



JENKINS X: CONTINUOUS DELIVERY FOR KUBERNETES

Carlos Sanchez

csanchez.org / [@csanchez](https://twitter.com/csanchez)

cloudbees®

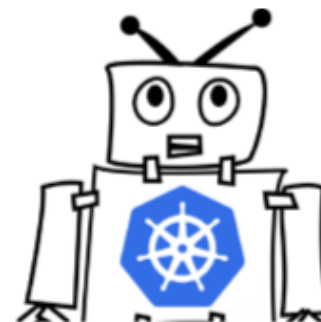
ABOUT ME

Principal Software Engineer @ CloudBees

Author of Jenkins Kubernetes plugin

Long time OSS contributor at Apache Maven, Eclipse,
Puppet,...

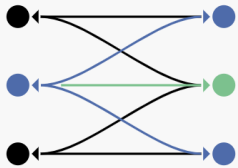






Istio

Connect, secure, control, and observe services.



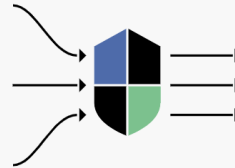
Connect

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



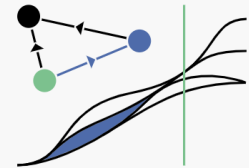
Secure

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.

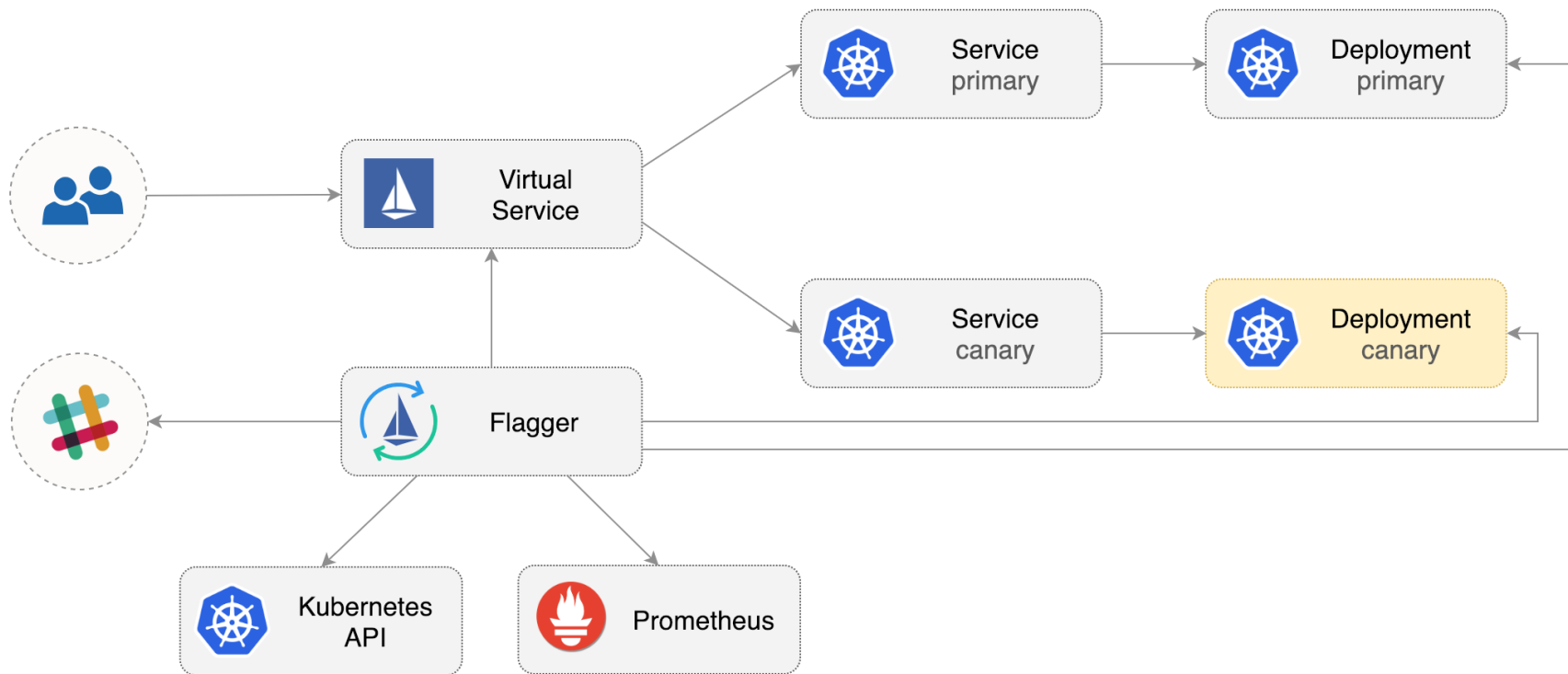


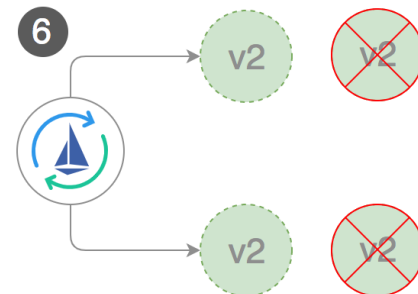
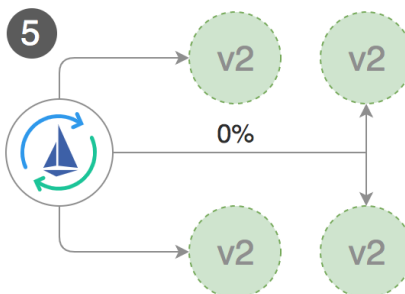
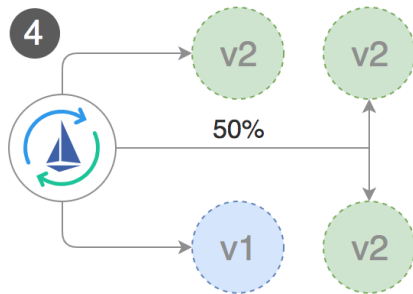
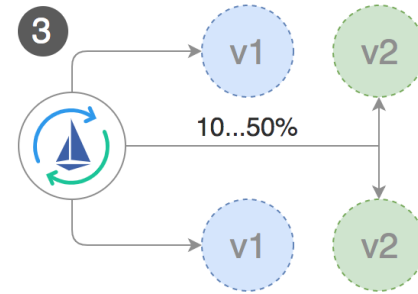
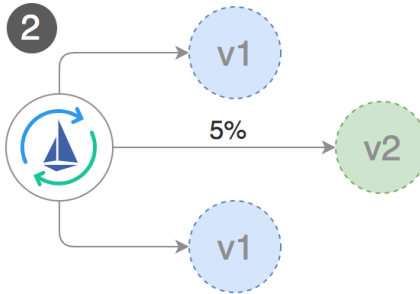
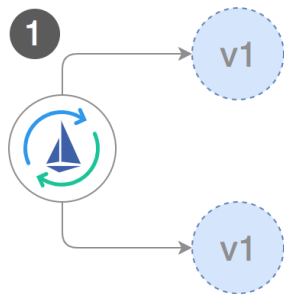
Observe

