



aws SUMMIT

INDIA | MAY 25, 2023

FS1003

Extreme Resilience for both worlds: On-Prem & Public Cloud

Pankaj Verma

IBM Distinguished Engineer, CTO-Hybrid Cloud Services

IBM Consulting, India/SA



© 2023, Amazon Web Services, Inc. or its affiliates. All rights reserved.



Are these troubling you ?

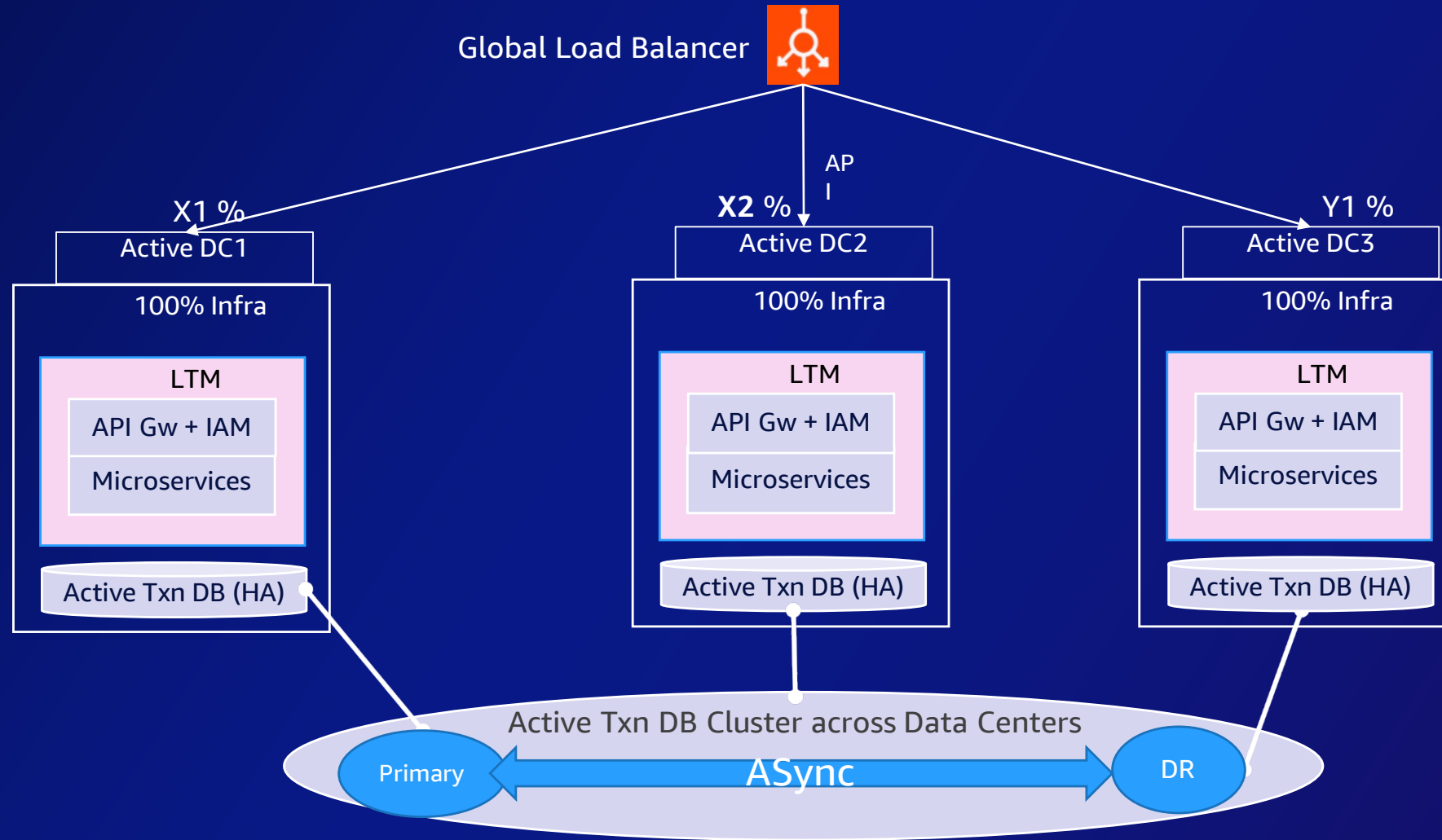
- 9 9 9 9 9 9
- Active Active Active..... Active.....
- ZERO..... 15.....
- API SPRAWL....

