

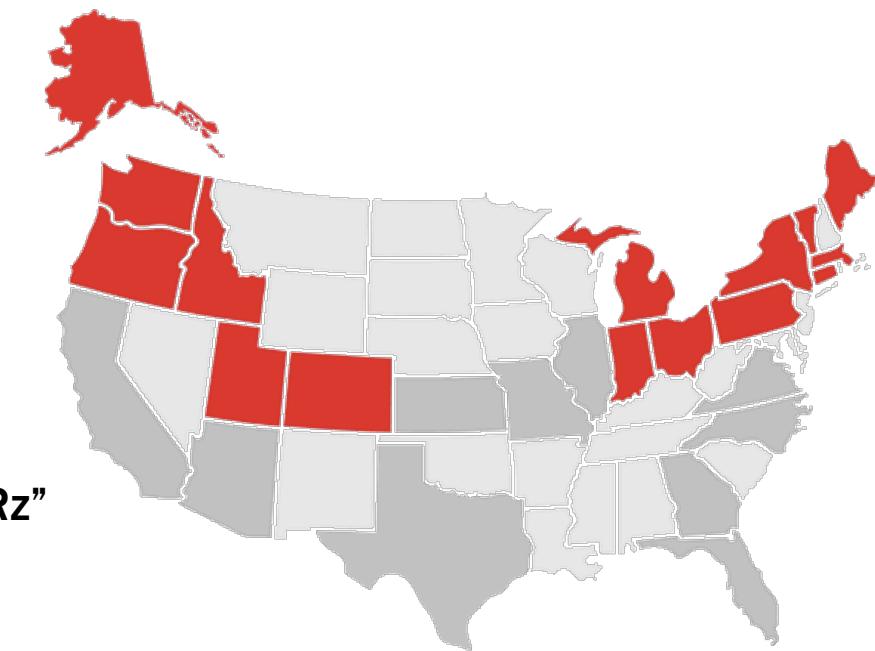


KeyOps... an Ops Story

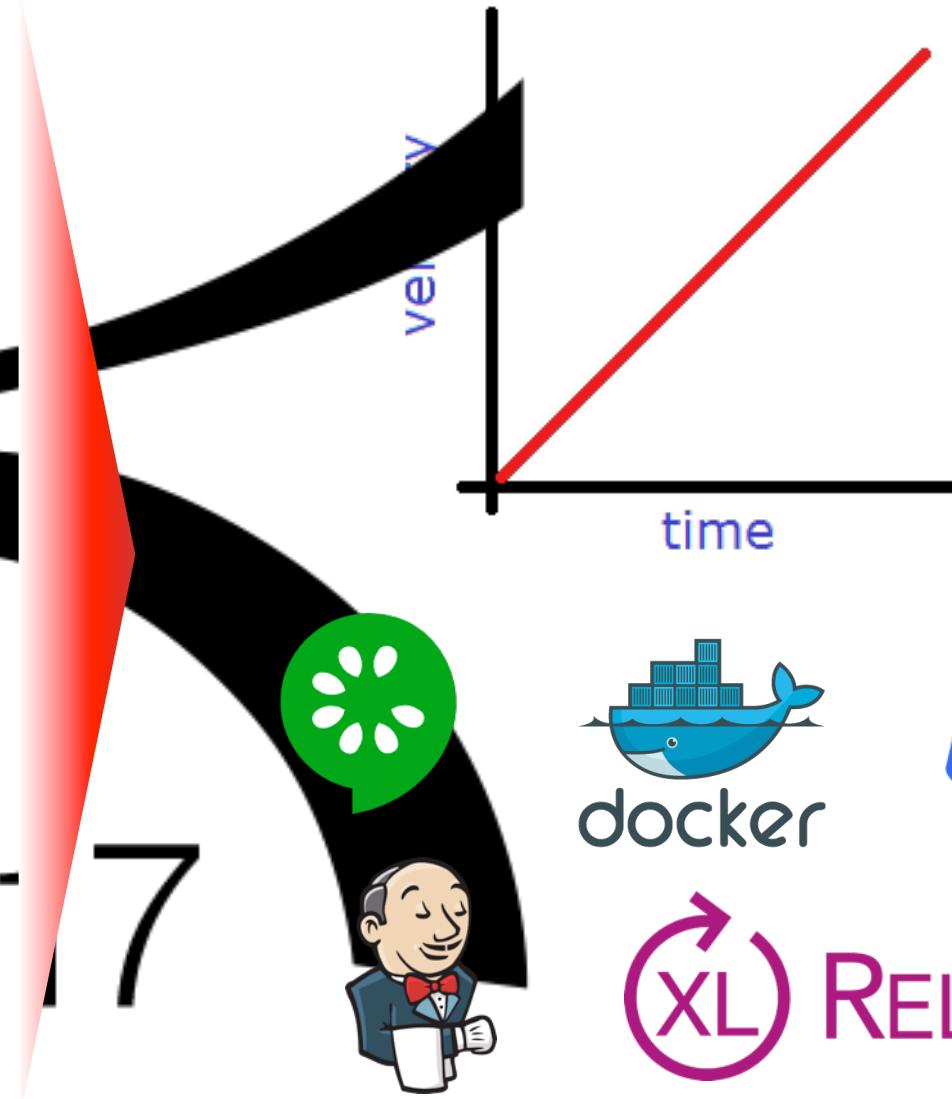




John Rzeszotarski "Rz"
@rzesz



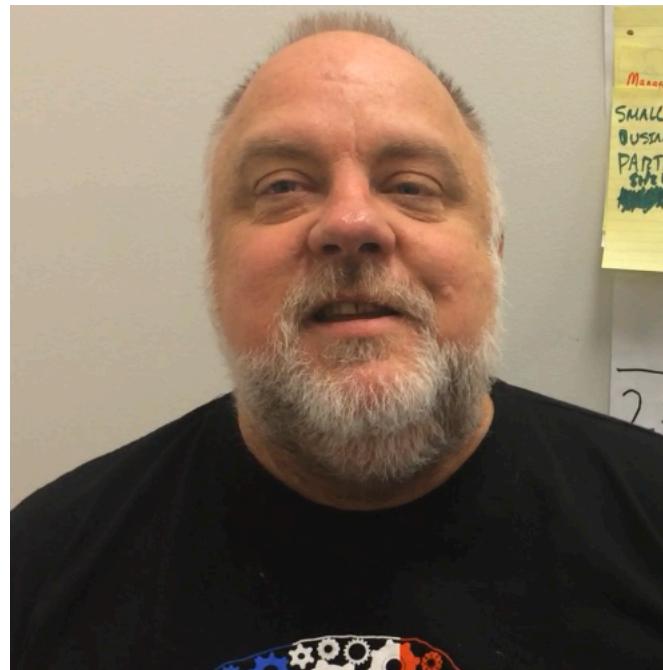
