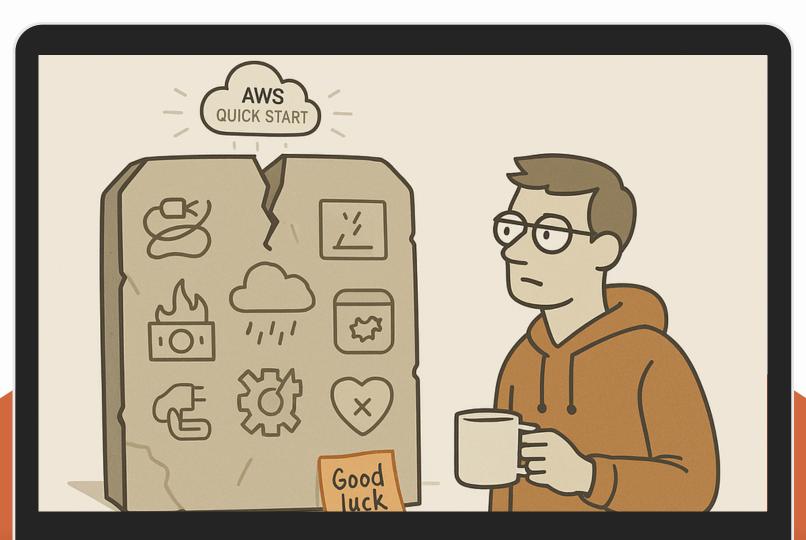
7 Pitfalls of Cloud Architecture

What they don't put in the AWS Quick Start guides



Craig Bensemann

The Problem

Cloud promises scale and flexibility
What we get: surprise bills, black-box failures



CLOUD BY CHECKBOX

Using services to satisfy a contract, not a design



CloudWatch Is Not Observability

- Expensive
- Slow
- Hard to search



Congratulations, your logs are technically there.