Agenda

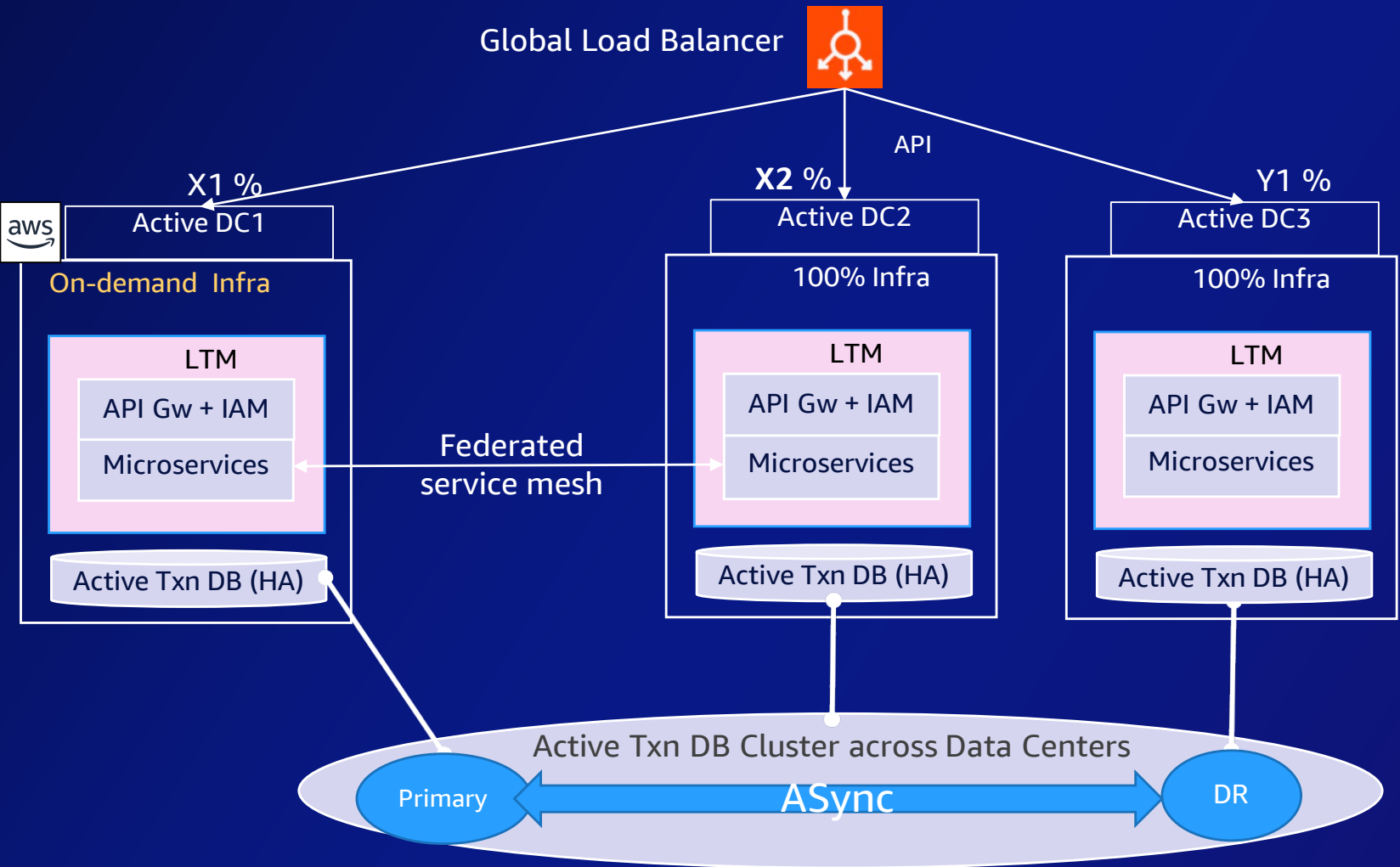
Extreme Resilience with Best of both worlds: OnPrem & Public Cloud