From Four Releases per Year To Weekly



DevOps for Operations-as-Usual (OAU)

John Willis

*Breaking Bad
Equilibrium*

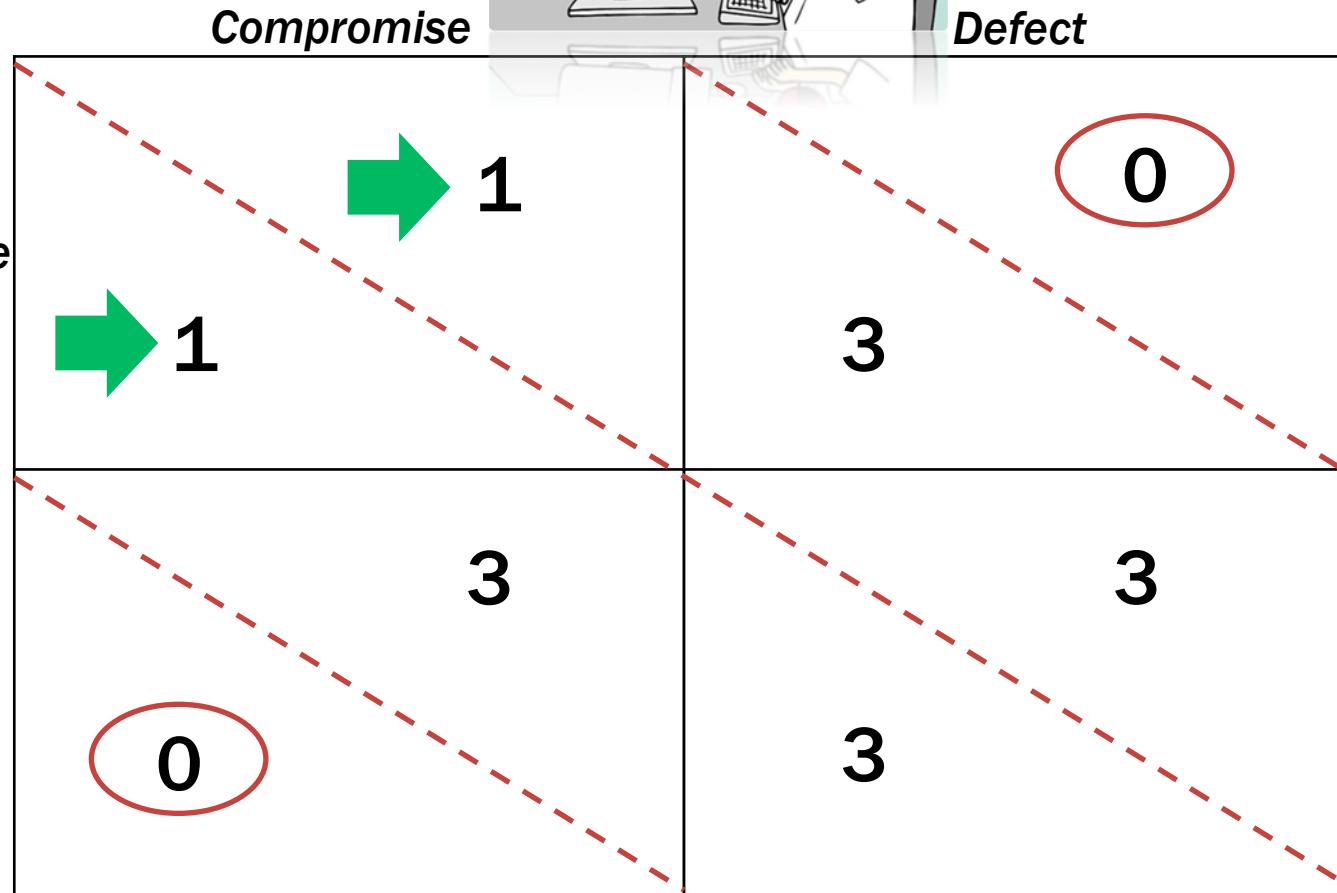
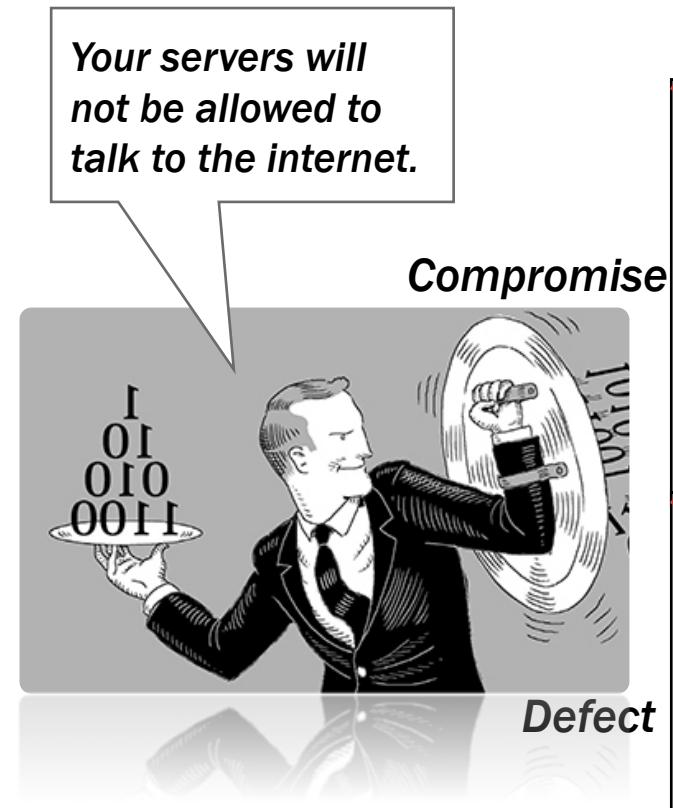


