Assignment-3:

Q) Create a VPC attached to lambda and also attach to the database ?

A) Lambda: AWS Lambda is a compute service that lets you run code without provisioning or managing servers.

Lambda runs your code on a high-availability compute infrastructure and performs all of the administration of the compute resources, including server and operating system maintenance, capacity provisioning and automatic scaling, and logging. With Lambda, all you need to do is supply your code in one of the language runtimes that Lambda supports.

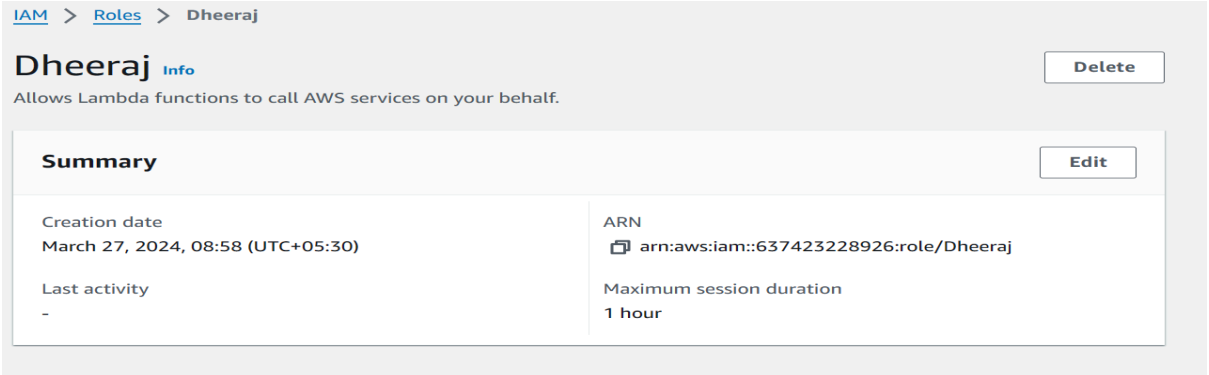
VPC (Virtual Private Cloud): Amazon VPC or Amazon Virtual Private Cloud is a service that allows its users to launch their virtual machines in a protected as well as isolated virtual environment defined by them.

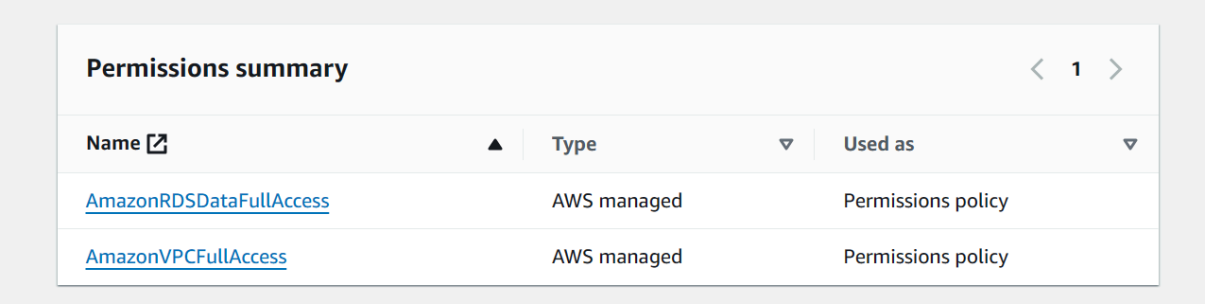
RDS (Relational Database): Amazon Web Services offers Amazon RDS a service where it is managed completely by AWS and also it offers wide range database engines like the following:

