PROGRESSIVE DELIVERY IN KUBERNETES



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Watch online at carlossg.github.io/presentations

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PROGRESSIVE DELIVERY



Home

Feature Management

DevOps

Continuous Delivery

To Be Continuous

Q

Home > Continuous Delivery

Progressive Delivery, a History.... Condensed

By Adam Zimman - August 6, 2018



the developer-focused industry analyst firm

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JAMES GOVERNOR'S MONKCHIPS

Towards Progressive Delivery

By James Governor | @monkchips | August 6, 2018

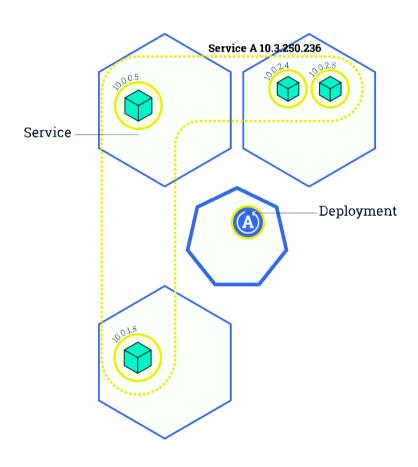
Progressive Delivery is a term that includes deployment strategies that try to avoid the pitfalls of all-or-nothing deployment strategies

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.

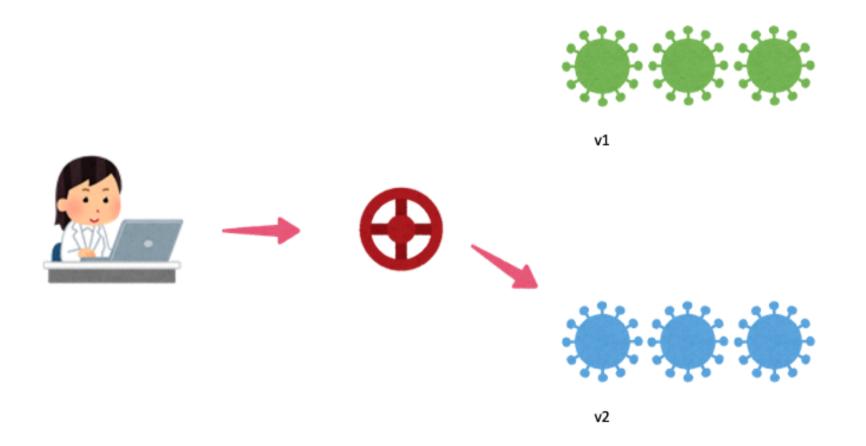
- Avoiding downtime
- Limit the blast radius
- Shorter time from idea to production