Andrew Clay Schafer

There is no Talent Shortage



Prisoners Dilemma



Changing the Game



Coming Up With The Secret Sauce

You can have
unlimited budget and
unlimited time for your
DevOps Proposal
and if you believe me
we have big problems.



Our Known Constraints in Tech Ops



Cost



OpenSource



Complexity



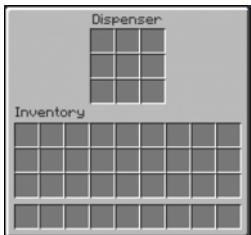
Automate



Legacy



Defend



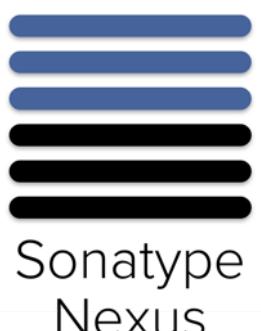
Capacity



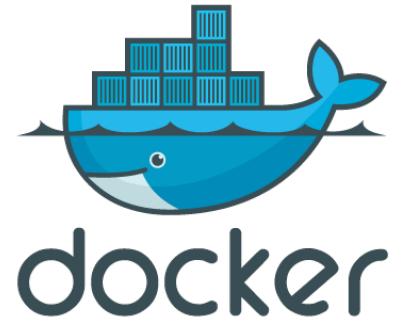
Continuous Learning



OpenSource Adoption



Ruby

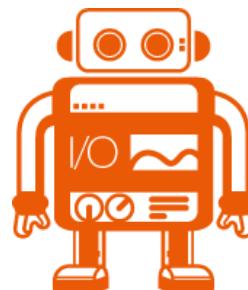


logstash

kibana

elasticsearch

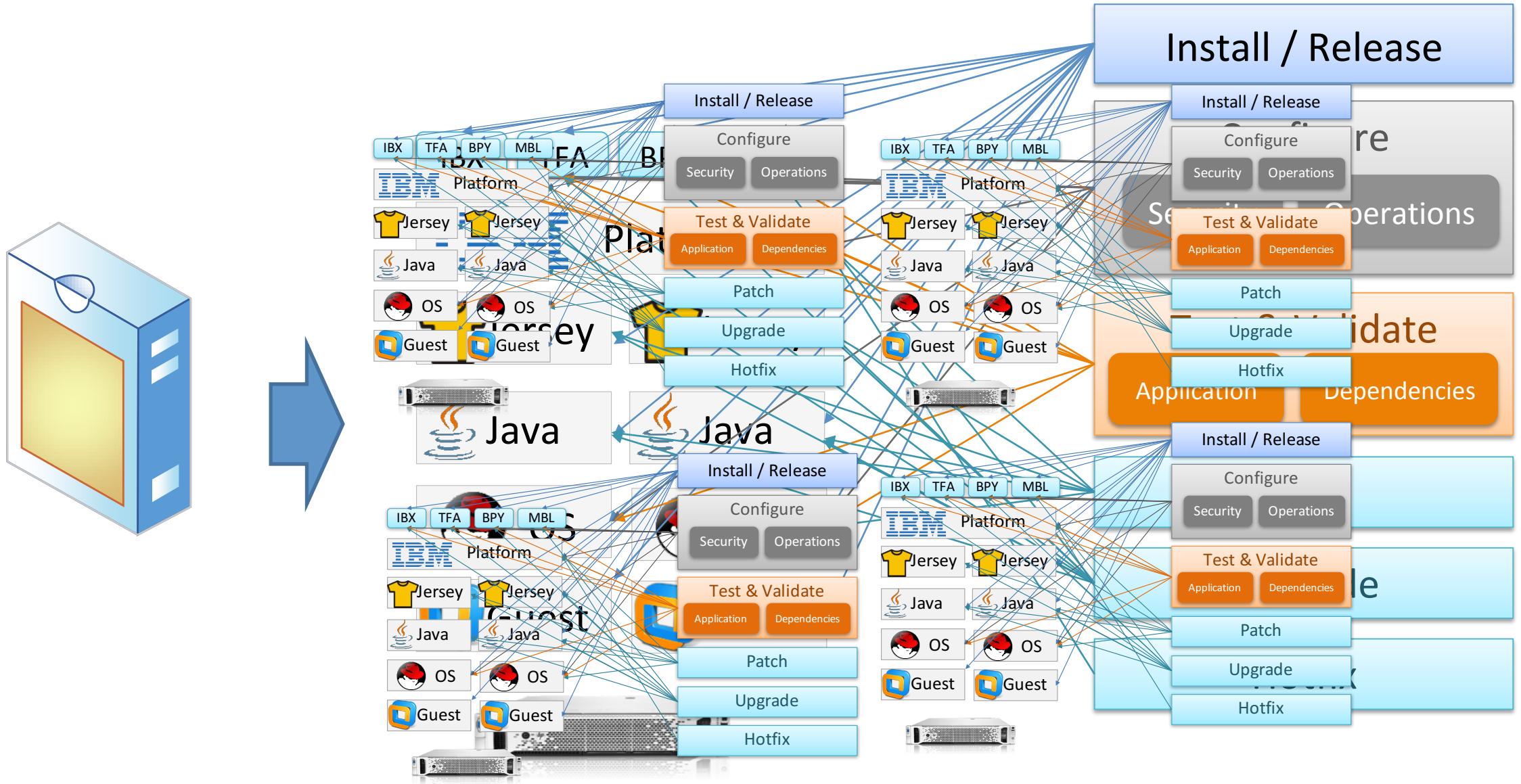
beats



redis

NGINX

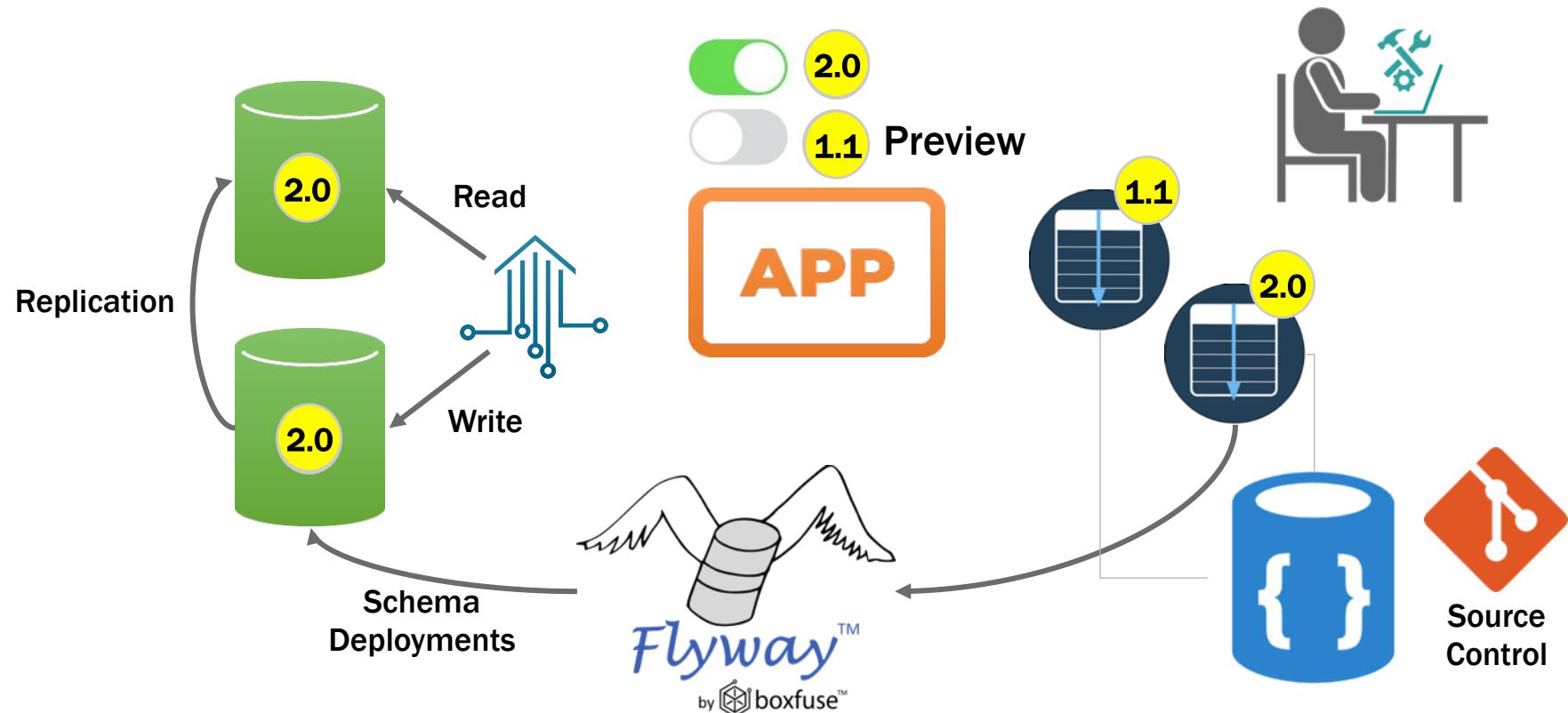
Containergeddon



Do you know how fast I could have done this?



