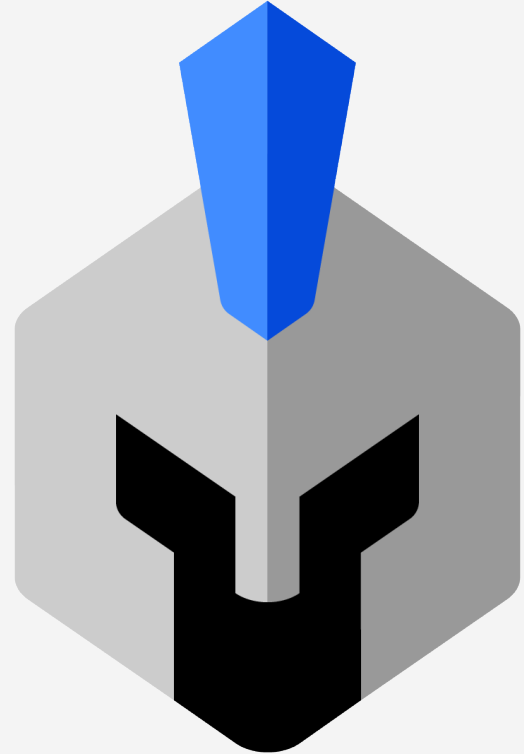


Our journey towards progressive delivery

Michael McKay

IBM Kubernetes Service



Who am I?

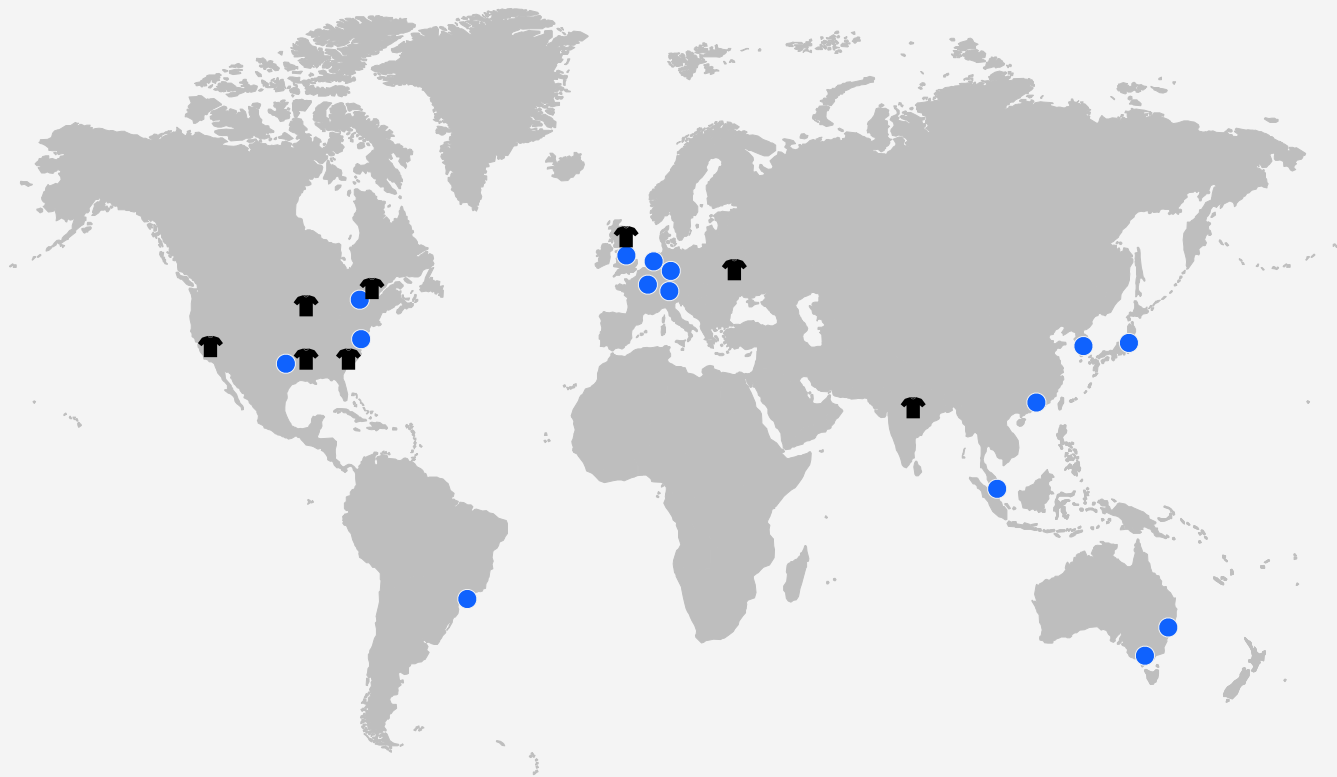
- Been with IBM for **24** years
- Started managing IBM internal SAP deployments - **5** years
- Product development, IBM Tivoli - **12** years
- Cloud Development – **7** years
- **4** kids and **3** cats