1. MySQL.
2. PostgreSQL.
3. Oracle.
4. SQL Server.

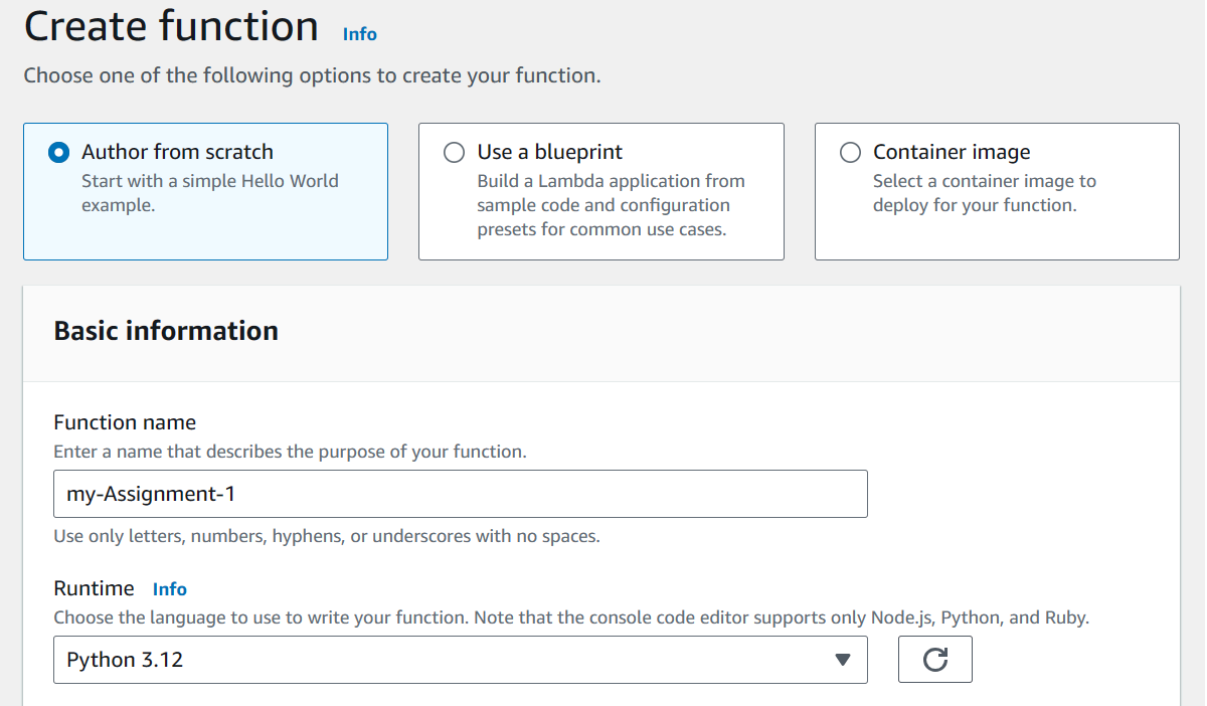
Practical:

- Create an IAM(Identity Access Manager) role for Lambda with a specific name & attach policy for VPC full access and RDS full access

