***":

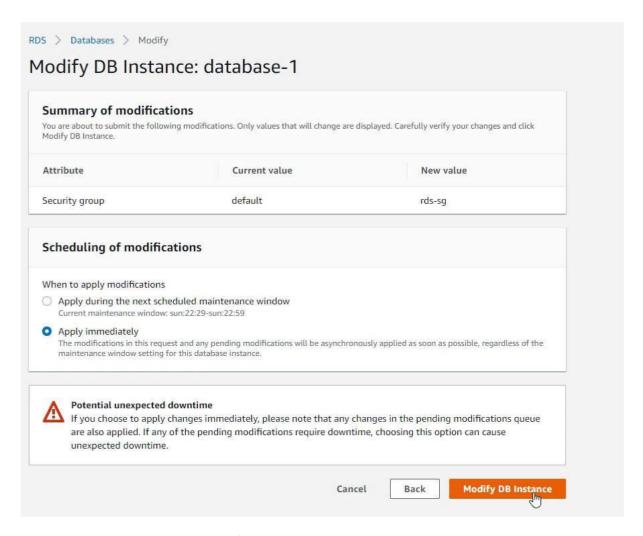


Then attach the new security group to your RDS instance:



Under "Network & Security" remove the security group and attach the newly created security group:





Wait until the security group is modified:



And then open the tab with the IP endpoint of your container again:

