## Assignment

1. Create a system that executes three AWS Lambda functions in sequence, where each function processes the output from the previous function based on an initial input

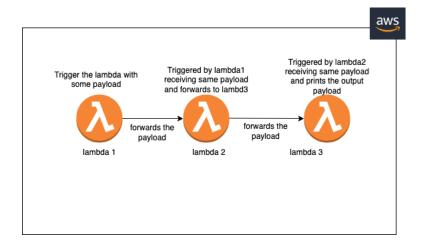
## Solution

## **Tech Stack**

- 1. AWS (lambda)
- 2. Terraform (Infra Provision)
- 3. Github (Source Code)
- 4. python

Repo -> https://github.com/venkat-raju0492/freyr/tree/main/2/lambdas

#### Architecture Diagram



## Python code ->

https://github.com/venkat-raju0492/freyr/tree/main/2/app1

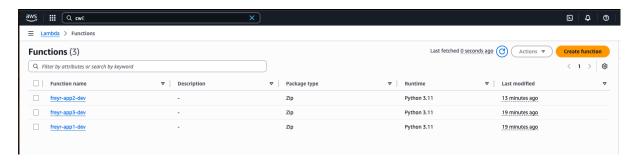
https://github.com/venkat-raju0492/freyr/tree/main/2/app2

https://github.com/venkat-raju0492/freyr/tree/main/2/app3

# Terrform code -> <a href="https://github.com/venkat-raju0492/freyr/tree/main/2/lambdas">https://github.com/venkat-raju0492/freyr/tree/main/2/lambdas</a>

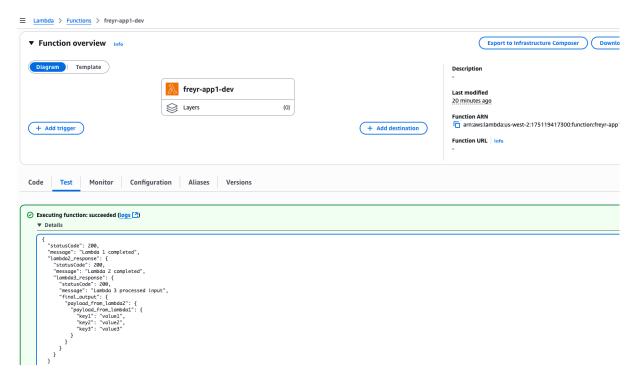
## All three lambdas are deployed

Triggering the lambda function1 with sample payload it shall forward it to lambda2 with the arn provide in the environment variables, lambda2 gets invoked by lambda1 and receives all the payload and forwards it to lambda3 with its arn provided in the environment variables, lambda3 is invoked by lambda2 and prints the payload it received



## Triggering the lambda1 with payload

## Output logs of lambda1



## Lambda2 logs



## Lambda3 logs



#### Conclusion

lambda1 (payload forward) -> lambda2(receives payload and forwards) -> lambda3 (prints payload)

### Soultion2:

We can also achieve sequential lambda triggers using aws step functions