ASSIGNMENT-03

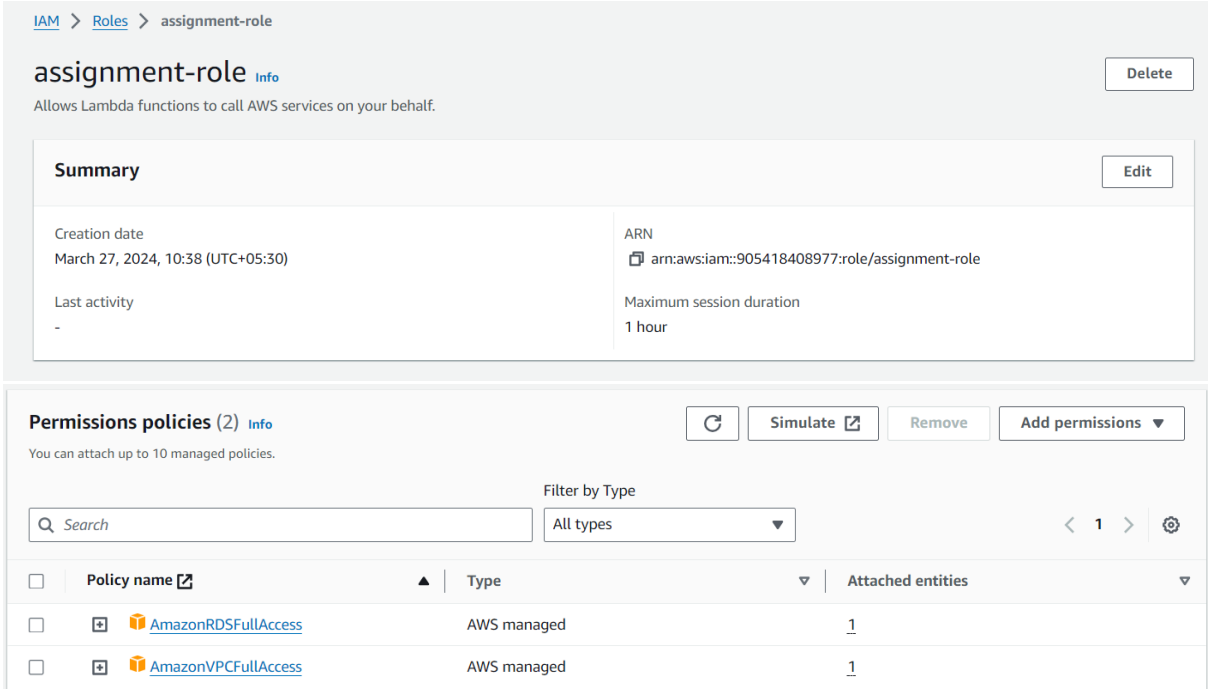
Q: Create a VPC attach to lambda and attach database to lambda.

Lambda: AWS Lambda is a compute service that lets us to run code without provisioning or managing servers.Lambda runs our 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 we need to do is supply our code in one of the language runtimes that Lambda supports.

VPC: With Amazon Virtual Private Cloud (Amazon VPC), we can launch AWS resources in a logically isolated virtual network that we have defined. This virtual network closely resembles a traditional network that we would operate in our own data center, with the benefits of using the scalable infrastructure of AWS.