Automating the Release



Feature Toggling

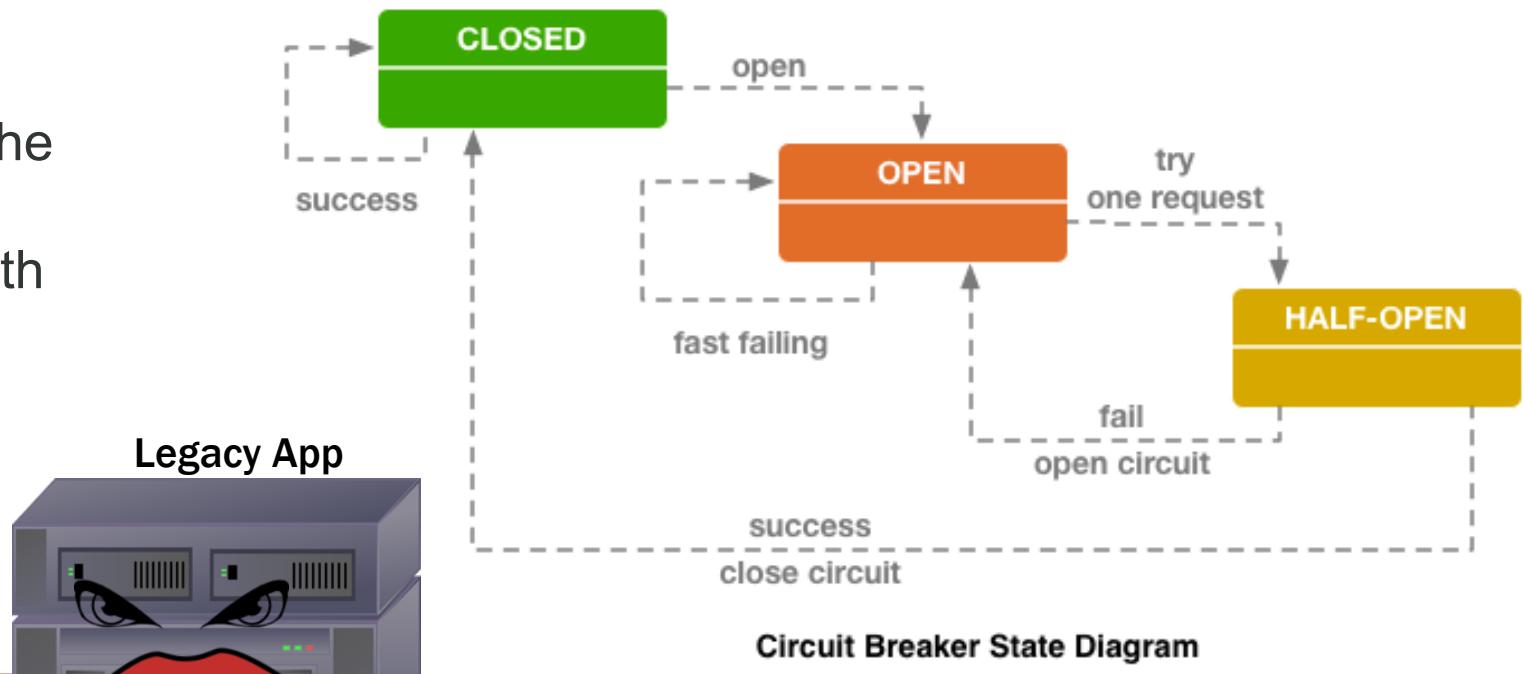
Evolutionary DB Design

Versioning

- Small Releases
- Every Dev has own DB
- Test Automation is Required

RELIABILITY - Circuit Breaker Pattern

The **Circuit Breaker Pattern** is an approach to protect a function by monitoring for failures. Once the failures reach a certain threshold, the circuit breaker trips, and all further calls to the circuit breaker return with an error, without the protected call being made at all.



