Experiment 5 Output

Aim: In this experiment AWS Lambda deployment, execution, and testing are done using **AWS CLI** and **LocalStack**. The runtime image is pulled from **Amazon ECR** via **Docker**. This simulates a serverless environment for function invocation and validation.

Creating Lambda Function

Pulling Amazon ECR for execution



Fig 1: VPC Setup

3.8: Pulling from lambda/python bc2b3a540f9b: Pull complete 7e7a8ab075f3: Pull complete eb63e7acde8e: Pull complete 35e8cd243a50: Pull complete d4160264f321: Pull complete 32e94a394cab: Pull complete Digest: sha256:93e78742873d3ad0c28582366b217ce5169889f4c Status: Downloaded newer image for public.ecr.aws/lambda public.ecr.aws/lambda/python:3.8 REPOSITORY TAG IMAGE ID flask-app latest 269bf42596ed <none> 44b808030263 <none> 063caad47b0a <none> <none> localstack/localstack b686f3948f42 latest 74cc54e27dc4 hello-world latest public.ecr.aws/lambda/python 348b357f1c82

Fig 2: Docker Pulling and Output Image

Listing working Functions

	ListFunctions
	Functions
CodeSha256 CodeSize Description FunctionArn FunctionName Handler LastModified MemorySize PackageType RevisionId Role Runtime Timeout Version	G16xwAmelqgPBfzQVMlj7SR/dZS5lTV2WSY8mGqvvRw= 312 arn:aws:lambda:us-east-1:000000000000:function:myLmyLambdaFunction lambda_function.lambda_handler 2025-02-18T14:59:44.179009+0000 128 Zip 63fa3566-804e-4b8c-94c6-a8b3e65e6d02 arn:aws:iam::0000000000000:role/execution_role python3.8 3 \$LATEST
	Architectures
x86_64	
<u> </u>	EphemeralStorage
Size	512
	LoggingConfig
LogFormat LogGroup	Text /aws/lambda/myLambdaFunction
+	

Fig 3: Lambda working Function

Lambda Function invoking with Payload



Fig 4: Lambda Function Output