



Reliable Kafka-Lambda Data Pipelines with AsyncAPI

Testing Data pipeline using Specmatic & LocalStack

Hari Krishnan

Co-Founder and CTO @ Specmatic

Founder and CEO @ Polarizer Technologies

<http://harikrishnan.io>

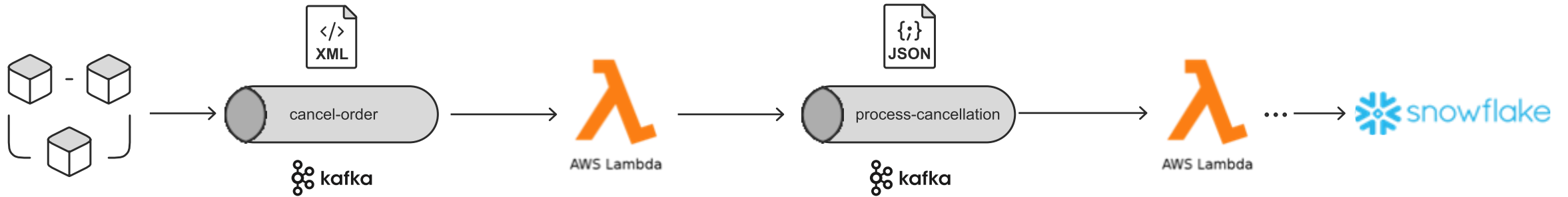


DOWNLOAD & USE **THE CONFERENCE APP**

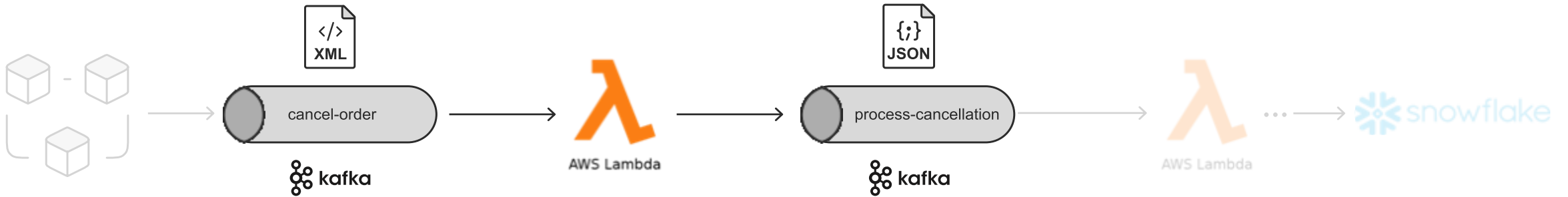
DOWNLOAD THE APP
NETWORK WITH OTHERS
RATE SESSIONS