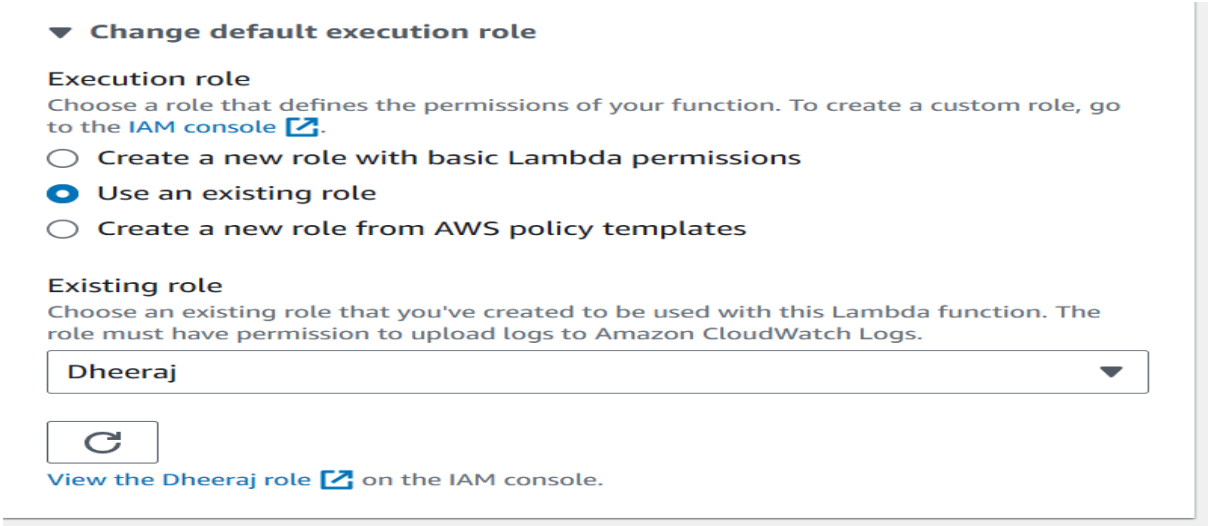




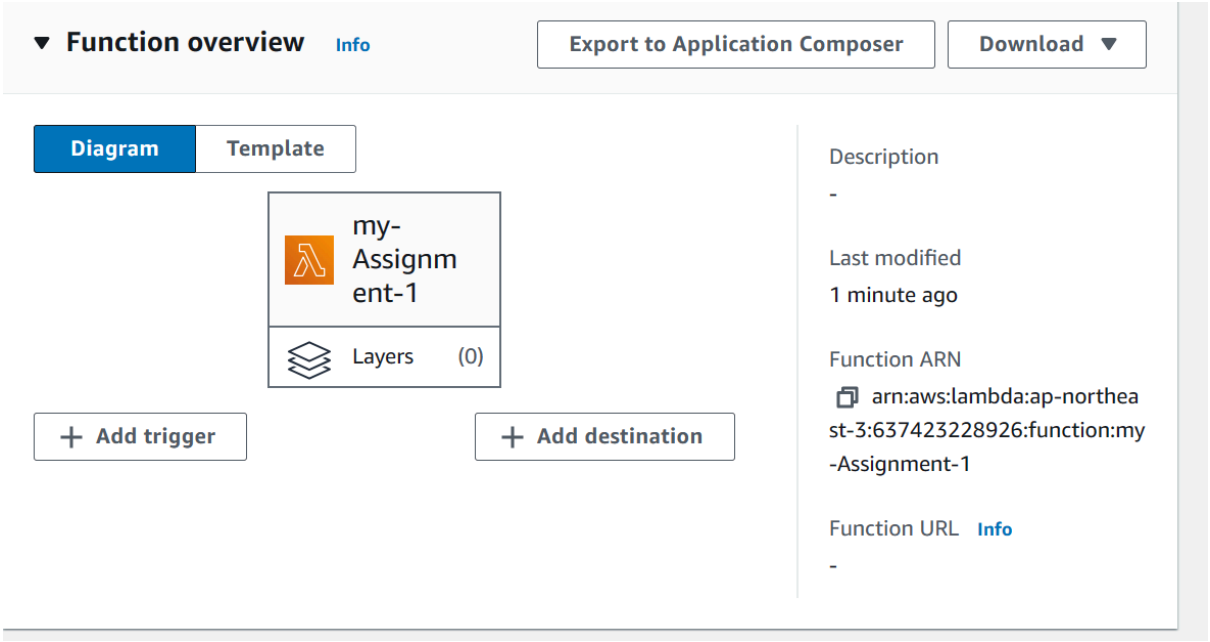
- Create a lambda function with runtime environment of latest version of python



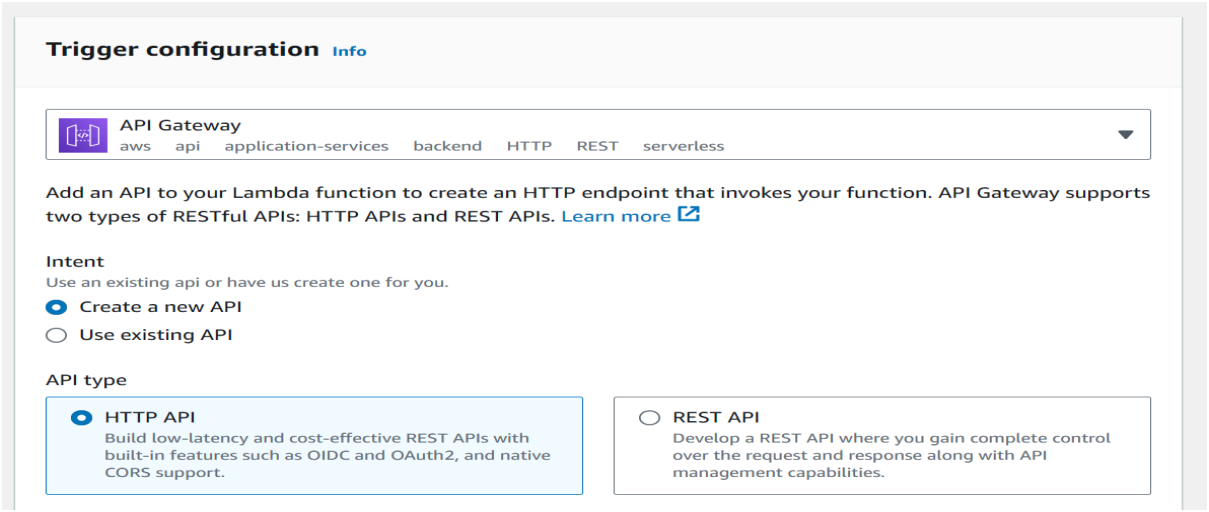
- Now select existing role dheeraj in lambda

