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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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Manager, Software Engineering

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Senior Engineer

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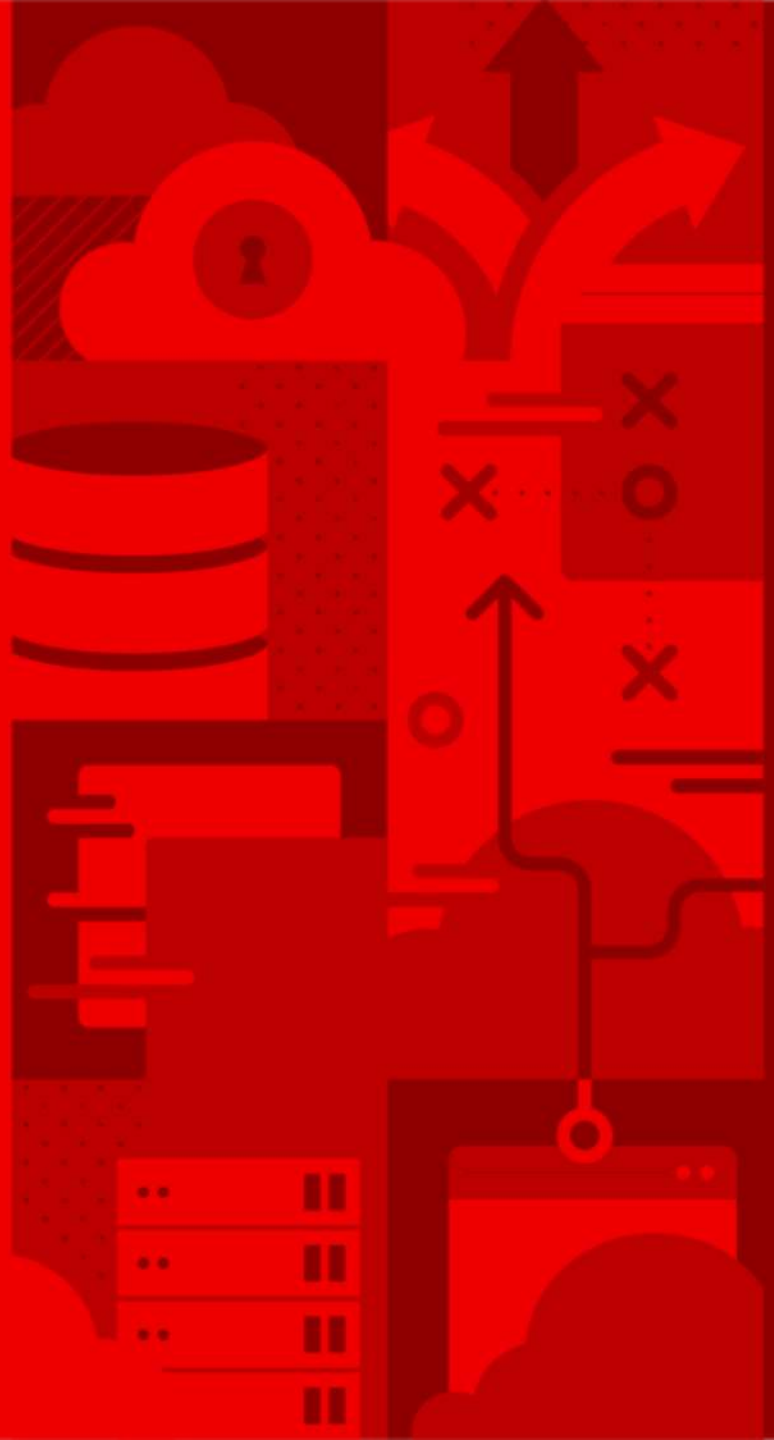

A comedy play

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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)