IBM Kubernetes Service

Currently in **6** regions
and **35** data centers

Development teams
spread across the
globe



**How did
we get
here?**

4 years ago

We were a pretty small team with no idea what was to come

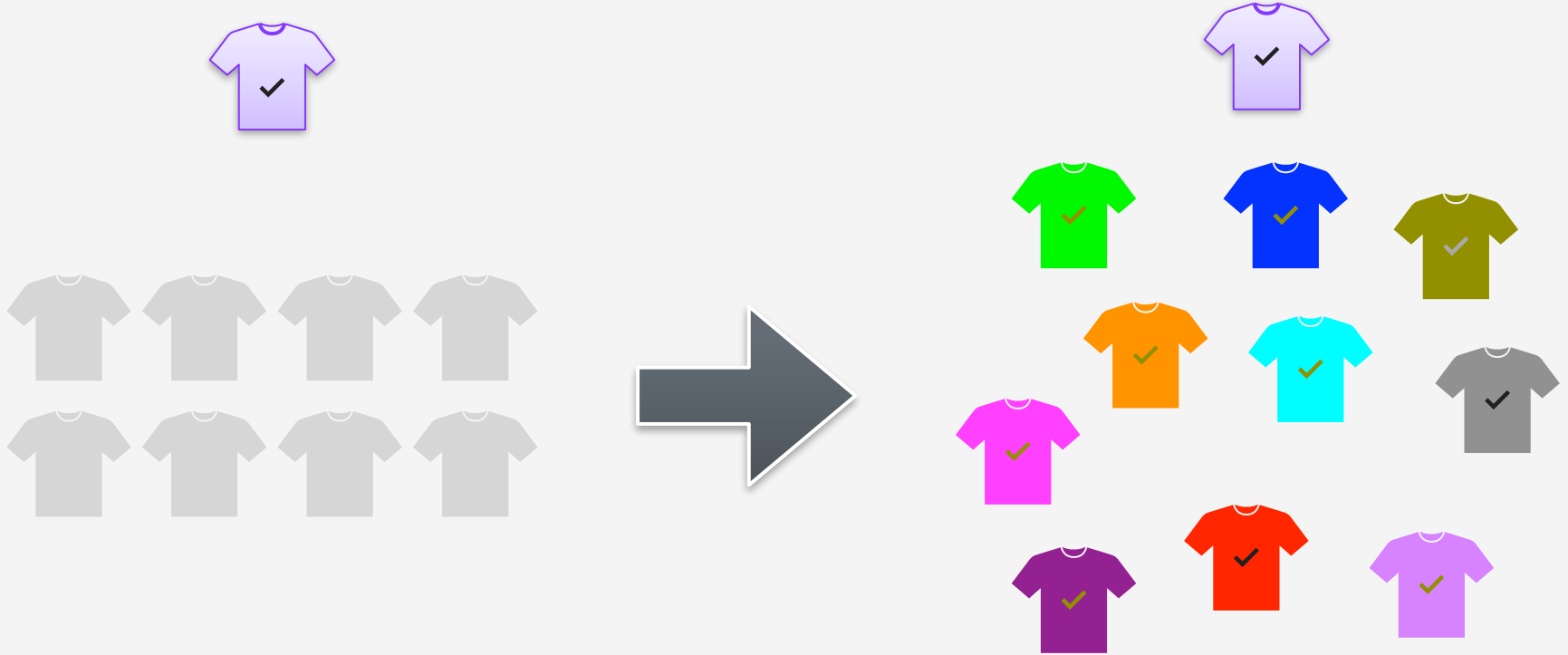
Code deployments =
Feature deployments

Acted like we were
building a product



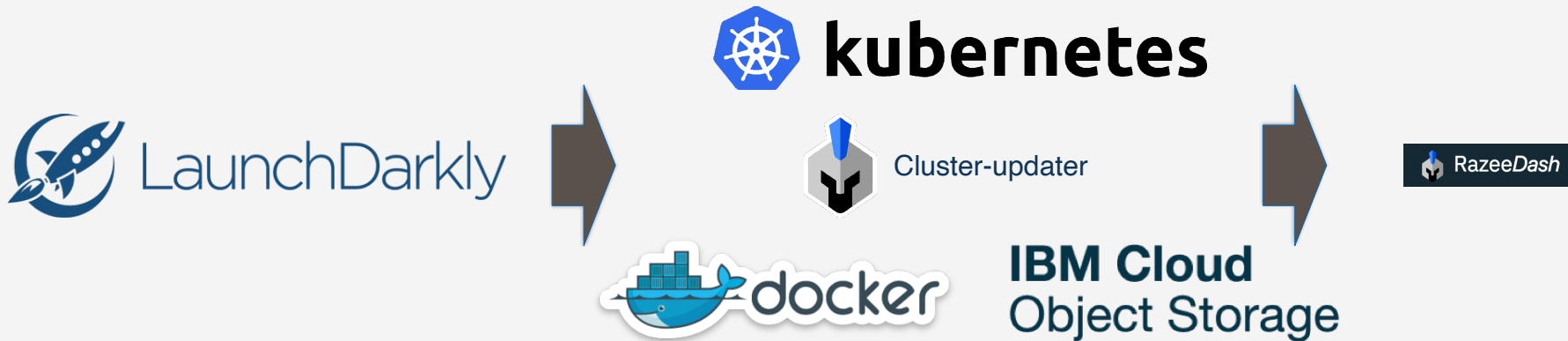
Phase 1

Democratize **DevOps**



Phase 2

Rethink **CI/CD**



- Fast
- Scalable
