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MFGA003

# Best practices for streaming data over hybrid cloud with EDA

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Solace



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# Who is Solace?

## We are the EDA experts

- First purpose-built platform for enterprise EDA
- > 1T events processed per day
- 60% of largest investment banks
- 600M+ connected devices globally
- Customers include SAP, RBC, Heineken, Group Renault, NASA

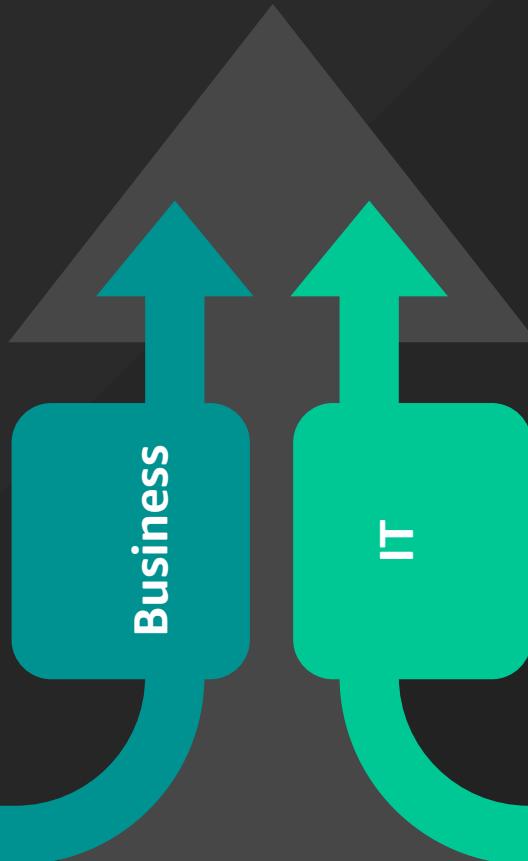
## We are an AWS partner

The screenshot shows the AWS Marketplace interface. At the top, it says "aws marketplace" with a "Sign in" button. Below is a search bar with a magnifying glass icon. The main listing is for "solace• PubSub+ Cloud Platform - Annual Commitment". It indicates "Sold by: Solace Corporation". A description below mentions "PubSub+ Cloud Platform, including PubSub+ event broker service, PubSub+ Insights, and PubSub+ Event Portal. Event broker service" and a "Show more" link. There are "4 external reviews" and a "View purchase options" button.



# Disruption is accelerating digital transformation and driving new IT requirements.

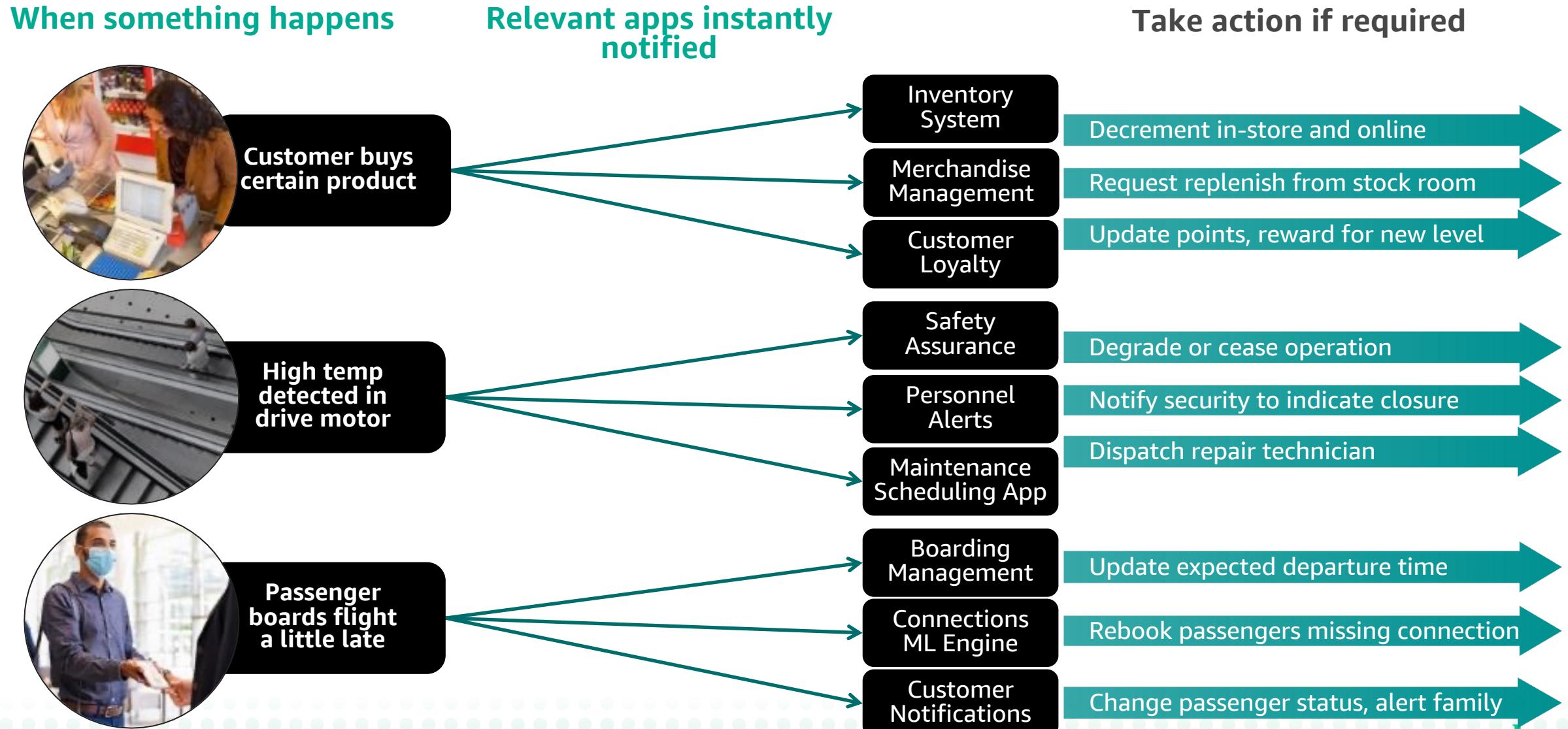
- Improve digital experiences
- Increase operational efficiencies
- Support/accelerate innovation



