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# Breaking all the DevOps rules



Mirco Hering | @mircohering

  
accenture

# This is the hard reality in many large enterprises



A few years ago, I would have been disappointed with the following statements:

- Our team does not fail pipelines with failed tests.
- Our team does deploy code that has failed security scans.
- Our team chooses manual cloud deployments over automation.
- Our team moves from full stack to a federated model.

# Hello, my name is Mirco Hering



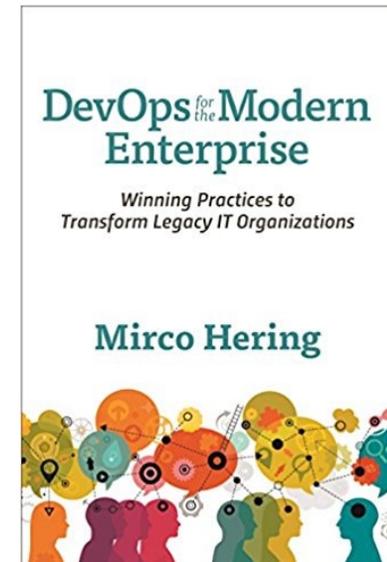
Mirco Hering  
Global DevOps Lead

And I sometimes break rules...



Blog at <http://notafactoryanymore.com>

...consciously.



# The environment we're talking about is that of larger complex enterprises

The transformation starting point is along the following lines:



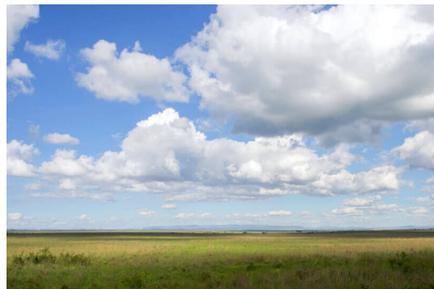
Portfolio



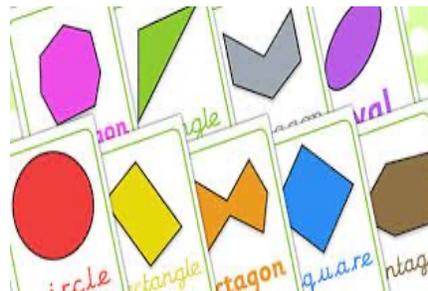
Complex contract



Lack of documentation



Infrastructure



Custom, COTS, SAAS



BAs, testers, engineers, etc.

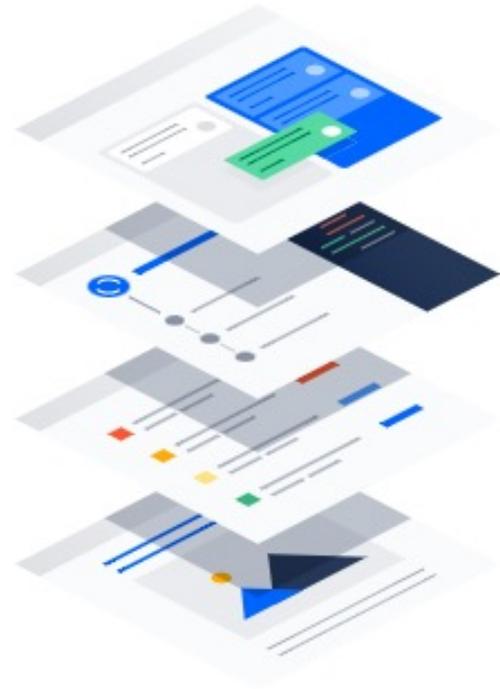
# The Atlassian landscape we work with

 Jira Software

 Bitbucket

 Opsgenie

 Confluence



# Our ground to cover

1. CD pipelines

2. Full stack teams

3. The cloud

→ And of course, some take-home tips!

