



# The Simplicity Code: Designing Intelligent Architecture Without the Buzzwords

Trade buzzword stacks for operational clarity, simpler boundaries, and faster change



**It's YOUR  
fault!!**

**Did you even  
test this?!**

**I'm so sick  
of this code!**

We're shipping more complexity  
than capability

Kubernetes, CQRS, event  
streaming, service meshes:  
great tools... wrong default

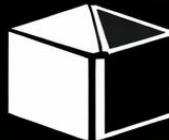
Clarity is an availability  
feature

# The Simplicity Code: Agenda

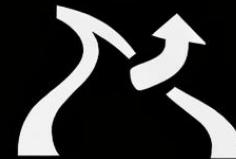
*The 3 Filters:*



2 AM Test



Half-Rule



Primary Path First

*Then, Apply to 4 Decisions:*



Boundaries



Data



Cloud



Scaling

Ugh... I've  
gotta fix the bug!

BEEP! BEEP!

12  
9  
3  
6  
2:07

URGENT!

BUG ALERT!

</>

# The Rubric



**Detect:** Do we know something's wrong quickly?

# The Rubric



Localize: Can we pinpoint where and why?

# The Rubric



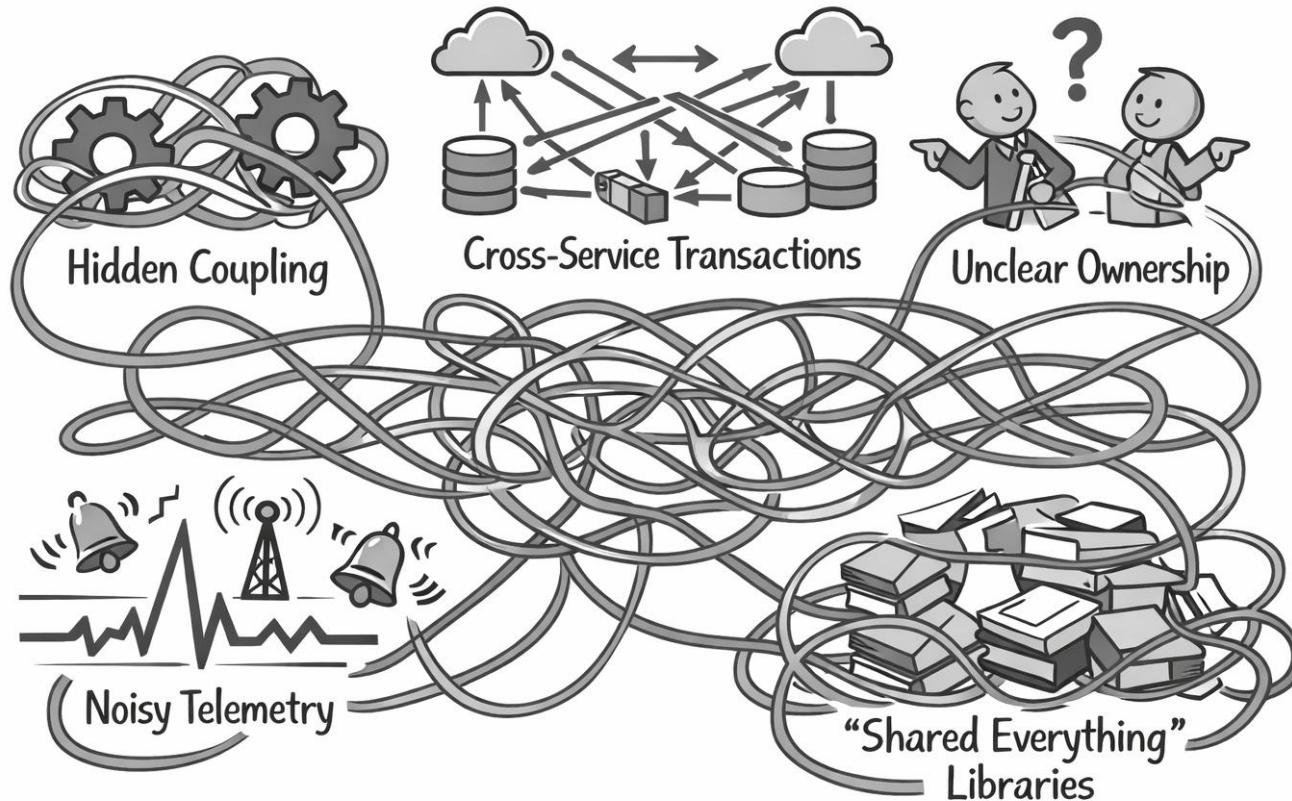
**Change:** Can we modify with confidence?