1. Adoption of Active-Active Data Centers
2. Leverage hybrid cloud for microservices and containers, COTS
3. Avoid API Sprawl for Resilient APIs
4. Leverage DevSecOps for Blue-green deployment
5. Leverage ALWAYS-ON Architecture with AIOps and hyper-automation
6. Leverage Architecture Framework of 'Reactive Manifesto' and 'Hexagonal Architecture'

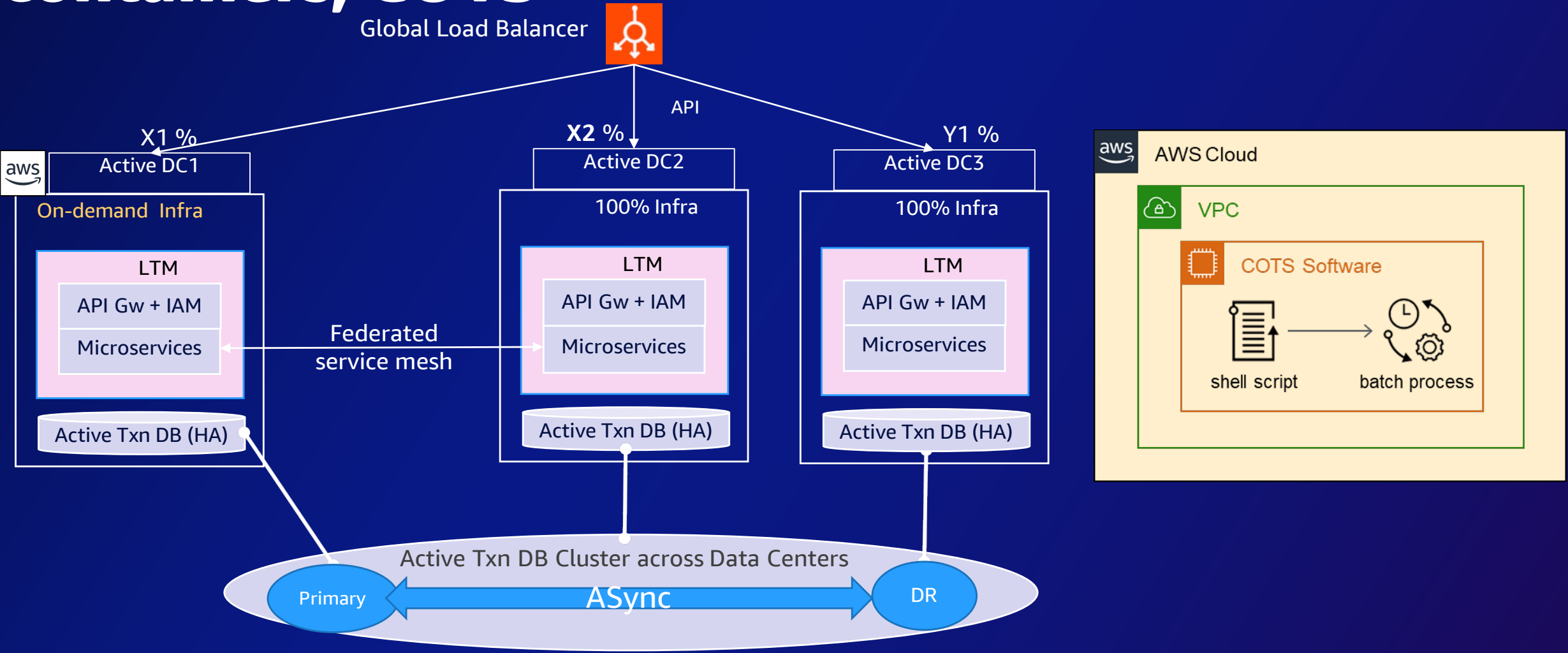
1. Adoption of Active-Active Data Centers