- Real-time/event-driven data
- Hybrid/multi-cloud architecture
- Decoupled applications
- Resilient and scalable infrastructure
- Democratized access to up-to-date data

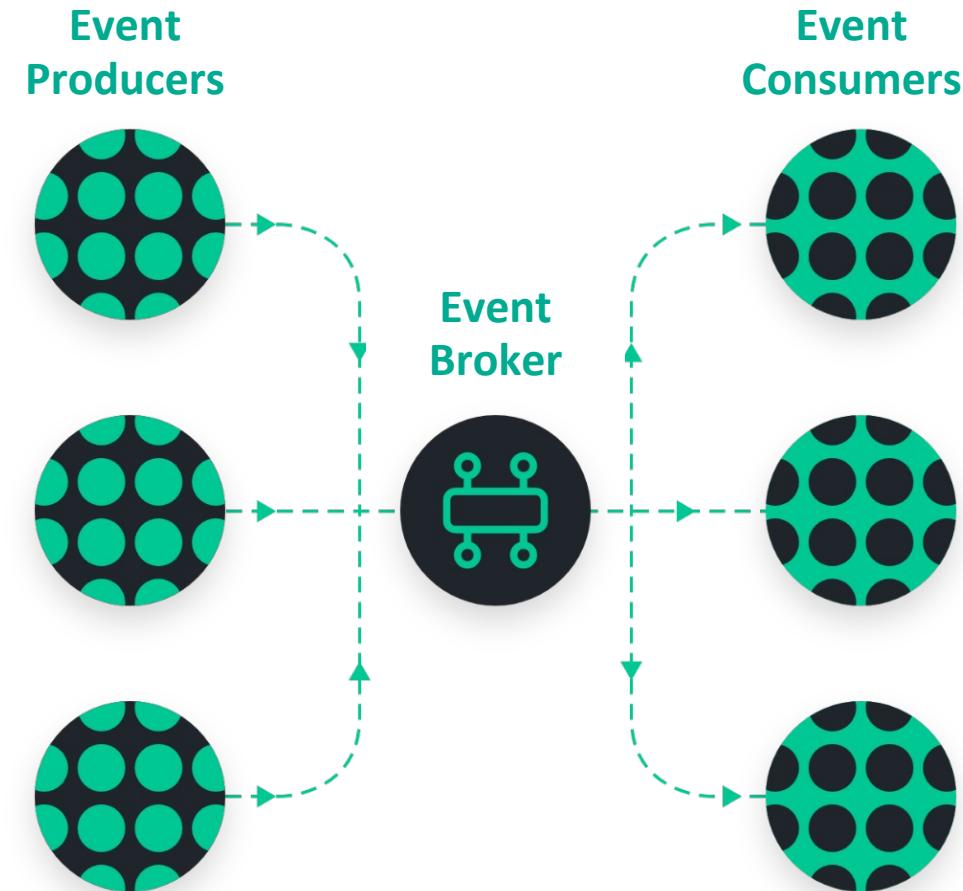
More urgent requirements with disruption