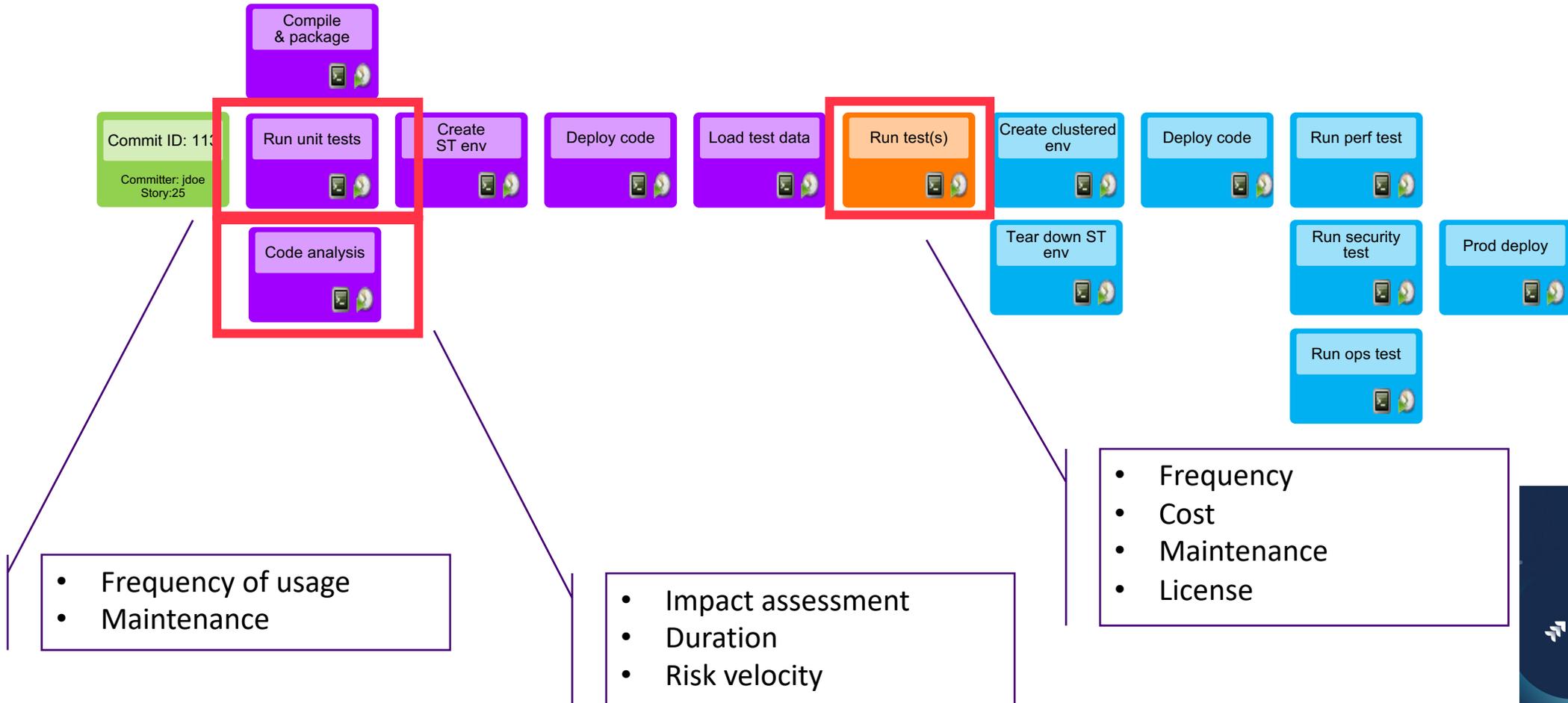


# Pipelines — good intentions

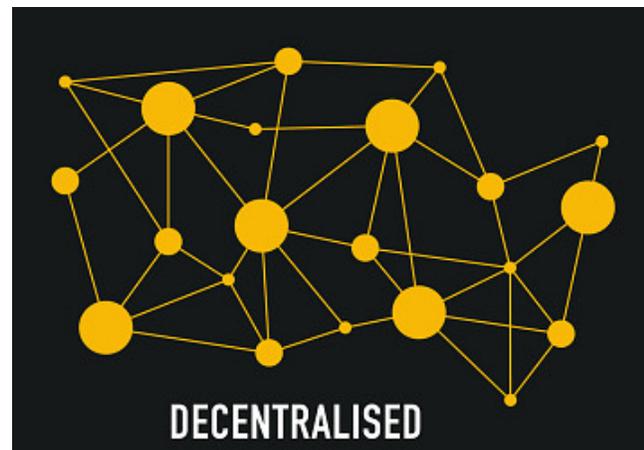
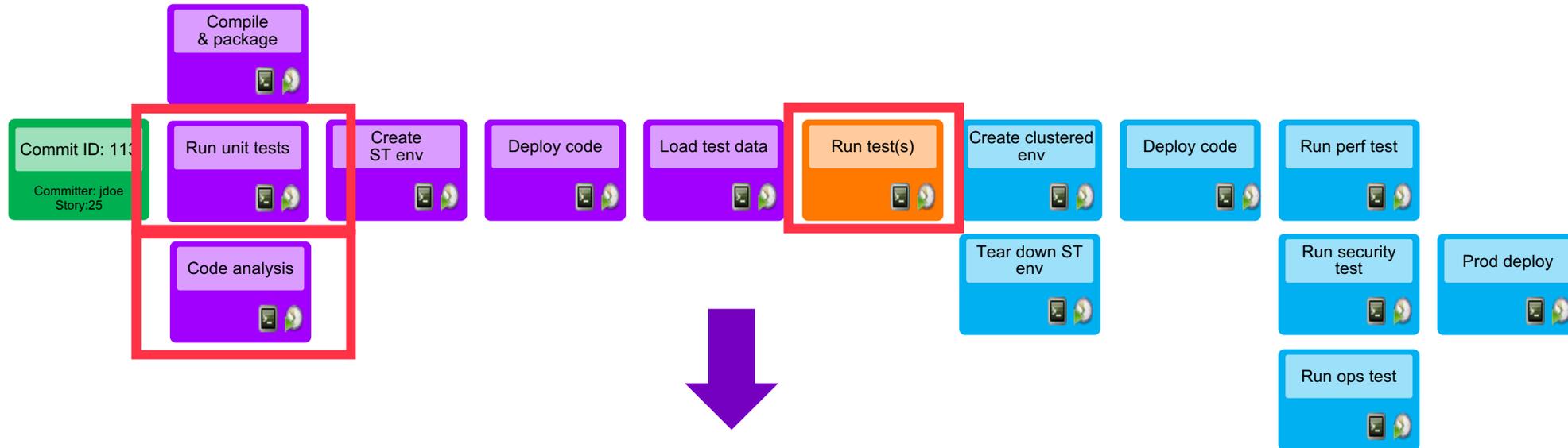
“The goal of CD pipelines is to build/deploy/assess each new version of an application and provide fast, comprehensive feedback.”