# The Rubric

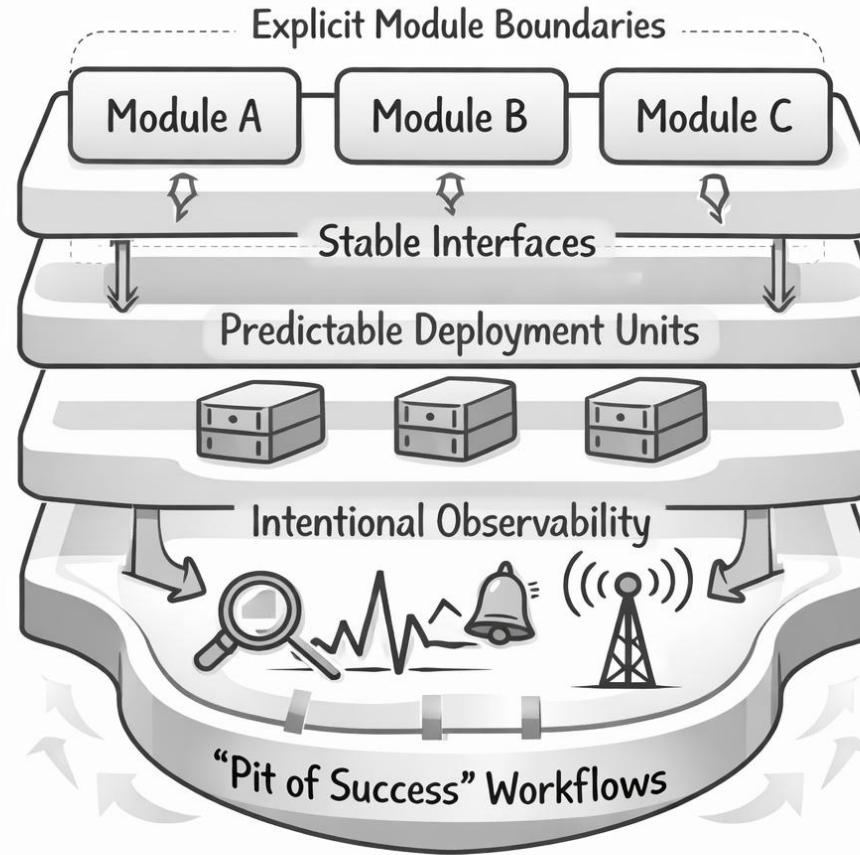


**Validate:** Can we prove it's fixed?

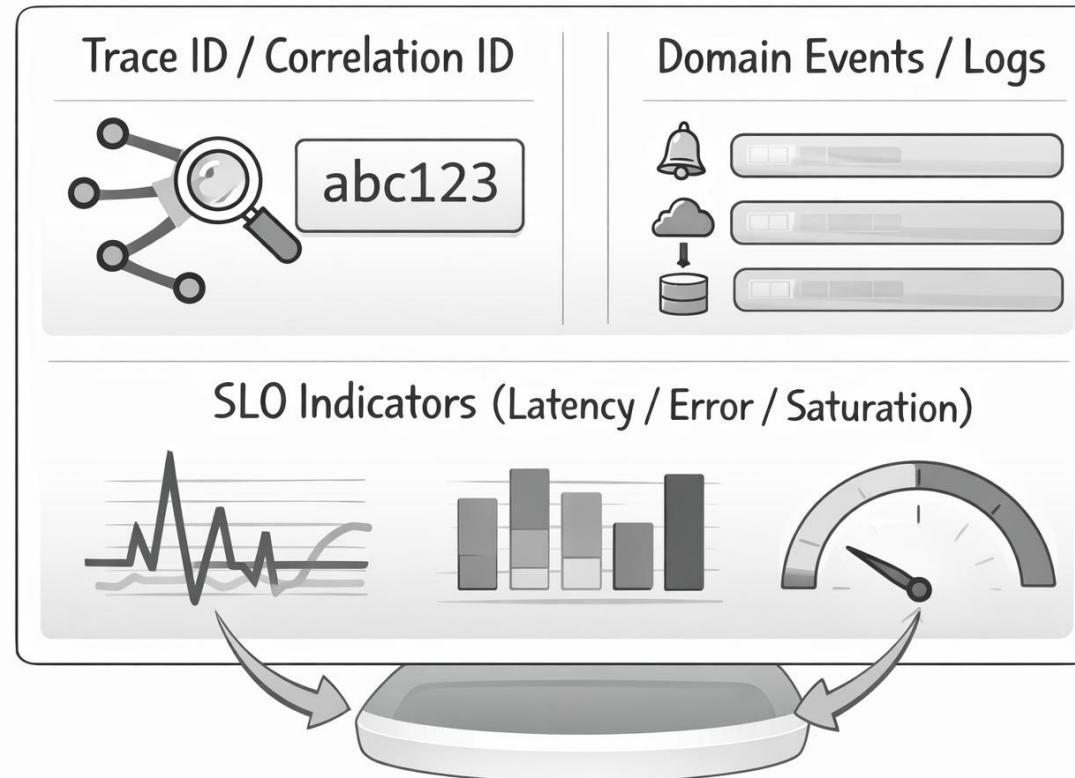
# Architecture choices that fail the 2 AM Test