# Turning events into action



# Event-driven architecture makes this scalable

- Decoupled applications and microservices
- Asynchronous, event-driven interactions
- Intermediated by event broker



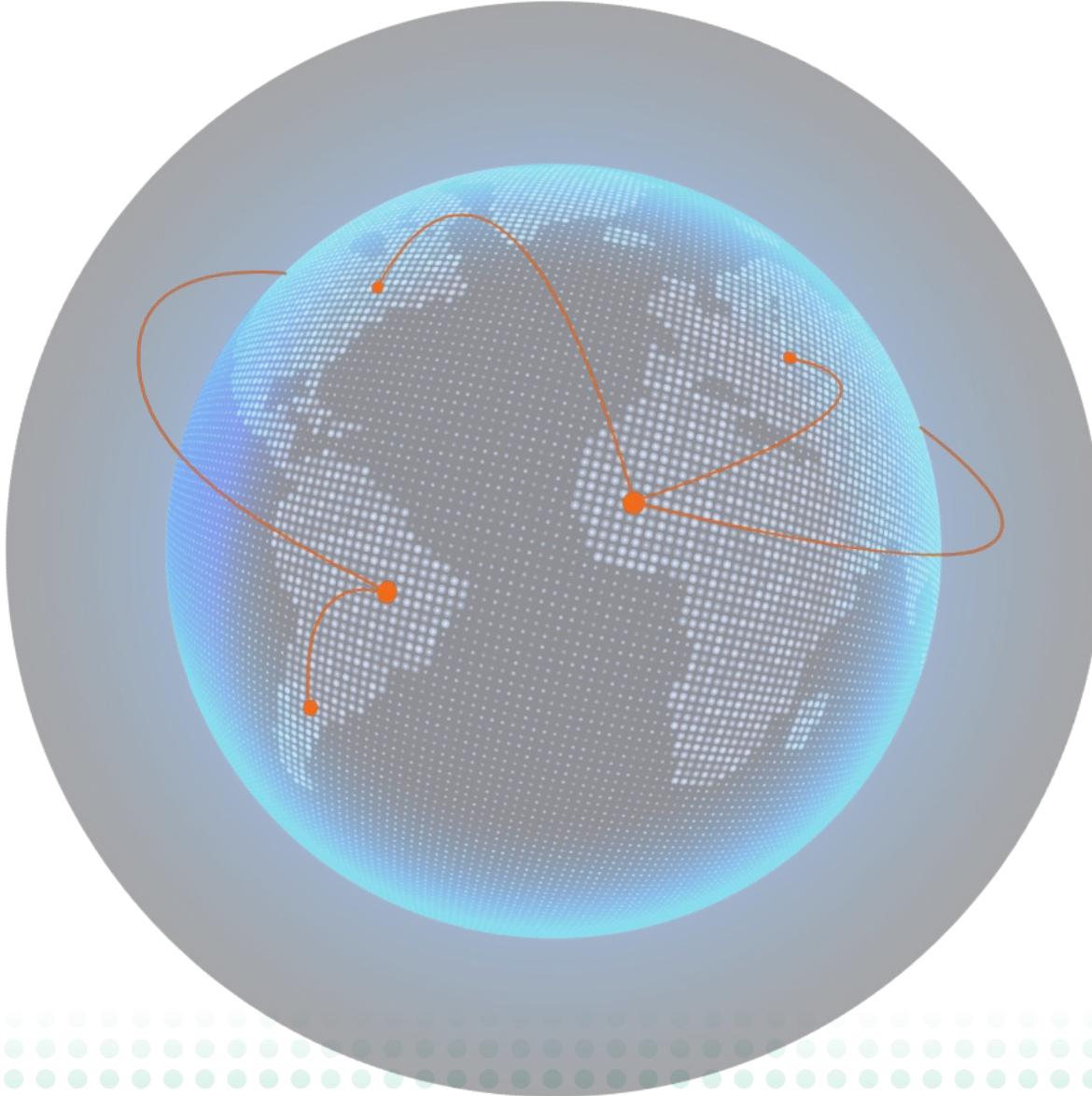
# Event driven architecture can be complex

