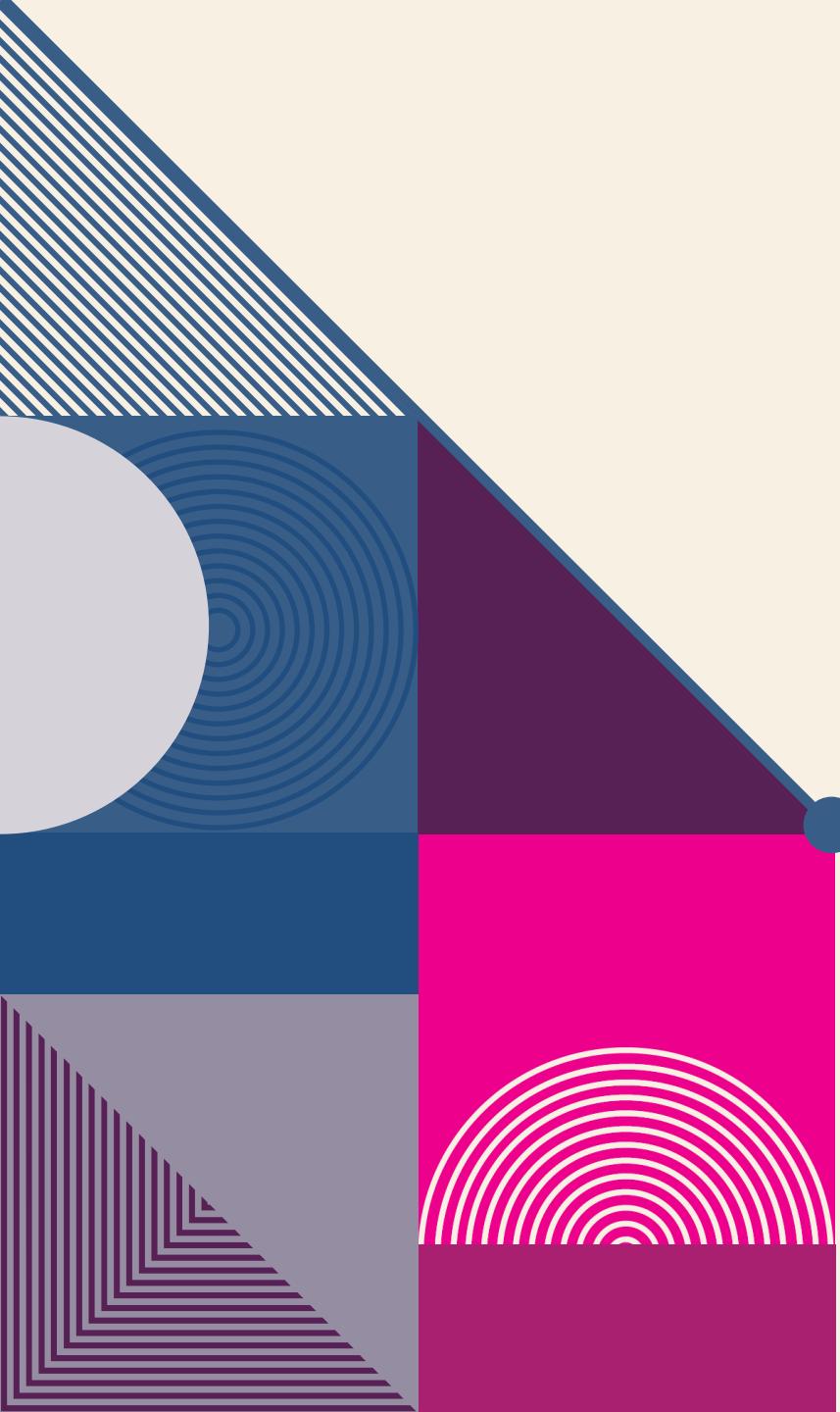




EVENT DRIVEN ARCHITECTURE



TOPICS

