

ADD0

ALL DAY DEVOPS

NOVEMBER 12, 2020

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**Cloud as a
Commodity:**

**Highest Probability
of 100% Availability**





Why listen to me today?

Interrupt and Ask Questions!

I like it



Quick Humble Context

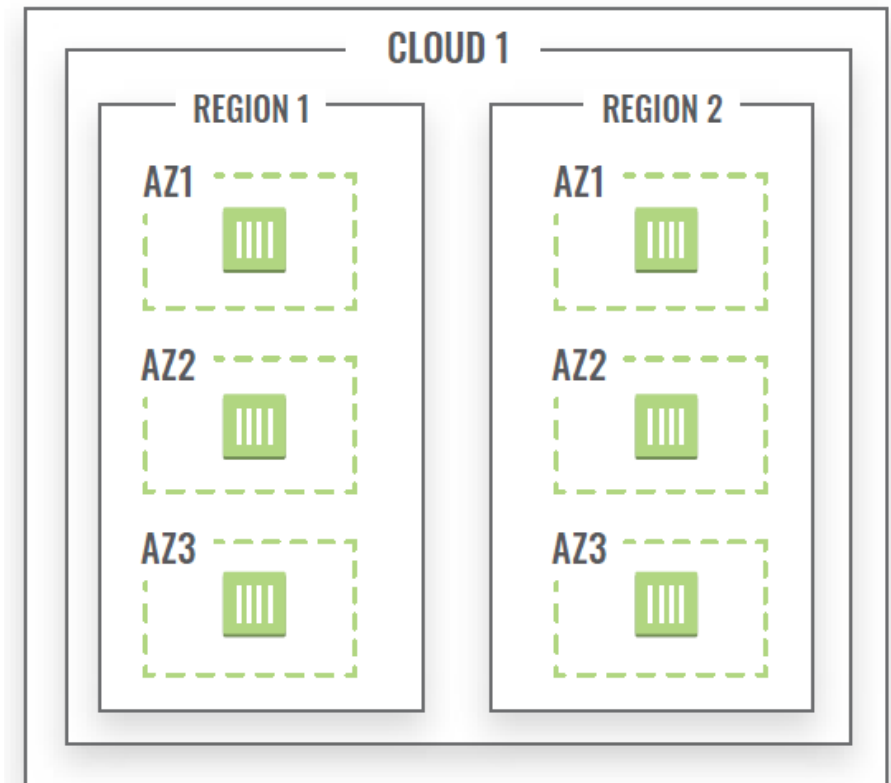
- Was Global head of SRE/AppSec at NCR
- Make killer omelets with an iron skillet
- Spent 25 million USD on DX to learn from my epic failure
- In DevSecOps space to innovate & contribute content
- Certified Google Fellow