PROGRESSIVE DELIVERY TECHNIQUES

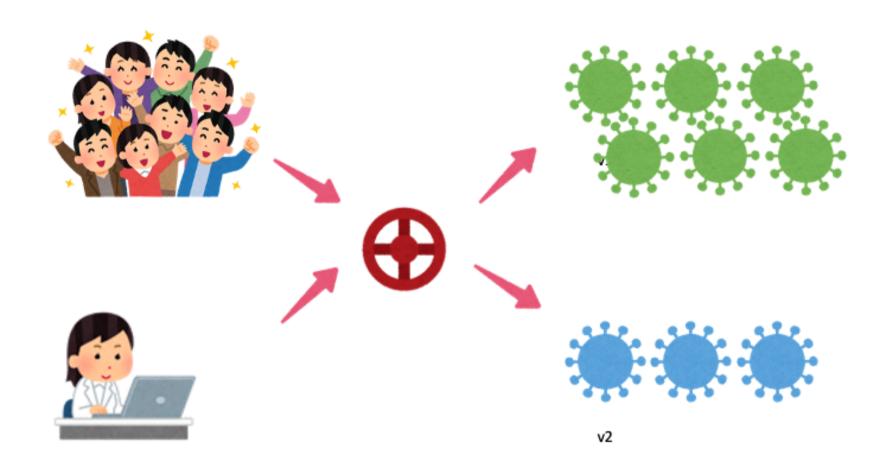
ROLLING UPDATES



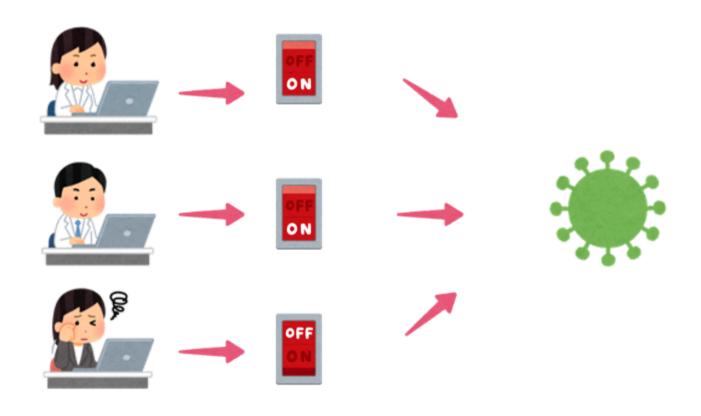
BLUE-GREEN DEPLOYMENT



CANARY DEPLOYMENT



FEATURE FLAGS



MONITORING IS THE NEW TESTING

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

React to the issues automatically



@DEVOPS_BORAT

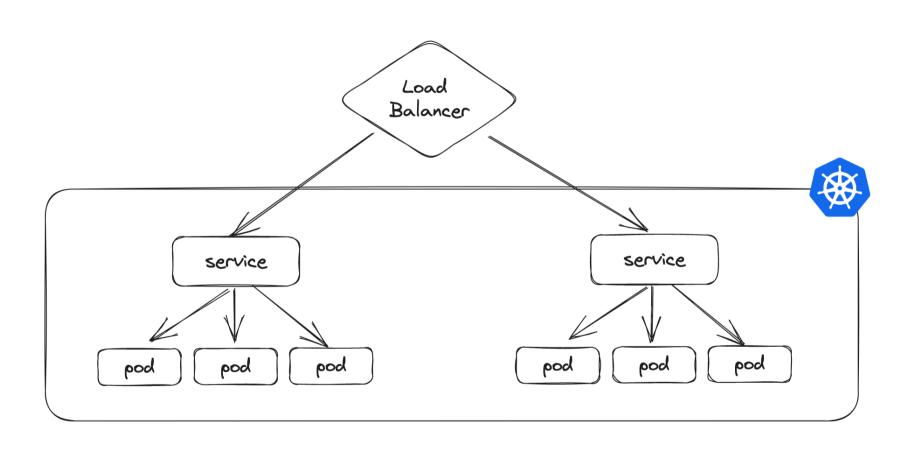
DevOps Borat

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

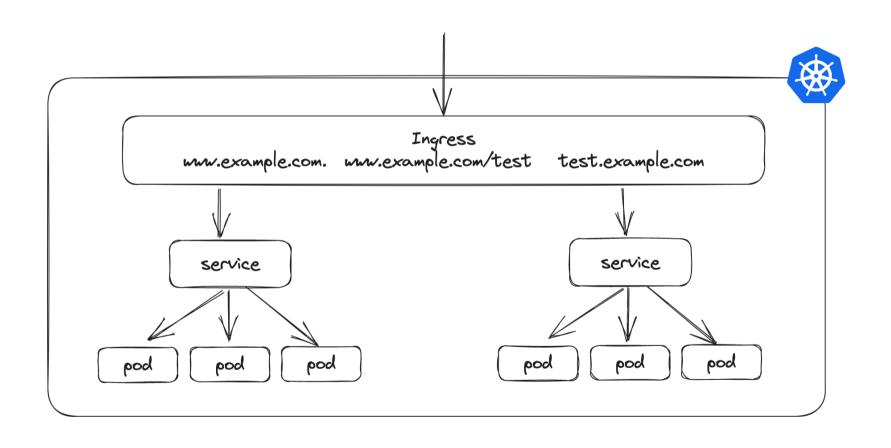
If you haven't automatically destroyed something by mistake, you are not automating enough

PROGRESSIVE DELIVERY IN KUBERNETES

KUBERNETES SERVICE ARCHITECTURE



KUBERNETES INGRESS ARCHITECTURE



KUBERNETES INGRESS

Ingress controllers:

- AWS
- GCE
- nginx
- Ambassador
- Istio Ingress
- Traefik
- HAProxy
- ...