- Reduce friction
- User involvement

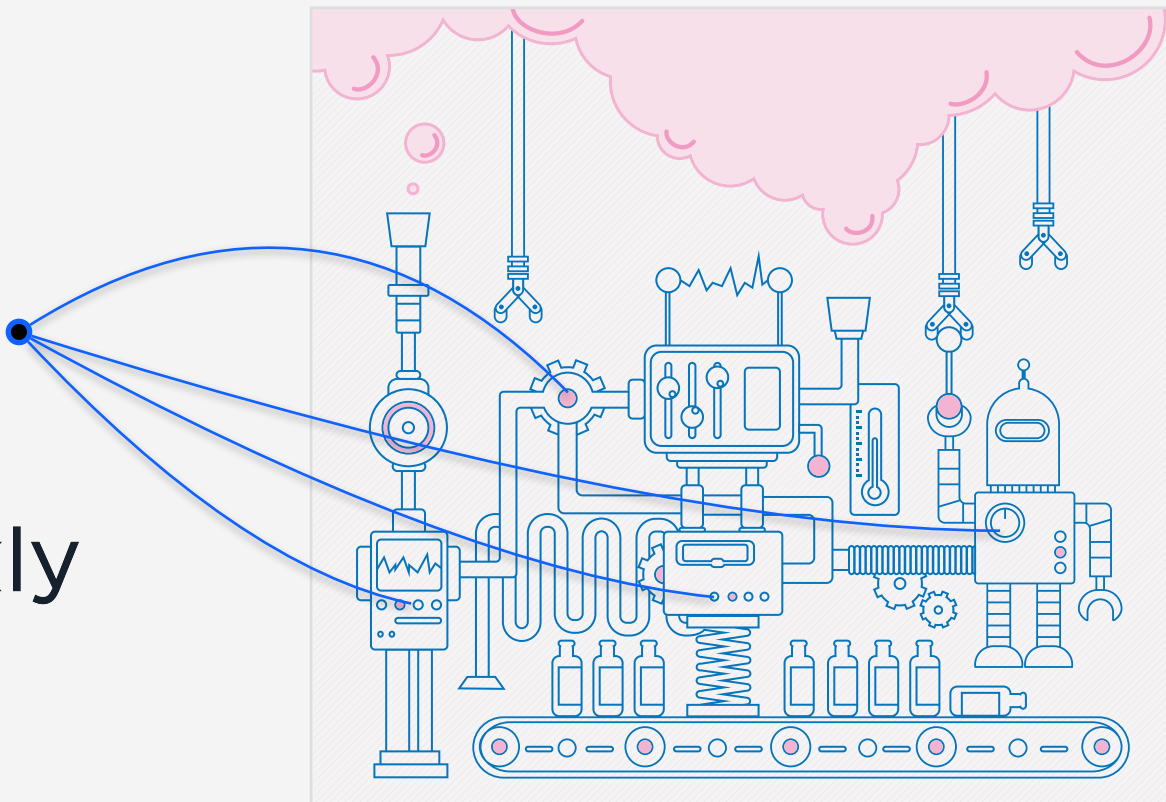
Pull-based deployments managed with **feature flags**

Phase 3

Various **operational controls** with Feature Flags



LaunchDarkly



Phase 4

Change management

RazeeFlags

Michael S McKay

Serve: 3588-552a49e

If: cluster_type in "raze" Serve: 3588-552a49e Request change: Go back to normal use of Kubectl 1.19 (#453)

If: 3468-116e4d7 Serve: Auto-update package dependencies to the latest (#454)