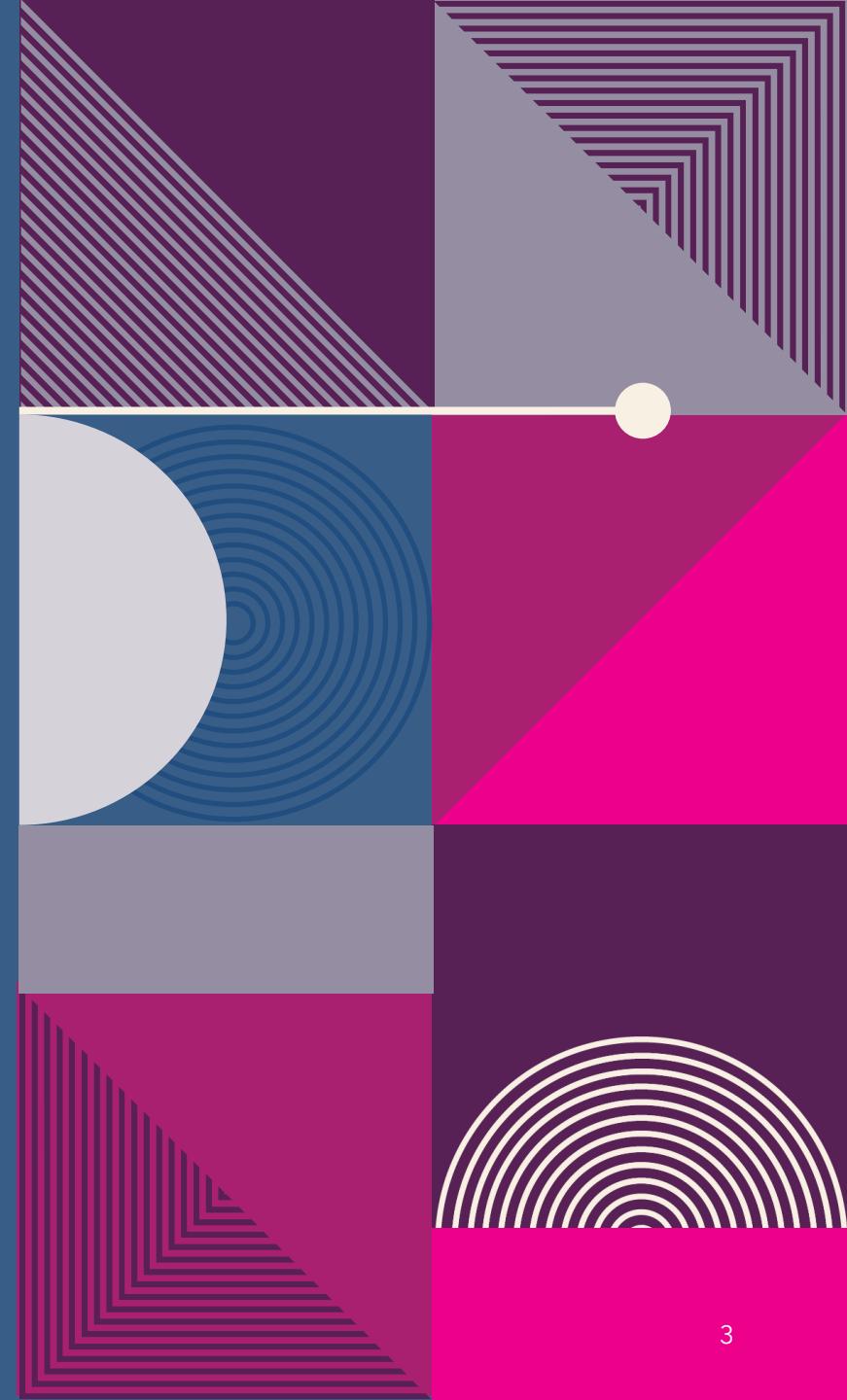
What is it?

Apache Kafka

AWS Event Bridge

WHAT IS EVENT DRIVEN ARCHITECTURE?