## Complex Environments

- Hybrid cloud
- Multi-cloud
- Multi-geos

## Diverse Technologies

- Microservices
- IoT
- Cloud native services
- iPaaS
- Legacy ESB, ERP



## Enterprise Demands

- Performance
- Reliability
- Scalability
- WAN optimization
- Security & compliance

## New Capabilities

- Event design
- Event discovery
- Event governance

# Challenges of EDA across the hybrid cloud



Difficult  
to set up



Tricky  
to scale

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Hard to achieve  
high availability



Integration  
requires  
development

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Error prone and  
hard to manage

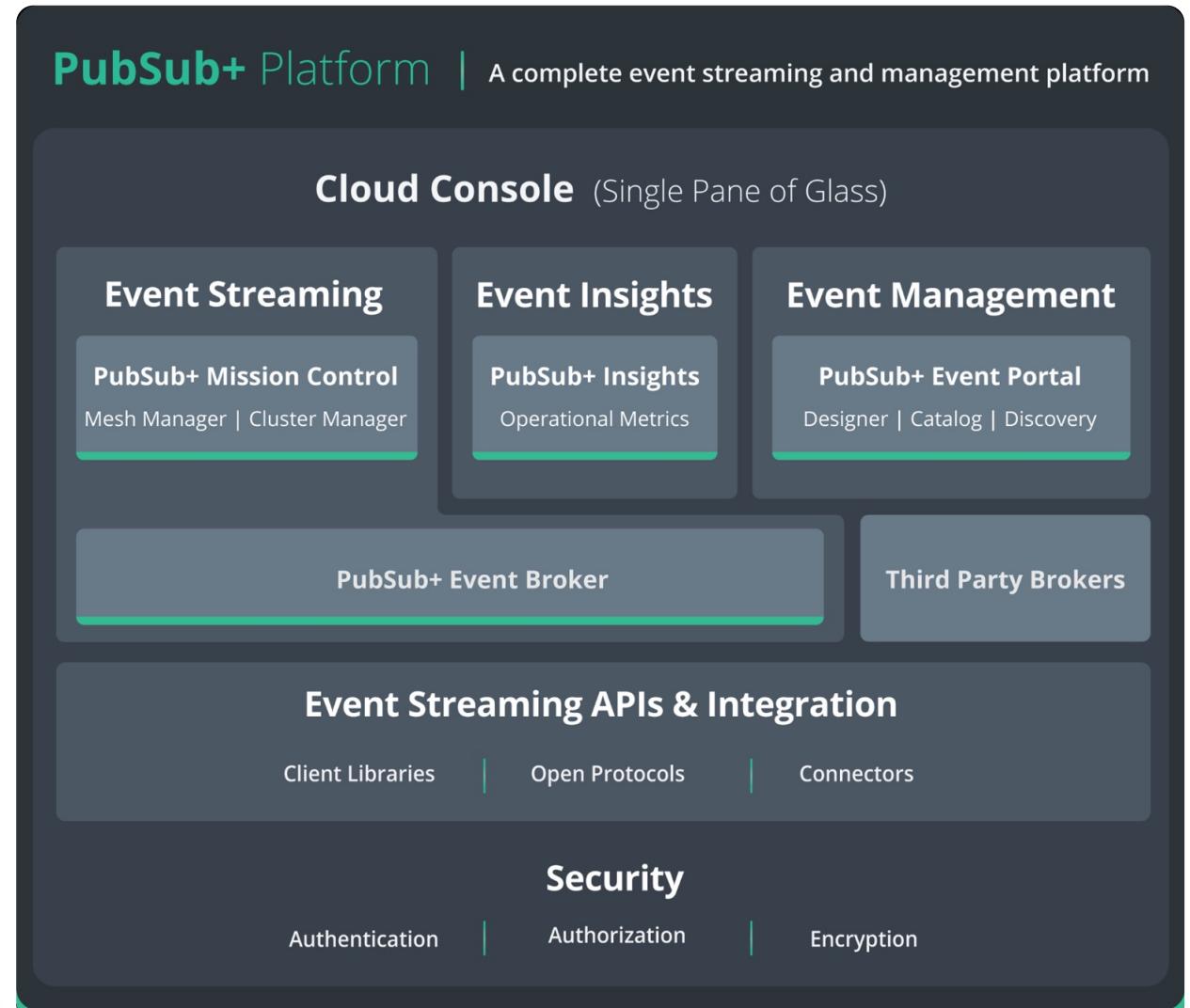


Expensive  
to maintain

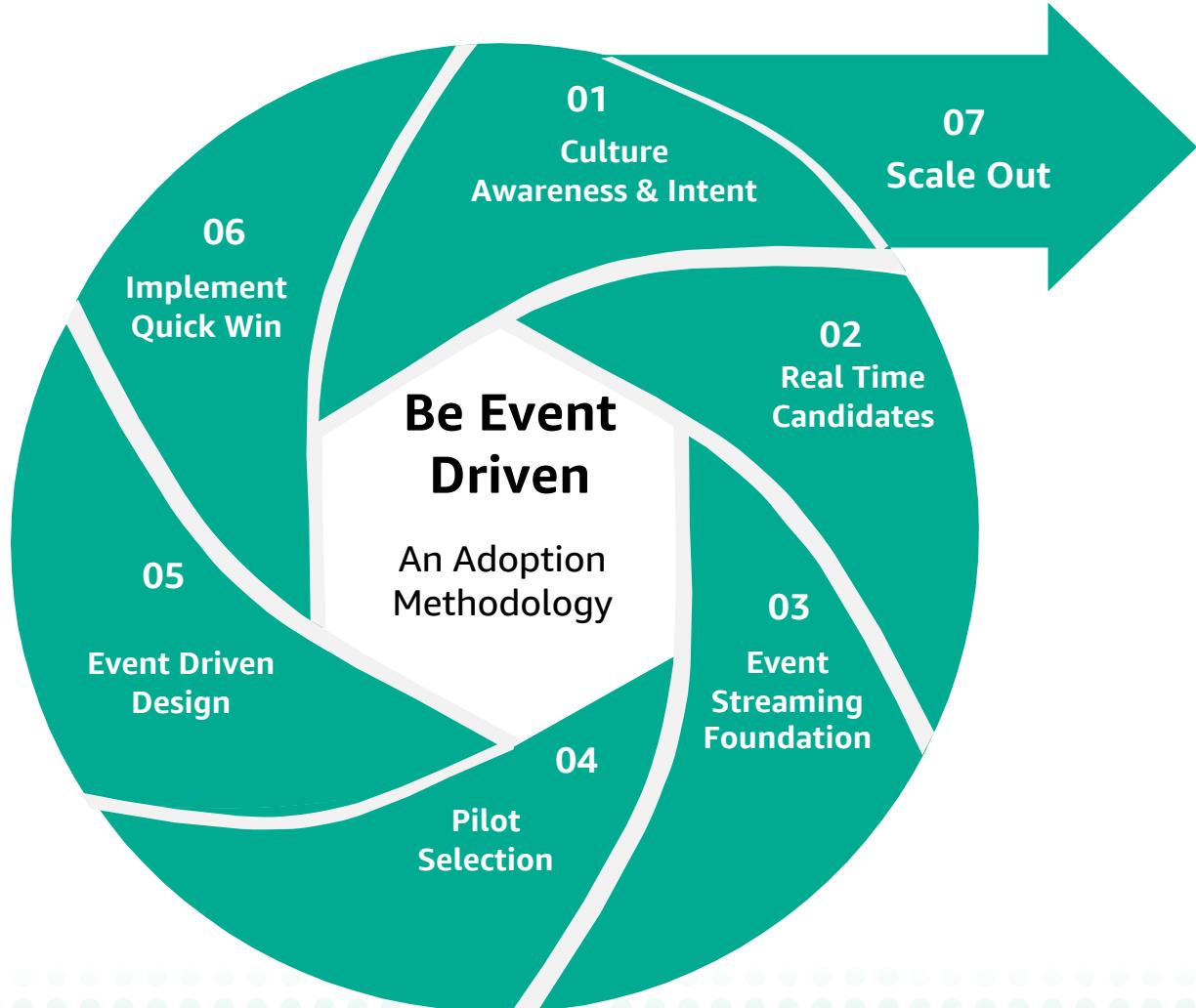


# Overview of the PubSub+ platform

- Complete event streaming and management platform
- Deploy and link brokers to form a global, dynamically routed event mesh
- Define, manage and govern events
- Monitor event mesh performance
- All from one console