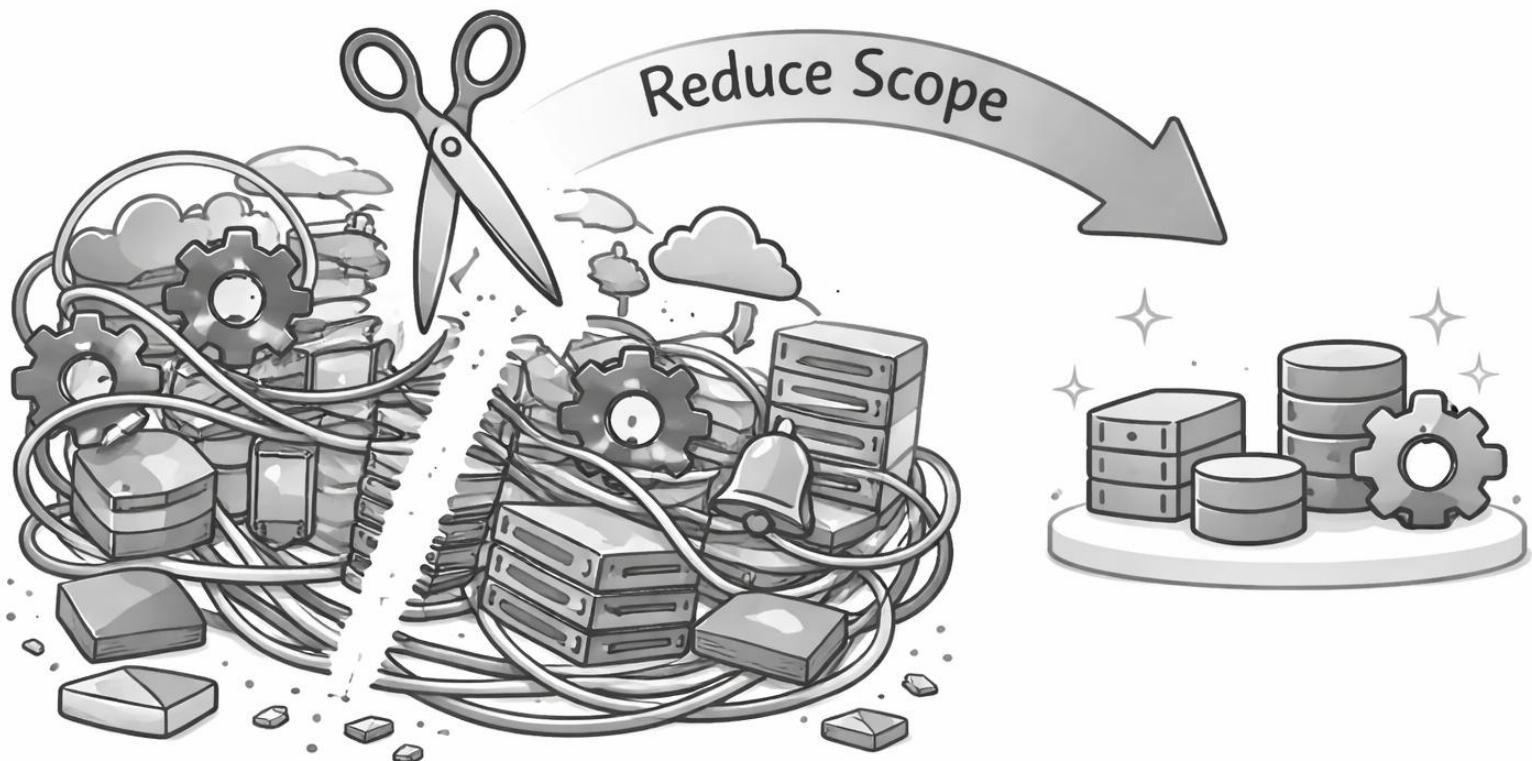
# What passes the 2 AM Test

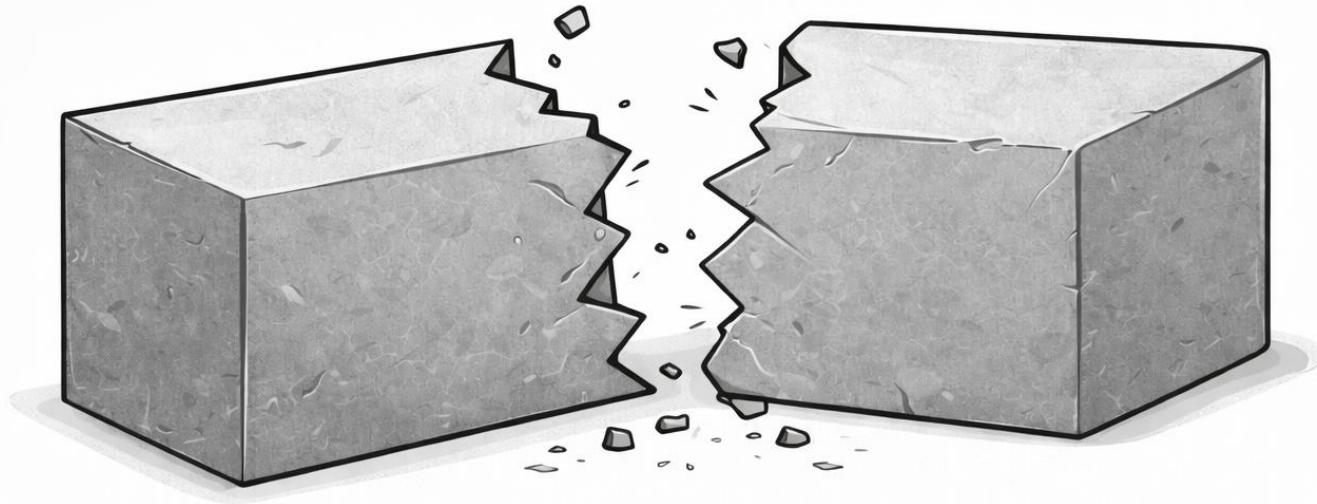


# Practical instrumentation: signal over volume



# The Half-Rule

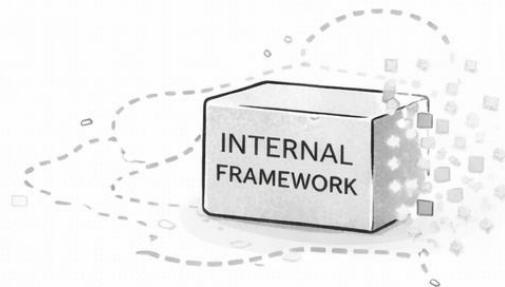




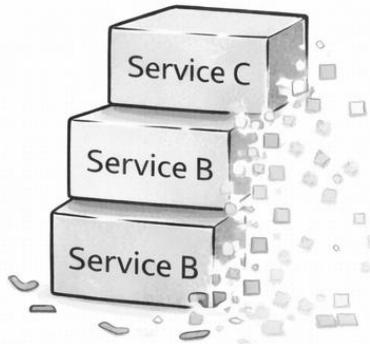
Build half of what you think you need;  
treat the rest as hypothesis.



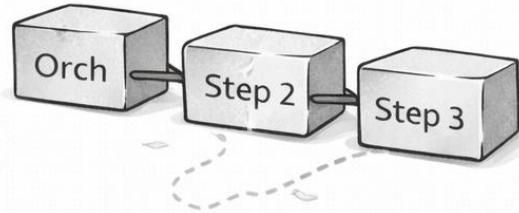
Every abstraction spends budget:  
cognition, ops, latency, tooling, coordination.



Kill “frameworks” that exist only internally.

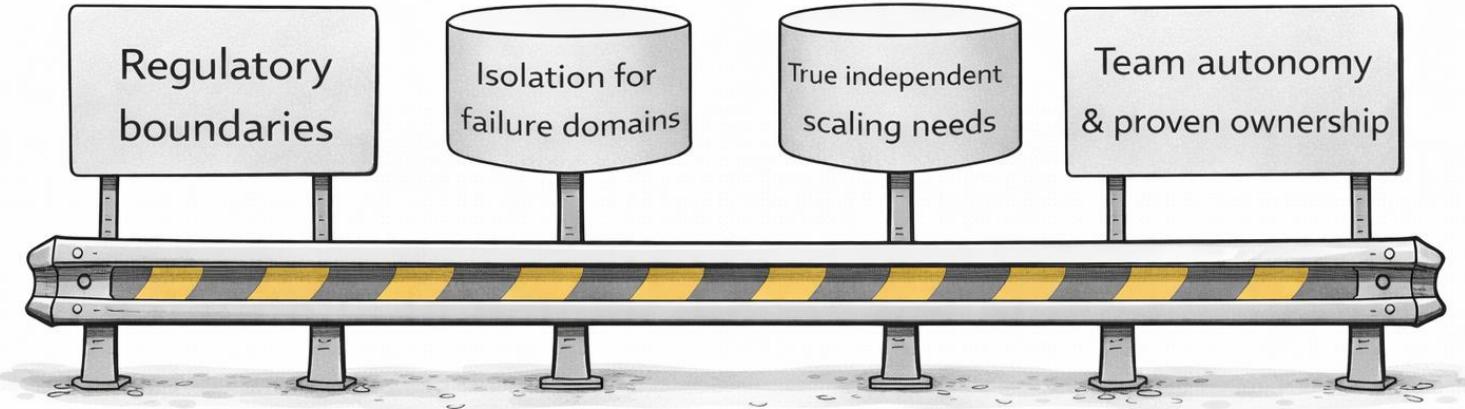


Collapse service count when boundaries are unclear.