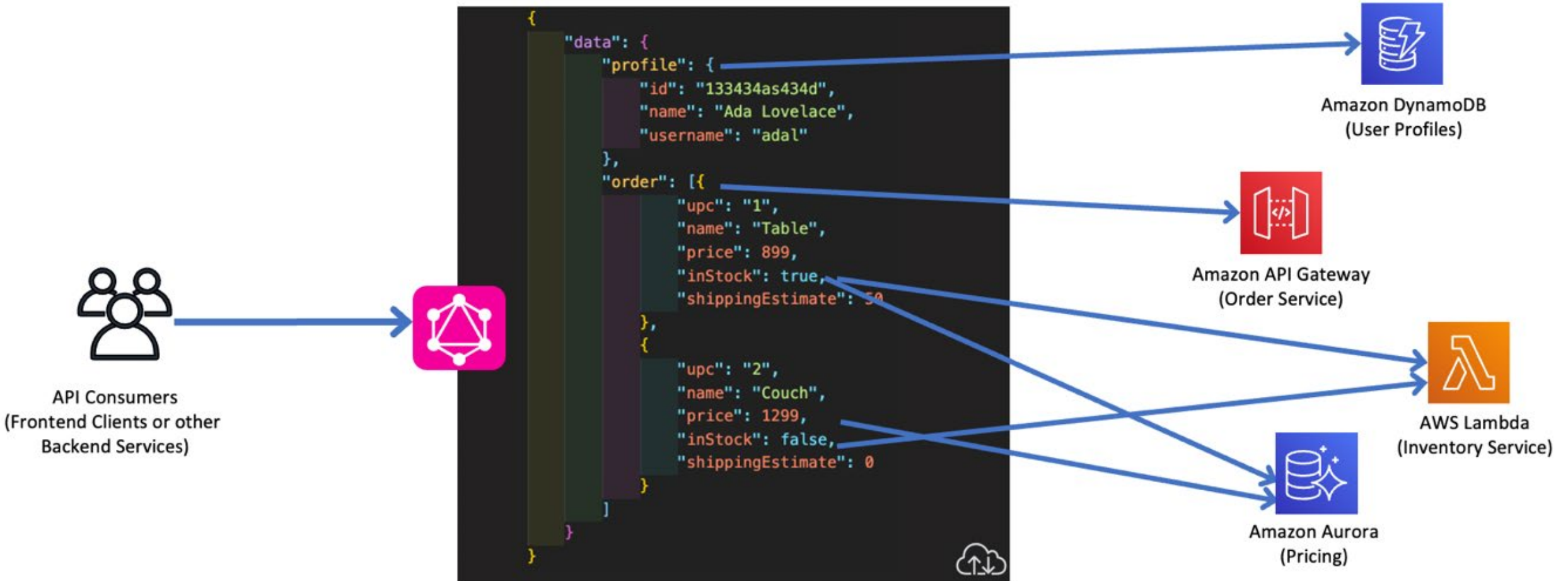
2. Leverage hybrid cloud for microservices and containers