Yelling Side Profile

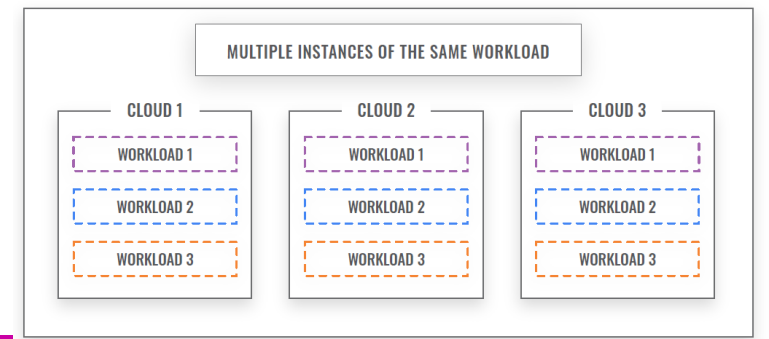
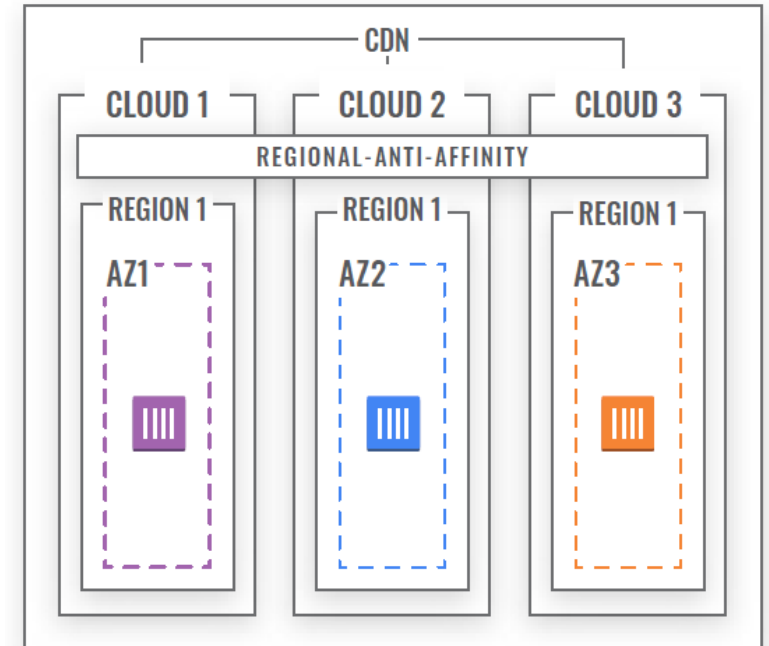
Antipatterns to Resilient Architecture

- Strategic Cloud Target
- Multi-Regional
- 3+ Availability Zones
