

Working with event streaming platforms

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Agenda & Benefits





Agenda

- What are event streaming platforms?
- Why use them?
- Use-case and demo
- The Messaging API in InterSystems IRIS



Benefits you'll receive

- Understand the basic concepts of event-streaming platforms
- Kafka, AWS SQS/SNS

Key Takeaway

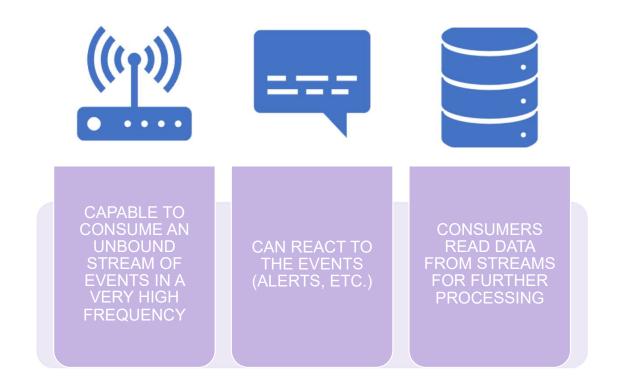
Understand how to interact with event streaming platforms in the cloud or on-premise



What Are Event Streaming Platforms?



Kafka, AWS SQS/SNS, RabbitMQ, JMS, ...



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What Are Event Streaming Platforms?



Common Terms



Topic/Queue, name of a channel or a place where data is stored



Producer, creates and sends data (events, messages) to a topic or a queue



Consumer, reads events/messages from one or more topics or queues



Publish/Subscribe vs. Polling

Why are they used?





DECOUPLING OF PRODUCERS AND CONSUMERS



HIGHLY SCALABLE FOR REAL-TIME DATA

Do I really need them?



As an InterSystems IRIS developer probably not, but...

you are not alone...

you have to interact with other applications or services (cloud/on-premise) as a consumer or producer

Use Case





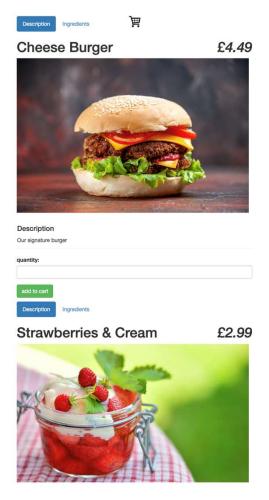








Great Burger & More





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Integration with Kafka and AWS SQS/SNS







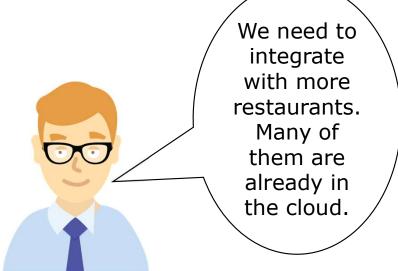












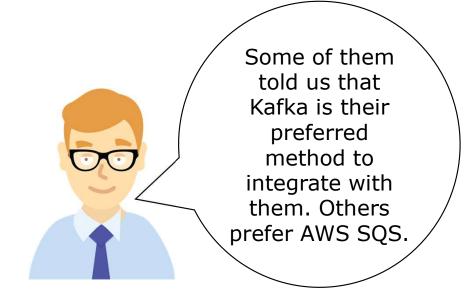
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Integration with Kafka and AWS SQS/SNS









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Integration with Kafka and AWS SQS/SNS

