04-11-2025 Task-2

Sri Perumbuduri D M S Satyanarayana

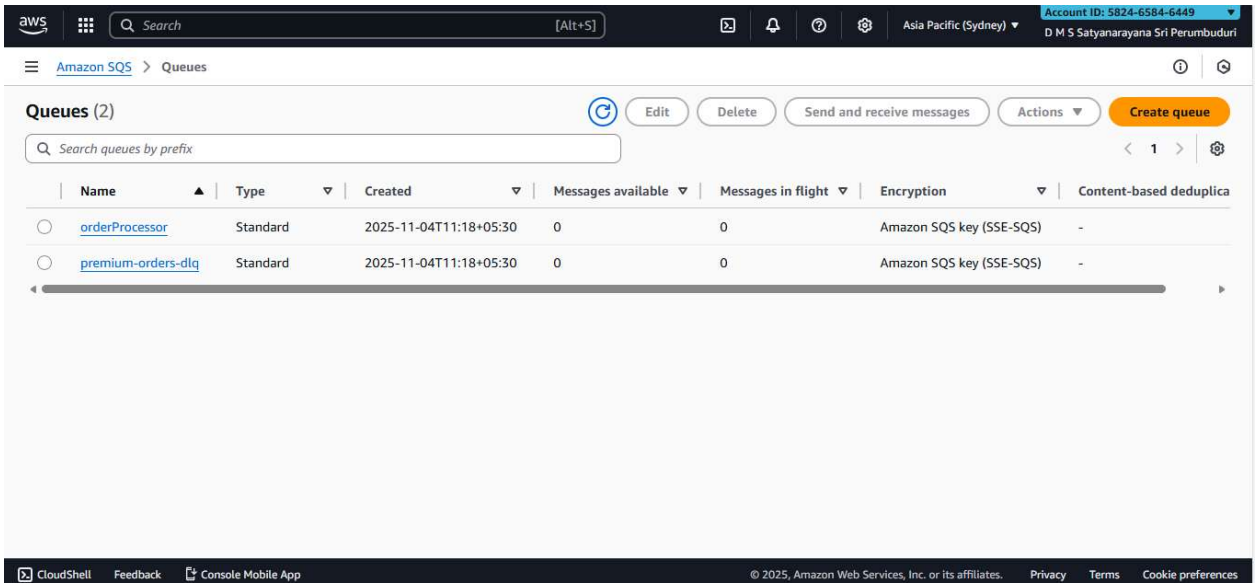
ENC\16800

Objective

Design and implement a real-time data processing pipeline for an e-commerce application that handles order events with the following requirements