Strip Away The Legacy

1. Systems are more complex than you think.

2. Systems Over-Flow with Risk

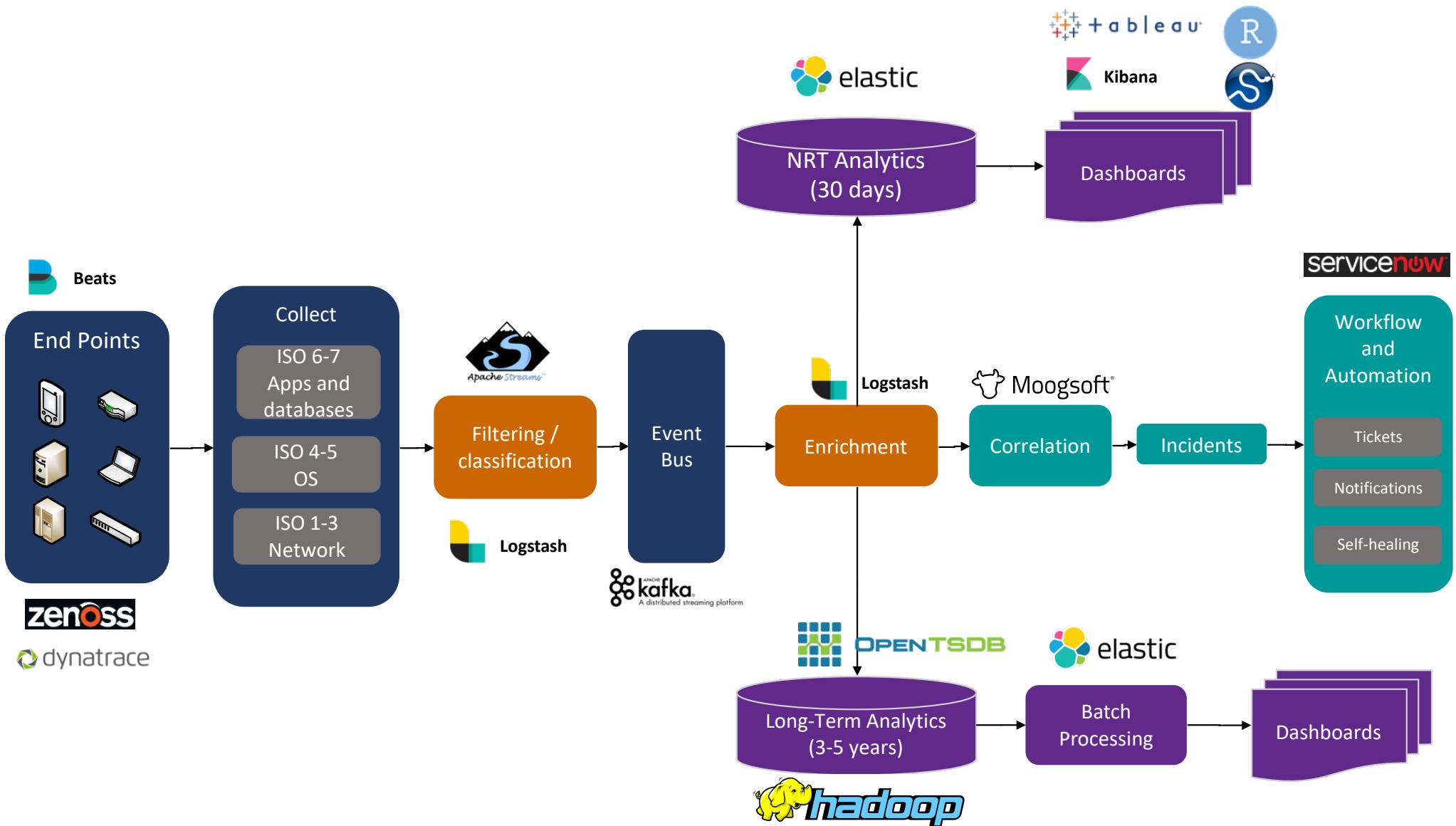
3. New Features are always Added

Strangler Application

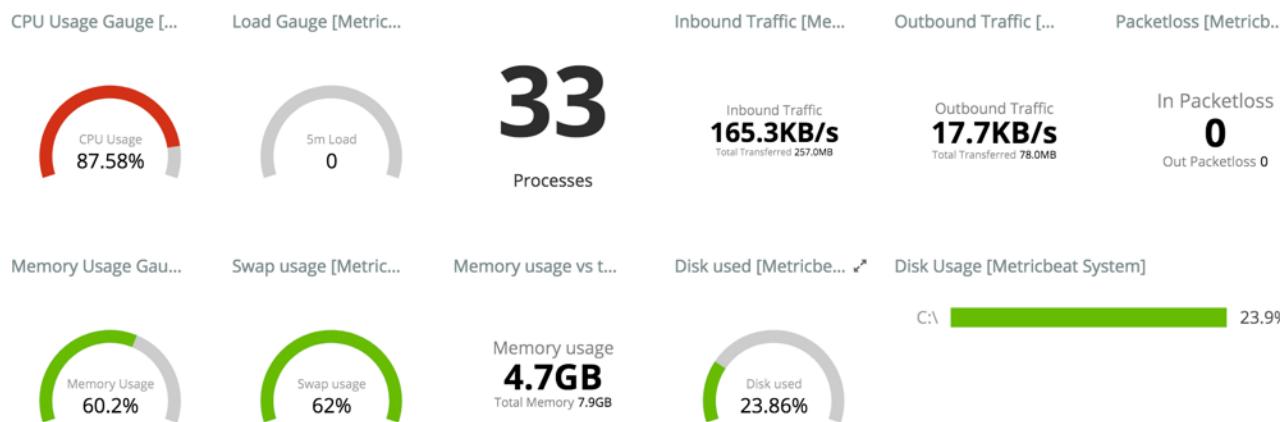
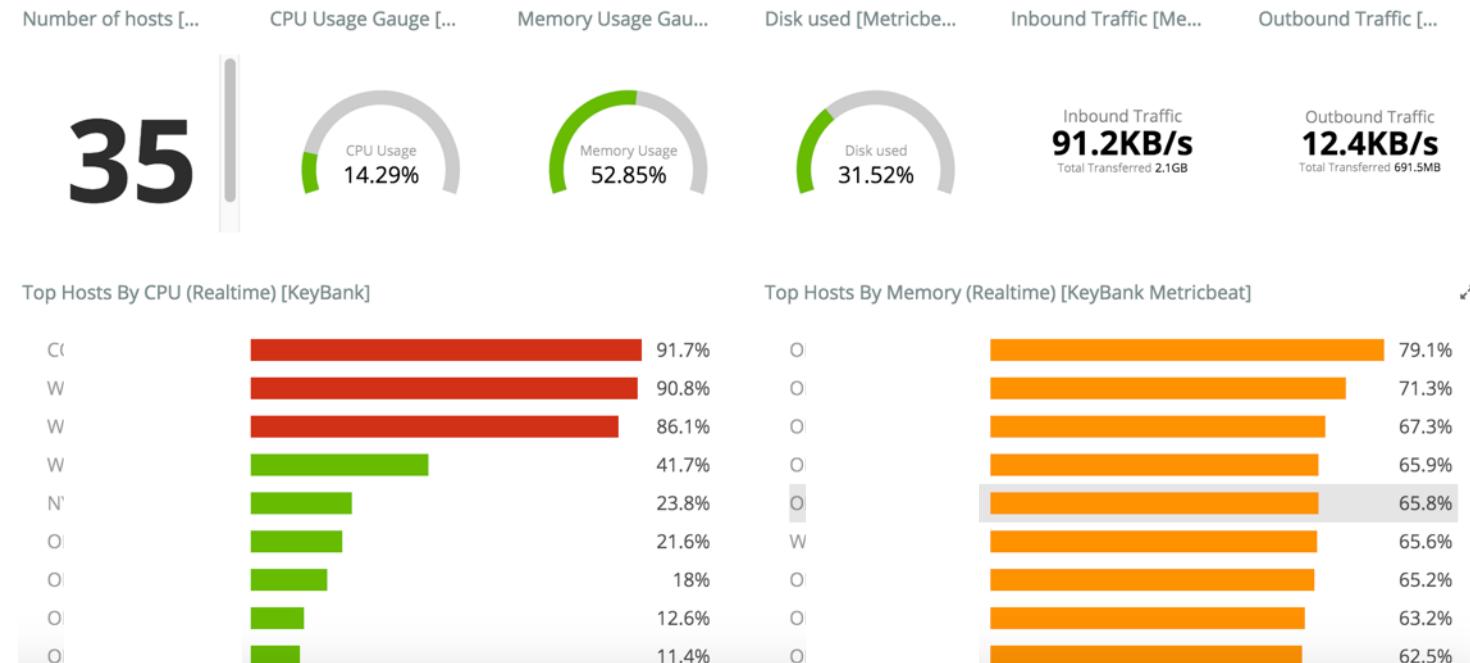
“...gradually create a new system around the edges of the old, letting it grow slowly over several years until the old system is strangled.” – Martin Fowler