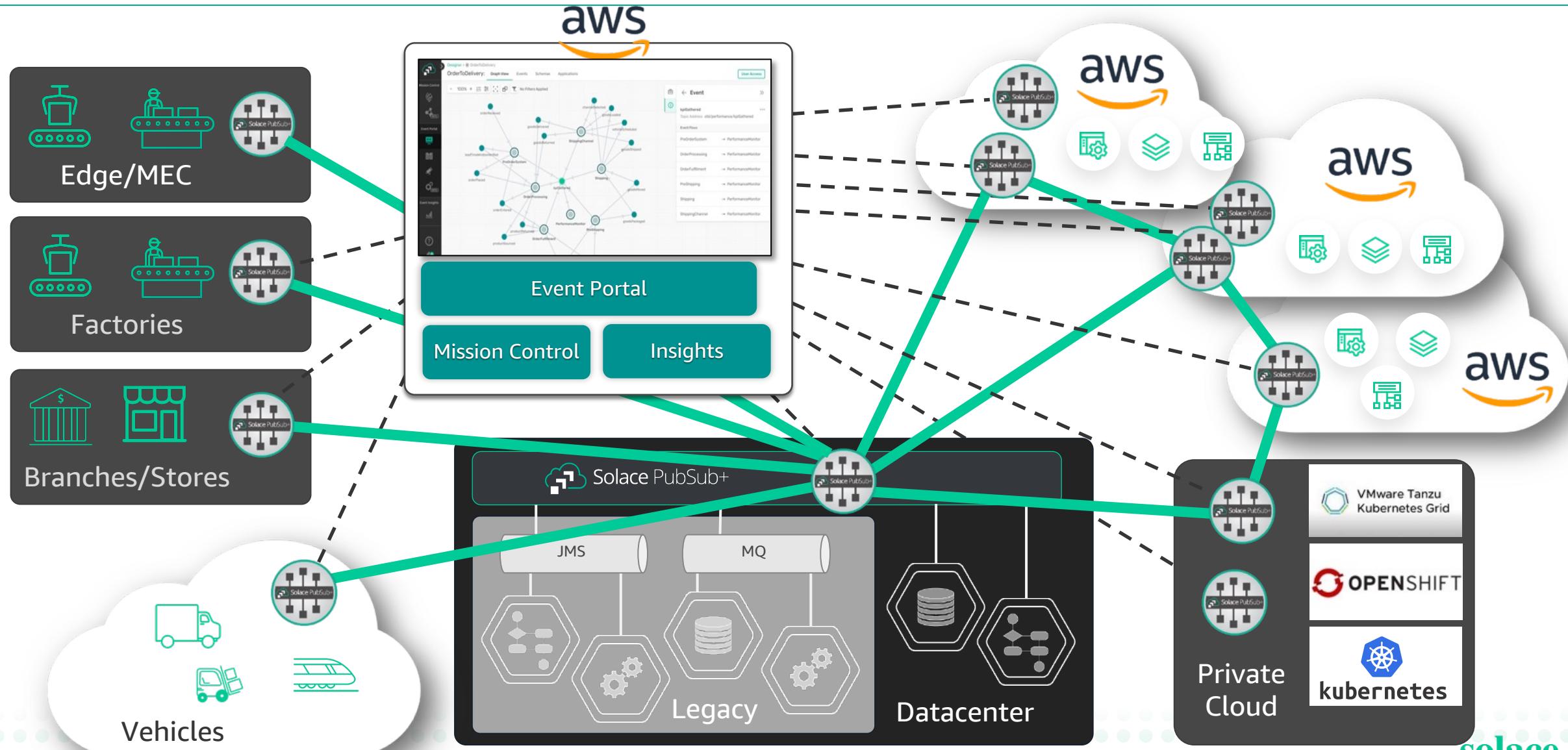


# Best practices for event streaming

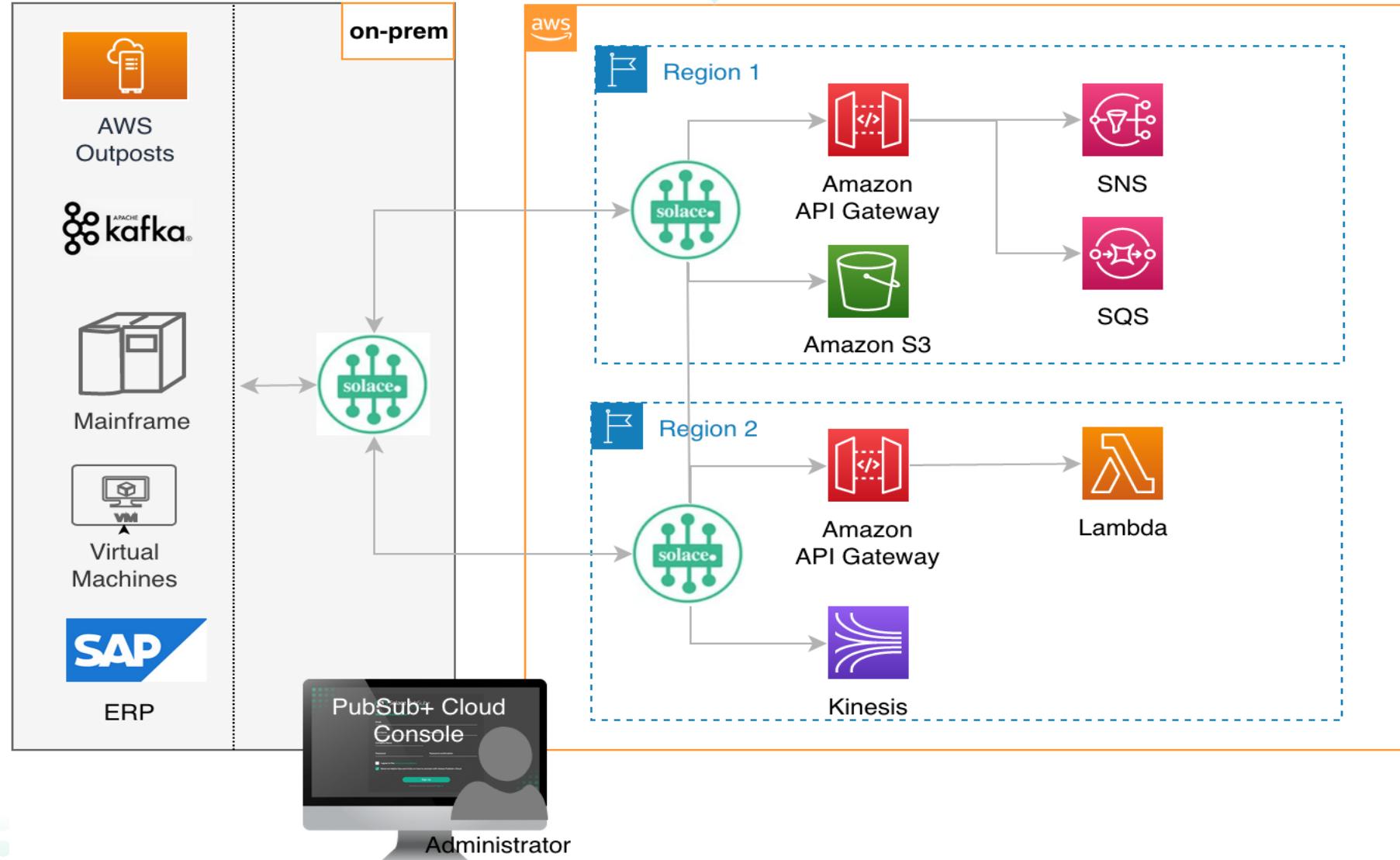


1. Build an Event Mesh
2. Design for a rich topic taxonomy
3. Have an Event Management System and Tools

# Event mesh and the event portal



# A scalable event mesh across your hybrid cloud



# What differentiates Solace PubSub+



# **Why use PubSub+ to build an event mesh?**

**Because its EASY**

# Setting up an event mesh

Welcome to PubSub+ Cloud

Mission Control

Event Manager

Event Portal

Event Insights

?

6

Cluster Manager

Control the lifecycle of your PubSub+ Event Broker Services

BETA Mesh Manager

Mesh Manager

Create Mesh

BETA Mesh Manager > Create Mesh

Mesh Name \*

AWS\_Mesh\_Demo

Topology Type

Full Mesh

Services in Mesh (2)

Add Service

aws libu\_AWS\_US\_Region EKS - US East (N. Virginia)

aws Solace Training Libu Asia Pacific South (Mumbai)

Links (1)

1 link(s) will be created

Add services to generate links.

Cancel

Create Mesh

Services

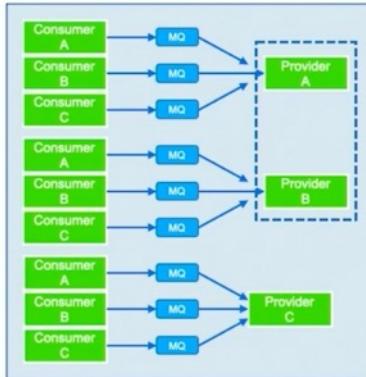
Mesh Manager > Create Mesh

Map showing AWS regions and Solace Training Libu locations across the globe.