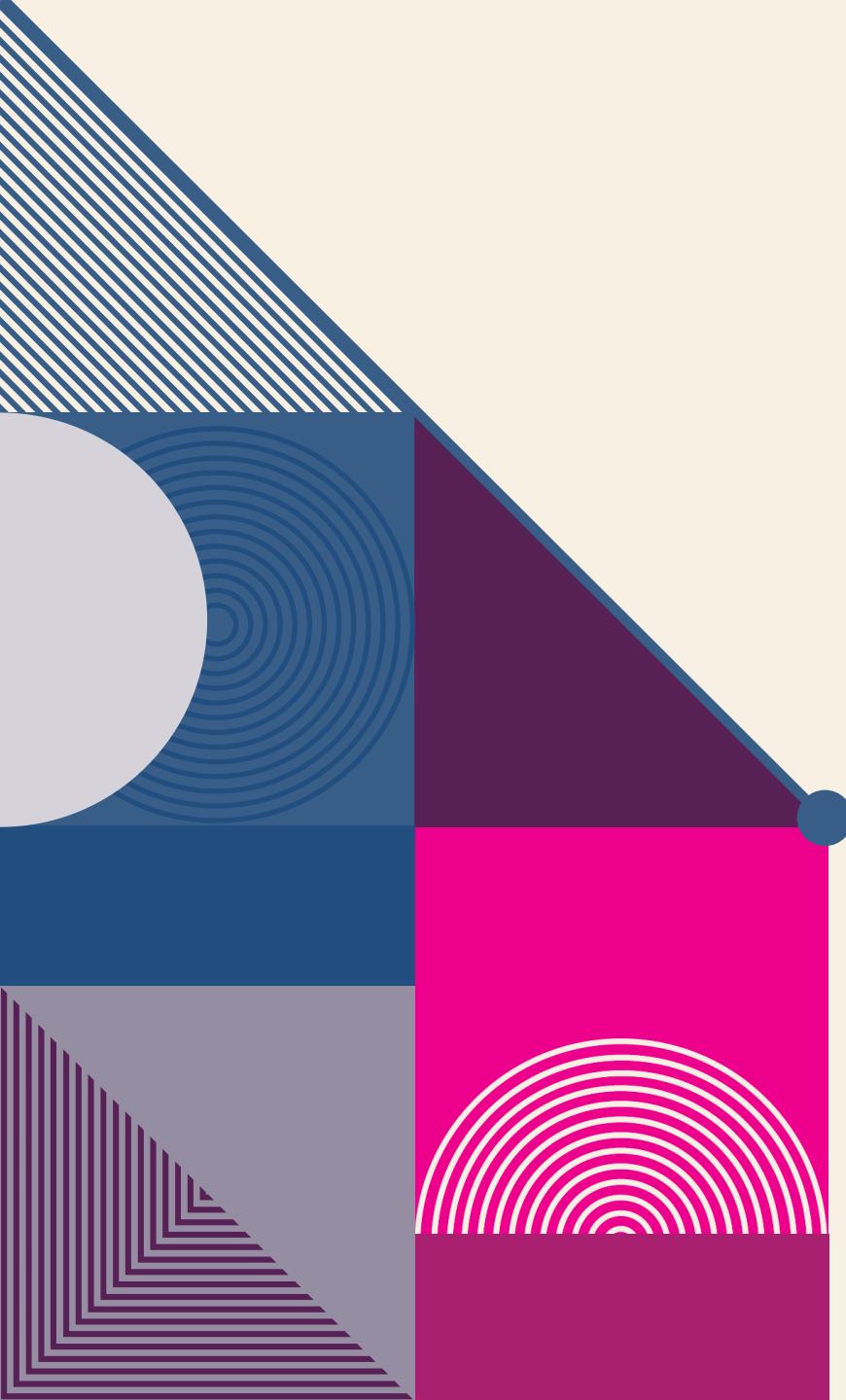
- Event Driven
- Producer/Consumer Roles
- Highly Scalable
- Common in Distributed Systems





