

PROGRESSIVE DELIVERY IN KUBERNETES

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PROGRESSIVE DELIVERY



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Progressive Delivery, a History.... Condensed

By Adam Zimman - August 6, 2018

👁 4326



the developer-focused industry analyst firm

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JAMES GOVERNOR'S MONKCHIPS

Towards Progressive Delivery

By [James Governor](#) | [@monkchips](#) | August 6, 2018

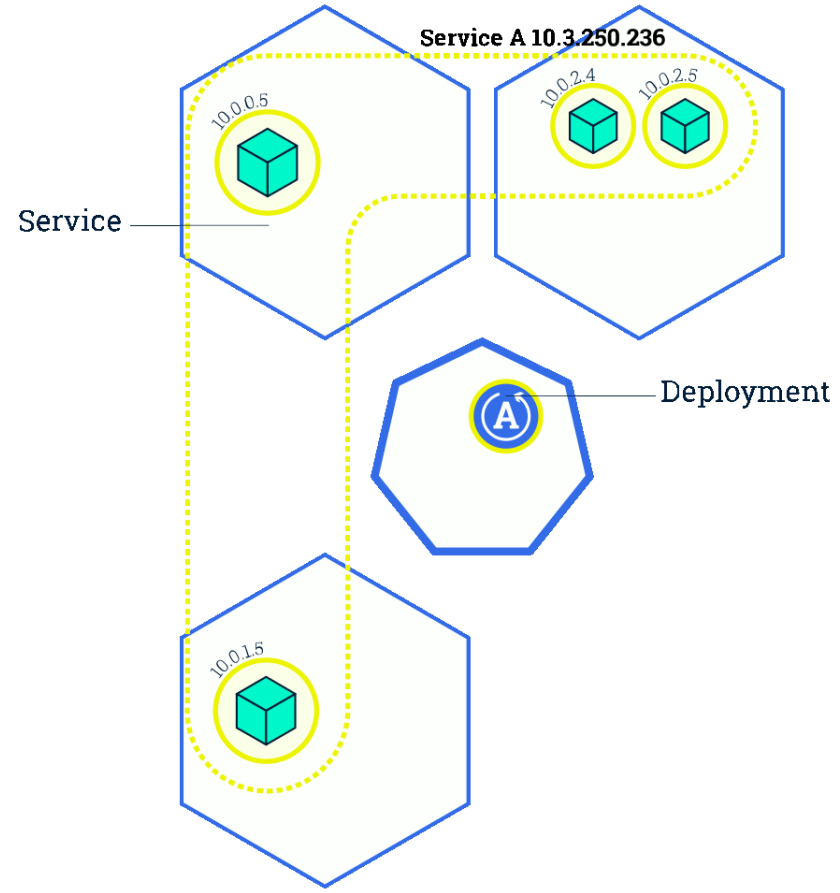
Progressive Delivery is a term that includes deployment strategies that try to avoid the pitfalls of all-or-nothing deployment strategies

New versions being deployed do not replace existing versions but run in parallel for an amount of time receiving live production traffic, and are evaluated in terms of correctness and performance before the rollout is considered successful.