# Pipelines — from pipelines to networks



# Pipelines — from pipelines to networks

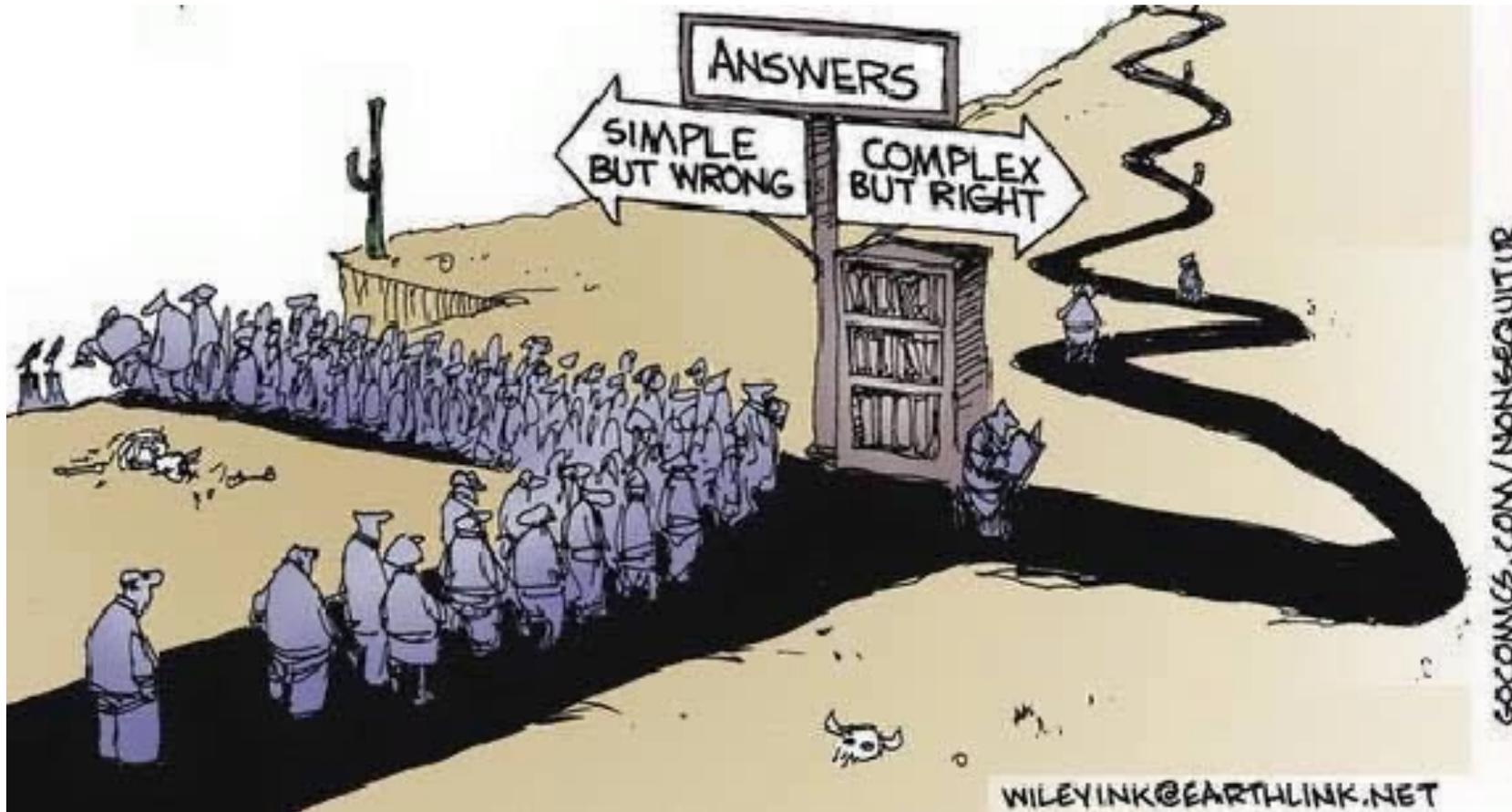


# Full stack teams — good intentions