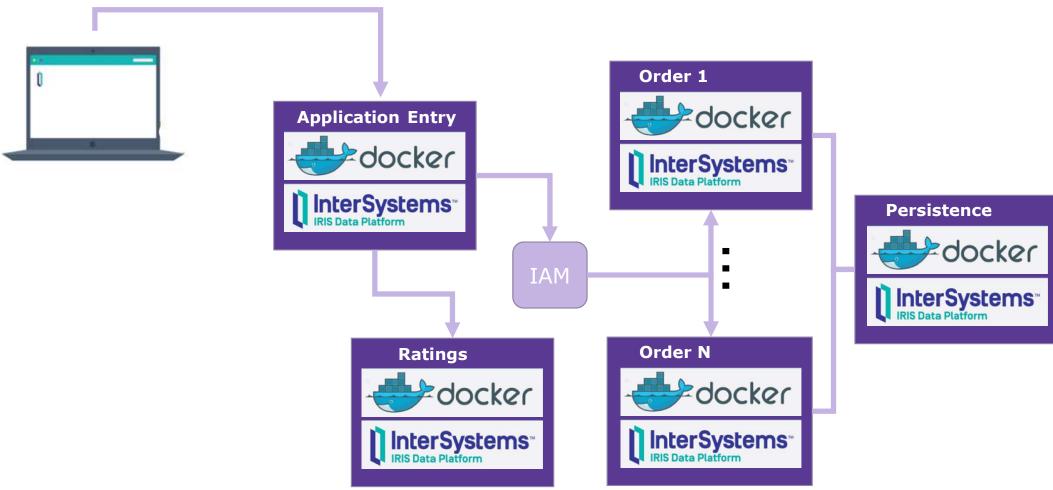






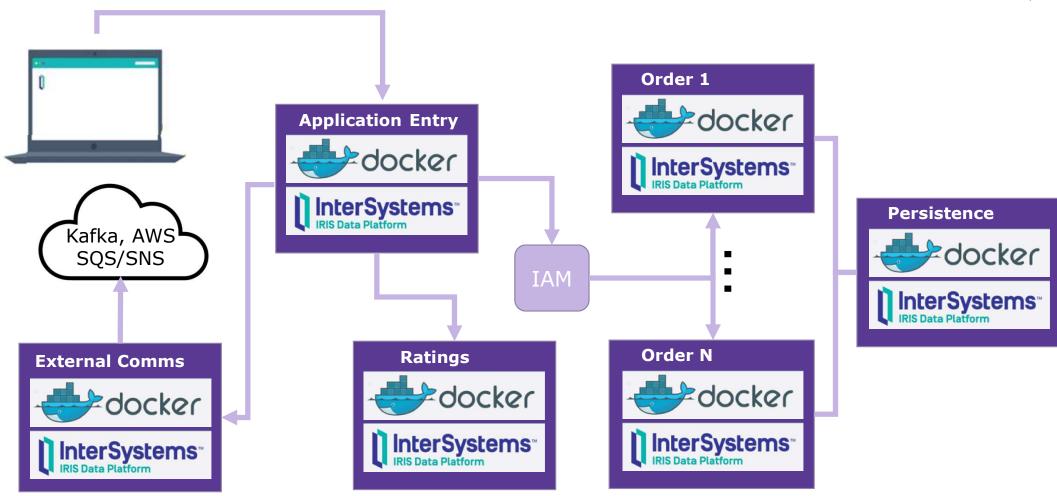
Existing Architecture





Enhanced Architecture





The InterSystems IRIS Messaging API















The External Messaging API in InterSystems IRIS



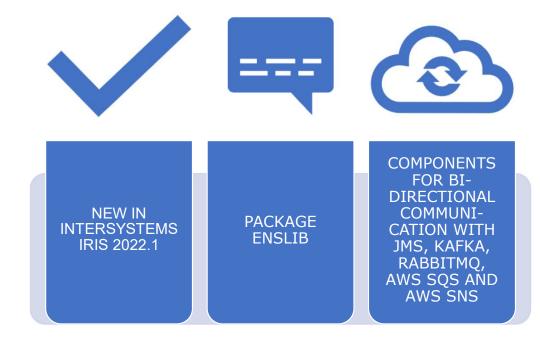




Predefined Components for Interoperability Productions







AmazonSNS
BusinessOperationOutboundAdapterPublishRequest

✓ Kafka

InboundAdapter

Message

Operation

OutboundAdapter

Service

✓ Kafka

InboundAdapter

Service

✓ Kafka

✓ Magnetic

✓ Kafka

Key Takeaway

Concept of Event Streaming Platforms

Common Terms like Topic/Queue, Producer, Consumer, etc.

New Messaging-API %External.Messaging.*



Thank you