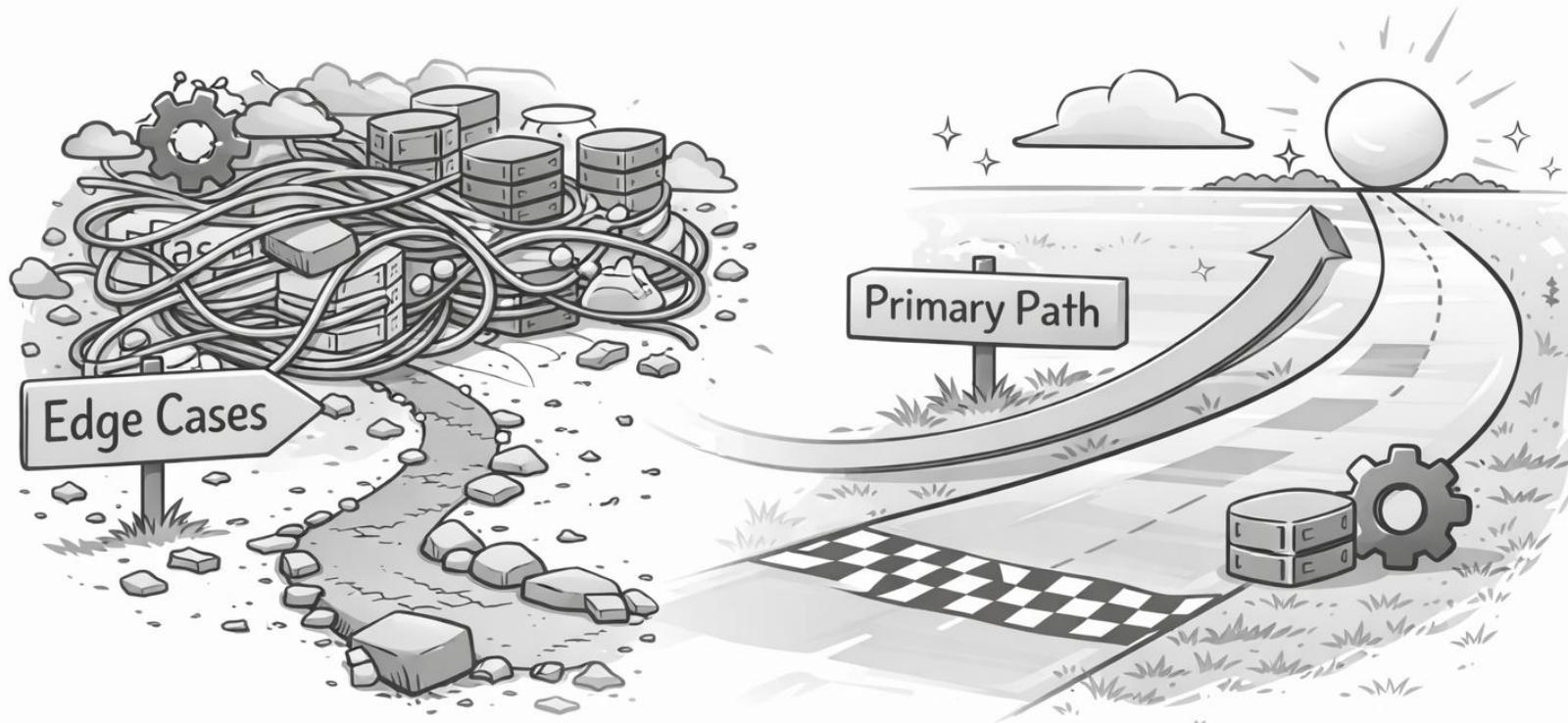
Replace orchestration with sequencing in-process when load doesn't justify distribution.

## Subtraction Tactics.



When ***not*** to subtract.

# Primary Path First





Make the 80% path boring, resilient,  
and fast to understand.



Contain *Edge-Case* Complexity.

# The Simplicity Code:

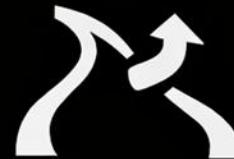
*The 3 Filters:*



2 AM Test



Half-Rule



Primary Path First

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*Then, Apply to 4 Decisions:*



Boundaries



Data



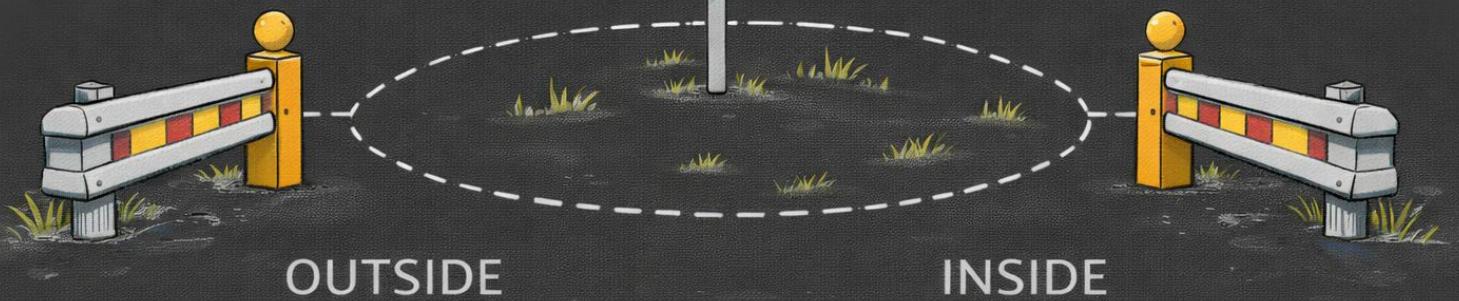
Cloud



Scaling

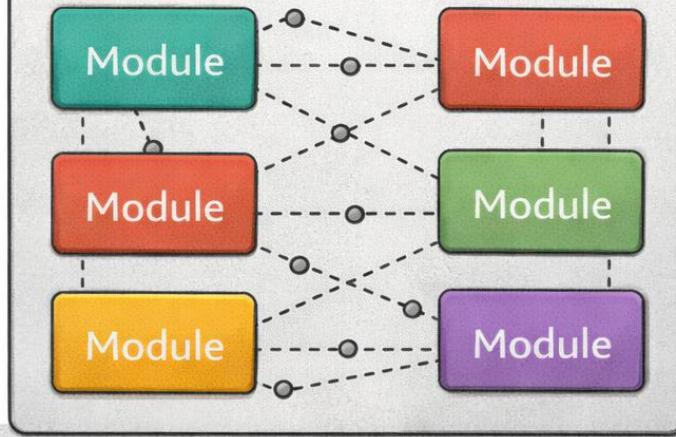
DECISION AREA A

BOUNDARIES

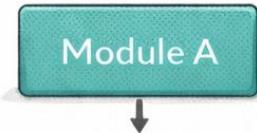


Decision Area: *Boundaries*.

