OPENSHIFT origin

"Microservices & Istio on Openshift"

openshift commons briefing

Chakradhar Rao Jonagam

Solutions Architect & CNCF Ambassador

@debianmaster

Analogy

 = Kernel for you DC

 = O/S for your DC
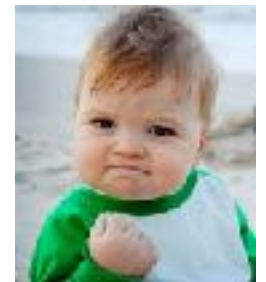
What/why is openshift?

OPENSHIFT origin = k8s + dev-tools + awesomeness

Start from anywhere

Docker
image

Dockerfile

Source
code

JAR

WAR

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?

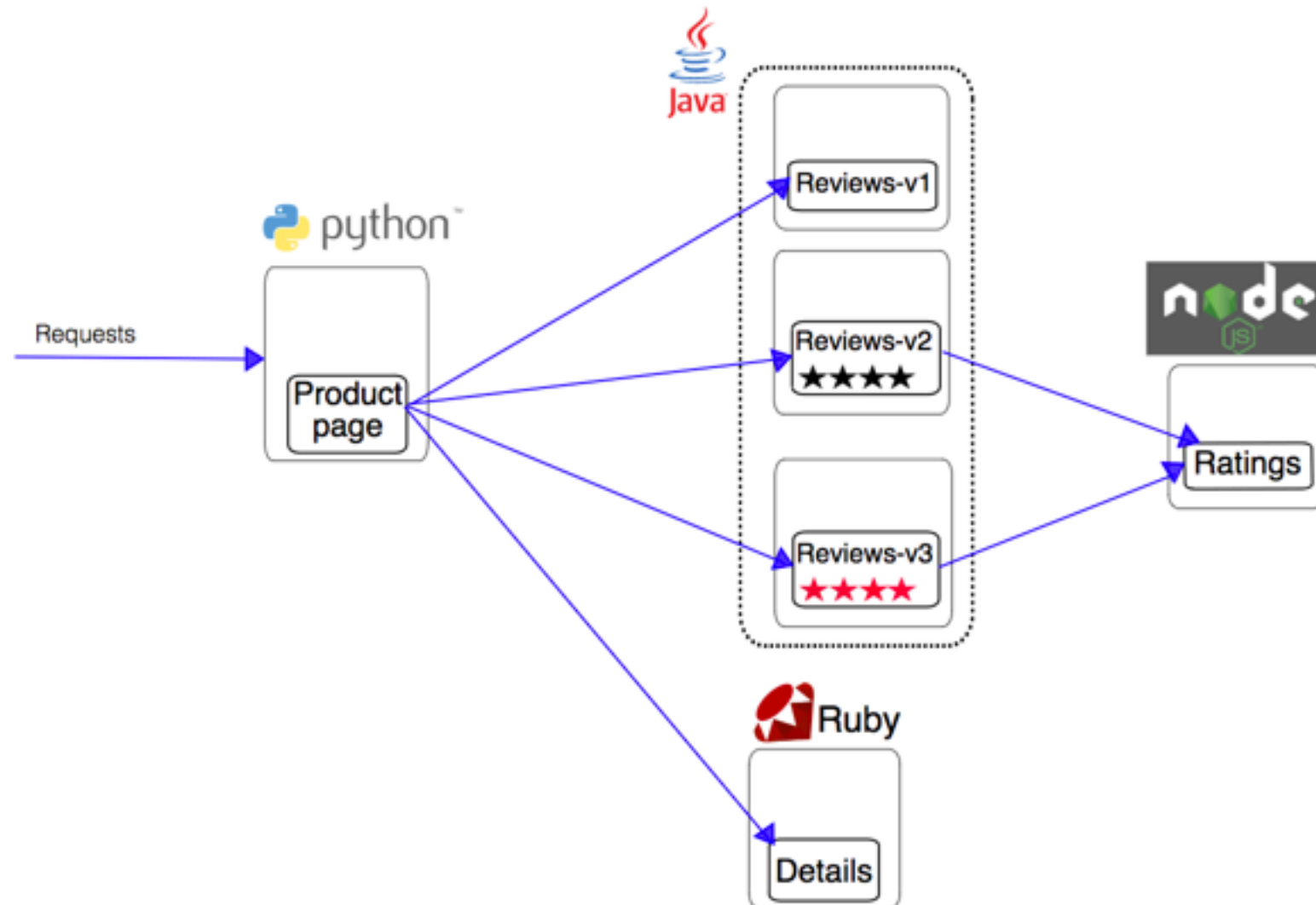An open platform to connect, manage, and secure microservices

W/o istio

W/ istio

SVC A

lib

Machine 1

SVC B

lib

Machine 2
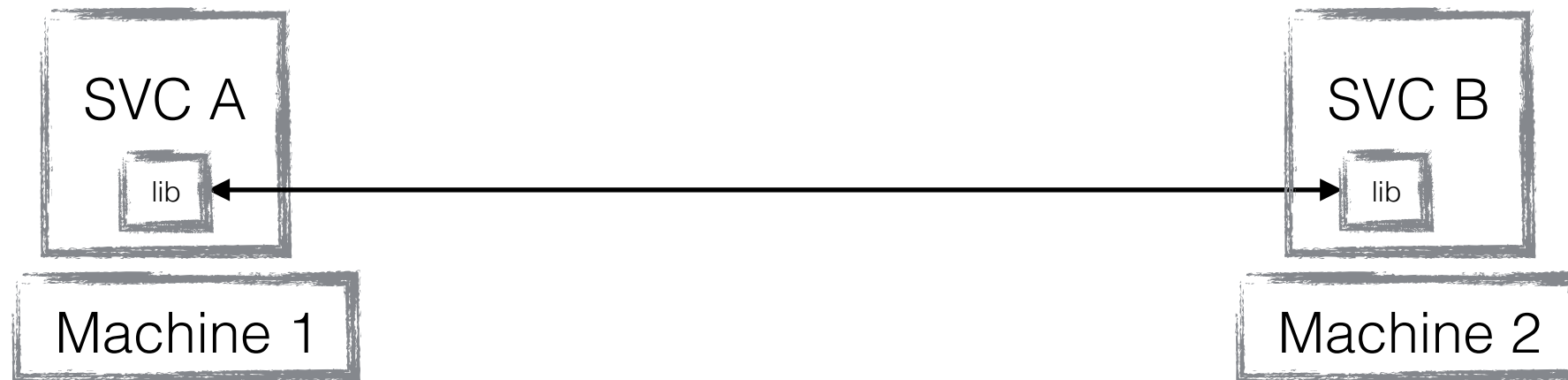
Example application

Example application with istio

BookInfo Application