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Deploy and manage a microservice application as a service mesh on OpenShift

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Deploy and manage a microservice application as a service mesh on OpenShift

Red Hat Forum Zurich 2019 - Engineering track

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Senior Engineer

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A vertical strip of various icons representing cloud computing, data storage, and network connectivity. The icons include a cloud with a keyhole, a database cylinder, a server rack, a person silhouette, a network diagram with arrows and nodes, and a cloud with a keyhole.

A comedy play

The stage



Red Hat OpenShift 4.1

Basic installation of OpenShift 4.1 running on Amazon AWS

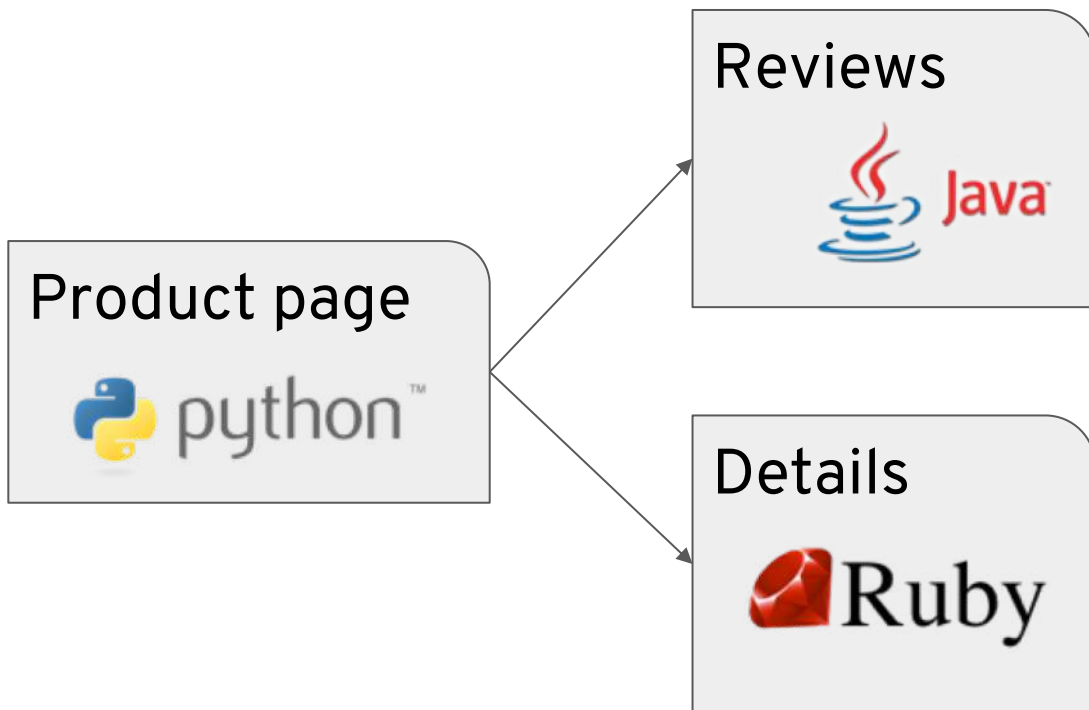
Red Hat OpenShift Service Mesh 1.0

Based on Istio

With Kiali (Observability)

With Jaeger (Distributed Tracing)

The story



BookInfo Sample Sign in

The Comedy of Errors

Wikipedia Summary: The Comedy of Errors is one of **William Shakespeare's** early plays. It is his shortest and one of his most farcical comedies, with a major part of the humour coming from slapstick and mistaken identity, in addition to puns and word play.

Book Details

Paperback: 200 pages	<p>An extremely entertaining play by Shakespeare. The slapstick humour is refreshing!</p> <p>— Reviewer1 Affiliation1</p>
Publisher: PublisherA	
Language: English	<p>Absolutely fun and entertaining. The play lacks thematic depth when compared to other plays by Shakespeare.</p> <p>— Reviewer2 Affiliation2</p>
ISBN-10: 1234567890	
ISBN-13: 123-1234567980	

The actors

Thomas

Operator

Sometimes careful, sometimes
careless...
He'll get punished if the application
isn't working.

Pavol

Developer

Has the good role, receives user
stories from the Product owner and
throws over the fence to the
Operator.

Dimitris

Product owner

Defines the priorities for new
features (Can be bribed).

You

End User

Hard to please.
Get your phone ready...



Let's start !

<http://tinyurl.com/istiodemo>

(You should just get an error at this point)



Summary

Summary

- We deployed multiple services in multiple languages on OpenShift Platform
- With Istio routing capabilities we routed traffic to various versions of the services
 - Canary deployment
 - Shadowing
- With Kiali we were able to analyse/visualize the health of the service mesh
 - See how services are “connected”
 - See metrics
 - Configure the service mesh
- Thanks to Jaeger we were able to collect more data about each requests



Red Hat OpenShift Service Mesh

- 1.0 is generally available on OpenShift 4.1

Thank you

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Application migration & modernization for
AXA Switzerland

Vladimir Rimar, Consultant, Red Hat

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Stonebranch