EVENTS

- Represent change within the system
- Descriptive
- Immutable
- Serializable

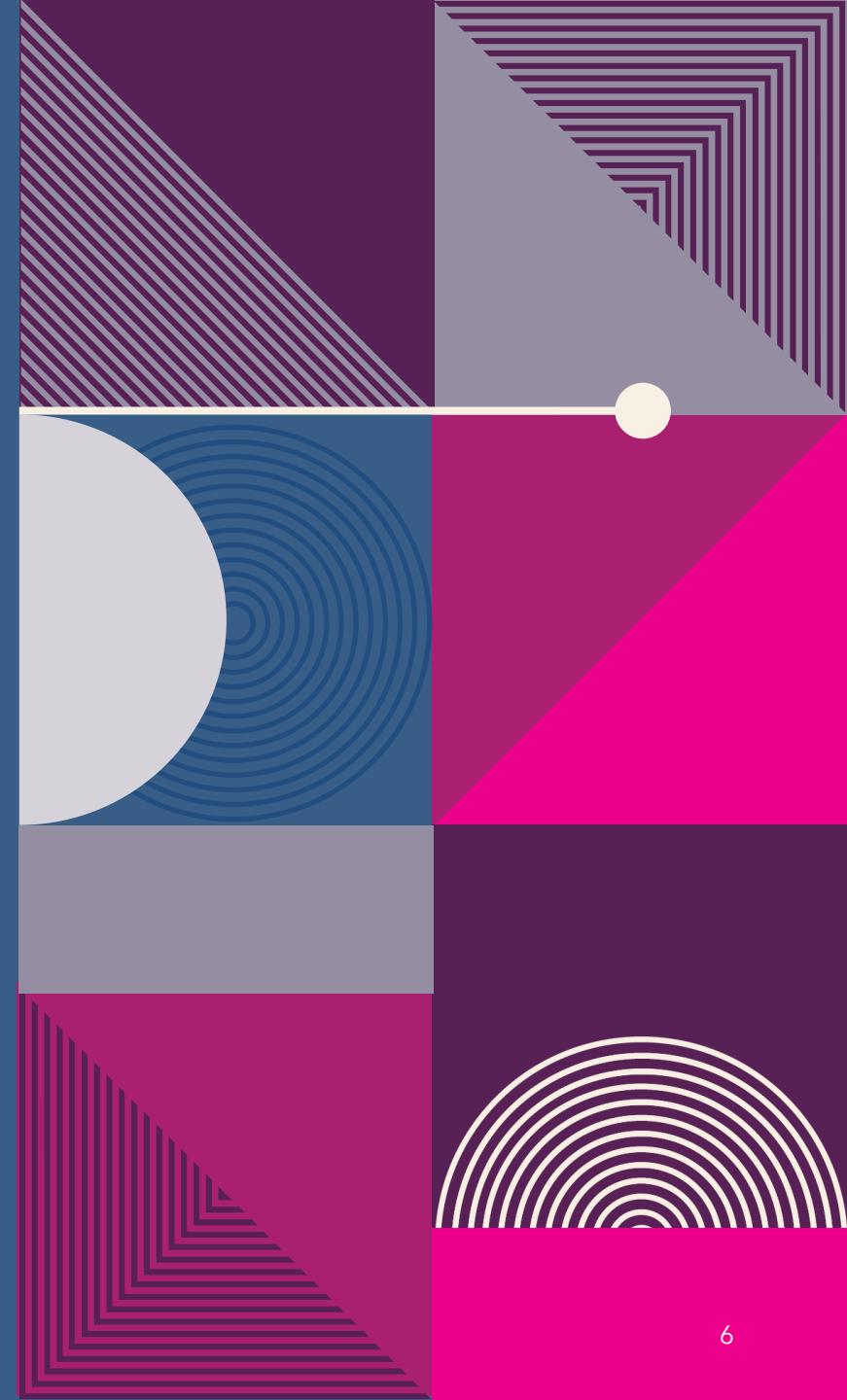


PRODUCERS & CONSUMERS

- Producers create events, Consumers respond to those events
- Decoupled services via Event Bus/Broker
- Easy to extend
- Asynchronous communication