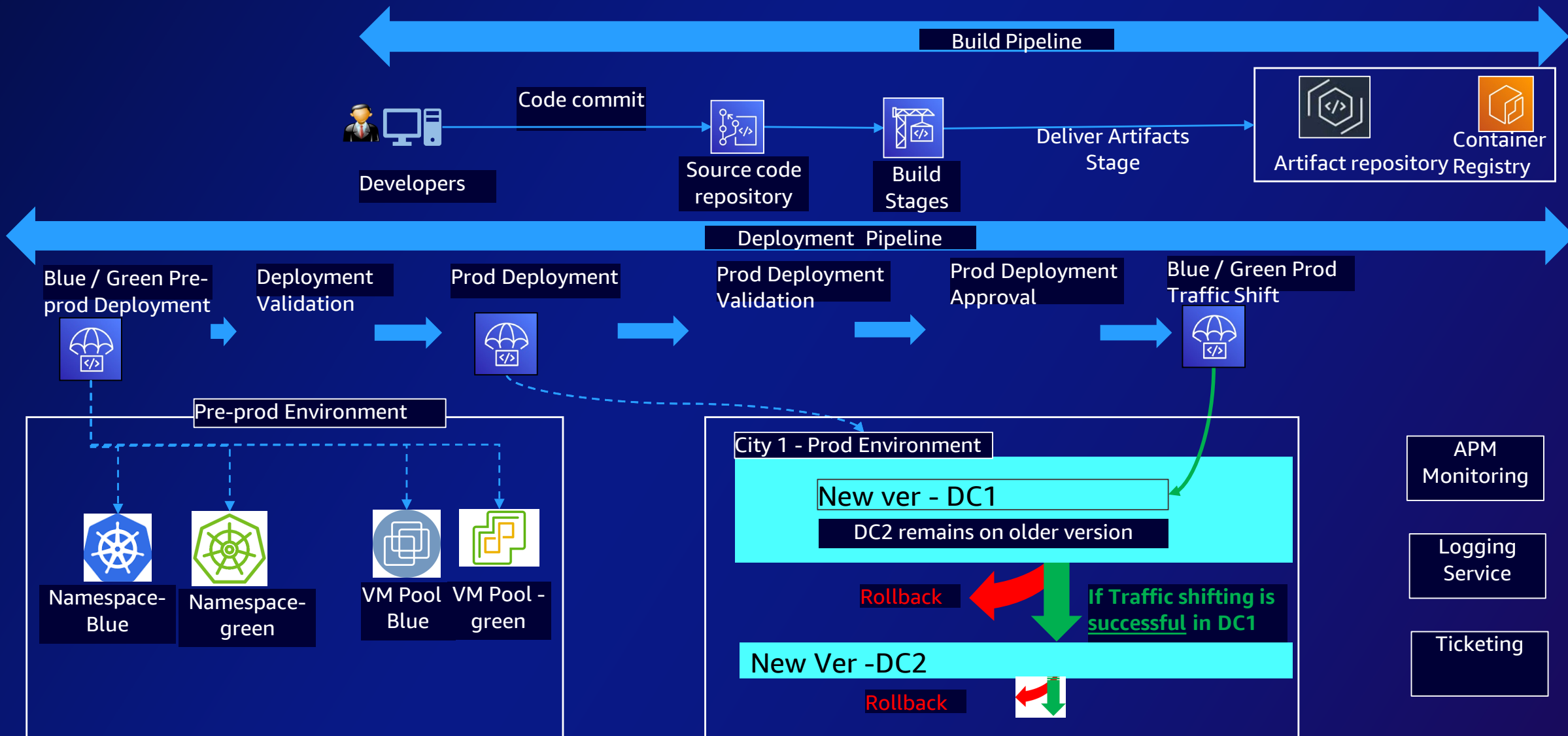
2. Leverage hybrid cloud for microservices and containers, COTS



3. Avoid API sprawl for resilient APIs



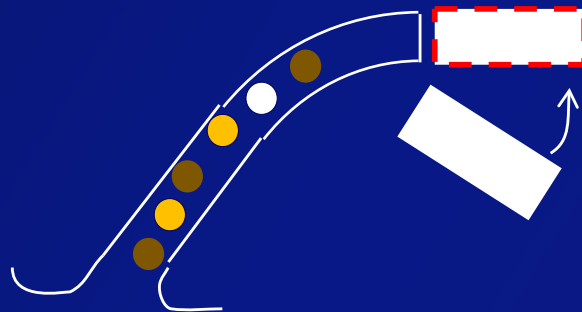
4.Leverage DevSecOps for Blue-green deployment