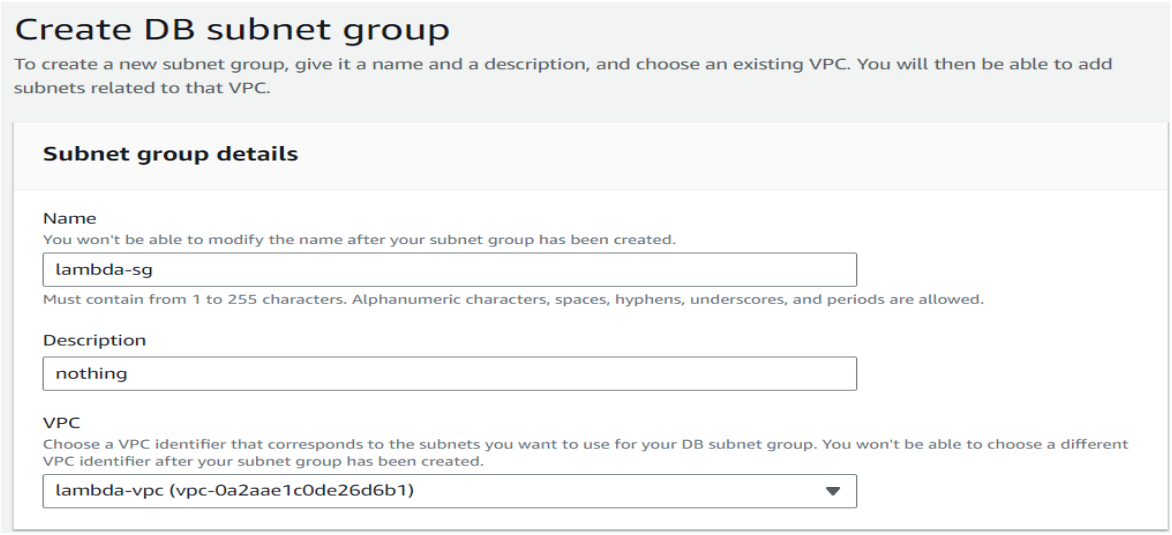
RDS: Amazon Relational Database Service (Amazon RDS) is a web service that makes it easier to set up, operate, and scale a relational database in the AWS Cloud. It provides cost-efficient, resizable capacity for an industry-standard relational database and manages common database administration tasks.

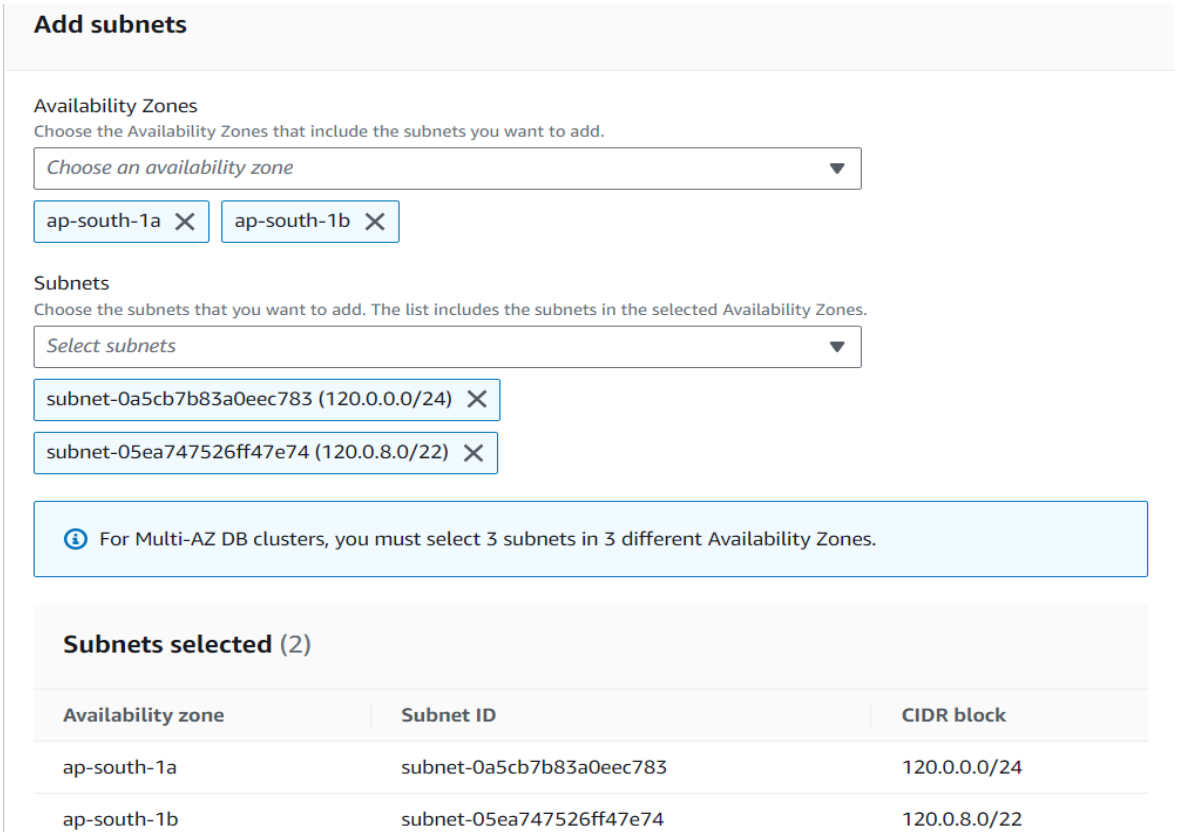
- Create IAM role for lambda give a specific name to the role and attach VPC full access and RDS full access policies to the IAM role.