Context - Data Pipeline

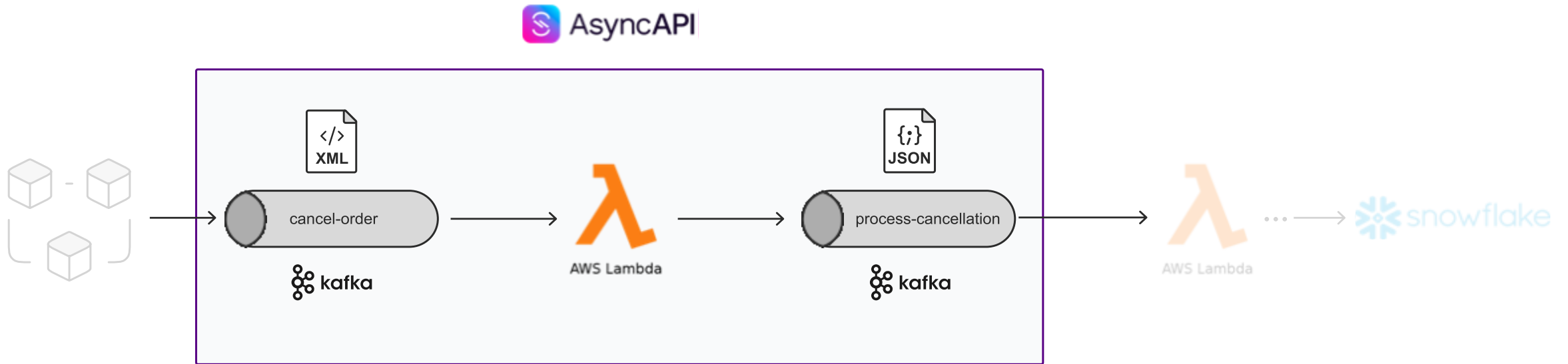


Focusing on one Lambda

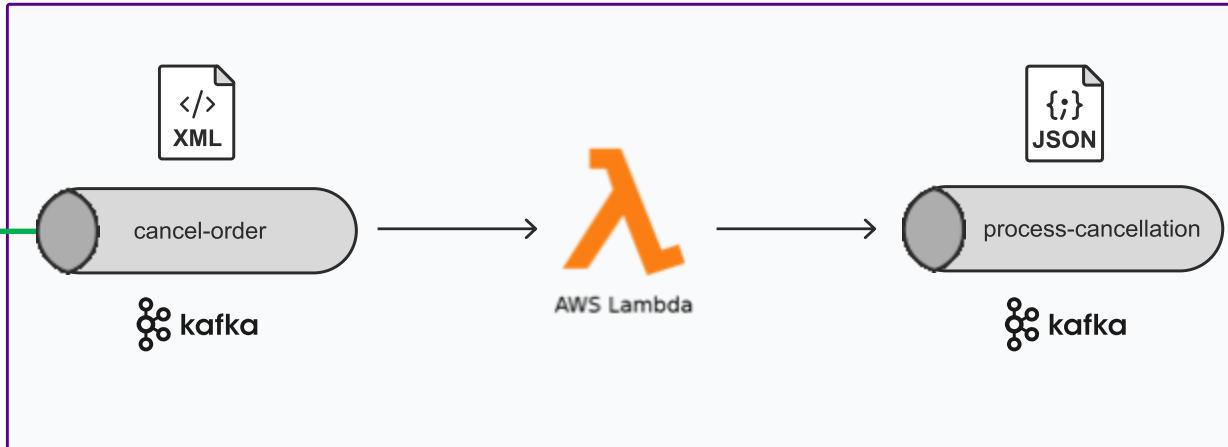


Capturing its interface

aws goto;