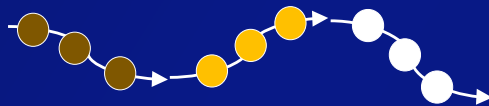
5.Leverage ALWAYS-ON architecture with AIOps and hyper-automation



Because of AI/ML capabilities and continuous journey monitoring, application configurations are adapted very frequently

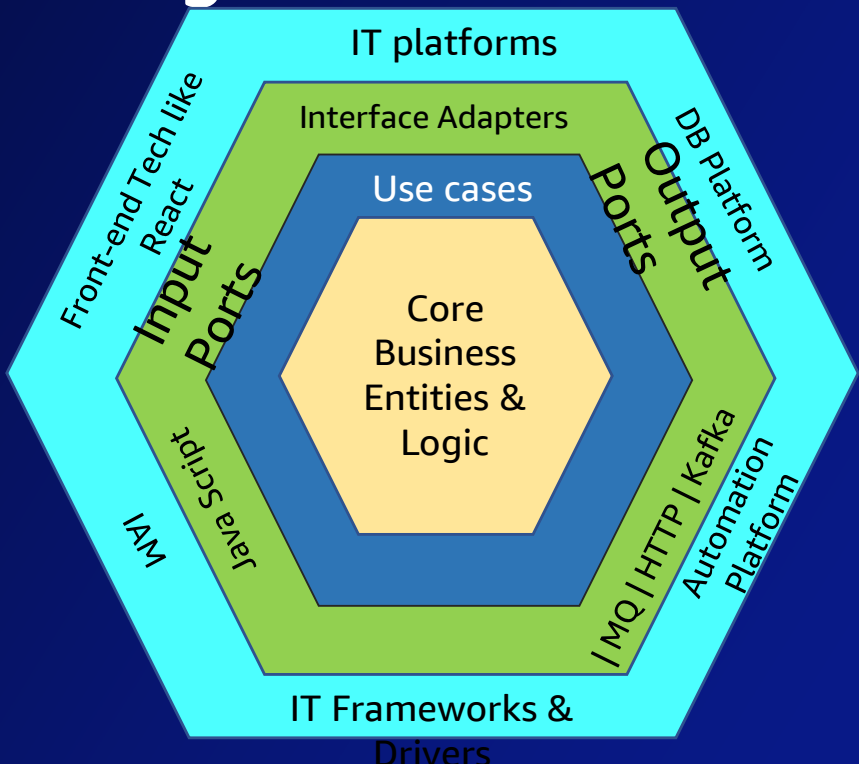


Because of capabilities like automation, auto-scaling, service mesh federation to switch over to other DC, prevention of the potential failures is feasible