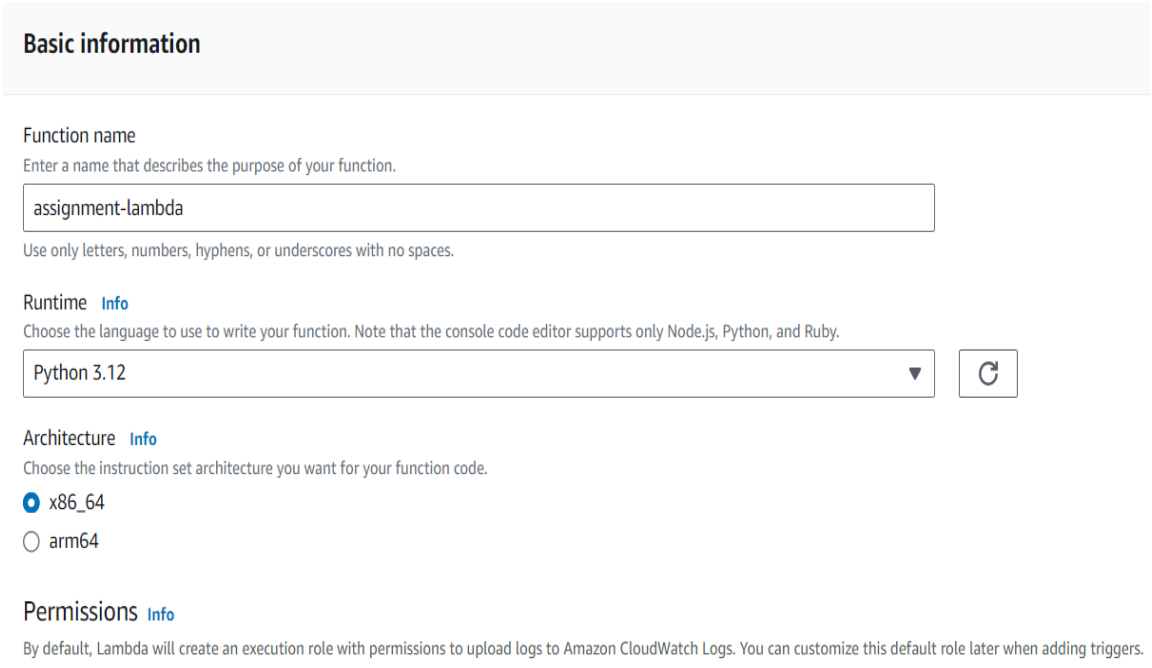
- Create a VPC with name [lambda-vpc]. And create two subnets one with internet connectivity and the other without internet connectivity in two different availability zones. Associate the subnets to the routes.

- Now create database subnet groups in RDS give Name, Description, and attach the created VPC to the subnet group. And add the subnets and availability zones of the VPC.

