Acessando Recursos AWS no LocalStack

```
O Lambda precisa de um IAM Role para a sua execução:
aws --endpoint http://localhost:4566 \
 --profile localstack acksim
  iam create-role
--role-name lambda-execution \
--assume-role-policy-document "{\"Version\": \"2012-10-17\",\"Statement\": [{\"Effect\": \"Allow\", \"Principal\": {\"Service\": \"lambda.amazonaws.com\"}, \"Action\": \"sts:AssumeRole\"}]}"
Com a IAM Role criada, vamos incluir a policy de execução:
aws --endpoint http://localhost:4566 --profile localstack \
  iam attach-role-policy
  --role-name lambda-execution \
  --policy-arn arn:aws:iam::aws:policy/service-role/AWSLambdaBasicExecutionRole
Efetuamos a implantação do Lambda no LocalStack com o seguinte comando:
aws --endpoint http://localhost:4566 --profile localstack \ lambda create-function \
  --function-name Helloworld \
  --zip-file fileb://Helloworld-1.0.jar \
--handler helloworld.App \
  --runtime java11 \
  --role arn:aws:iam::00000000000:role/lambda-execution
Executando o Lambda e verificando se foi instalado corretamente:
aws --endpoint http://localhost:4566 --profile localstack \
  lambda invoke \
  --function-name Helloworld out.txt \
  --log-type Tail
Caso tenha executado com sucesso, o arquivo out.txt terá o seguinte conteúdo:
main.tf # Terraform
terraform {
  required_providers {
    aws = {
      source = "hashicorp/aws"
       version = "~> 5.0
  }
provider "aws" {
                                   = "test"
  access_key
                                   = "test"
  secret_key
                                   = "sa-east-1"
  region
  skip_credentials_validation = true
  skip_metadata_api_check
                                   = true
  skip_requesting_account_id = true
  endpoints {
  iam = "http://localhost:4566"
  lambda = "http://localhost:4566"
}
resource "aws_iam_role" "lambda_execution_role" {
  name = "lambda-execution"
  assume_role_policy = jsonencode({
    Version = "2012-10-17"
    Statement = [
         Effect = "Allow"
         Principal = {
   Service = "lambda.amazonaws.com"
         Action = "sts:AssumeRole"
    ]
 })
```

```
resource "aws_lambda_function" "hello_world_function" {
   function_name = "BookFunction"
   handler = "bookfunction.controller.BookFunction::handleRequest"
   runtime = "java11"
   memory_size = 512
   timeout = 30
   filename = "target/HelloWorld-1.0.jar" # Path to the JAR file
   source_code_hash = filebase64sha256("target/HelloWorld-1.0.jar")
   role = aws_iam_role.lambda_execution_role.arn
}

Testando:
aws --endpoint http://localhost:4566 --profile localstack lambda invoke --function-name
BookFunction out.txt --log-type Tail

aws --endpoint http://localhost:4566 --profile localstack \
   lambda invoke \
   -function-name BookFunction out.txt \
   -payload '{"httpMethod": "GET", "path": "/"}' \
   -cli-binary-format raw-in-base64-out \
   --log-type Tail
```