APACHE KAFKA

- Distributed Event Streaming Platform
- Supports High Throughput
- Fault Tolerant
- Flexible Event Handling
- Works as a Broker for Publishers & Consumers
- Organizes Data in Event Streams Called Topics

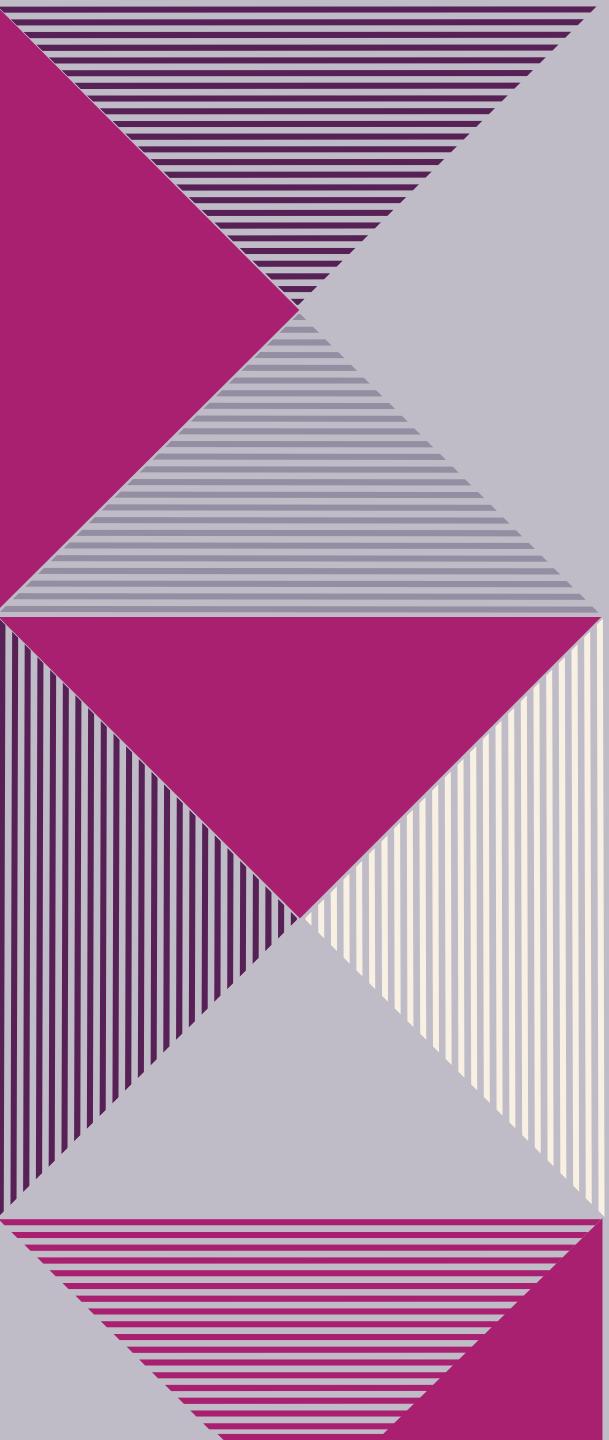


AWS EVENT BRIDGE

- Fully Managed Bus Service
- Scaling is managed for you
- Integrates with other AWS services
- Compatible with third party SaaS tools

AWS EventBridge Pipes

- Offers managed integration between AWS Producer & Consumer services
- Pipes simplify connecting event sources with their targets
- Some examples:
 - Filtering
 - Transformation
 - Data Transference



TUTORIALS

- Apache Kafka Quick Start: [Quickstart | Apache Kafka](#)
 - This quick start guide assumes you are working in a Linux environment.
- AWS EventBridge Getting Started Guide: [What Is Amazon EventBridge? - Amazon EventBridge](#)
 - Following the tutorials for EventBridge requires an AWS account