## MODULAR MONOLITH



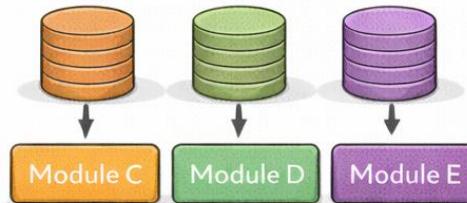
Microservices are a deployment  
choice, not a design starting point.



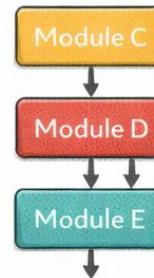
Explicit module API



Internal encapsulation

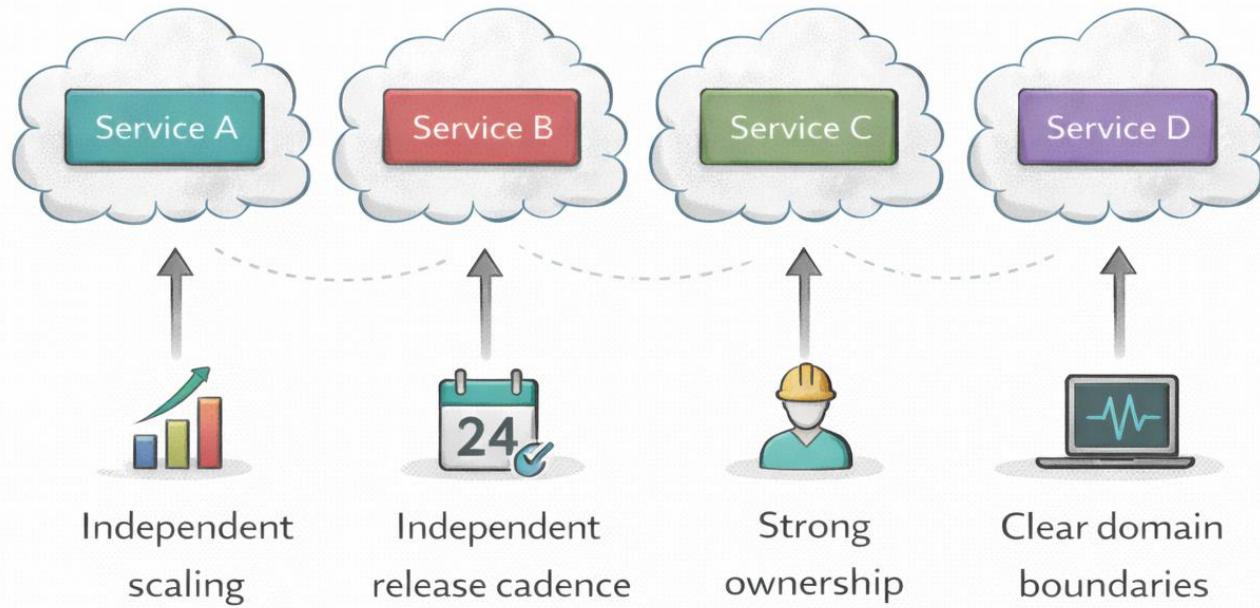


Separate data ownership (if feasible)



Clear dependency direction

Modular monolith: what it means (*practically*).



Microservices: earned, not *declared*.