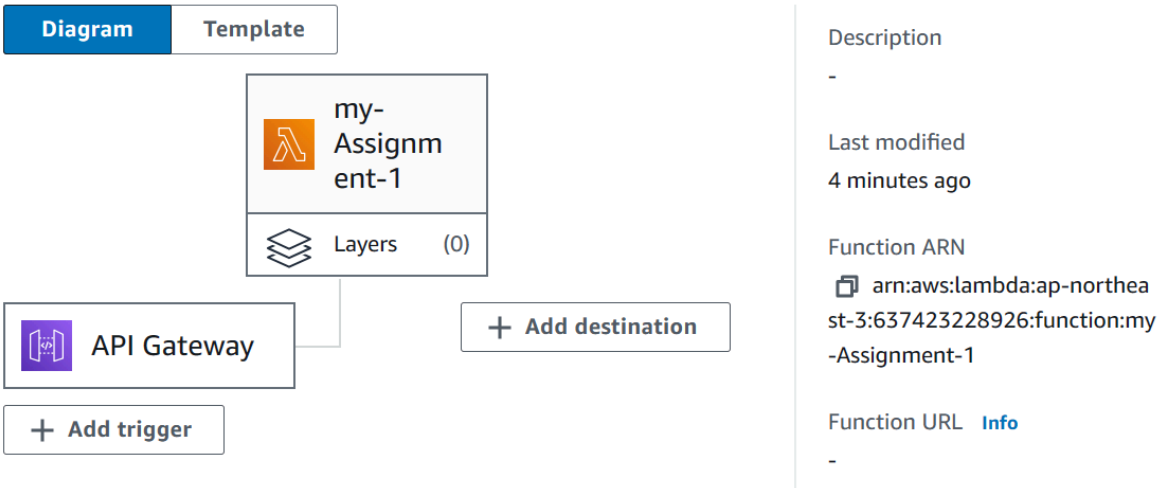


- Therefore our lambda function is created with the attached policies to it

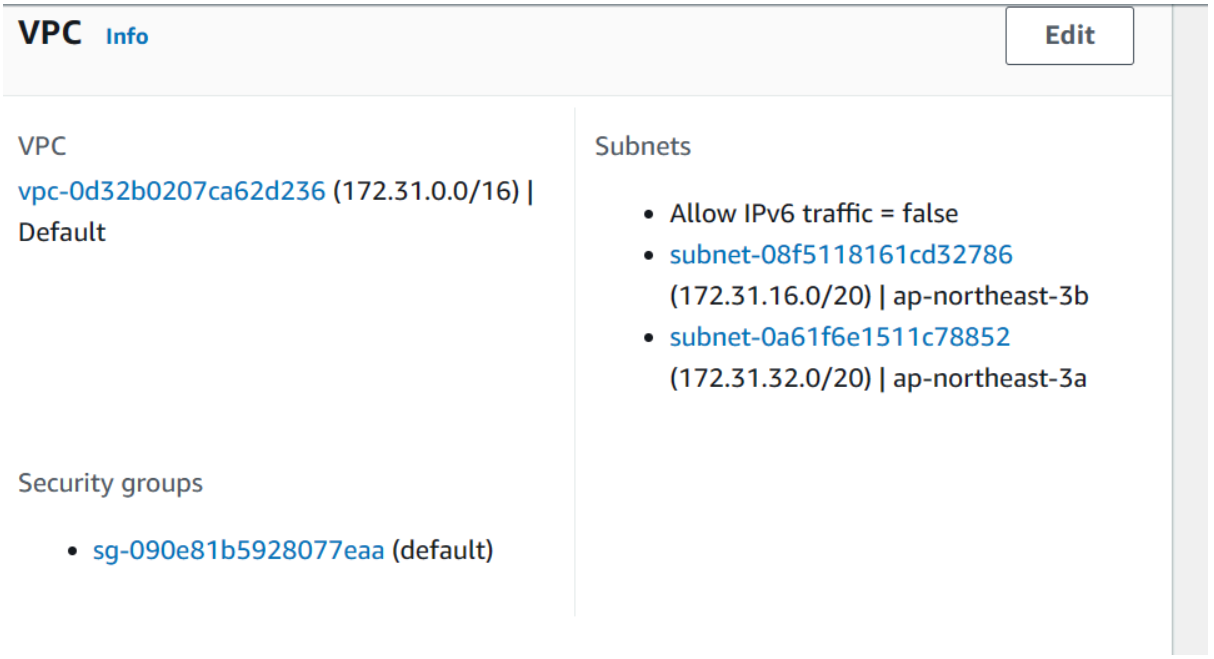


- Click on add the trigger and add the new API Gateway to it

