

# "Microservices & Istio on Openshift"

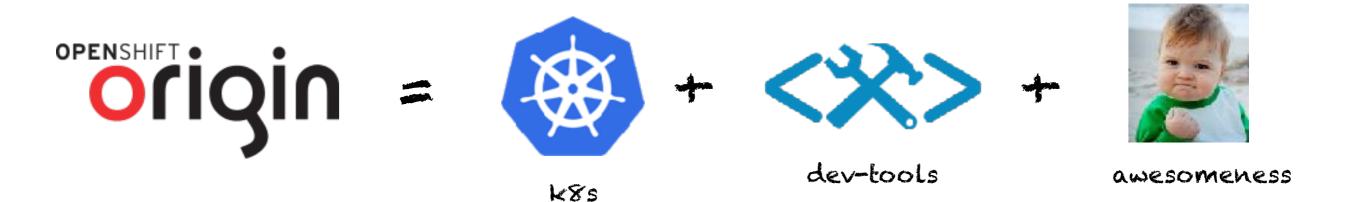
## openshift commons briefing

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# What/why is openshift?



# Analogy



Kernel for you DC



# Start from anywhere

Docker image Dockerfile

Source

JAR

### Microservices Operations requirements

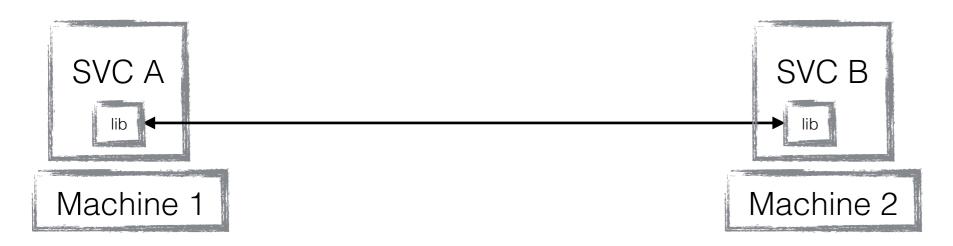
- \* Distributed tracing zipkin and zipkin libraries
- \* service discovery (Ex:- Netflix Ribbon)
- \* Retries
- \* Load balancing (Ex:- Netflix Zuul, Ribbon)
- \* Securing connection
- \* Metrics (Ex: Netflix atlas)
- \* Circuit breaking Timeouts (Ex:- Netflix Hystrix)
- \* Testing for failures

# What if we can get all these features w/o writing code?

What is istio?

# An open platform to connect, manage, and secure microservices

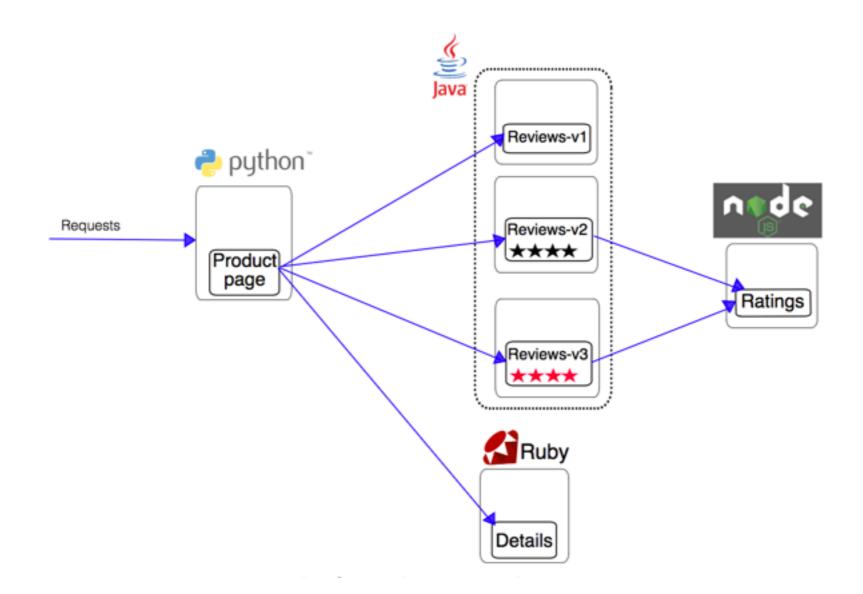
#### W/o istio



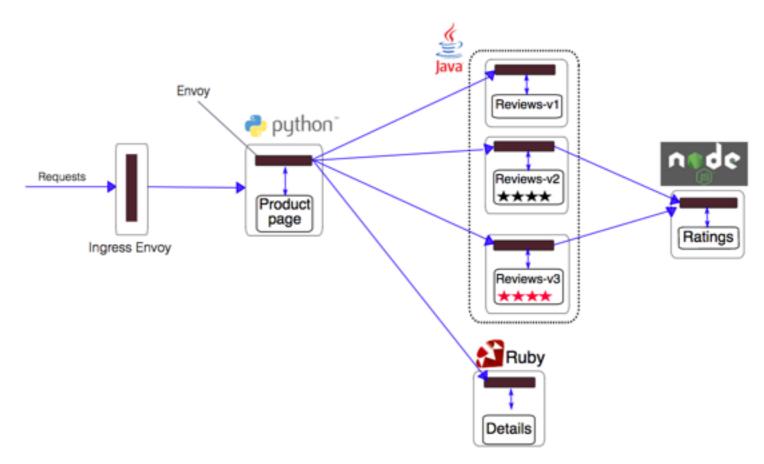
### W/ istio



# Example application



## Example application with istio



BookInfo Application

# Installing Istio.. on openshift

- \* origin 1.5 with istio 0.1.6
- \* disable selinux.. (just for now)
- \* container datetime should sync with host machine..
- \* provide privileges to istio service accounts
- \* confined to single project/namespace.. (just for now)
- \* deployment expects version label for metrics to work (just for now)
- for now)

  \* dotviz will not work if you have in app name (just for now)