#### STEP-1:

#### Start LocalStack

>>localstack start

## Configure AWS CLI to use LocalStack

>>aws configure --profile localstack

>>AWS Access Key ID [None]: test

>>AWS Secret Access Key [None]: test

>>Default region name [None]: us-east-1

>>Default output format [None]: json

#### Set environment variables

export AWS\_ACCESS\_KEY\_ID=test export AWS\_SECRET\_ACCESS\_KEY=test export AWS\_DEFAULT\_REGION=us-east-1 export LOCALSTACK\_HOSTNAME=localhost

# STEP-2:Create SNS Topics and SQS Queues

## 1.Create SNS Topics:

aws --endpoint-url=http://localhost:4566 sns create-topic --name broadcast-topic

aws --endpoint-url=http://localhost:4566 sns create-topic --name communication-topic

aws --endpoint-url=http://localhost:4566 sns create-topic --name entity-topic

#### 2.Create SQS Queues:

aws --endpoint-url=http://localhost:4566 sgs create-gueue --gueue-name broadcast-gueue

aws --endpoint-url=http://localhost:4566 sqs create-queue --queue-name email-queue

aws --endpoint-url=http://localhost:4566 sqs create-queue --queue-name sms-queue

aws --endpoint-url=http://localhost:4566 sqs create-queue --queue-name entity-queue

### 3. Subscribe SQS Queues to SNS Topics:

aws --endpoint-url=http://localhost:4566 sns subscribe --topic-arn

arn:aws:sns:us-east-1:000000000000:broadcast-topic --protocol sqs --notification-endpoint

arn:aws:sqs:us-east-1:00000000000:broadcast-queue

aws --endpoint-url=http://localhost:4566 sns subscribe --topic-arn

arn:aws:sns:us-east-1:0000000000000communication-topic --protocol sqs --notification-endpoint

arn:aws:sqs:us-east-1:00000000000:email-queue

aws --endpoint-url=http://localhost:4566 sns subscribe --topic-arn

arn:aws:sns:us-east-1:00000000000000:communication-topic --protocol sqs --notification-endpoint

arn:aws:sqs:us-east-1:00000000000:sms-queue

aws --endpoint-url=http://localhost:4566 sns subscribe --topic-arn

arn:aws:sns:us-east-1:0000000000000:entity-topic --protocol sqs --notification-endpoint

arn:aws:sqs:us-east-1:00000000000:entity-queue

### STEP-3:

Run the server: node index.js

```
PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

/Users/islavathyoginadh/.zshrc:6: unmatched "
o islavathyoginadh@Islavaths-MacBook-Pro sns-sqs-api % node index.js

Server is running on port 3000
```

## STEP-4:Test the APIs

#### Publish a Message for broadcast Event

curl -X POST http://localhost:3000/publish -H "Content-Type: application/json" -d '{"message": "Hello World!", "eventType": "broadcast"}'

```
/Users/islavathyoginadh/.zshrc:6: unmatched "
islavathyoginadh@islavaths-MacBook-Pro sns-sqs-api % curl -X POST http://localhost:3000/publish -H "Content-Type: application/json" -d '{"message": "Hello World!", "eve not type": "broadcast"}'

{"smetadata":{"httpStatusCode":200,"attempts":1,"totalRetryDelay":0},"MessageId":"85a3f3b4-6c30-41f9-ab62-4541ffe8de21"}
islavathyoginadh@Islavaths-MacBook-Pro sns-sqs-api % []
```

### Publish a Message for communication Event

curl -X POST http://localhost:3000/publish \

- -H "Content-Type: application/json" \
- -d '{"message": "Communication message!", "eventType": "communication"}'

## Publish a Message for entity Event

curl -X POST http://localhost:3000/publish \

- -H "Content-Type: application/json" \
- -d '{"message": "Entity message!", "eventType": "entity"}'

## **Consume Messages:**

## Consume Messages from broadcast SQS Queue

curl http://localhost:3000/consume/broadcast

⊃ islavathyoginadh@Islavaths—MacBook—Pro sns—sqs—api % 🗍

# Consume Messages from communication SQS Queue

curl http://localhost:3000/consume/communication

## Consume Messages from entity SQS Queue

curl http://localhost:3000/consume/entity