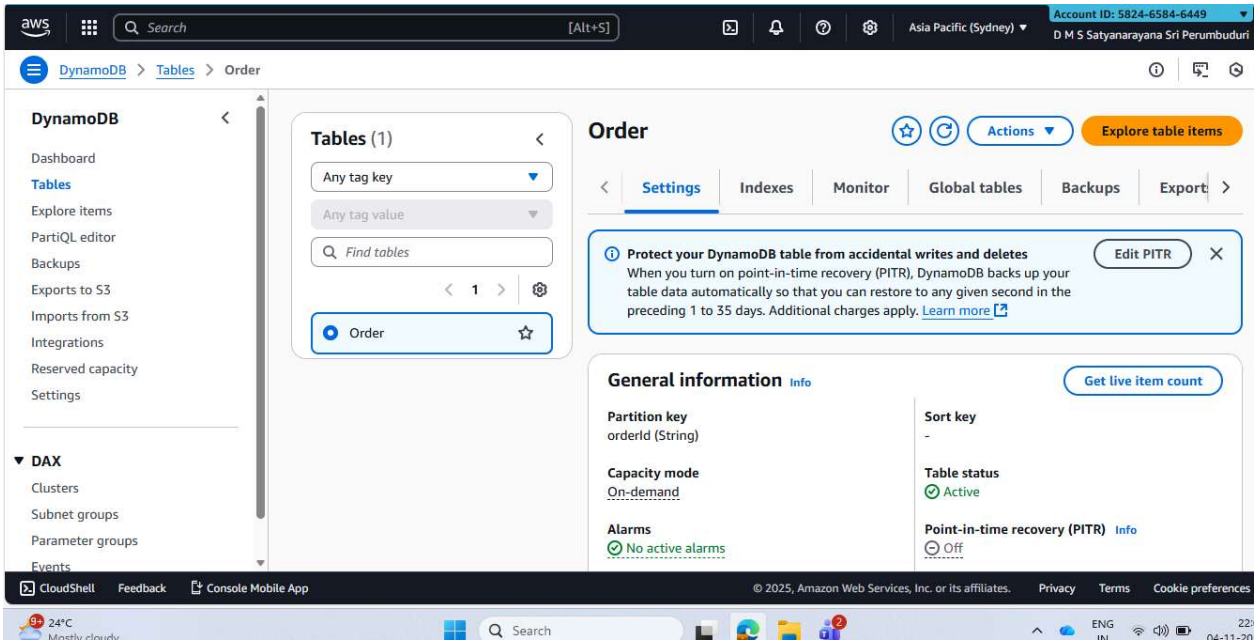
Step1: Create an SQS Queue

Use Amazon SQS to create a queue (standard or FIFO depending on message ordering requirements).Standard queues: high throughput, at-least-once delivery.FIFO queues: exactly-once processing, preserve message order.