Feedback Data Model



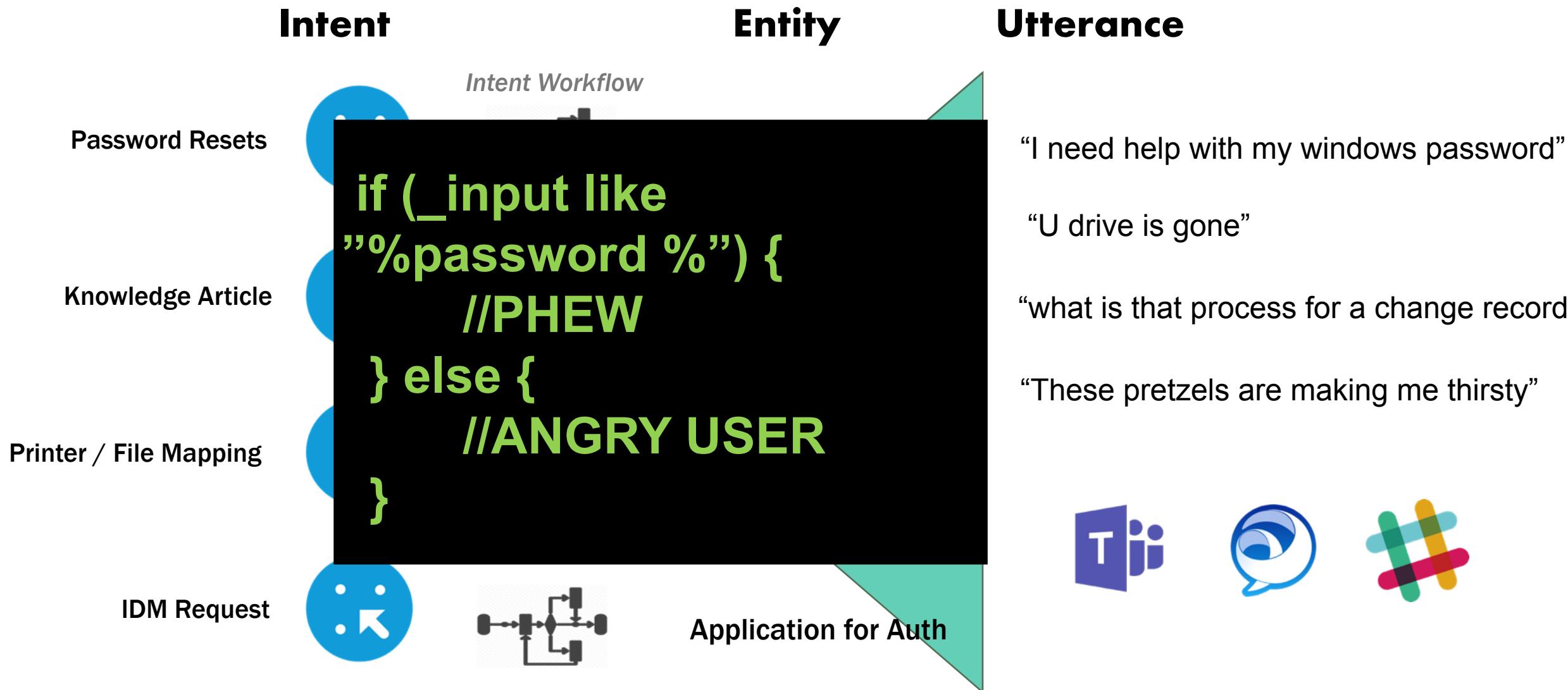
RELIABILITY - Feedback Data Model



- **1,100+** Full Service Branches
- **1,500+** ATM's
- **5000+** Teller Machines