Mapbox © OpenStreetMap Improve this map

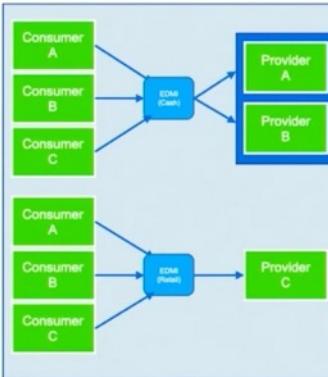
solace.

## Message Oriented Middleware Evolution



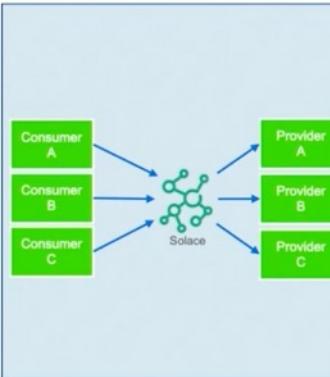
**MQ Point to Point**

- Technical Interfaces – Consumer needs to know the exact end point of the provider
- No grain for functional capability
- Point-to-point model



**SOA -Enterprise Service Bus**

- Functional capability – Consumer needs to know the exact end point for a feature and not provider
- Coarse grain functional capability
- Pub-Sub Model



**EDA / Event Mesh**

- Dynamic Routing on Taxonomy – Consumer need not know end point of system or feature, They need to go to Event Mesh (fabric that connects all end points)
- Fine grain functional capability
- Event Model (pub-sub+)



**SRINATH SRIPADA-RAO**  
Executive Director  
Integration Strategy  
Programs  
Standard Chartered Bank

**EDA**  
**Summit**  
2021

INTERNAL

### EDA Architecture for Global Bank



**Event Mesh – DMR** (Application location transparency - All architecture aspects)

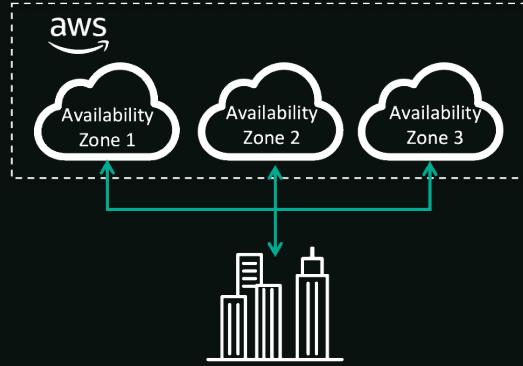
**Taxonomy** (Event model aligned with business object relations )

**Event Catalogue** - Glossary of Events for easy consumption and Governance



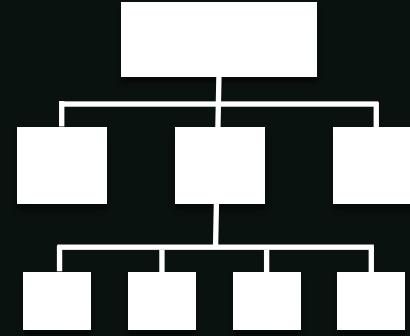
# Event Mesh for MQ, Legacy Modernization and Hybrid Cloud Adoption

# Solace PubSub+ Delivers scalable, Enterprise-grade event streaming



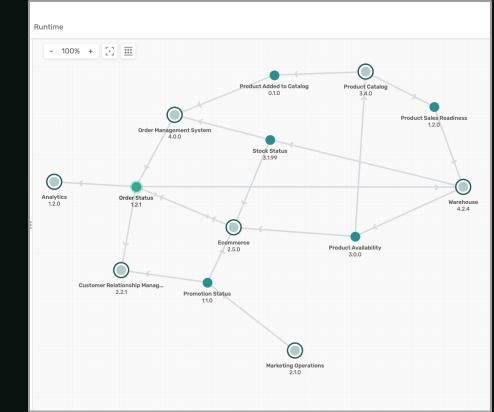
## Event Mesh Across Hybrid Cloud

Stream events dynamically, reliably, securely across your hybrid cloud



## Topic Hierarchy

Get the right events to the right application while preserving order



## Unified Event Management

Design, visualize, manage and govern all events

skillbuilder.aws 

# Your time is now

## Build in-demand cloud skills your way



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# Thank you!



Please complete the  
session survey

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