## Use case

## End-to-end microservice deployment with monitoring

## **Use case Description**

Build a serverless microservices-based order management system using AWS Lambda, API Gateway, and DynamoDB. Integrated Step Functions for order workflows and SNS for real-time email notifications on order status updates.

## **Approach**

- 1. Create Dynamo DB tables for inventory, users and orders
- 2. Write Lambda codes to
  - scan and check inventory
  - Create new user
  - Create Orders
- 3. Create step function to orchestrate the workflow
- 4. Create SNS topic to trigger emails
- 5. While creating user, read email from the input and subscribe to the topic
- 6. Create OrderStatus update Lambda to send updates through email notification
- 7. Create API Gateway endpoints and test through postman