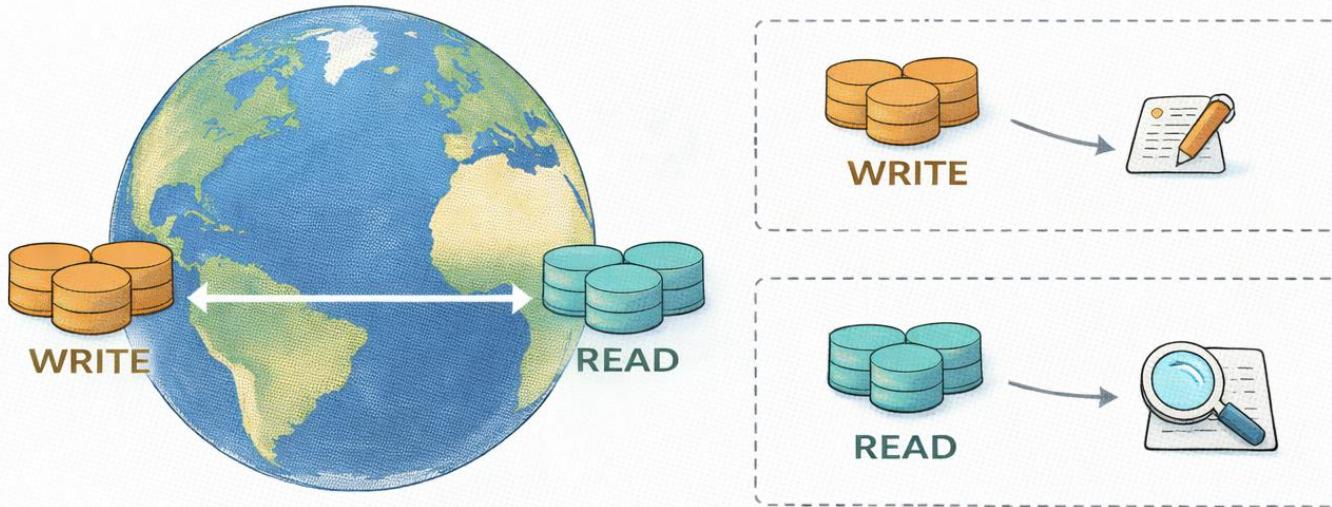
DECISION AREA B

DATA & CQRS SCOPE



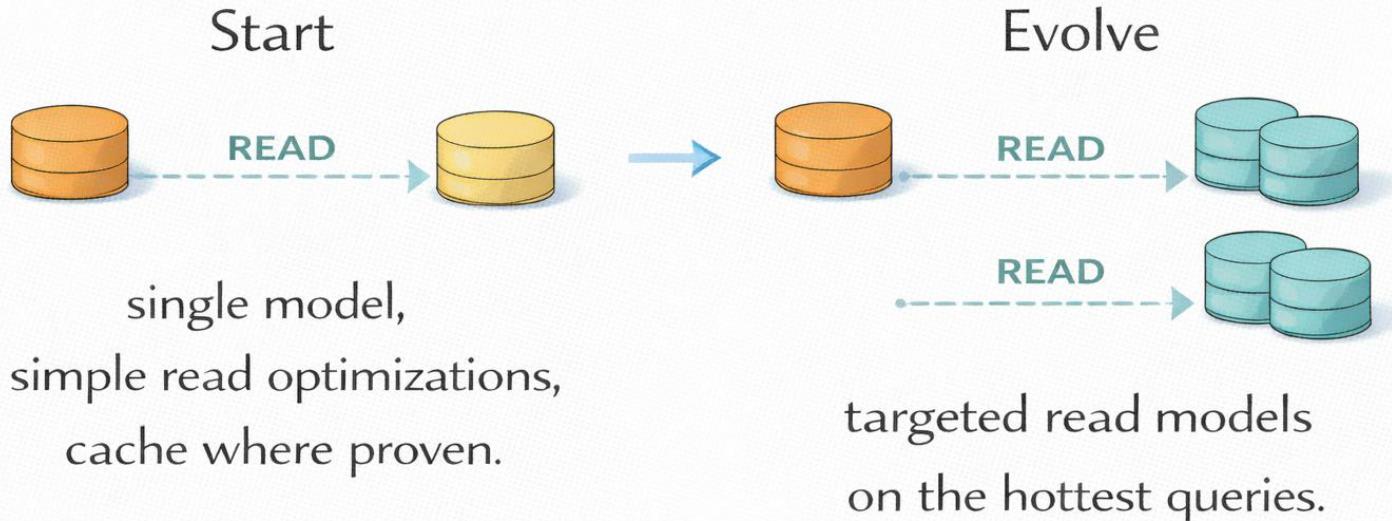
Decision Area: *Data and CQRS scope.*

# CQRS: stop making it global



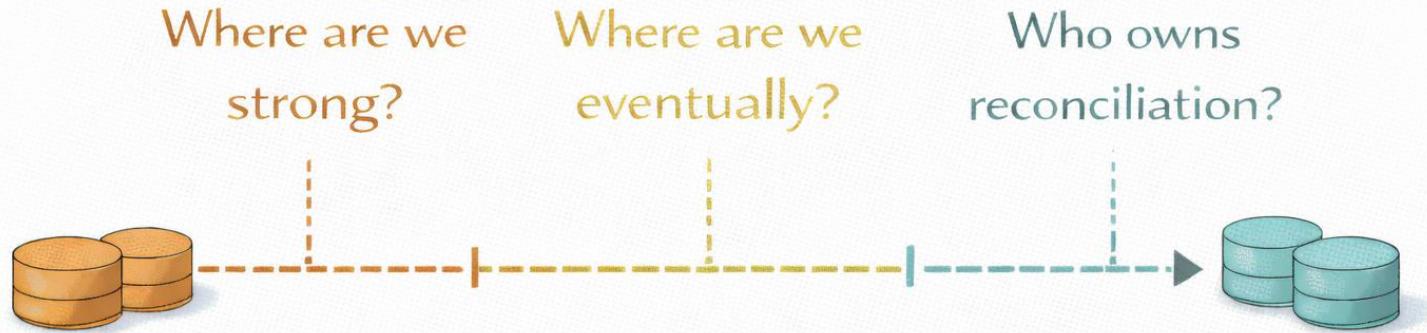
CQRS is powerful when localized;  
harmful when it becomes an ideology.

# evolutionary steps



A simpler default.

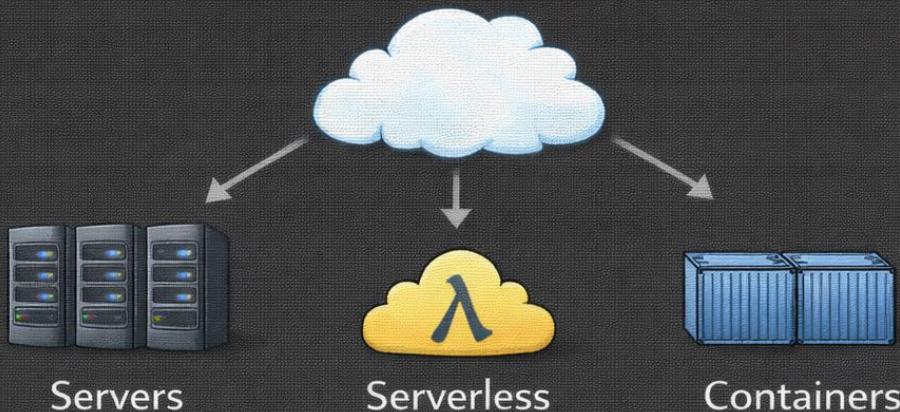
# boundary lines



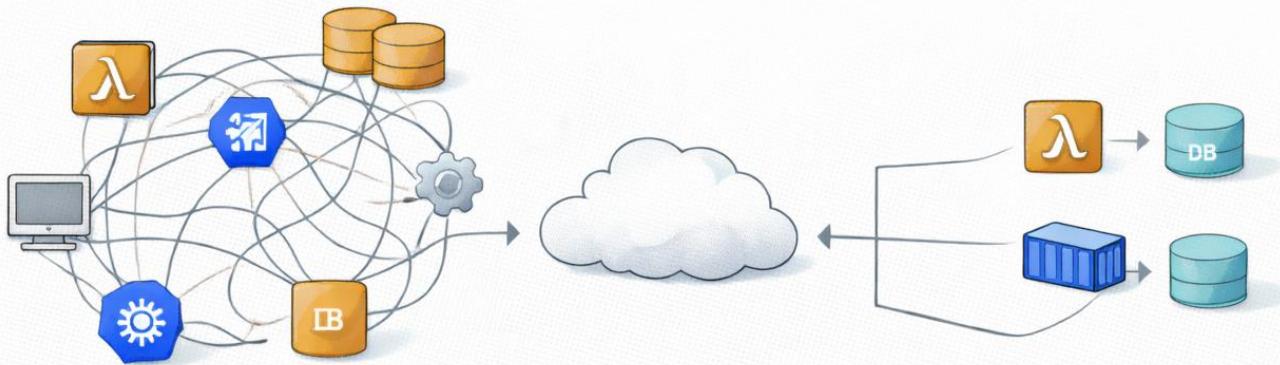
Consistency boundaries you can explain at 2 AM.