Chat Bots & Artificial Intelligence

kit bot of the future



The Structure of Scientific Revolutions

“Because he there joins men who learned the basis of their field from the same concrete models, his subsequent practice will seldom evoke overt disagreement over fundamentals.”

-Thomas Kuhn



Future Ready

What does it mean to “Us Humans”?

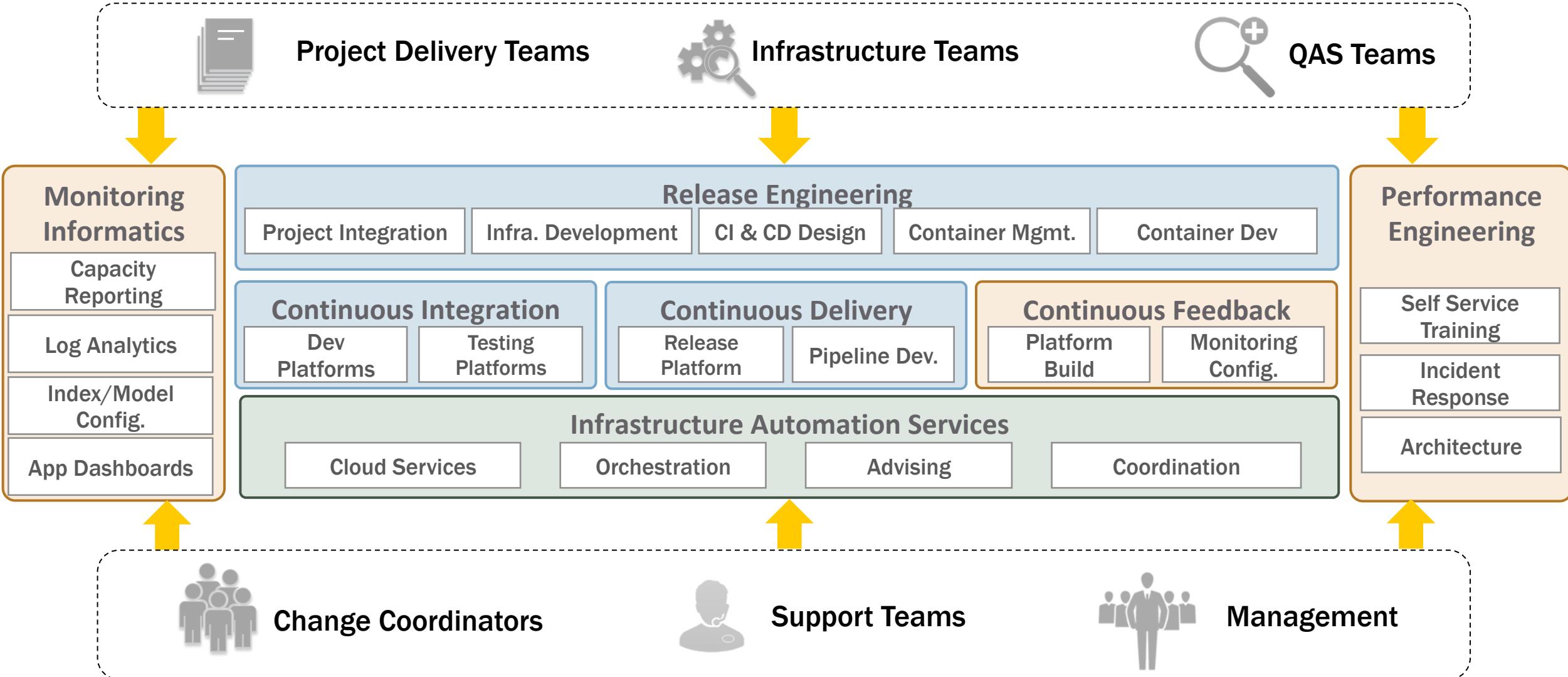
Essential skills in the new world of work

A workforce augmented with automation and intelligent machines need to evolve and develop essential capabilities that will enable them to deliver higher-value work and thrive in the age of accelerations.

- Logical Reasoning
- Critical Thinking
- Complex Problem Solving and Problem Framing
- Strategic Acumen
- Creativity
- Coordinating and Collaborating with Others
- Visualization
- Service / Customer Orientation
- Agile Learning
- Training and Teaching Others
- Micro-Learning
- Systems Thinking and Analysis
- Re-Learning
- Judgment and Decision-Making



Release & Automation Engagement Model



What Help Do I Need?

- A lot...
- Anything others are doing to help enterprises move fast and effective.

Cloud

- Cloud Adoption Guidance -> (Direct Bill to LOB, Charge Back, etc...)
- Justifying Cloud Services on Depreciated Infrastructure
- Cloud Maintenance (Patching, Upgrading, etc...)