- Unable to achieve 100% availability
 - Google SRE handbook confirms



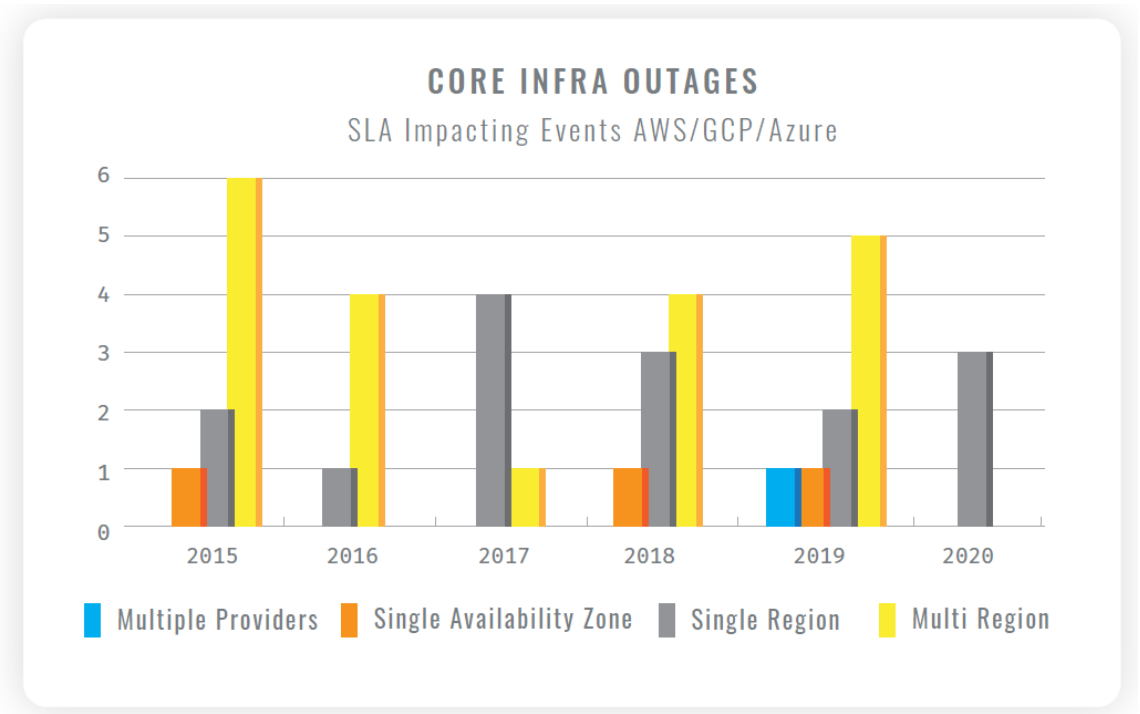
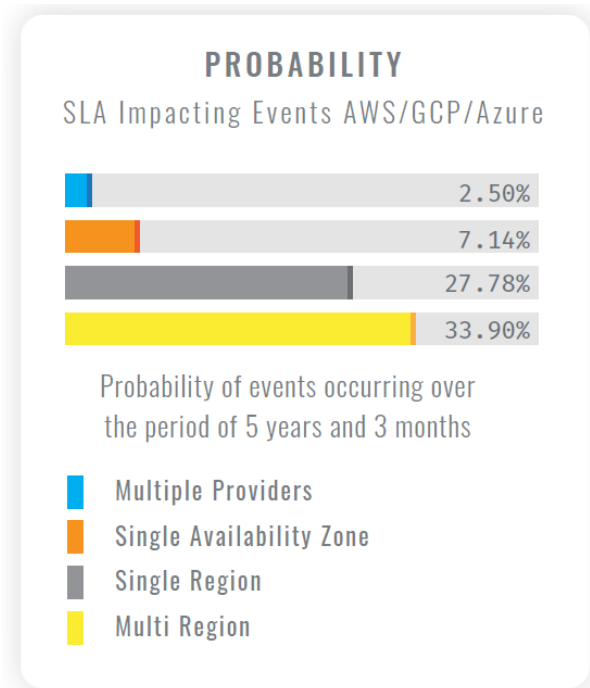
Data-Driven Resilient Architecture