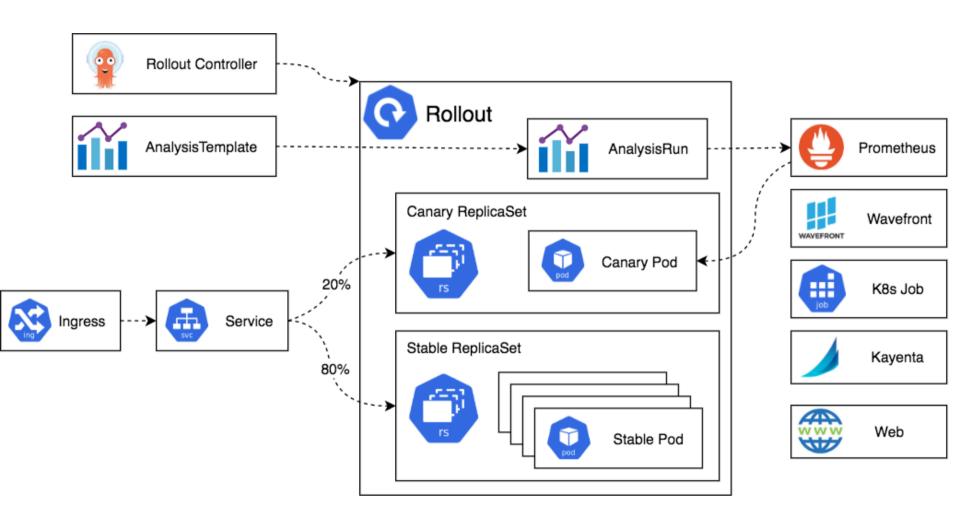
ARGO ROLLOUTS

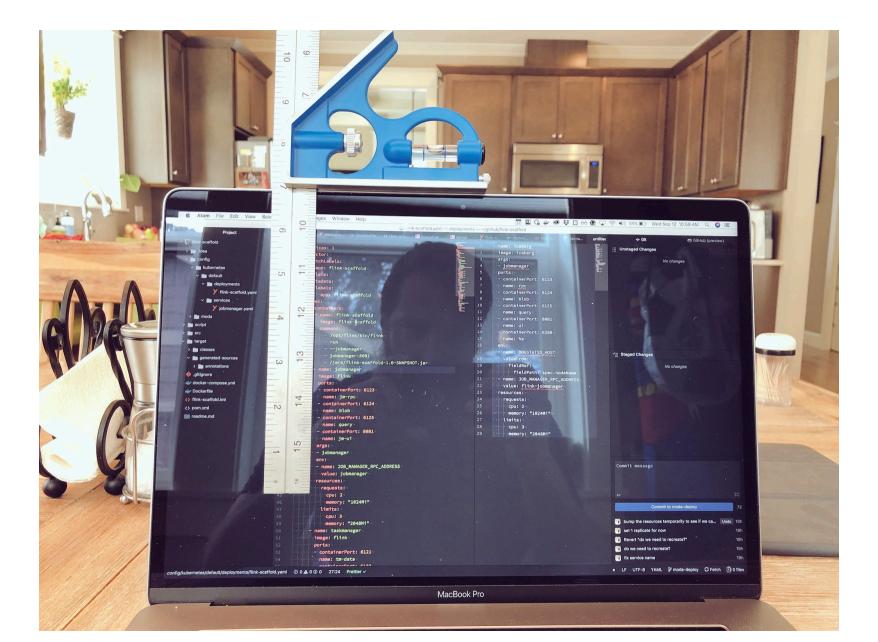


ARGO ROLLOUTS

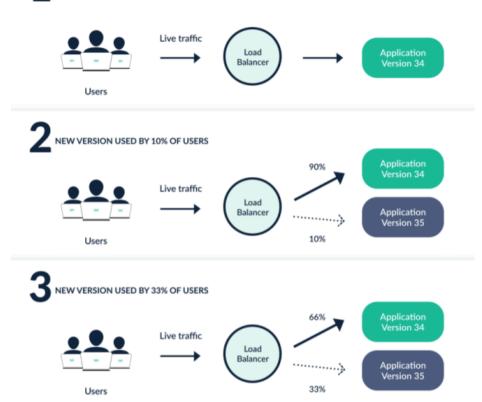
provides advanced deployment capabilities such as blue-green, canary, canary analysis, experimentation, and progressive delivery features to Kubernetes.

ARGO ROLLOUTS



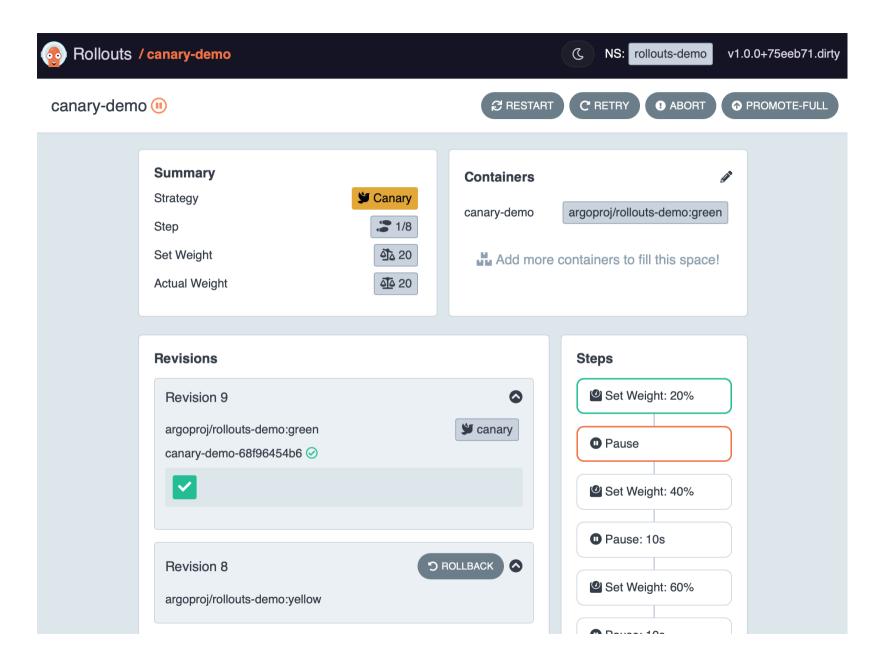


1 INITIAL VERSION



4 NEW VERSION USED BY ALL USERS





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