

The background of the image features a dark blue gradient on the left, transitioning into a large, vibrant, abstract shape on the right. This shape is composed of overlapping curved segments in shades of orange, pink, and purple, creating a dynamic, modern aesthetic.

AWS re:Invent

NOV. 27 – DEC. 1, 2023 | LAS VEGAS, NV

FSI301-R

Architecting critical multi-Region, active/active financial systems

Eugene Istrati

(he/him)

Global Solutions Architect,
AWS for Financial Services
Amazon Web Services

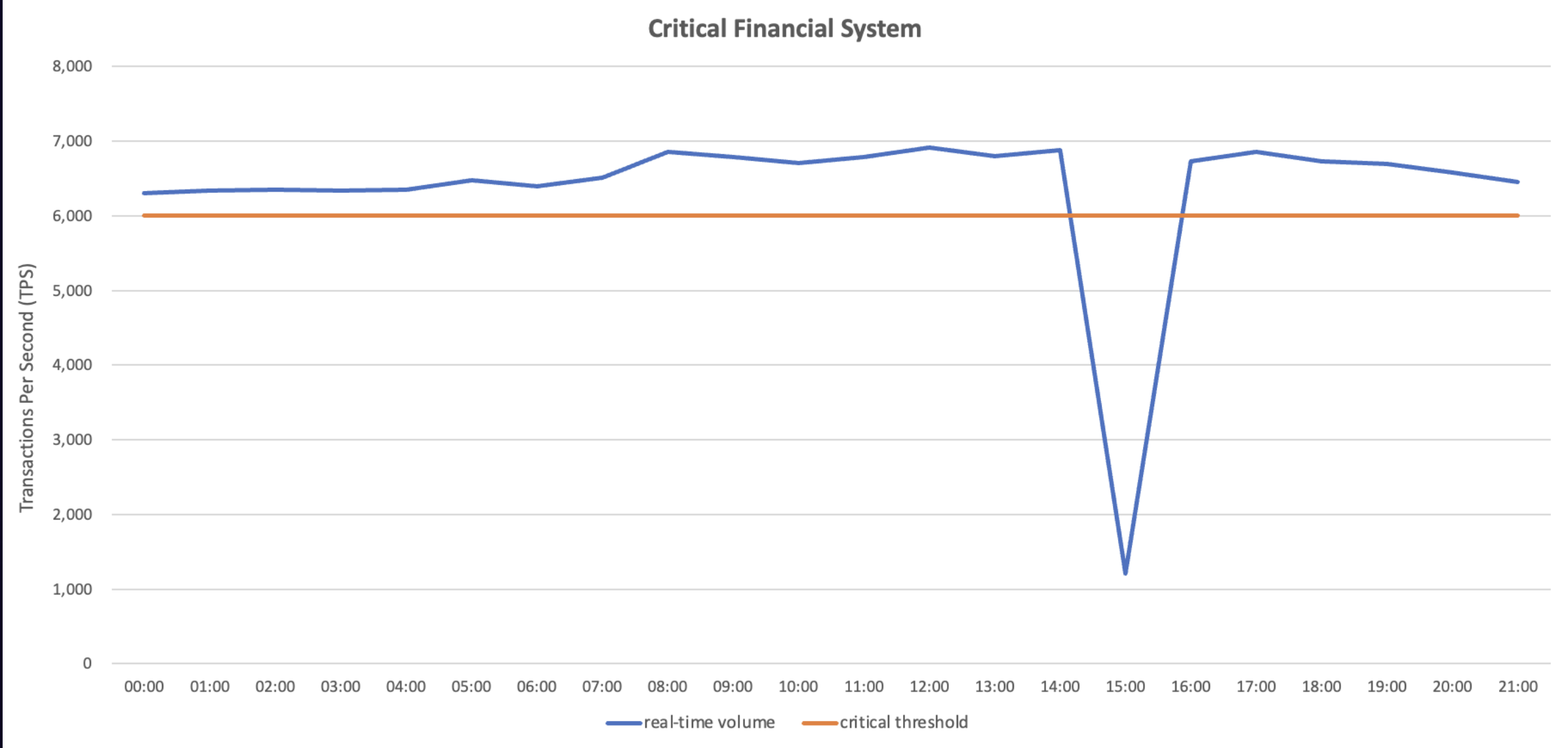
Jack Lu

(he/him)

Global Solutions Architect,
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Amazon Web Services



Critical financial systems nightmare



A black and white portrait of Werner Vogels, a middle-aged man with a beard and mustache, wearing a dark jacket over a dark t-shirt. He is looking directly at the camera with a slight smile. The background is a blurred outdoor scene with trees and a building.