DECISION AREA C

CLOUD ARCHITECTURES

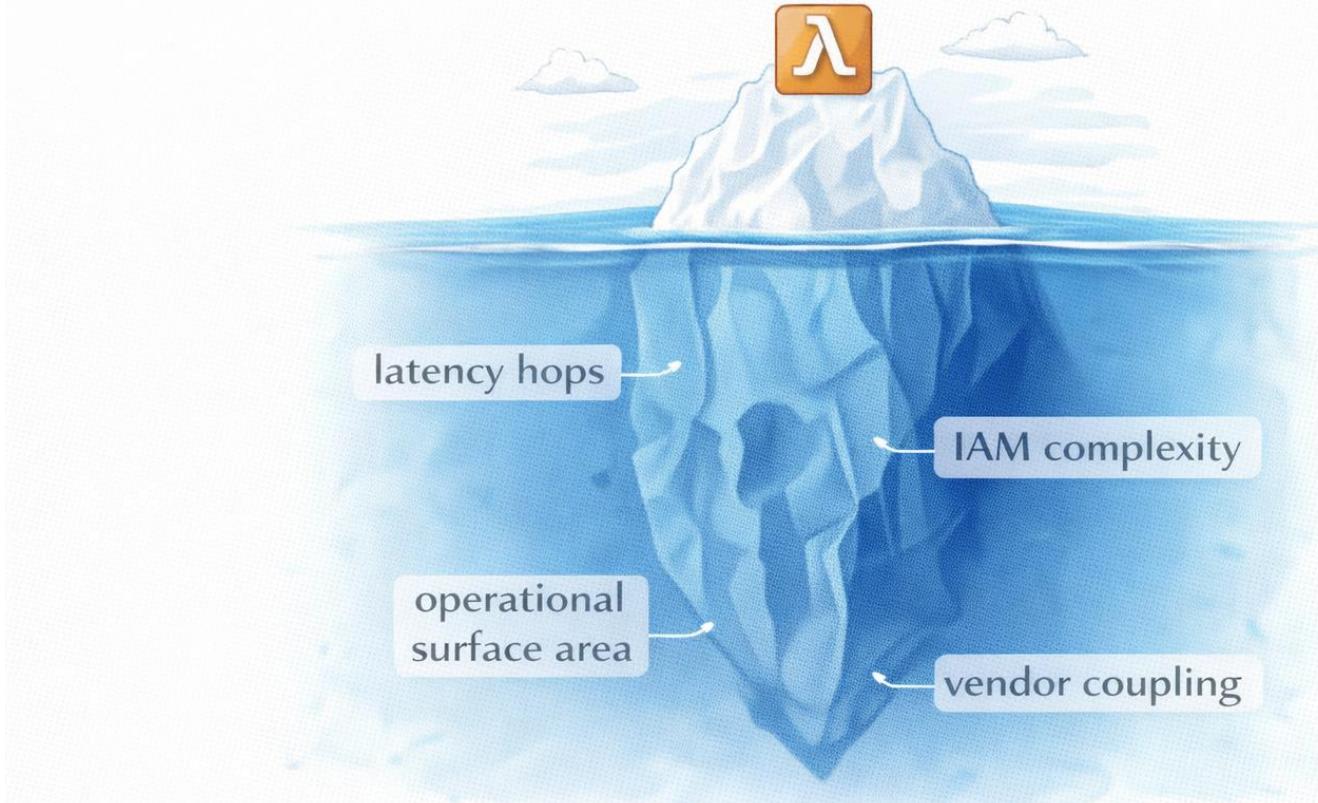


Decision Area: *Cloud architectures.*

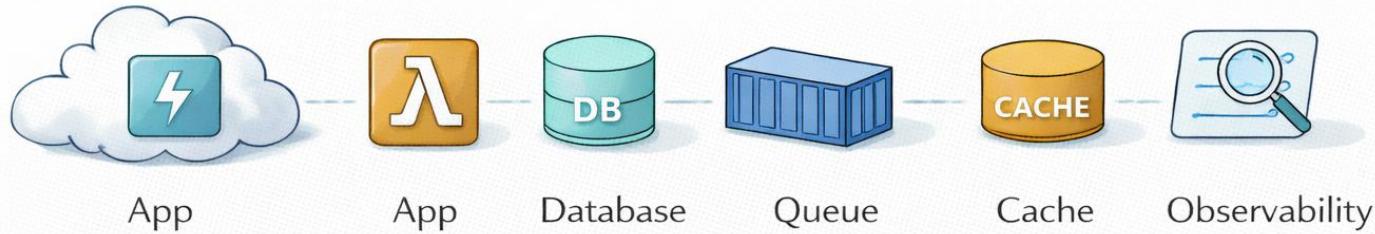


Use cloud to remove toil, not to multiply moving parts.

Cloud simplicity.



‘Managed service’ is not free.

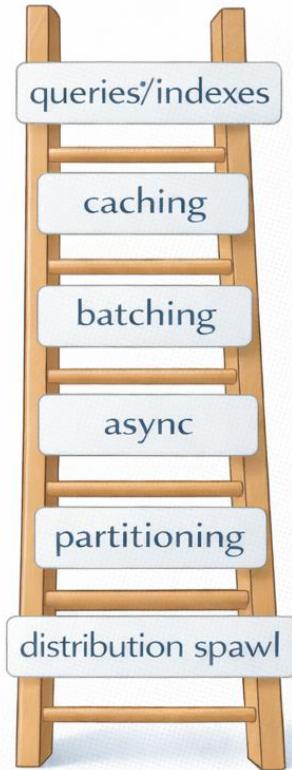


Add services only when a constraint forces it.