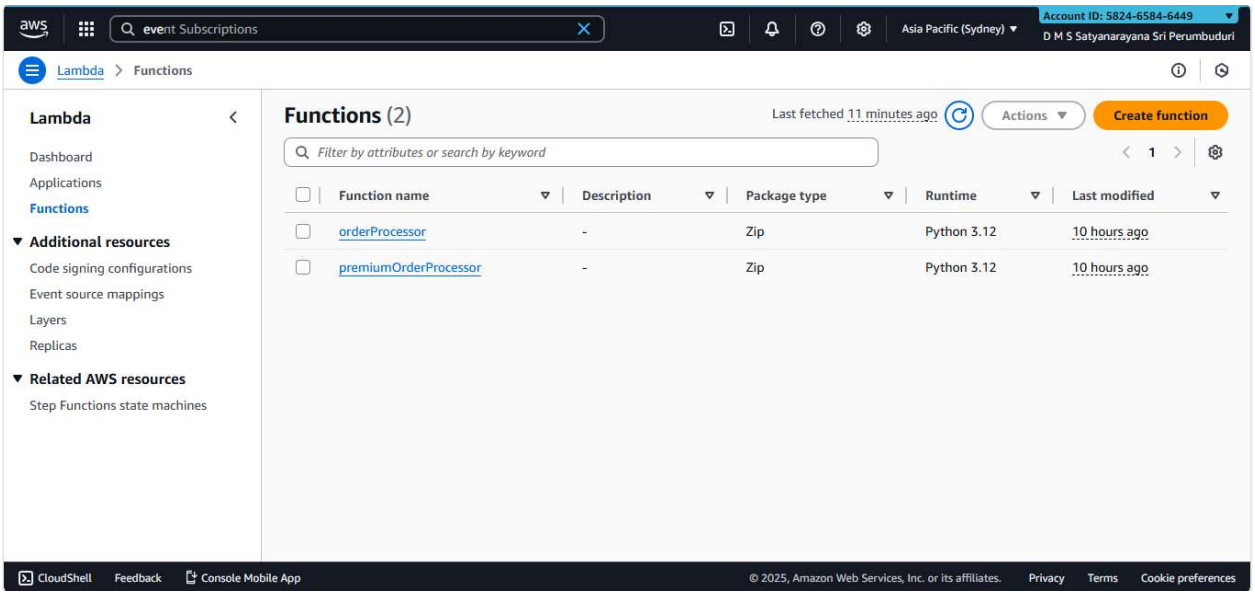


Step2: Implement DynamoDB Table

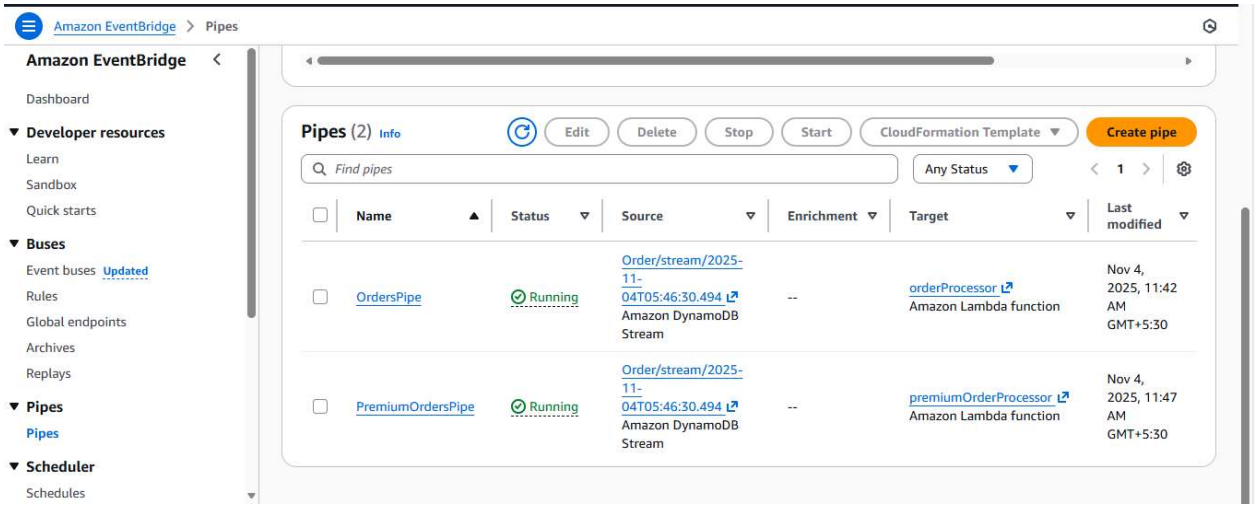
Enable DynamoDB streams



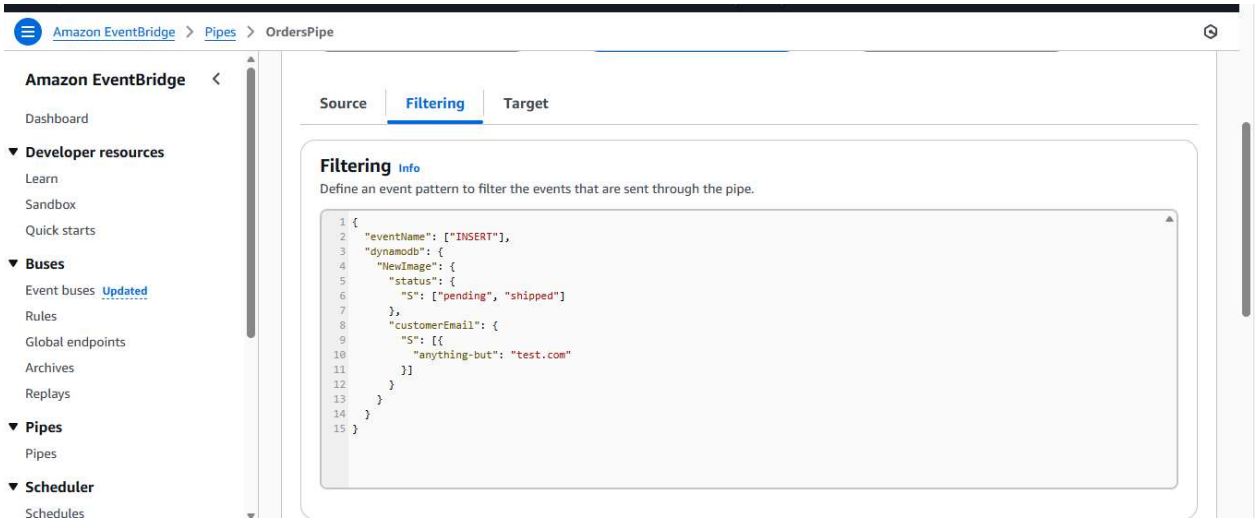
Step3: Lamda Function to process message body