If: 3418-206e486 Serve: (740:dev-mu11(shift-37) fix script path

If: 3413-950e808 Serve: 3117-1689b3f

If: region in "ap-north" Serve: 3117-1689b3f

If: region in "eu-central" Serve: 3117-1689b3f



Request deployment rule change

Create Train Request

Type: stage

Environment: stage-us-south

Squad: raze

Tests Uri: a

Risk: Low

Details: a

Backout Plan: a

Close Save changes

Deployment Request

ServiceNow ID: CHG0064820

Creator: Michael S. McKay

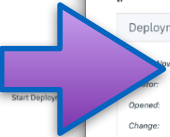
Opened: a few seconds ago

Change: 1593-ctf8ee00f3345dbb04f5d08454a05626f7c0ee

Progress: Waiting for approval

Cancel Request

Start Deployment



Deployment Request

ServiceNow ID: CHG0064820

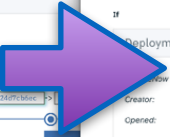
Creator: Michael S. McKay

Opened: a minute ago

Change: 1593-ctf8ee00f3345dbb04f5d08454a05626f7c0ee

Progress: Waiting for approval

Start Deployment



Deployment Request

ServiceNow ID: CHG0064820

Creator: Michael S. McKay

Opened: 2 minutes ago

Change: 1593-ctf8ee00f3345dbb04f5d08454a05626f7c0ee

Progress: Waiting for approval

Start Deployment

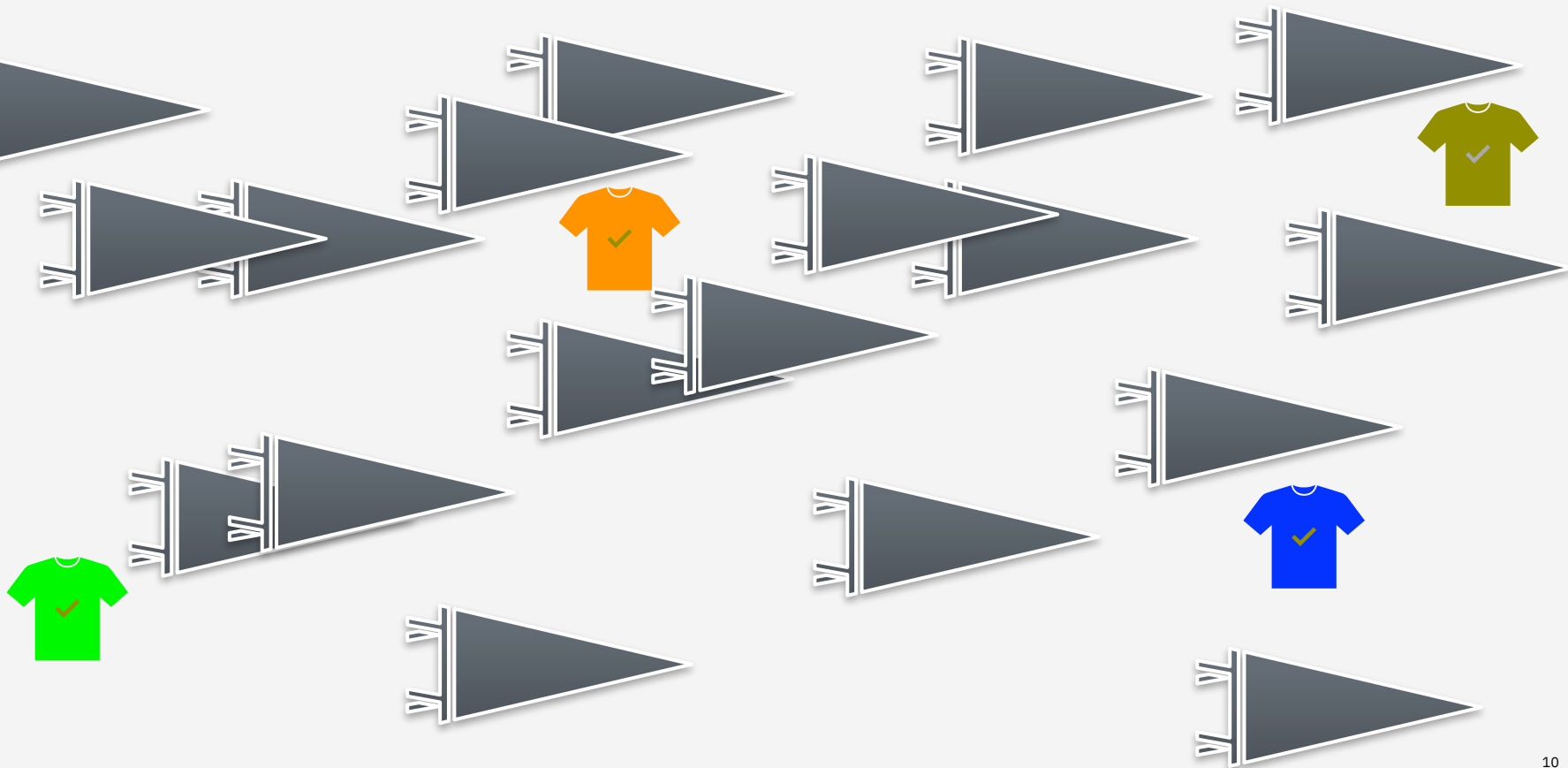
Complete Deployment

Succeeded

Failed

Phase 5

Feature Flags Act I



Phase 6

Feature Flags **done right**



Closing thoughts

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