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The future of cloud is *liquid*

Phaelan Koock

CEO and Cybersecurity Consultant

Innovation, cybersecurity risk, and the path to Liquid Cloud

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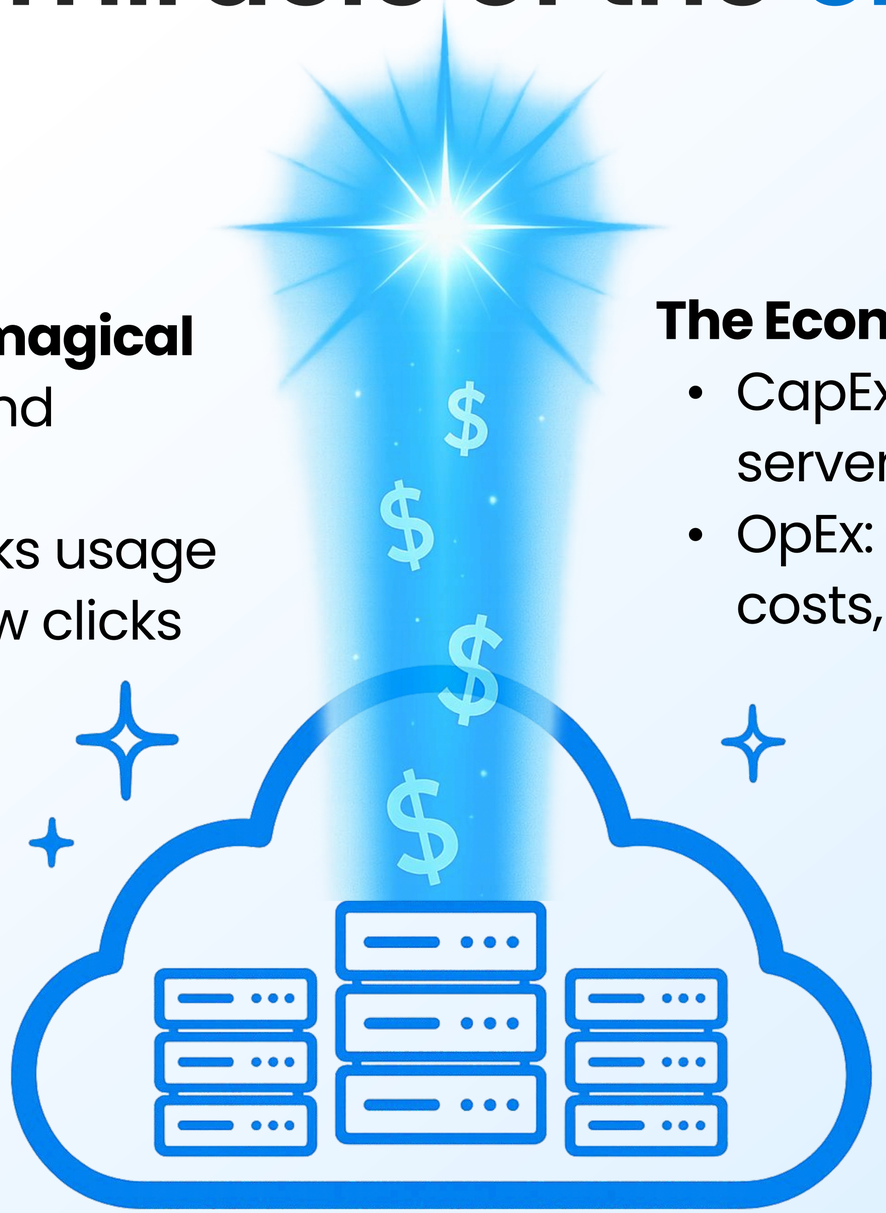
The miracle of the cloud

What made the cloud magical

- Elastic scale on demand
- Velocity for builders
- Utility pricing that tracks usage
- Global reach with a few clicks



The Economics of innovation

- CapEx: Big upfront costs for servers & infrastructure
- OpEx: Pay-as-you-go, no upfront costs, scalable instantly

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Shared responsibility in theory vs practice

Where it breaks

Cloud Service Providers

Providers secure the cloud

Cloud Users

Customers secure what they build in the cloud

Fragmented policies across providers create blind spots
Responsibility lines blur during incidents