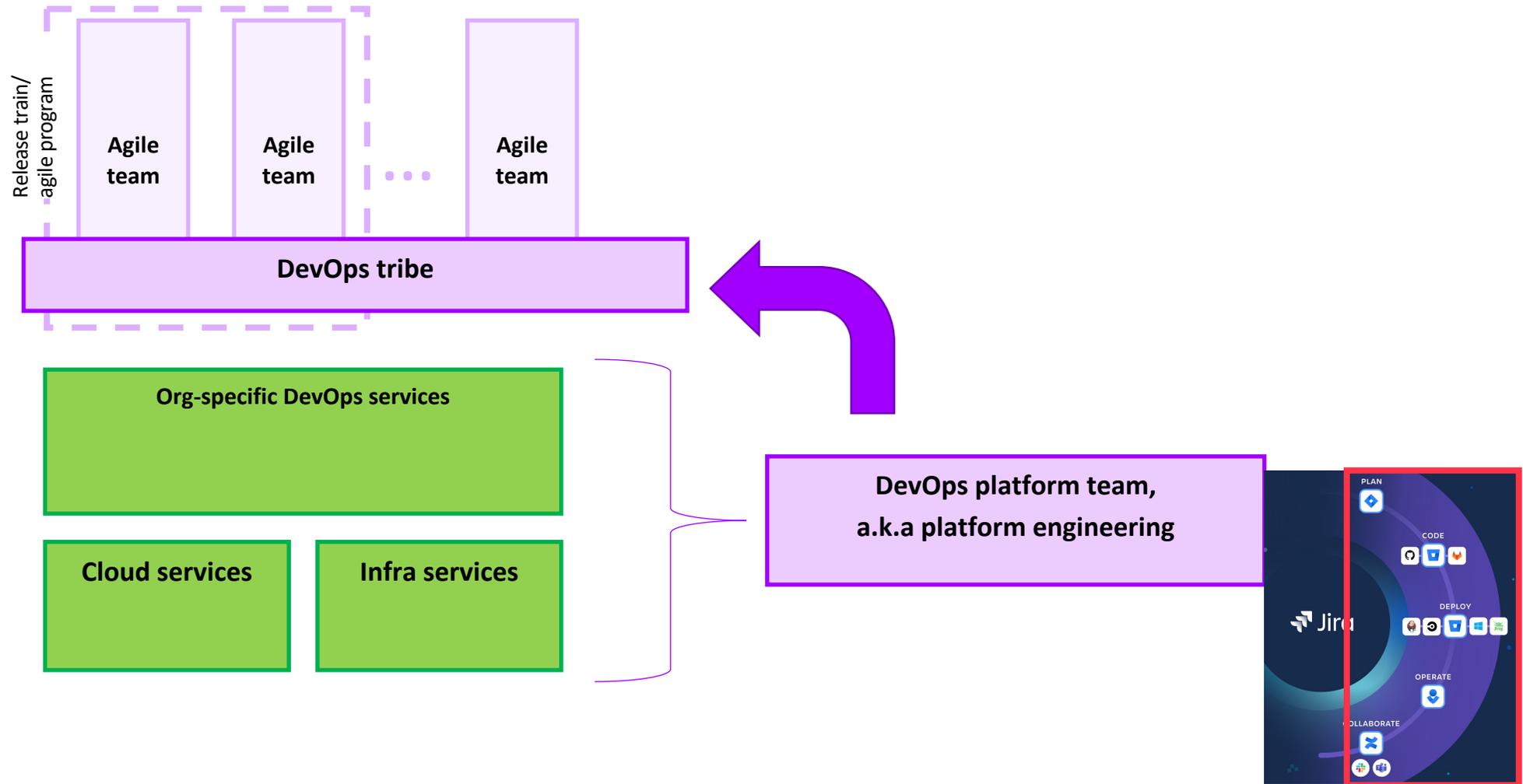
“The most efficient way for DevOps to organize is in a full stack team that includes people from the infrastructure team.”