**"Everything fails,
all the time."**

Werner Vogels

VP & CTO at Amazon.com

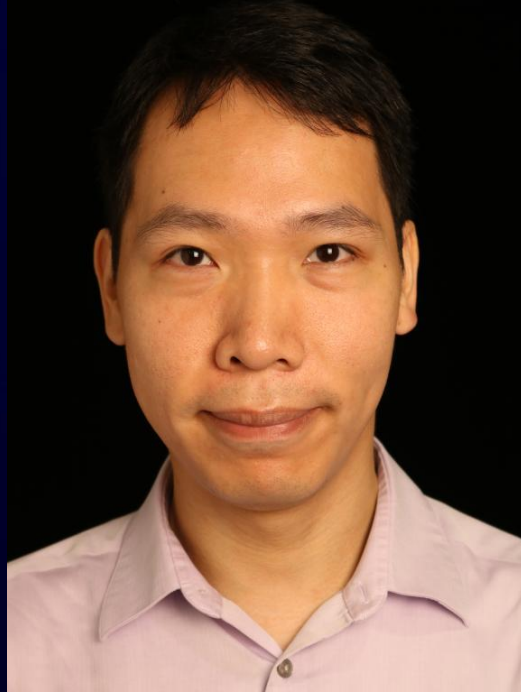


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Today's speakers



Eugene Istrati
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1. Mental model for resilience

Mental model for resilience

ABILITY OF A WORKLOAD TO RECOVER FROM INFRASTRUCTURE OR SERVICE DISRUPTIONS

The mental model

High availability

Resistance to common failures through design and operational mechanisms



Core services, design goals to meet availability goals

Disaster recovery

Returning to normal operations within specific targets for more rare but highly impactful failures



Backup and recovery, data bunkering, managed Recovery Point Objective (RPO) and managed Recovery Time Objective (RTO)