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

FLAGGER

flagger.app





Namespace test Primary podinfo-primary Canary podinfo-canary

RED: podinfo-primary.test

Primary: Incoming Request Volume

18 ops

Incoming Success Rate

100%

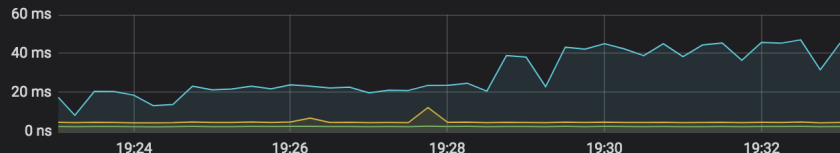
Canary: Incoming Request Volume

11 ops

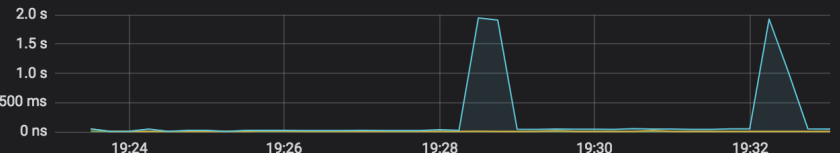
Incoming Success Rate

99.8%

Primary: Request Duration

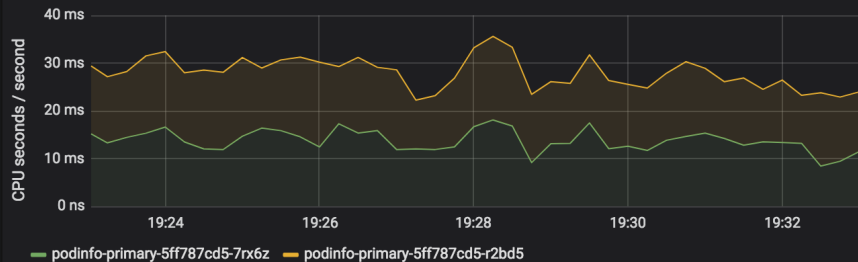


Canary: Request Duration

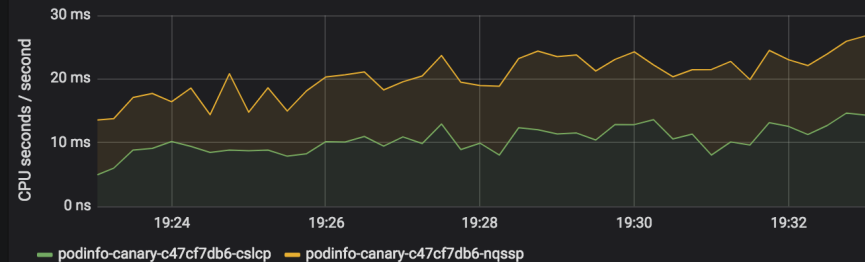


USE: podinfo-primary.test

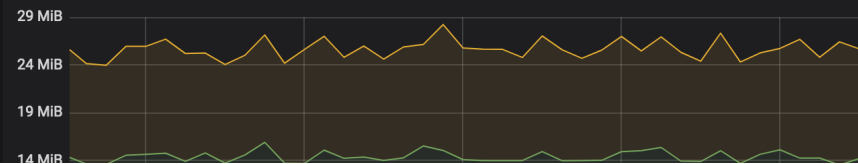
Primary: CPU Usage by Pod



Canary: CPU Usage by Pod

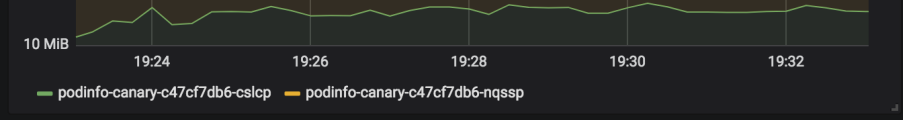
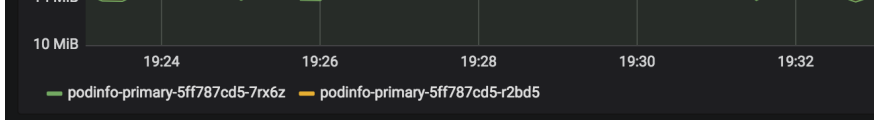


Primary: Memory Usage by Pod



Canary: Memory Usage by Pod







flagger APP 3:30 PM

podinfo.test

New revision detected, starting canary analysis.

Target

Deployment/podinfo.test

Traffic routing

Weight step: 5 max: 50

Failed checks threshold

10

Progress deadline

60s

podinfo.test

Canary analysis completed successfully, promotion finished.



flagger APP 12:12 PM

podinfo.test

Progress deadline exceeded deployment does not have minimum availability for more than 60s



flagger APP 12:18 PM

podinfo.test

Failed checks threshold reached 10



[carlossg/croc-hunter-jenkinsx-serverless](https://github.com/carlossg/croc-hunter-jenkinsx-serverless)



csanchez.org



cloudbees®