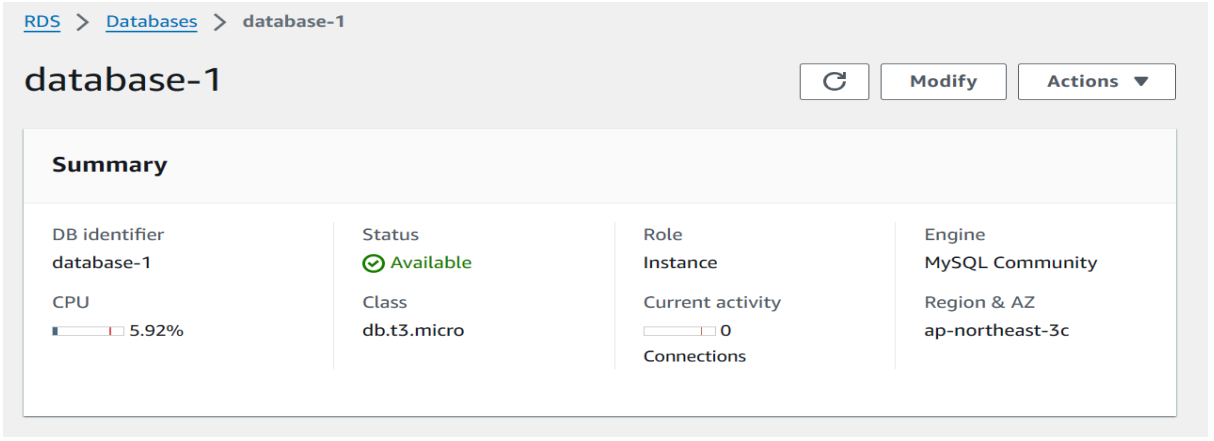


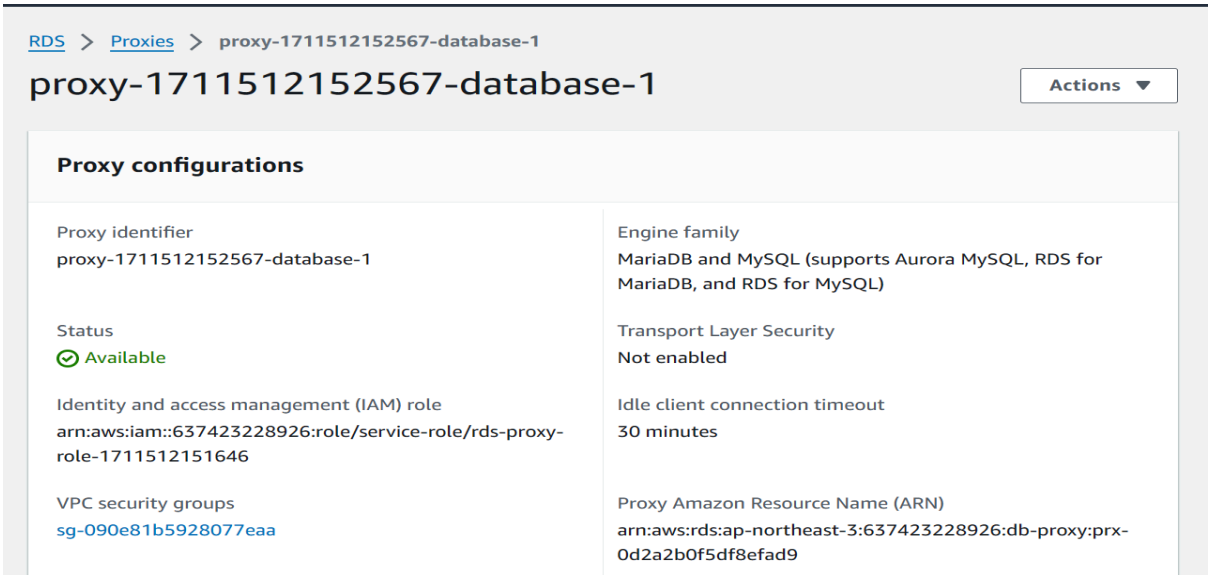


- After that goto the lambda configuration and create a VPC and attach them



- Now create RDS database with database proxy





- Now, Attach the database with lambada