Cloud flexibility is the dream

Cloud lock-in is the reality

Services multiply and drift
poor cost clarity leading to overspend

Skills shortage grows
students graduate with knowledge gaps

Every provider speaks a different dialect
3+ certifications

ETL Fees
making companies pay to remove their own data

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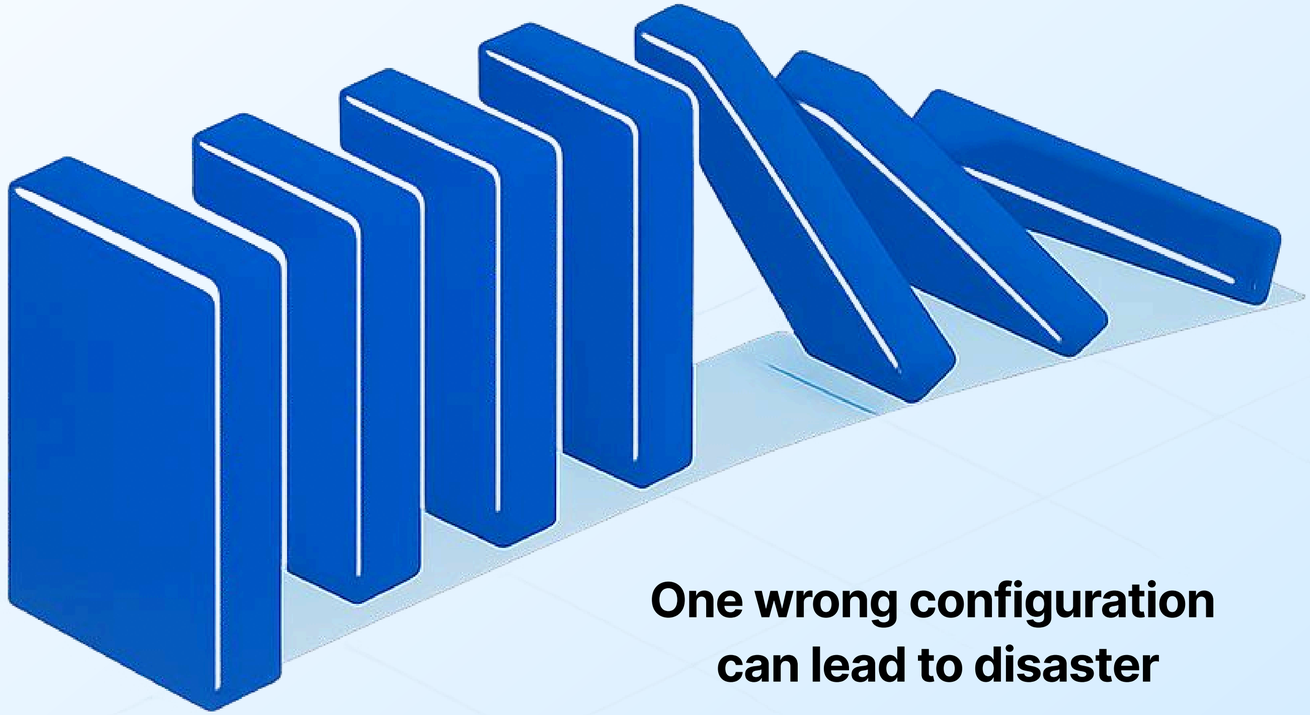
Why lock-in matters for security and resilience

1. Single provider concentration risk

2. Identity and Security Policy inconsistency across accounts and regions

3. Slower recovery options during outages



One wrong configuration can lead to disaster

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The Cost of a CSP Outage

Without a liquid, multi-cloud infrastructure, resilience stops at your provider's outage.

AWS 2025 Shutdown

Estimated **$1.5B in downtime losses** → $5,600+ per minute

100,000+ sites offline → 88% of users abandon services after downtime

Payment **delays**, broken supply chains, and **lost trust** → no migration agility = **single point of failure**

Liquid Cloud isn't optional — it's insurance for continuity.

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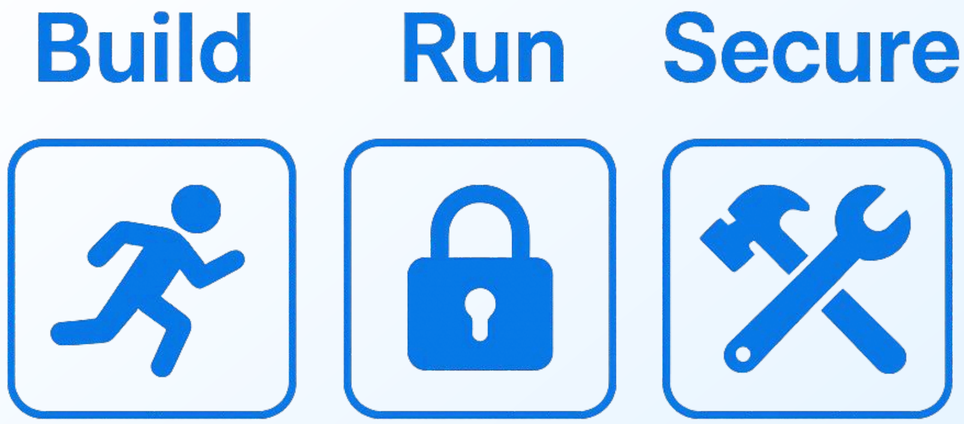
A short thought experiment

We want to deploy one app three ways

Parameters:

1. Same code base
2. Same server configurations
3. Three different providers



A) Identity roles
B) network policies
C) observability
D) cost guardrails

Inconsistent abstractions!

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True Cloud Principles

Re-framing the goal

1. Resilience through choice and redundancy
2. Security that travels with the workload/ infrastructure
3. Consistent operations across cloud providers
4. Freedom to move for cost, compliance, and performance

Enter the Liquid Cloud

Where architecture, security, and operations are portable and consistent

Provider agnostic by design

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Core principles of Liquid Cloud

1. Model/Build as a first step
2. Cost comparison as a standard design step
3. Standardized Policy & Network as code with secure best practices

4. Intelligent migration of workloads/ infrastructure
5. Observability layer that is provider neutral

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In Closing

From promise to future practice

- The cloud unlocked innovation
- Complexity and lock in created new risks
- Liquid Cloud restores choice and resilience
- The future is cloud that flows where a business needs it

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PyxCloud redefining the future of cloud infrastructure

phaelan@pyxcloud.info

www.pyxcloud.info

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