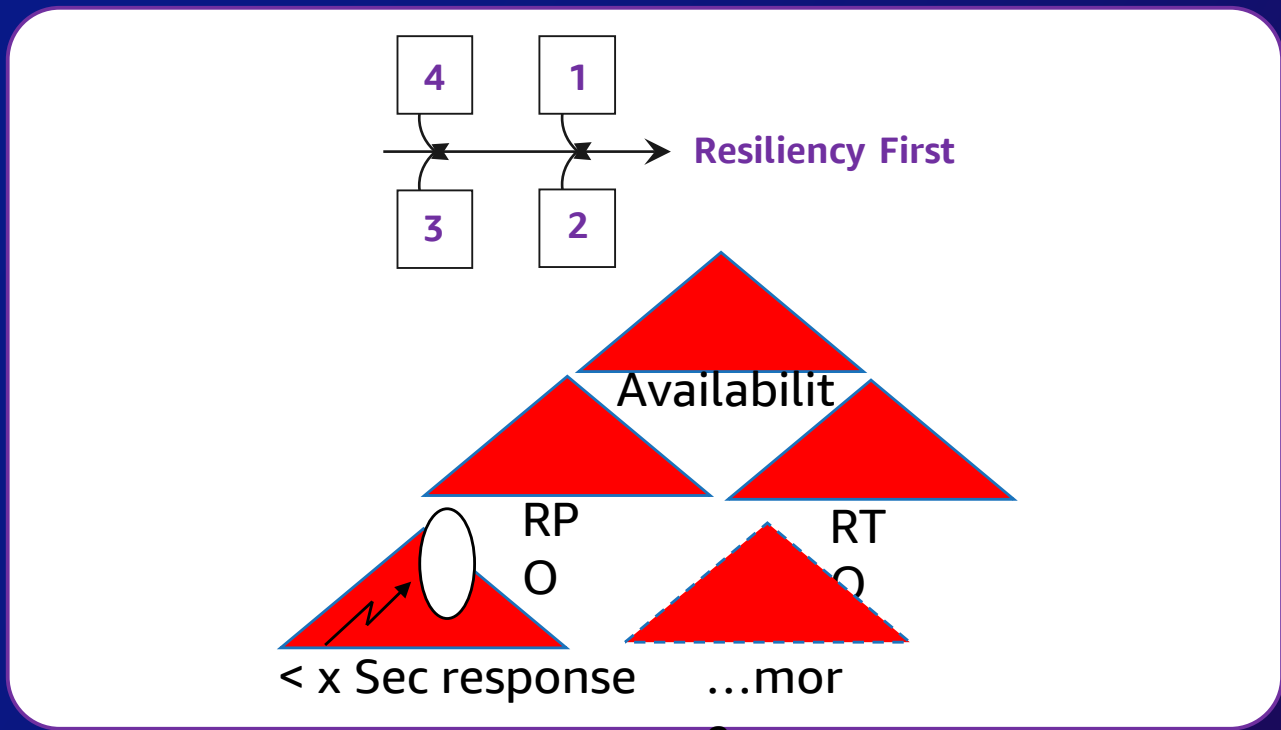
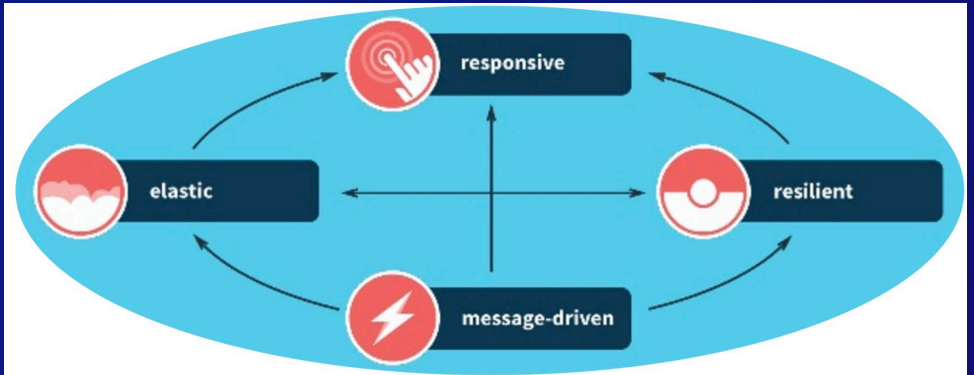
Customer journey events

6. Leverage Architecture Framework of 'Reactive Manifesto' and 'Hexagonal Architecture'



- HEXAGONAL ARCHITECTURE
- Biz Domain (Entities, Events, Business Rules)
 - Use cases, user Journeys
 - Interface Adapters (I/O Ports)
 - IT platforms, Frameworks & Drivers

Reactive Manifesto Architecture NFRs





A match
made in
the cloud.



Thank you!

Pankaj Verma

IBM Distinguished Engineer CTO-Hybrid Cloud Services

IBM Consulting, India/SA



Please complete the
session survey