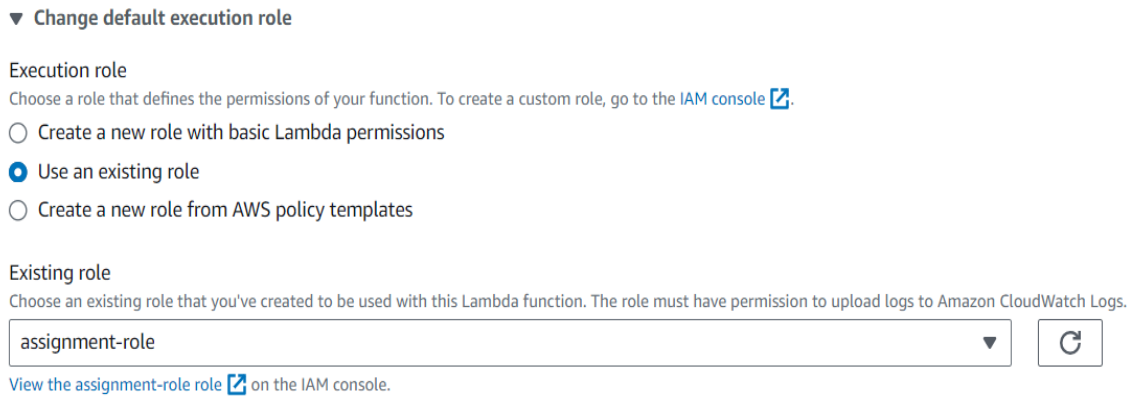




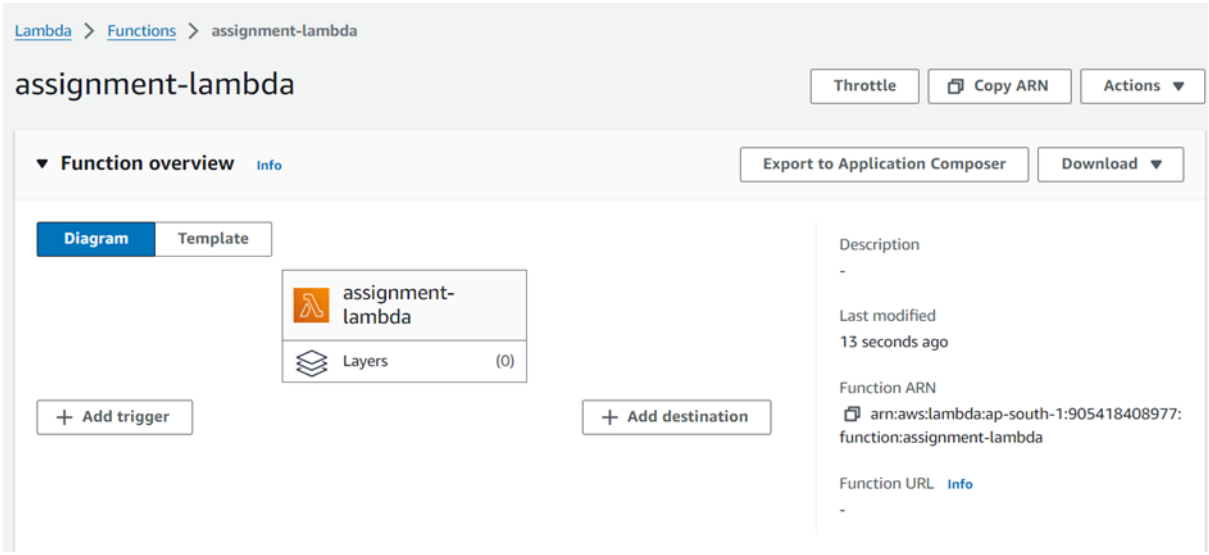
- Create a function in lambda function with runtime environment of latest version of python