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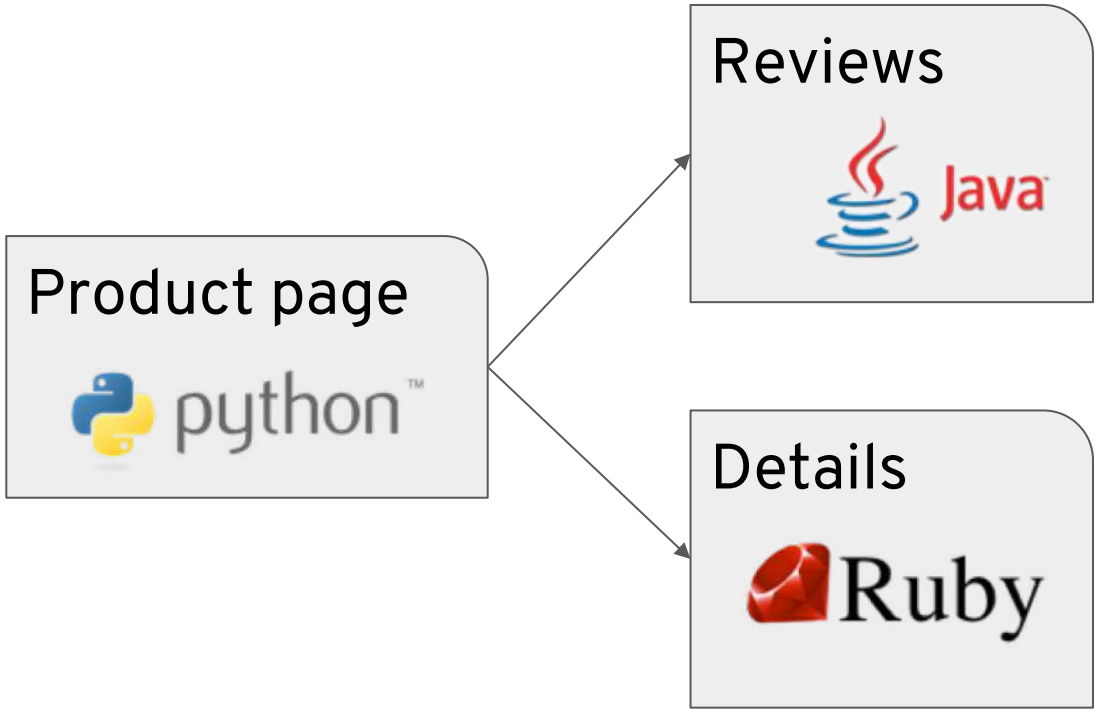
The story



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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...

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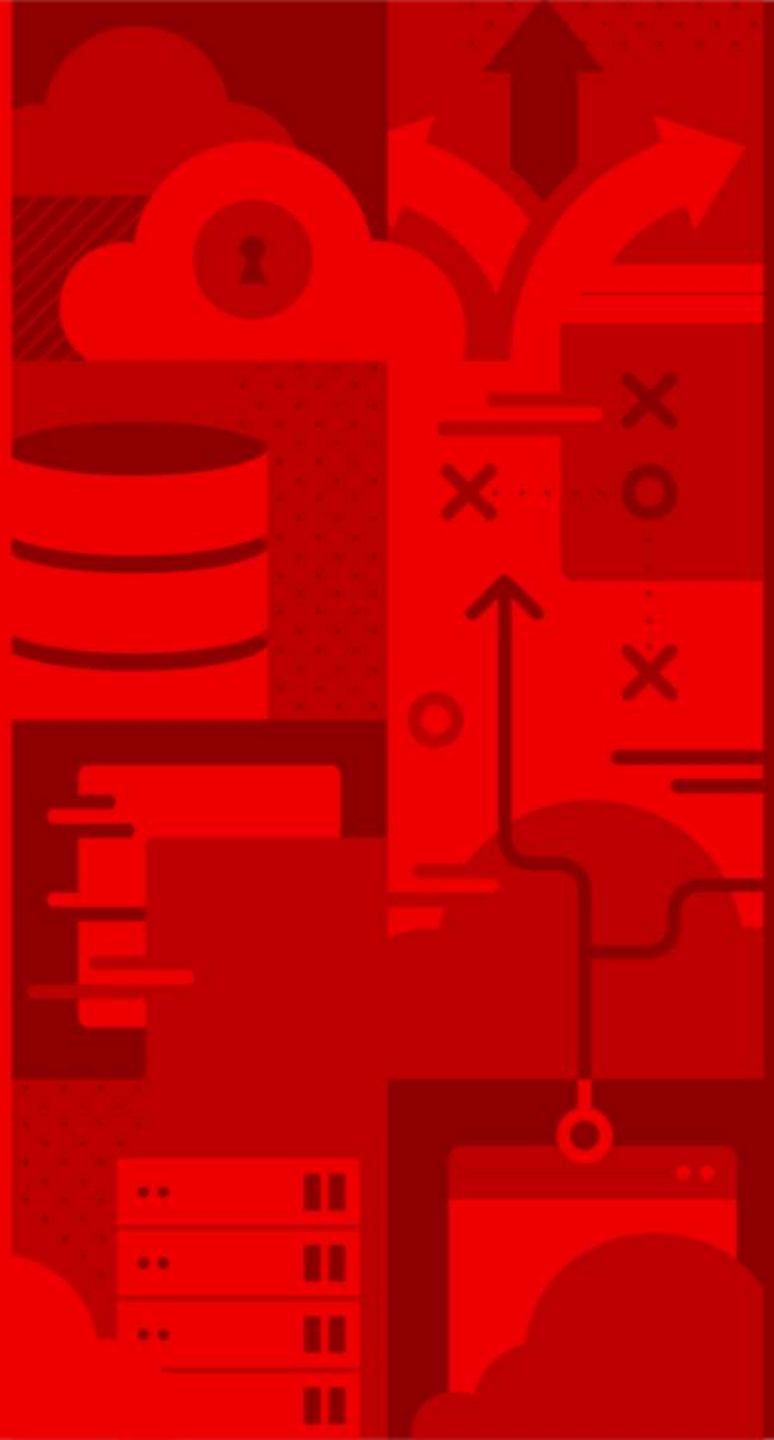