# Hmm...



# To DevOps team or not to DevOps team?



# Creating autonomous teams instead of full stack teams

1. Make information available (e.g., log aggregation)
2. Provide self-service for the obvious (passwords, servers, etc.)
3. Measure dependencies and eradicate them



# Question: Is the team ready for full autonomy?

Hmm...



# Cloud — good intentions

“Environments in the cloud are full automated,  
and nothing should be manual.”

**and...**

“In the cloud, servers are immutable.”



# Cloud — the better way

1

**Experiment**

2

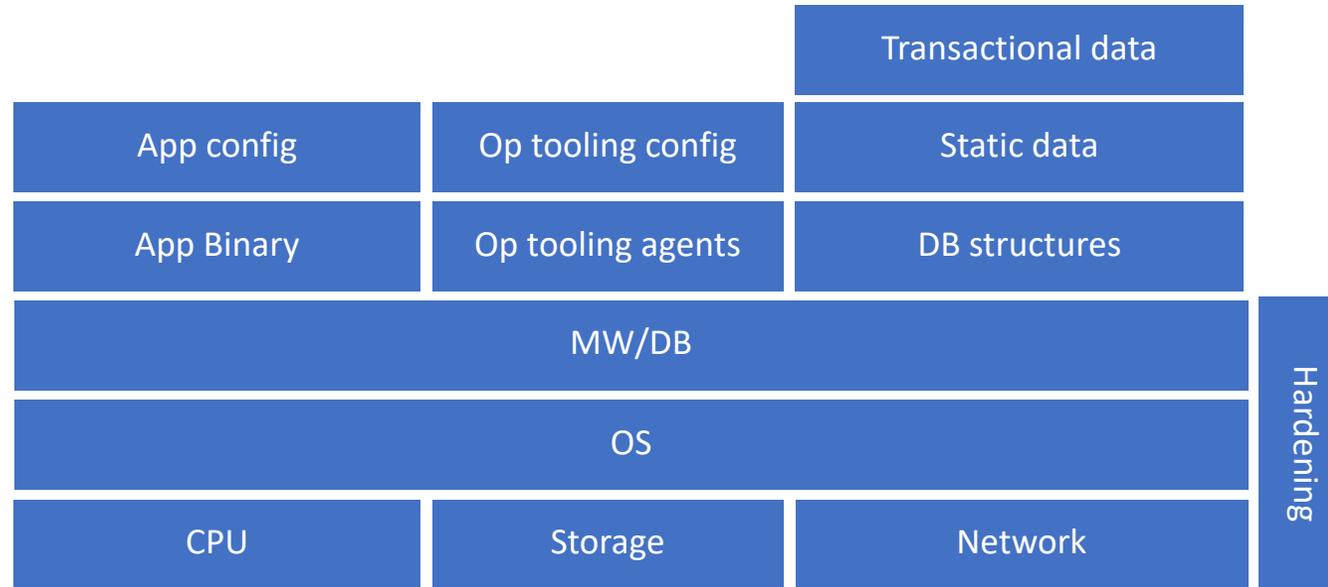
**Describe**

3

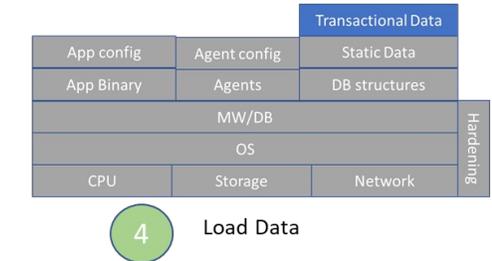
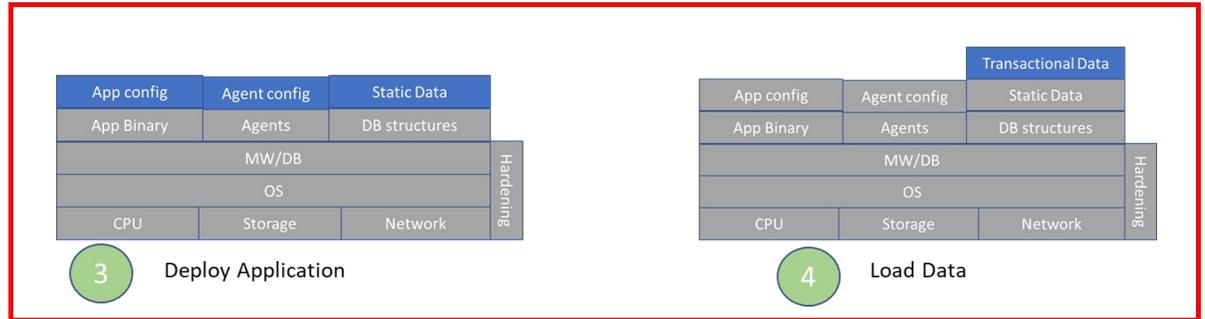
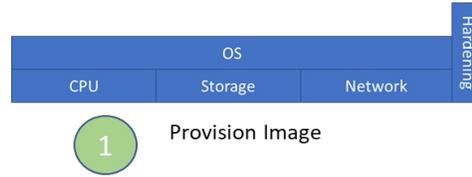
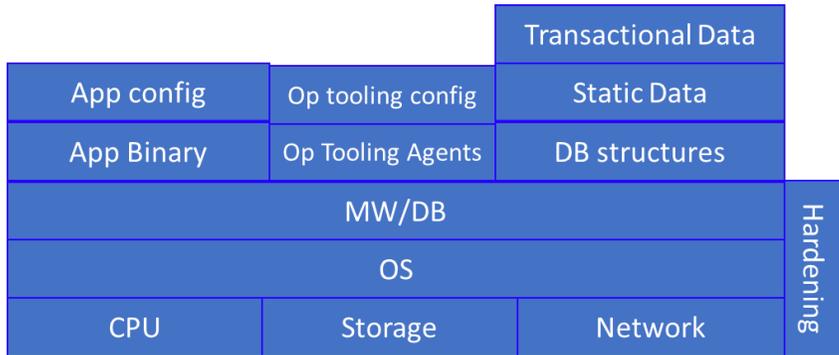
**Automate**



# Cloud golden image vs. automation in layers



# Cloud golden image vs. automation in layers





# Rule 1: Make economic decisions



# Rule 2: Measure things

**Business effectiveness**  
**Experiment & expand**

**Delivery efficiency**  
**Speed up & automate**

**Operations reliability**  
**Automate & react**

**Architectural flexibility**  
**Simplify & decouple**



# Rule 2: Measure things

## Business effectiveness | Experiment & expand

- Number of experiments run
- Average time to decision
- Funnel data
- Number of systems interactions
- Feature usage

## Delivery efficiency | Speed up & automate

- Cycle time
- Number of manual steps
- Number of deployment failures
- Time to feedback
- Transaction cost