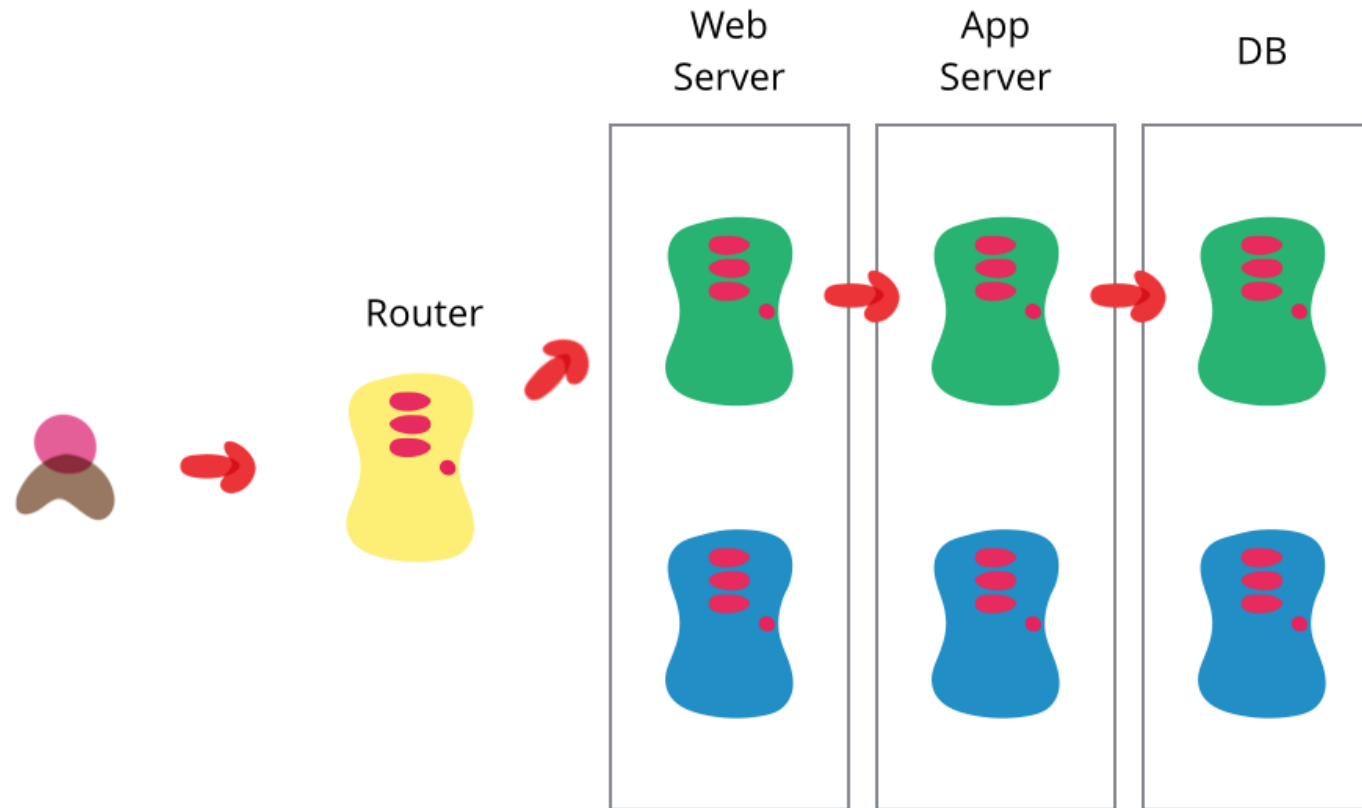
- Avoiding downtime
- Limit the blast radius
- Shorter time from idea to production