Let’s start !

http://tinyurl.com/istiodemo

(You should just get an error at this point)

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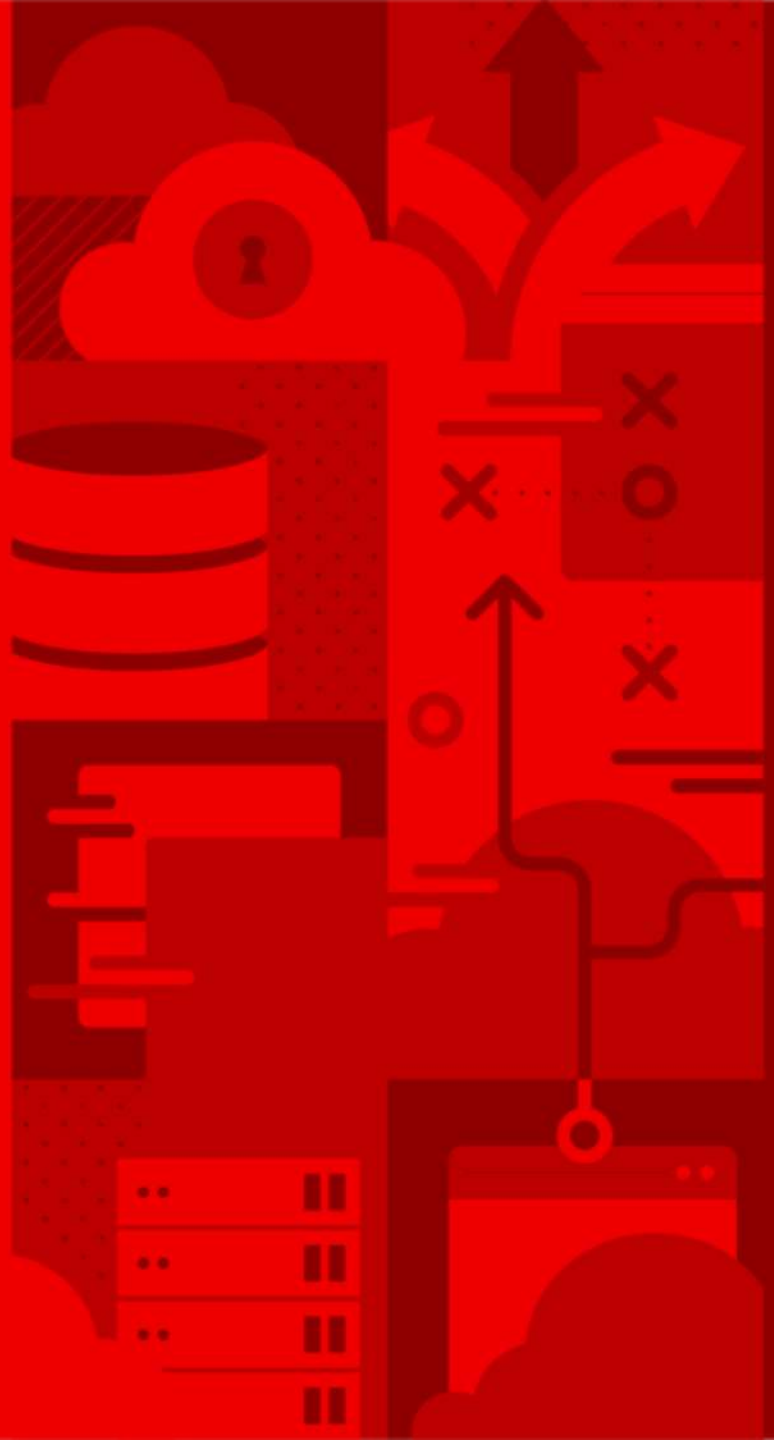

Summary

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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

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Red Hat OpenShift Service Mesh

- 1.0 is generally available on OpenShift 4.1

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Thank you

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Application migration & modernization for AXA Switzerland

Vladimir Rimar, Consultant, Red Hat
Gabriel Koch, Cloud Software Engineer, AXA Switzerland
Nils Buer, Global Head of Solution Management, Stonebranch