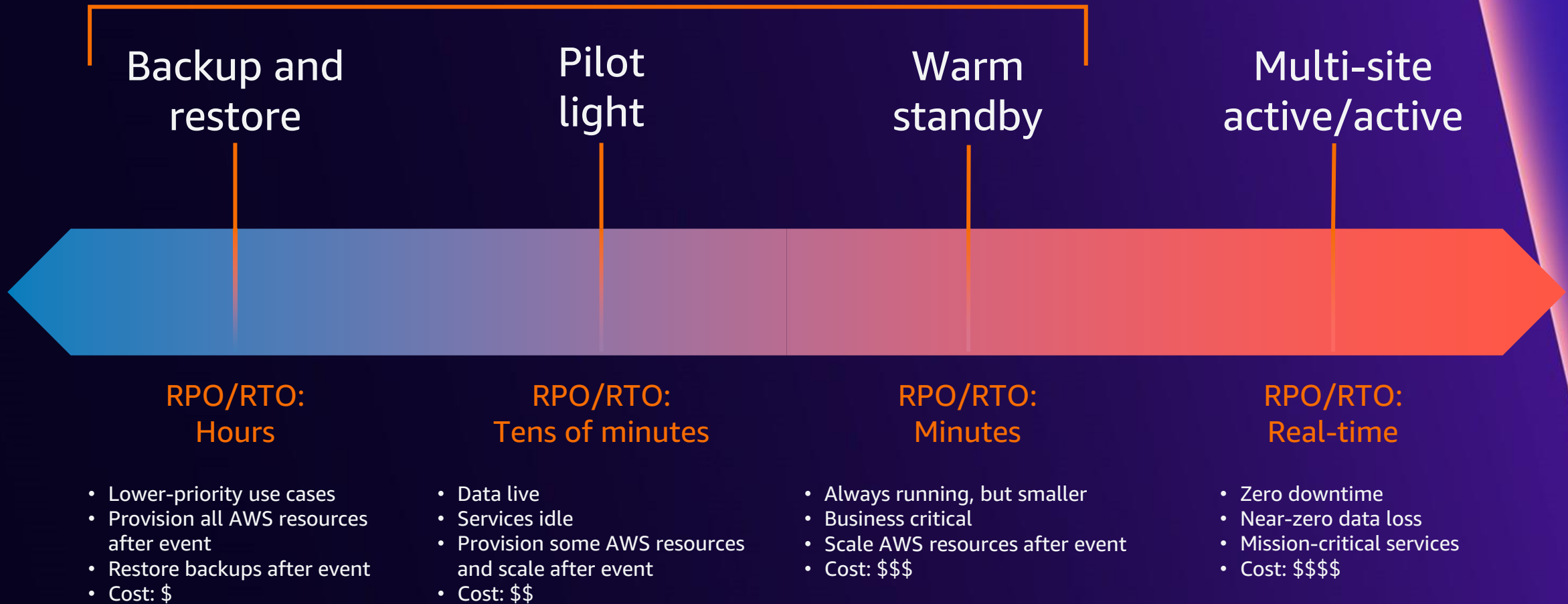
Continuous improvement

CI/CD, code refinement, operational testing, observability/monitoring

2. Disaster recovery patterns

Disaster recovery patterns

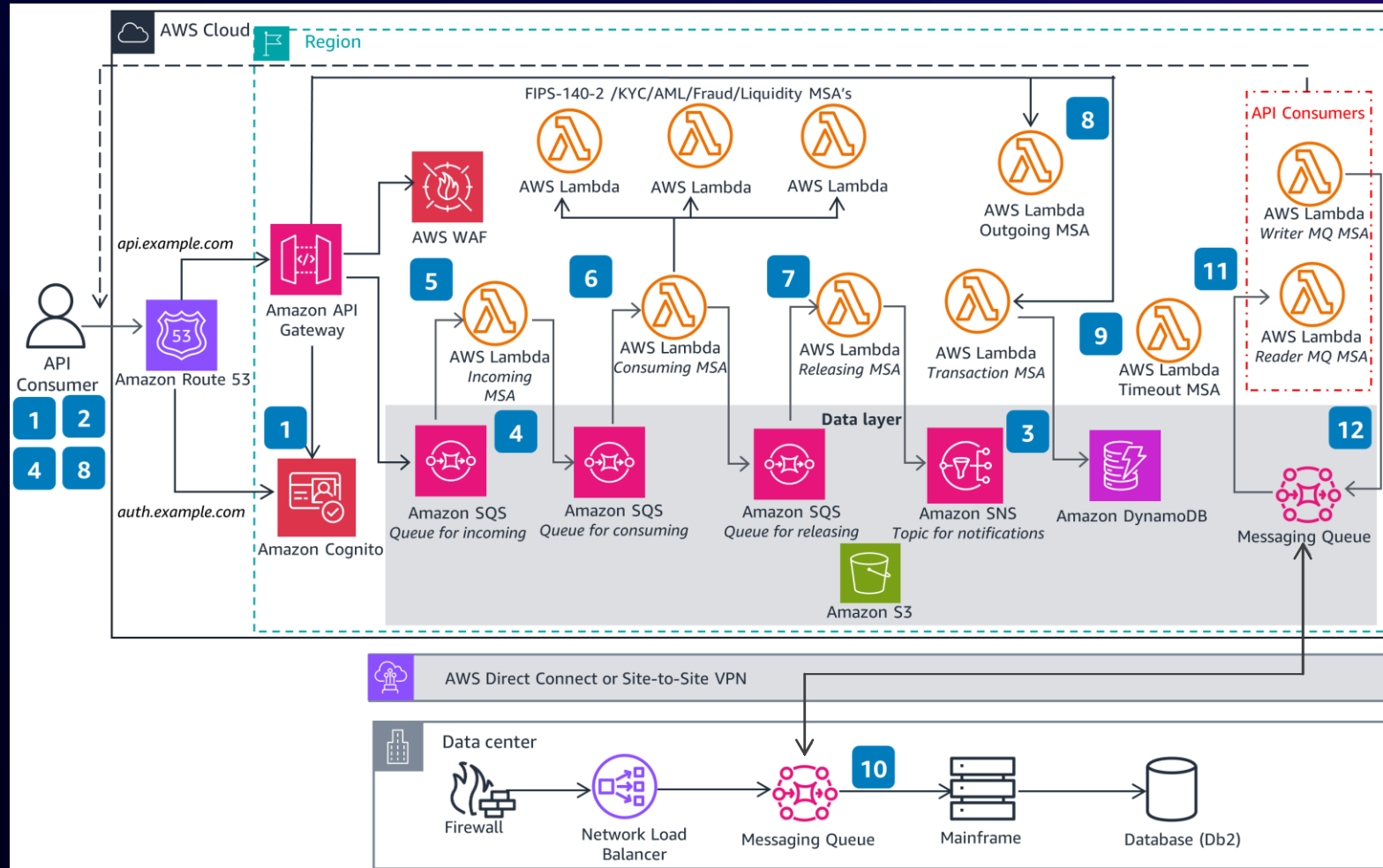
active/passive



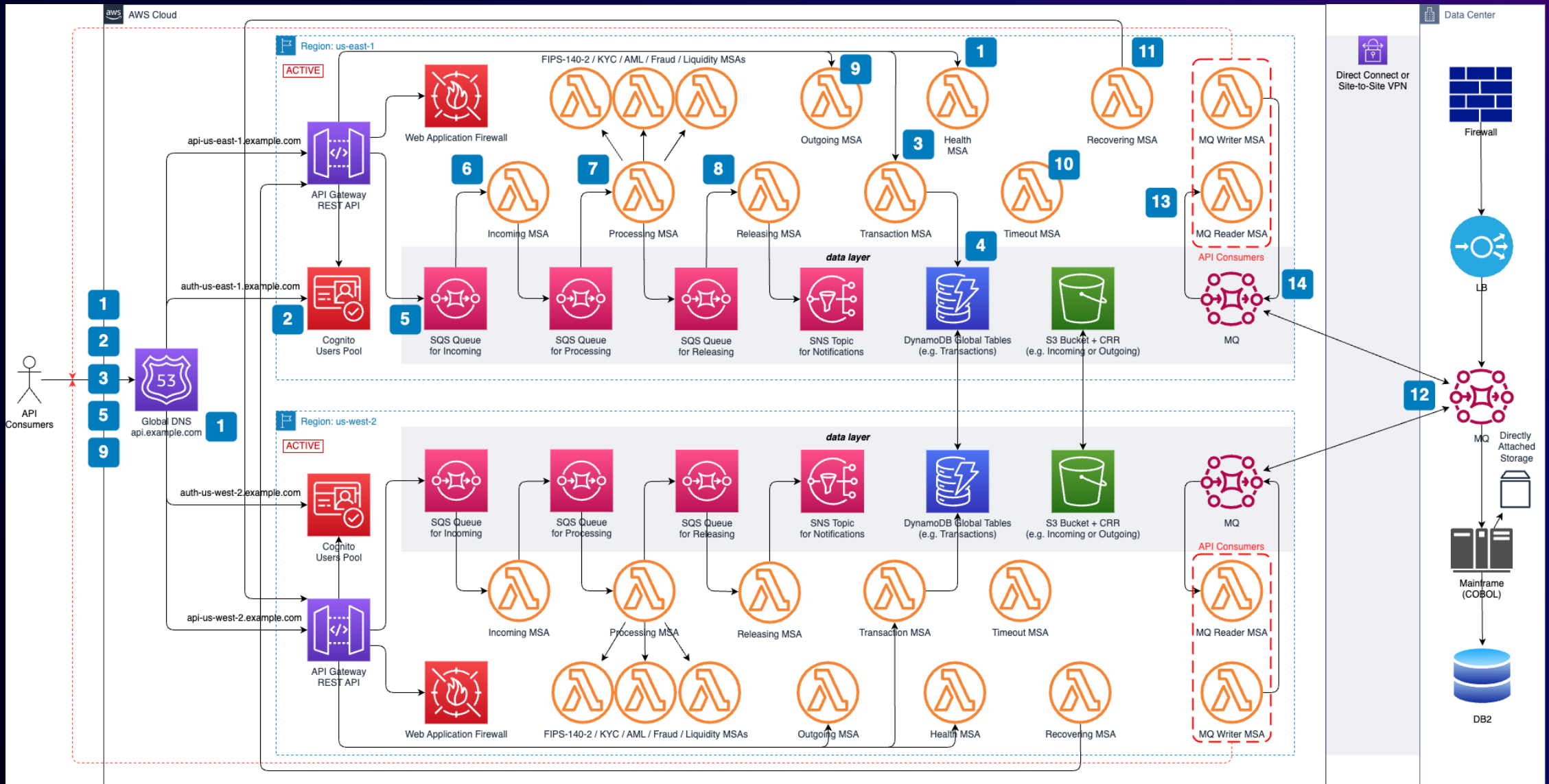
3. Multi-Region active/active pattern deep dive

Architecture example: Single-Region deployment

AWS SOLUTION GUIDANCE: ISO 20022 MESSAGING WORKFLOWS ON AWS



Architecture example: Multi-Region active/active



Keep learning

QR CODES TO OTHER AWS RE:INVENT 2023 MULTI-REGION PRESENTATIONS



ARC401-R | Multi-Region or single-Region? Considerations and architectures



FSI313-R | Build highly resilient multi-Region databases for financial services



BOA204-R | Hands-on with multi-Region architectures

Thank You!



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