## Operations reliability | Automate & react

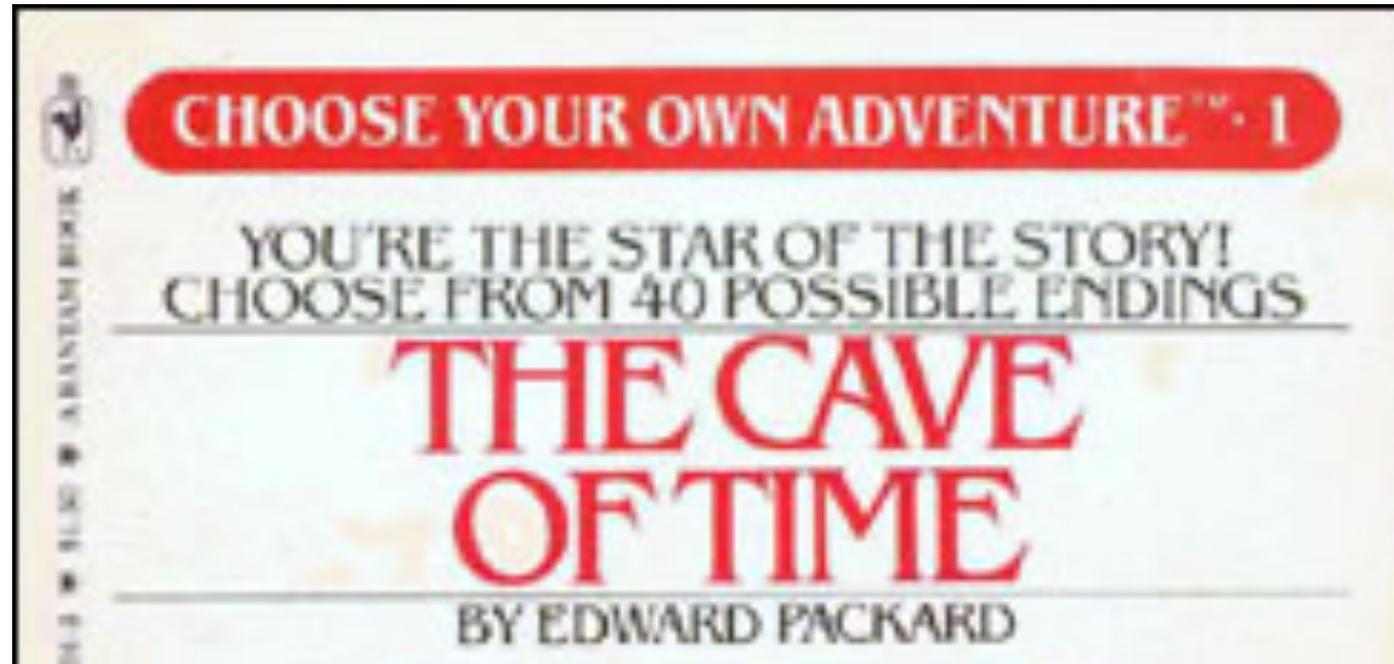
- Mean time to recover
- Number of automated tickets
- Percentage of services automated
- Number of defects
- Percentage of proactive found vs. user found
- Cloud usage

## Architectural flexibility | Simplify & decouple

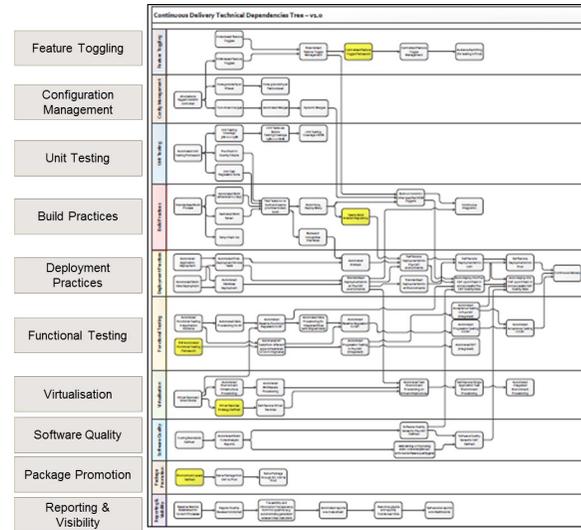
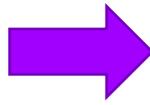
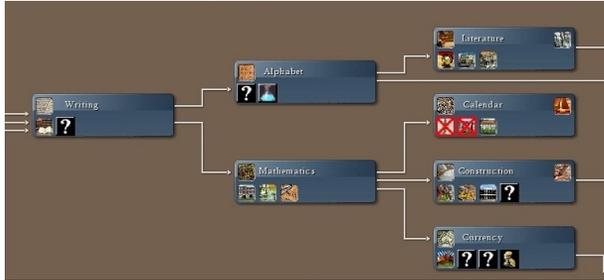
- Percentage of transactions in old vs. new
- Average size of release
- Percentage of interfaces that are backward compatible
- Number of outdated components
- Number of security concerns
- Technical debt