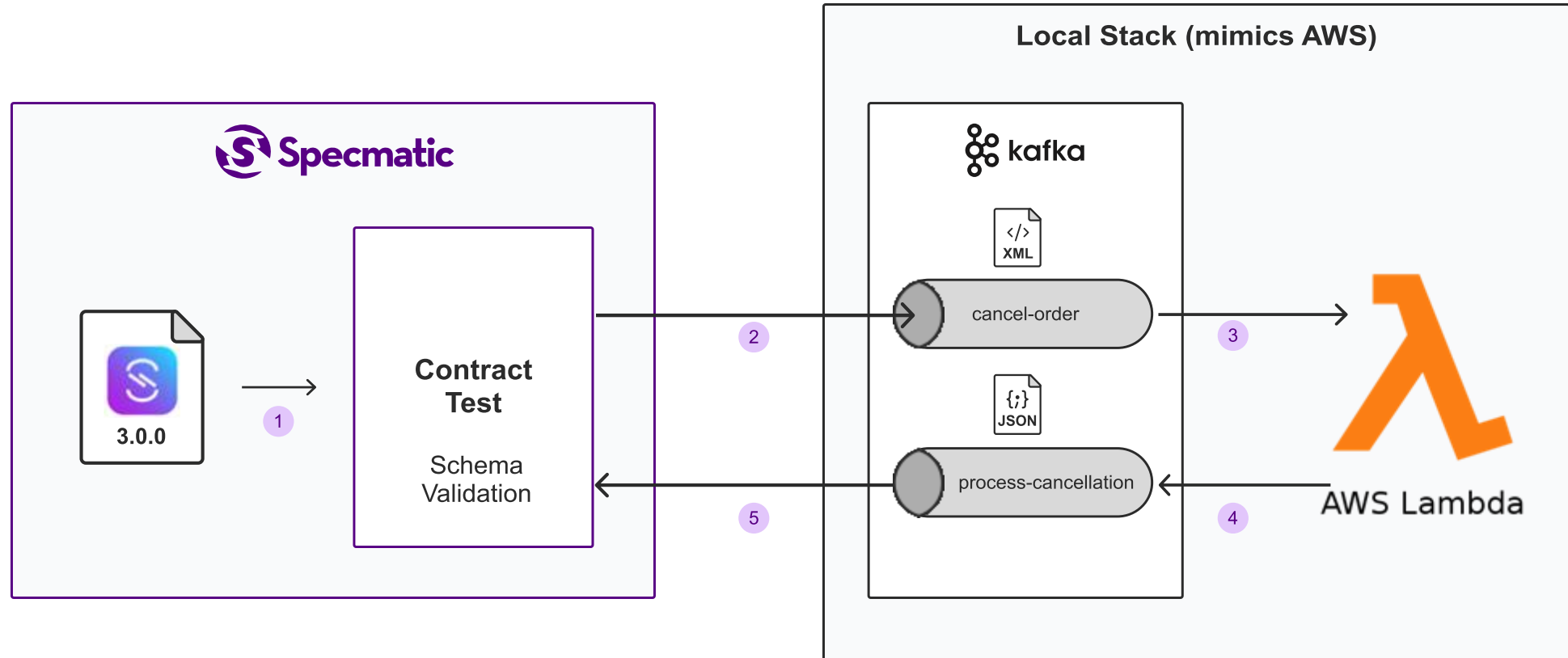


AsyncAPI specification



```
1  asyncapi: 3.0.0
2  info:
3    title: Order API
4    version: 1.0.0
5  channels:
6    cancel-order:
7      address: cancel-order
8      messages:
9        cancelOrder.message:
10         $ref: '#/components/messages/CancelOrderRequest'
11    process-cancellation:
12      address: process-cancellation
13      messages:
14        processCancellation.message:
15         $ref: '#/components/messages/CancellationReference'
16  operations:
17    cancelOrder:
18      action: receive
19      channel:
20        $ref: '#/channels/cancel-order'
21      messages:
22        - $ref: '#/channels/cancel-order/messages/cancelOrder.message'
23      reply:
24        channel:
25          $ref: '#/channels/process-cancellation'
26        messages:
27          - $ref: '#/channels/process-cancellation/messages/processCancellation.message'
```

Order Cancellation Contract Test



Show me the code!

<https://github.com/specmatic/aws-lambda-kafka-with-localstack>

Building the future of Event-Driven Architectures (EDA)

Open-Source tools to easily build and maintain your event-driven architecture. All powered by the AsyncAPI specification, the **industry standard** for defining asynchronous APIs.

[Read the docs](#)
 Quick search... 

Proud to be part of the [Linux Foundation](#)

```

asyncapi: 3.0.0
info:
  title: Account Service
  version: 1.0.0
  description: This service is in charge of proce|
channels:
  userSignedup:
    address: 'user/signedup'
    messages:
      userSignedupMessage:
        $ref: '#/components/messages/UserSignedUp'
operations:
  processUserSignups:
    action: 'receive'
    channel:
      $ref: '#/channels/userSignedup'
components:
  messages:
    UserSignedUp:

```

Account Service Documentation

Account Service 1.0.0

RECEIVES user/signedup

Accepts the following message:

Payload	Object
displayName	String Name of the user
email	String email Email of the user

Additional properties are allowed.

Don't forget to
rate this session
in the app



<https://specmatic.io>



Thank You!



Hari Krishnan

<http://harikrishnan.io>