Infrastructure Entropy



Infrastructure and application code mixed deployments

Manual Database migrations

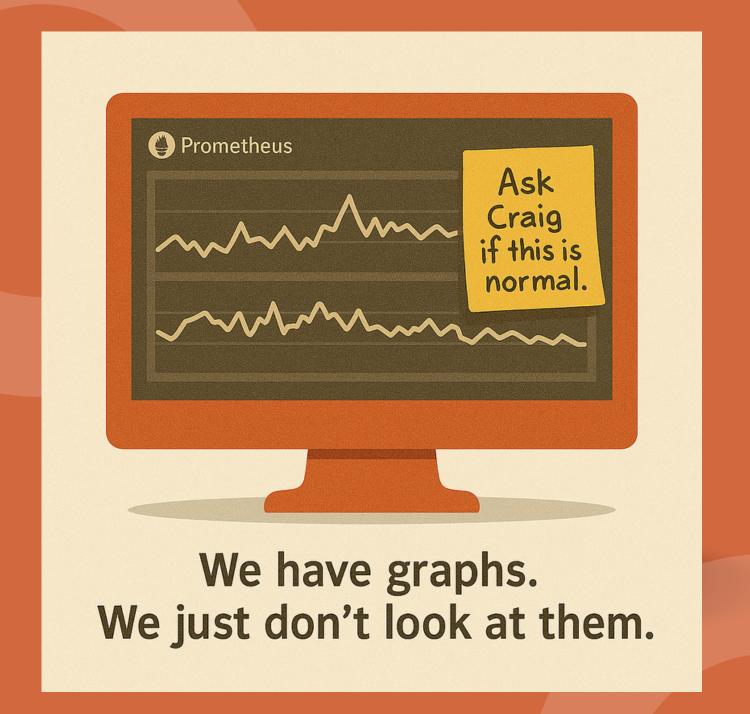


Deployments that aren't Idempotent

Monitoring as an afterthought

Metrics don't matter if no one sees them

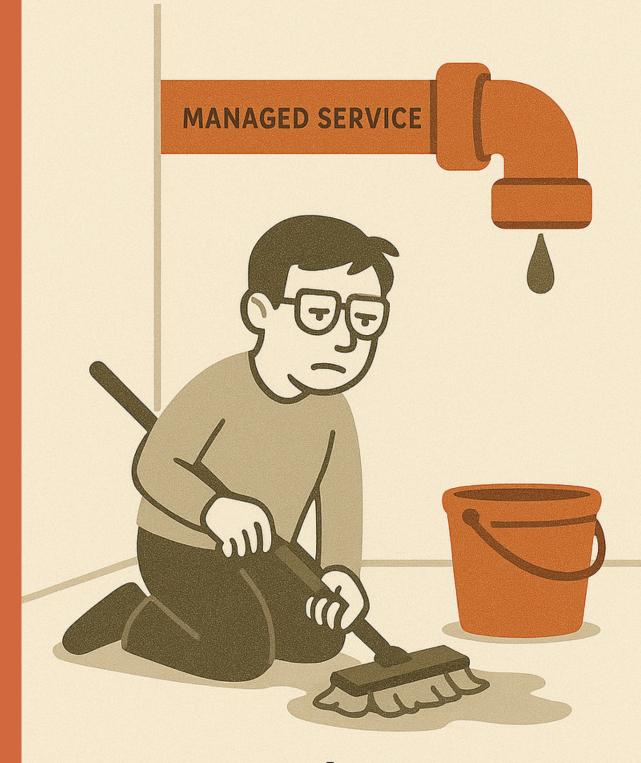
- Prometheus added late, barely hooked in
- Dashboards ignored until things burn
- Alerts are noise without ownership



The Myth of Managed

Managed services ≠ fewer people

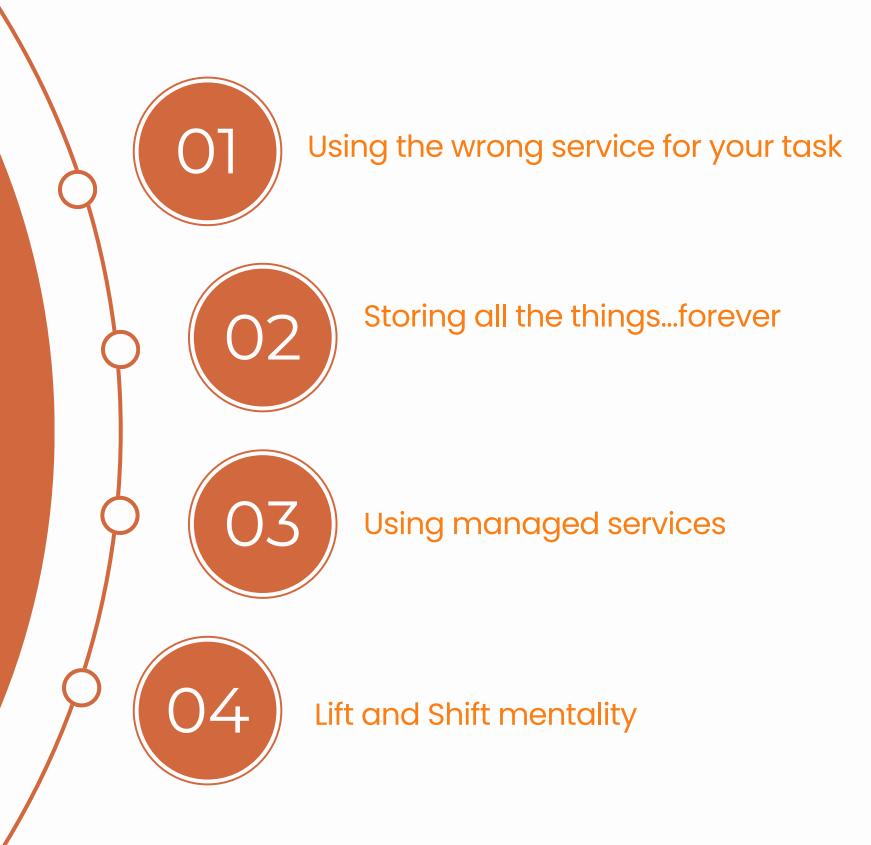
- You move to the cloud to save ops
- Now you need an ECS specialist, a Lambda whisperer, and a Kafka babysitter
- Abstraction becomes overhead



Managed means someone else installs it. You still fix the leaks.