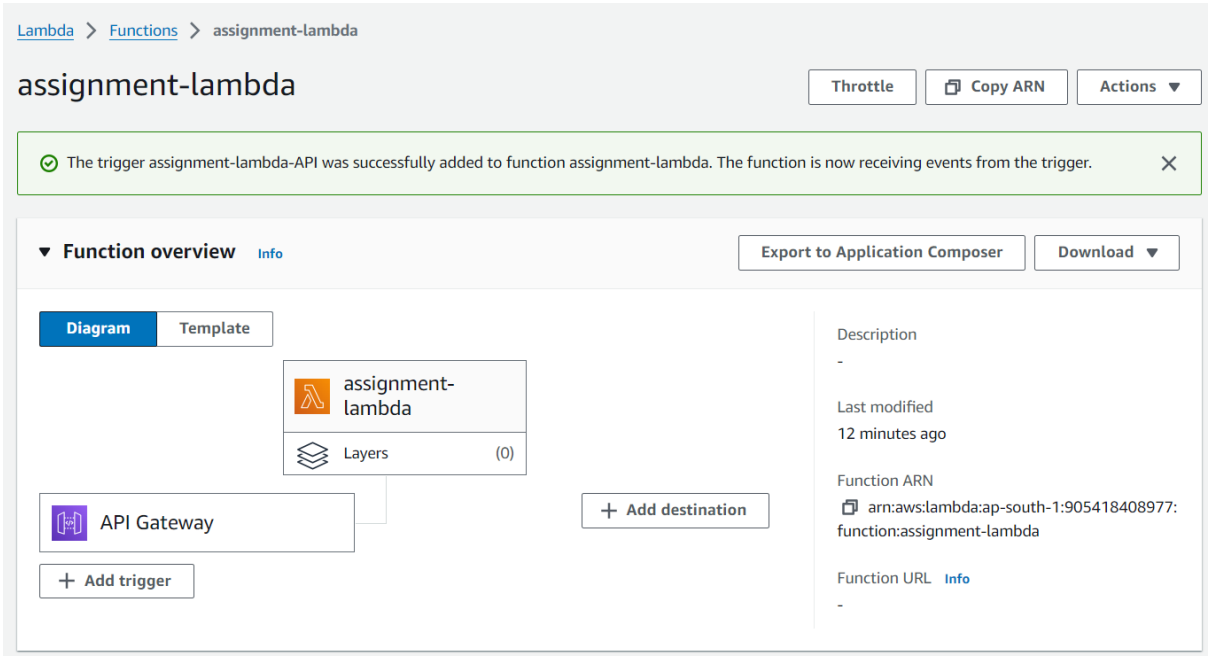
- Select an existing role in lambda [assignment-role]



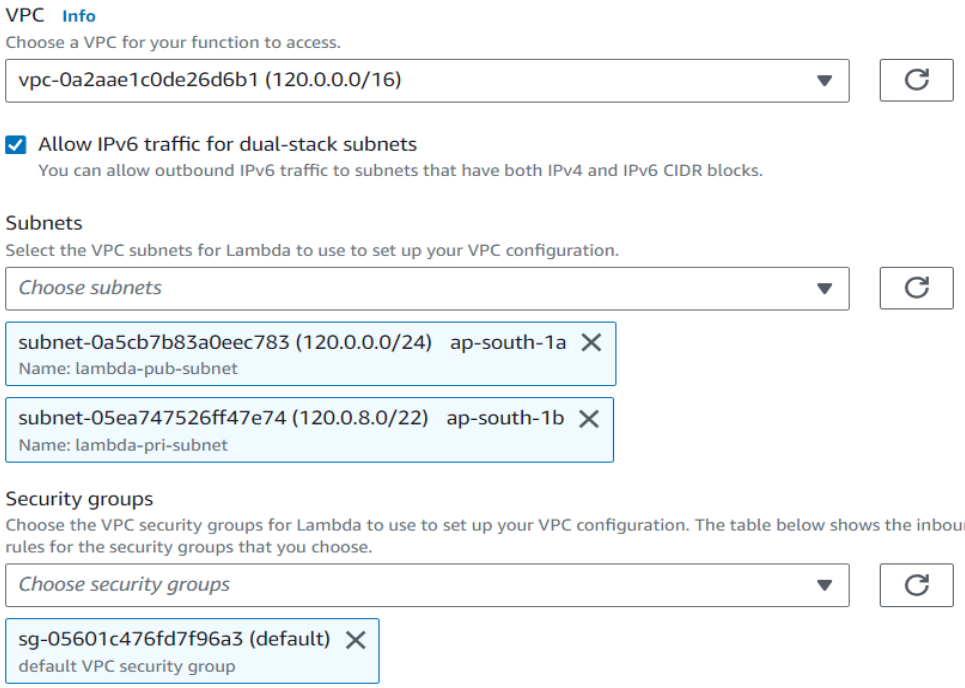
- And then proceed to create function



- Click on add triggers and add a new API gateway



- Goto lambda configuration and attach the created VPC



- Now create database and attach to the lambda