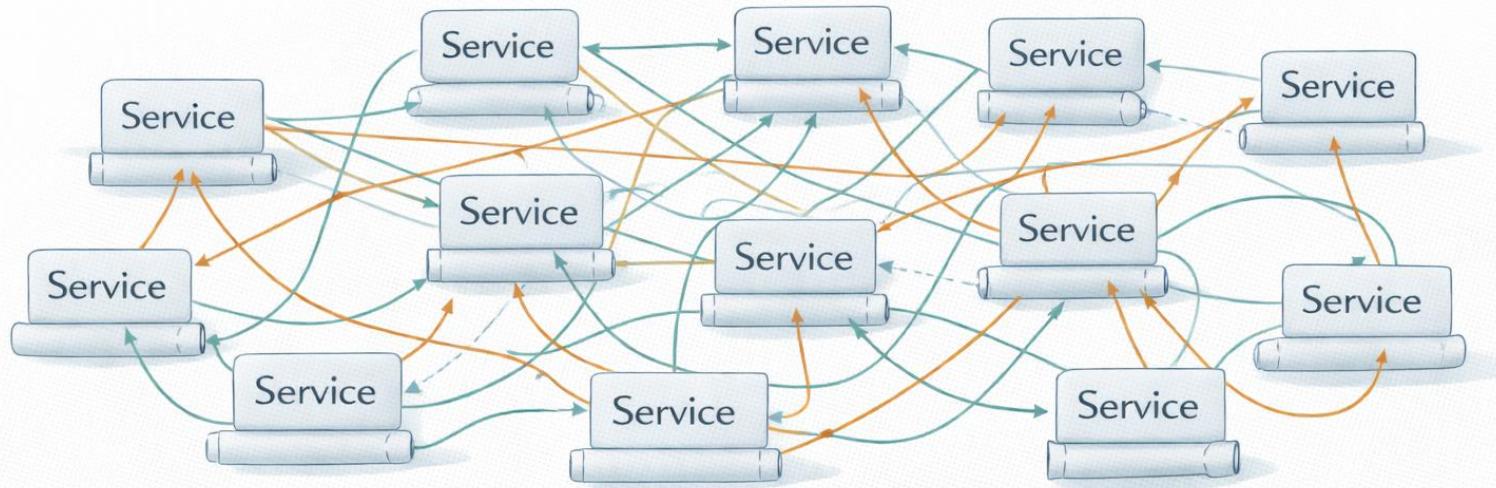
A sane default reference stack.



Decision Area: Scaling smarter.



Scaling smarter, not bigger

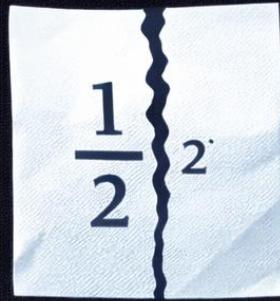


We broke it into 20 services and got slower.

The anti-pattern: scaling by decomposition



2 AM Test

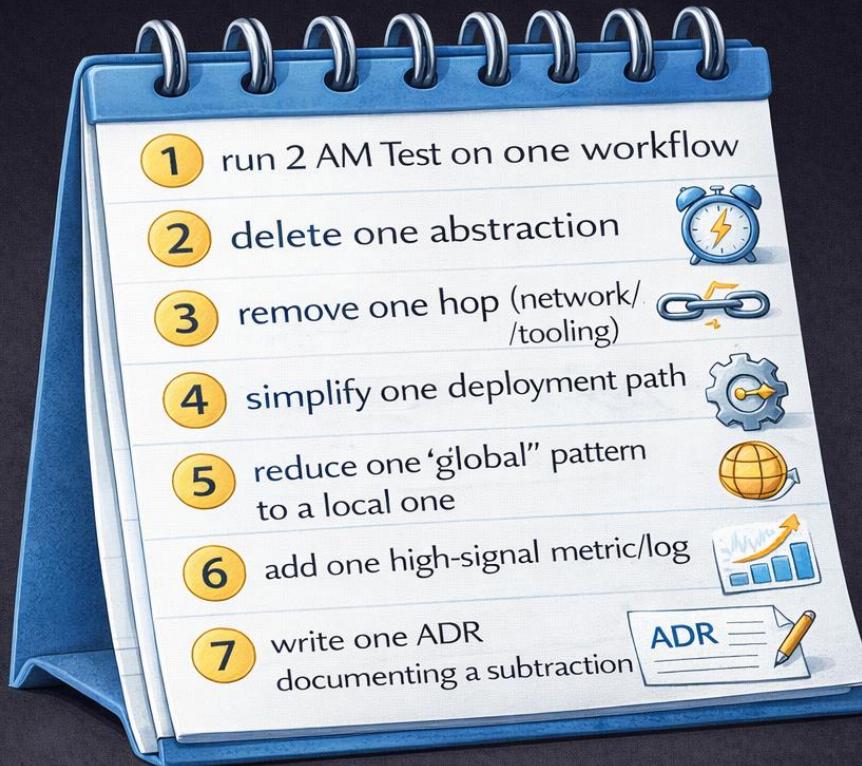


Half-Rule



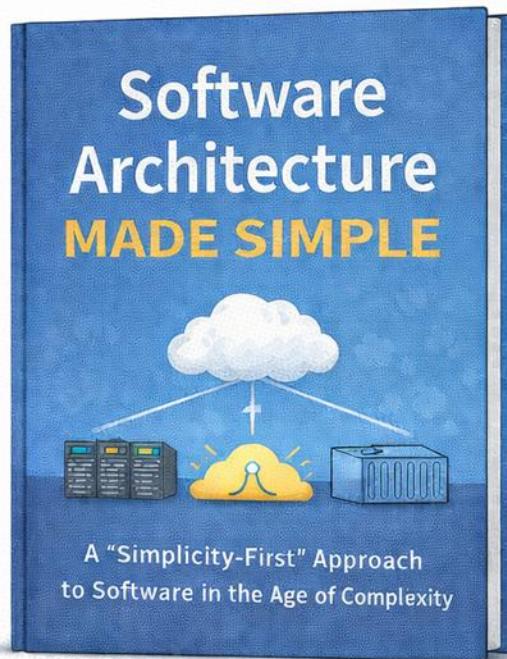
Primary Path First

## The Simplicity Code



A 7-day architecture reset.

# Coming Fall 2026!



# How do software developers say thank you?

With a heartfelt commit.

```
# Thank you!  
› git commit
```

❤ [main ba5e704] Thank you so  
much for attending!

1 file changed, 2 insertions(+)