# Rule 3: Provide options



# Rule 3: Provide guidance

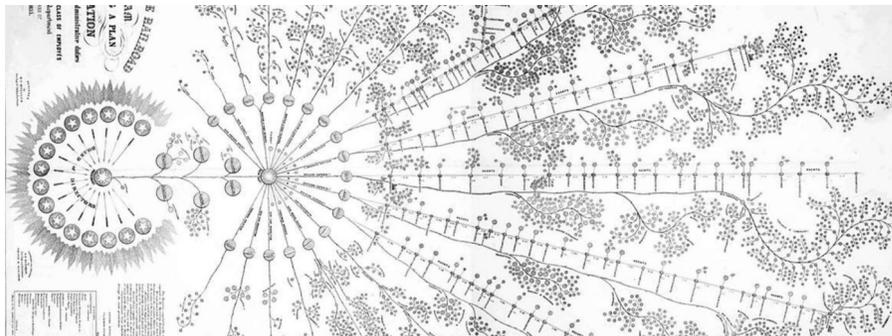
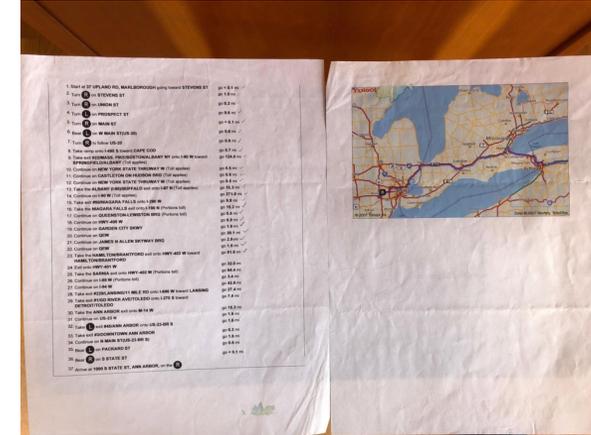
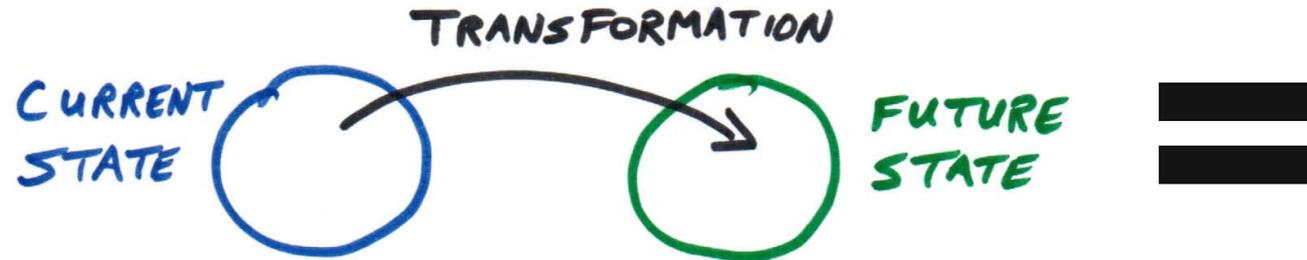


## Enterprise DevOps Bingo Card

Governance	One Team	Test Automation & Coverage	Dev/Build Automation	Agile Delivery	Continuous Delivery	Lean Ops
Metrics ✓	Feature Teams ✓	Agile Test Strategy	CD pipeline ✓	Scrum Master ✓	Continuous Integration	Functional Monitoring
Dashboard	Owns Inception to Retirement	Unit Test Automation	DevSecOps	Agile Coach	Continuous Testing	Ticket Automation
Meeting Structure ✓	Success measured on App Fitness	End To End Test Auto. & coverage	Build/Deployment Automation	Backlog Health ✓	Continuous Deployment	App Insights and Ops Insights ✓
Contracting Approach ✓	Testing within Team ✓	Regression Test Automation	Infra as Code	BizDevOps ✓	End to End Release Automation	Fail Forward Deployments
Epic Management				Agile Documentation		Ops concerns in Scrum



# Summary: Provide the teams with a compass, not a map



# One step at a time... one conscious step at a time



**Thank you**