- What I call 'Sum Cloud'
- Redundant Multi-cloud Workloads
- 1 Availability Zone
- Able to achieve 100% availability
- Fewer workloads for higher resilience



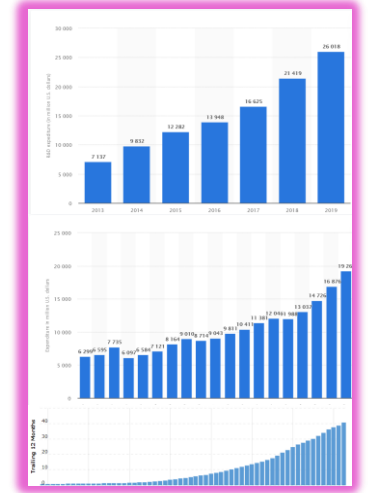
Data Analysis – Proving a Point

- **Scope:**
AWS/GCP/Azure
- **Timeframe:**
2015-2020
March

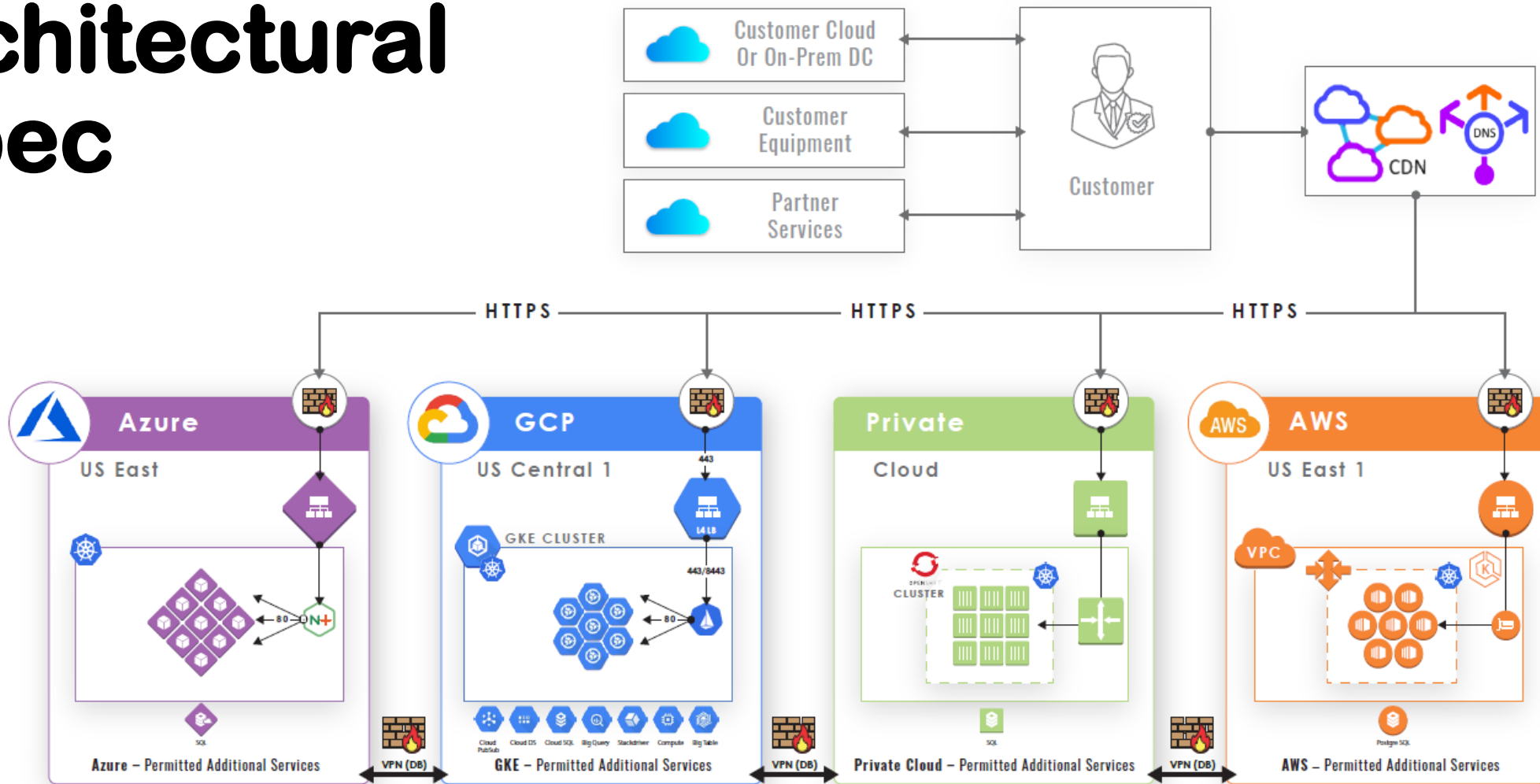


Take-Aways

- Resilience to SLA impactful events is by running your services from independent organizations (► R&D)
- Human errors cause the bigger events
- Environmental events cause AZ outages
- Multi-Cloud with the CNCF can be efficient and minimal operational management overhead



Architectural Spec



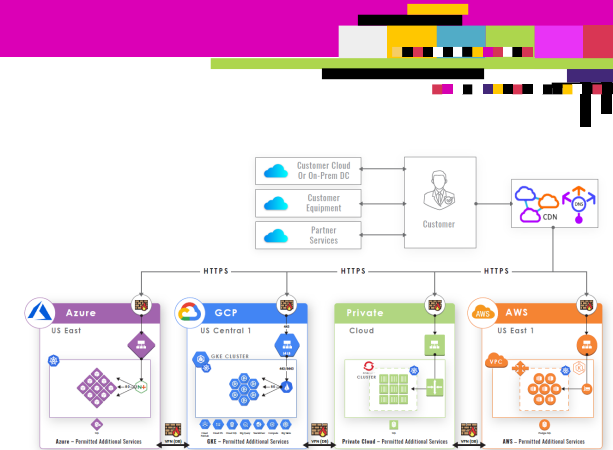
Reasonable Multi Cloud Operational Management

Pipeline-as-Code ► Orchestration not Automation

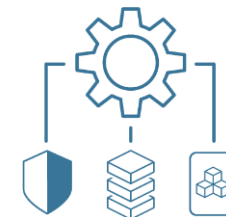
Stop Making Infrastructure Pipelines

Include IAC / CAC in the delivery (environment delta)

Environmental requirements are part of the delivery (GitOps)



SHOW US – 3 Clouds!



Learn more: Whitepaper (<https://www.benchmarkcorp.com/immutable-clouds-whitepaper/>)



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