**PROGRESSIVE
DELIVERY
TECHNIQUES**

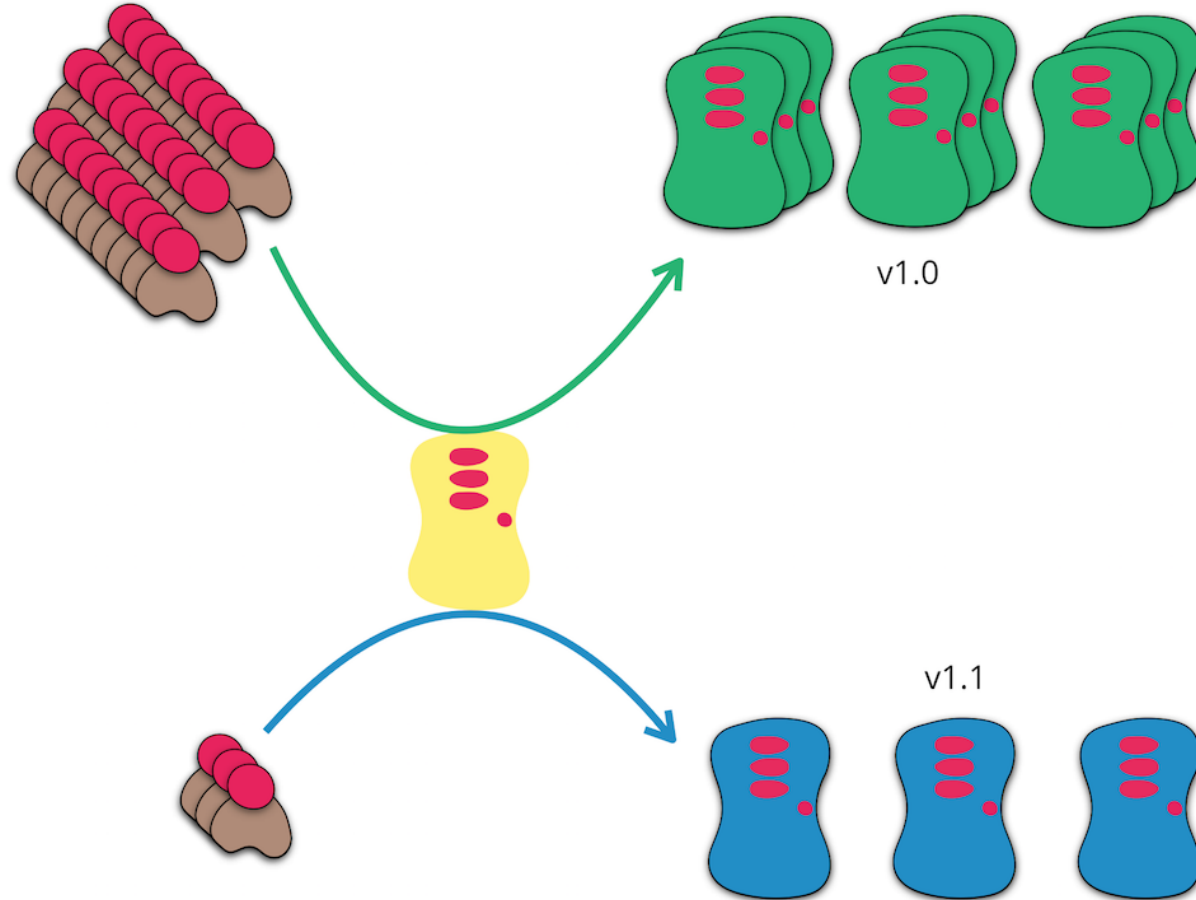
ROLLING UPDATES



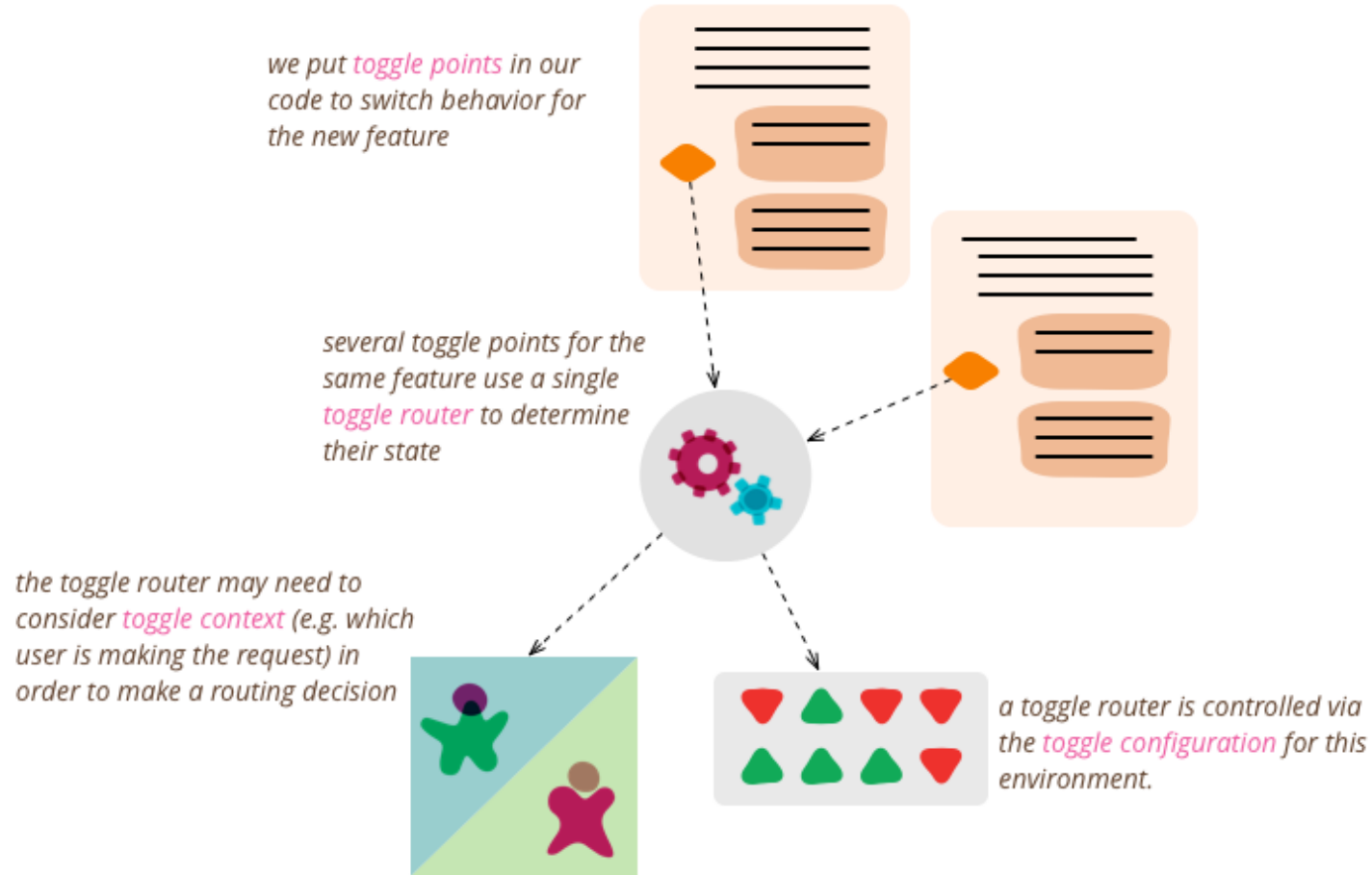
BLUE-GREEN DEPLOYMENT



CANARY DEPLOYMENT



FEATURE FLAGS



MONITORING IS THE NEW TESTING

Know when users are experiencing issues **in
production**

React to the issues **automatically**



@DEVOPS_BORAT

DevOps Borat

To make error is human. To propagate error to all server in automatic way is **#devops.**

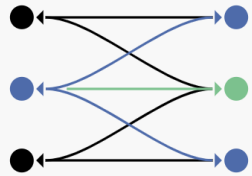
If you haven't automatically destroyed something by mistake, you are not automating enough

PROGRESSIVE DELIVERY



Istio

Connect, secure, control, and observe services.



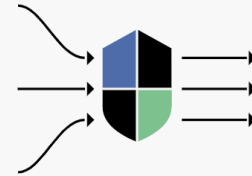
Connect

Intelligently control the flow of traffic and API calls between services, conduct a range of tests, and upgrade gradually with red/black deployments.



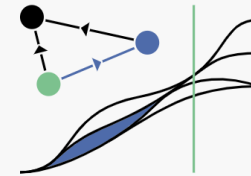
Secure

Automatically secure your services through managed authentication, authorization, and encryption of communication between services.