Step4 : Create Event Bridge Pipes



Filters in Event Bridge pipes



Lamda Function for processing messages

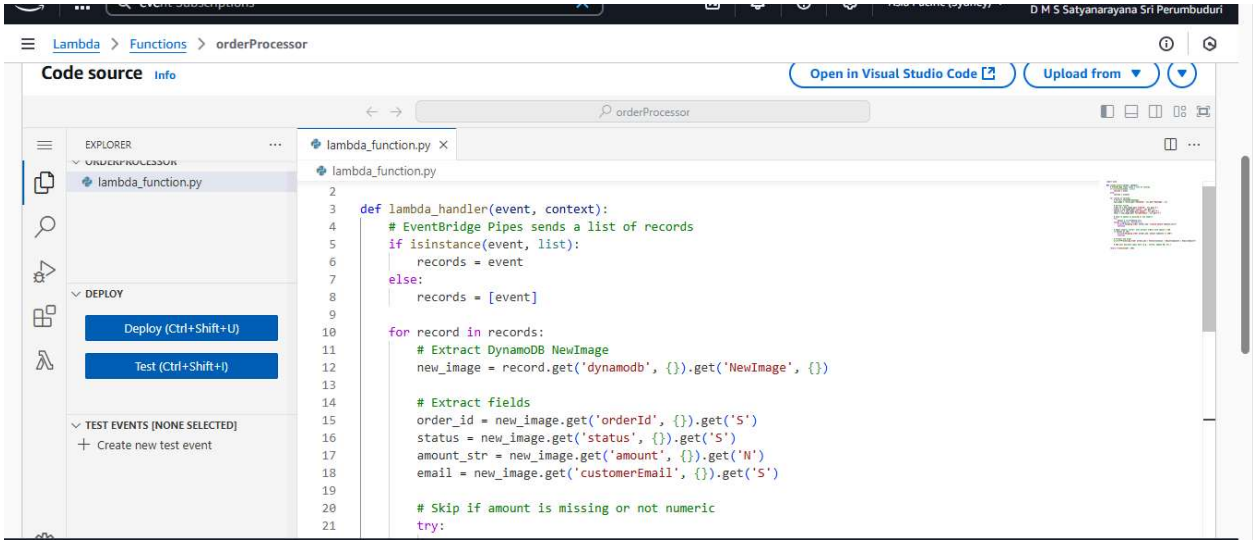
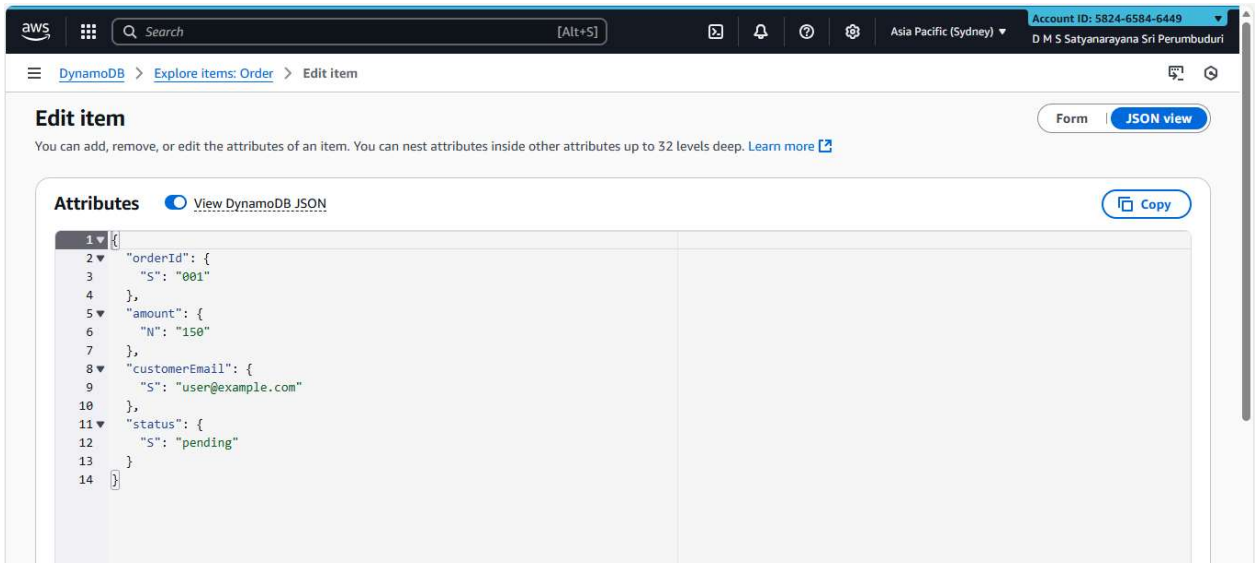
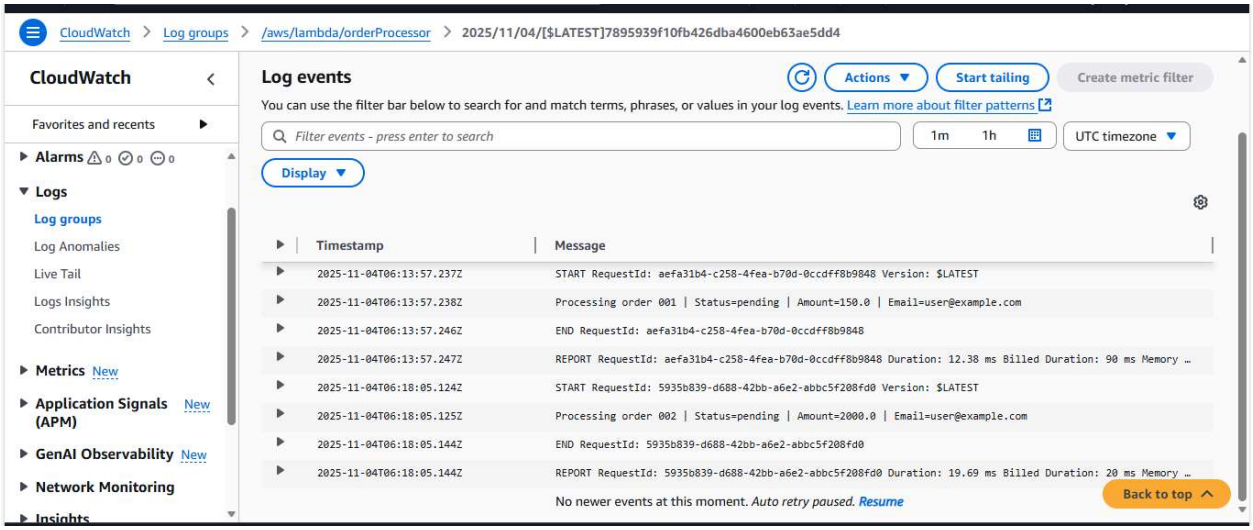