Cost Without Value





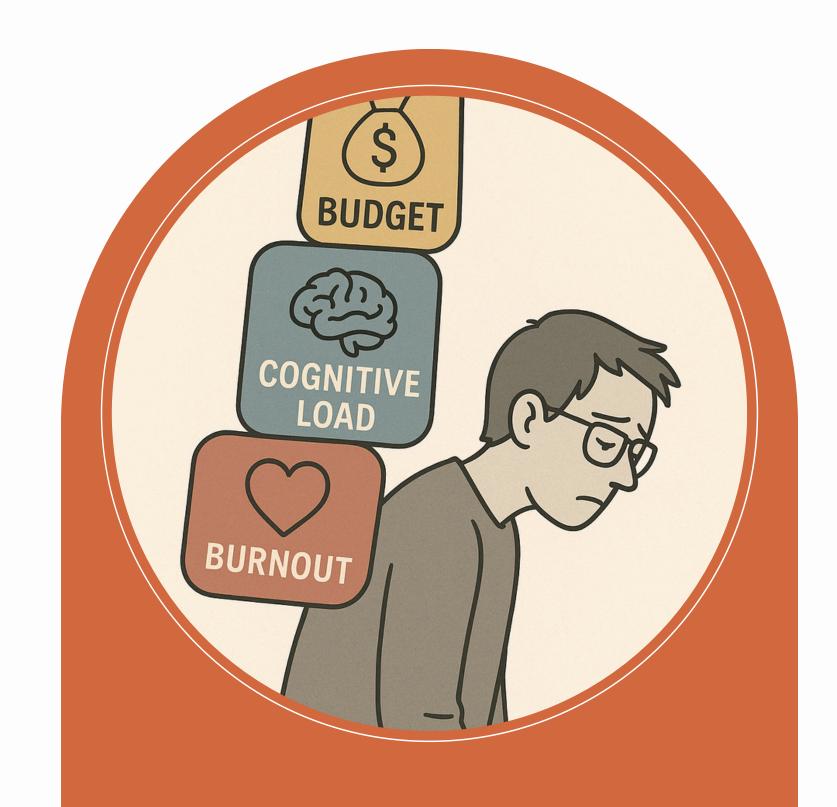
Serverless, Not Simplified



- Arbitrary limits
- Hard to reason about data flow
- Limited debugging

What these pitfalls have in common

- 💸 Budget: Infra, data, tool sprawl
- @ Mental load: Debugging, fear of change
- Worale: Hero culture, burnout



Patterns for Success







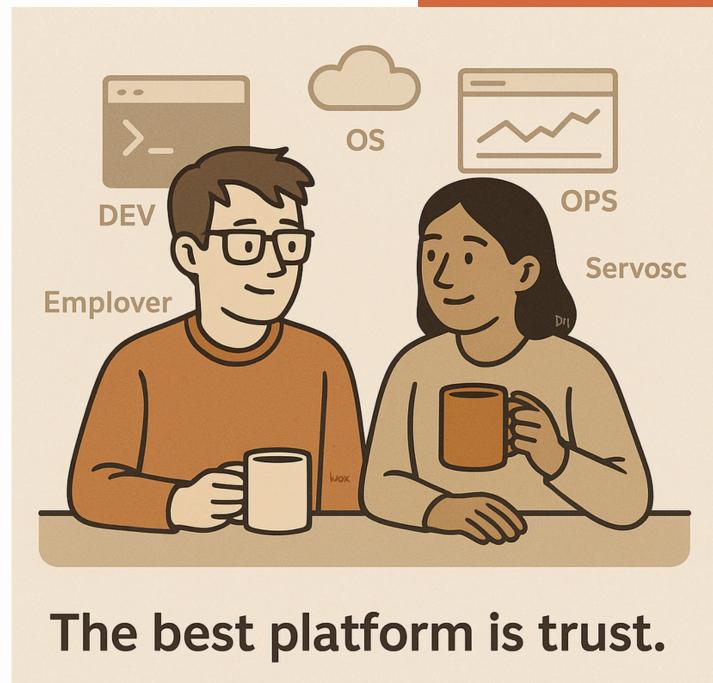




Bonus: Respect the Humans

"Your team is your platform."

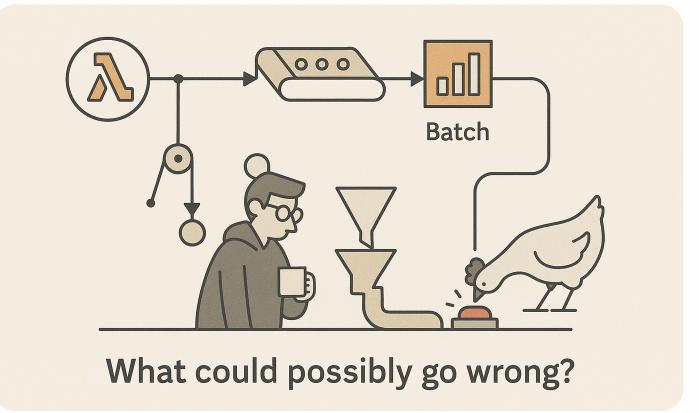
- Clarity reduces stress
- Bad systems create blame loops
- Most real ops wins come from people, not services



CLOSING THOUGHT

"The best cloud system is the one you can explain at 2AM."

- Make intentional choices
- Design for observability
- Value clarity over cleverness
- And trust your team



Questions & Confessions



CONNECT

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