Control

Apply policies and ensure that they're enforced, and that resources are fairly distributed among consumers.



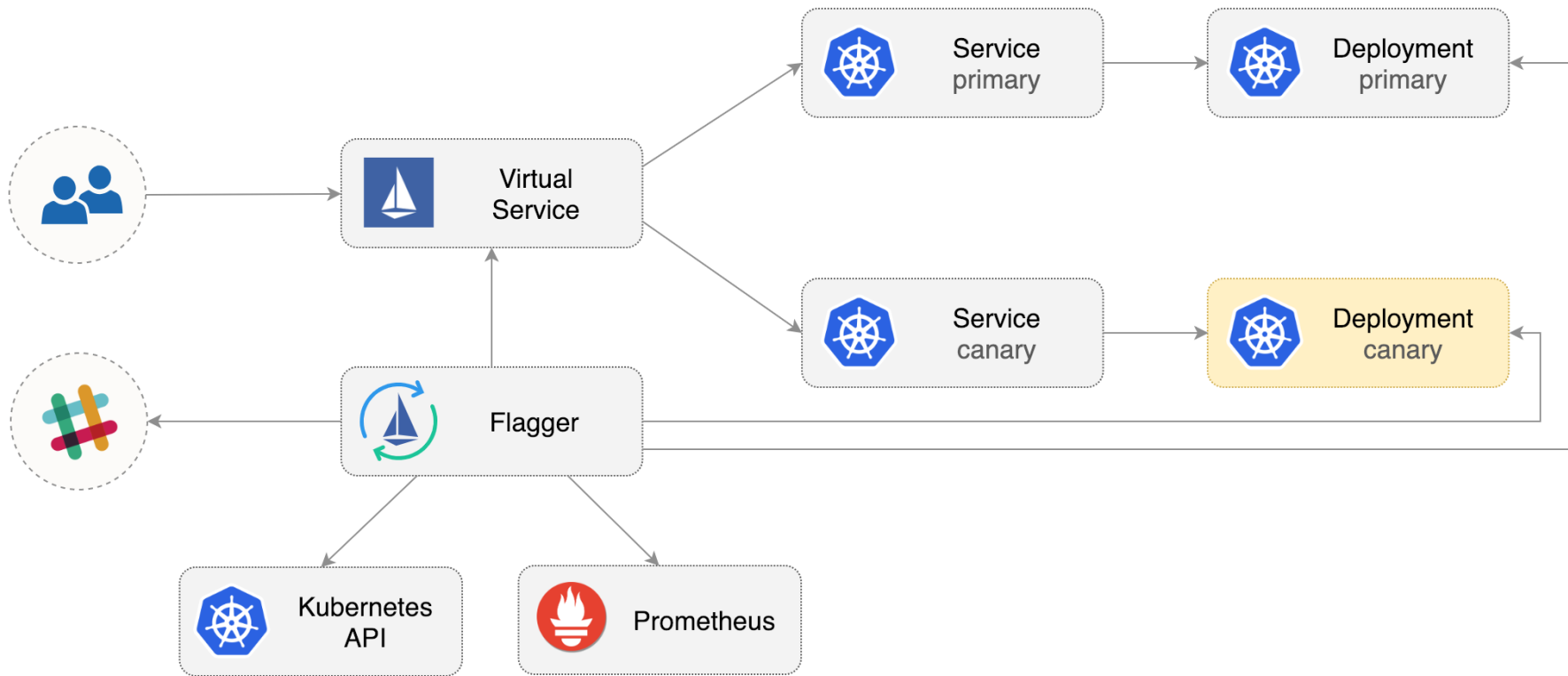
Observe

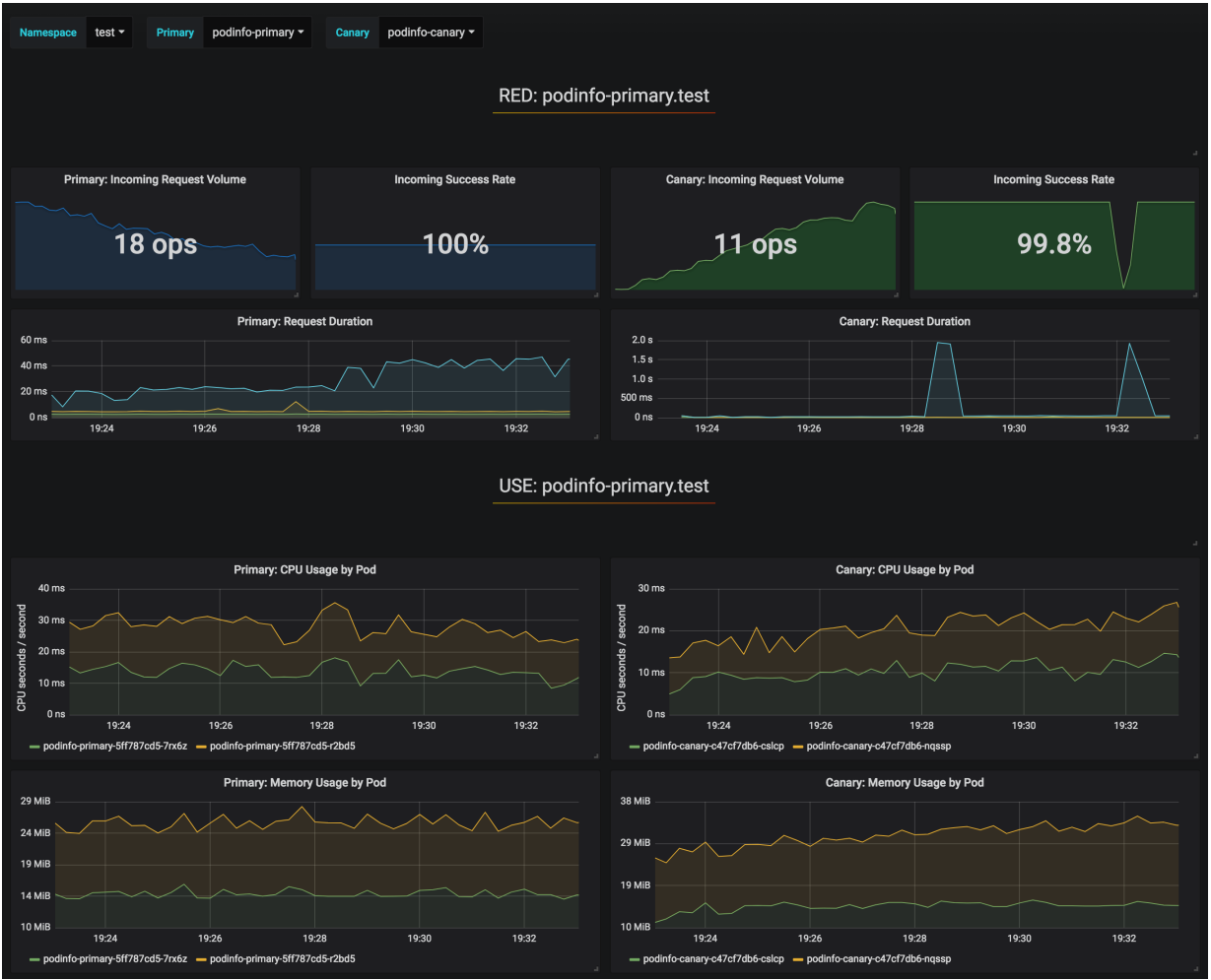
See what's happening with rich automatic tracing, monitoring, and logging of all your services.

FLAGGER

flagger.app

automates the promotion of canary deployments by using Istio's traffic shifting and Prometheus metrics to analyse the application's behaviour during a controlled rollout





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