Table contents



Cloud Watch Logs


CloudWatch
Log groups
/aws/lambda/orderProcessor
2025/11/04/[$LATEST]7895939f10fb426dba4600eb63ae5dd4
CloudWatch
Favorites and recents
Alarms 0 0 0
Logs
Log groups
Log Anomalies
Live Tail
Logs Insights
Contributor Insights
Metrics New
Application Signals (APM) New
GenAI Observability New
Network Monitoring
Insights
Log events
Actions
Start tailing
Create metric filter
You can use the filter bar below to search for and match terms, phrases, or values in your log events. Learn more about filter patterns
Filter events - press enter to search
1m
1h
UTC timezone
Display
Timestamp
Message
2025-11-04T06:13:57.237Z START RequestId: aefa31b4-c258-4fea-b70d-0ccdff8b9848 Version: $LATEST
2025-11-04T06:13:57.238Z Processing order 001 | Status=pending | Amount=150.0 | Email=user@example.com
2025-11-04T06:13:57.246Z END RequestId: aefa31b4-c258-4fea-b70d-0ccdff8b9848
2025-11-04T06:13:57.247Z REPORT RequestId: aefa31b4-c258-4fea-b70d-0ccdff8b9848 Duration: 12.38 ms Billed Duration: 90 ms Memory …
2025-11-04T06:18:05.124Z START RequestId: 5935b839-d688-42bb-a6e2-abbc5f208fd0 Version: $LATEST
2025-11-04T06:18:05.125Z Processing order 002 | Status=pending | Amount=2000.0 | Email=user@example.com
2025-11-04T06:18:05.144Z END RequestId: 5935b839-d688-42bb-a6e2-abbc5f208fd0
2025-11-04T06:18:05.144Z REPORT RequestId: 5935b839-d688-42bb-a6e2-abbc5f208fd0 Duration: 19.69 ms Billed Duration: 20 ms Memory …
No newer events at this moment. Auto retry paused. Resume
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