



QUARKUS

BETA

Cloud Native development with Eclipse MicroProfile on Kubernetes

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Platinum Sponsor:

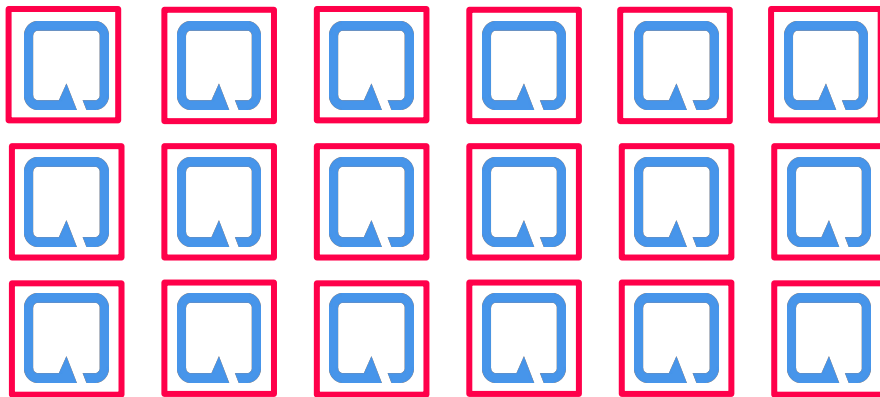


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#DevovxPL

Microservices

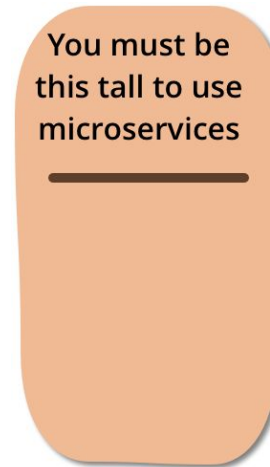


Microservices: the good

- Small team working on a service
 - Better suited technology
 - Fast tests
 - Independent deployment
 - Independent scaling
-
- **Fast development**

Microservices: the bad

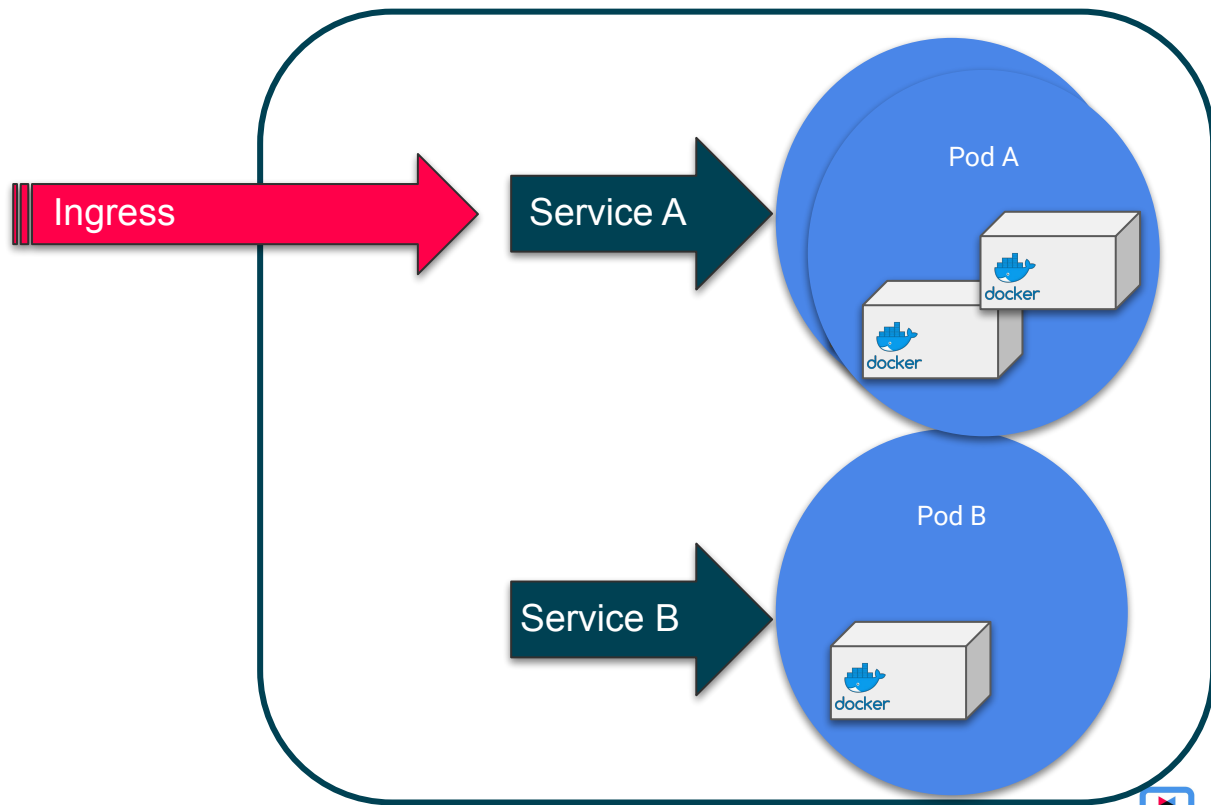
- More deployments
- Require self-service, on-demand infrastructure => cloud
- More network communication
- Monitoring



Martin Fowler, [MicroservicePrerequisites](#)

Cloud native

Kubernetes



kubernetes



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Kubernetes



kubernetes

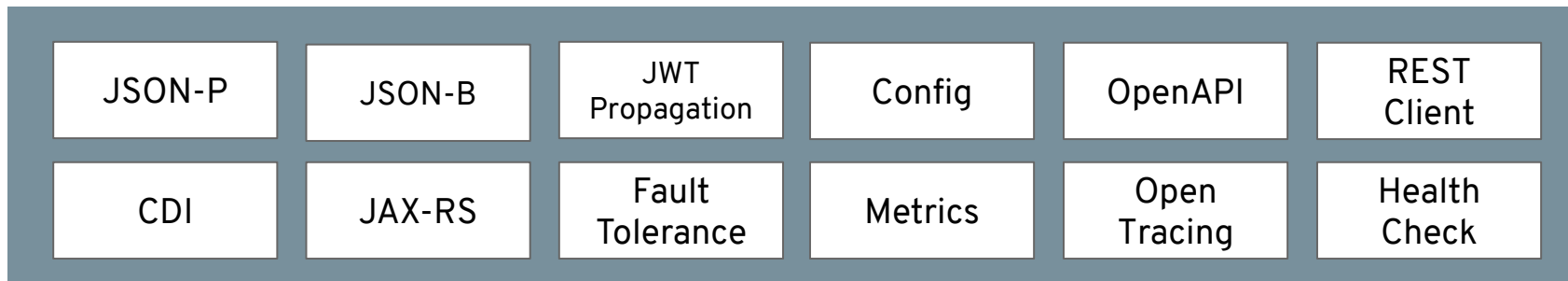


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Eclipse MicroProfile



Quarkus

“Full stack framework”

- a bit like Thorntail
- uniform configuration
- packaging

Features

- MicroProfile
- JAX-RS
- JPA/Hibernate ++
- CDI
- ...

What makes it stand out?

- Low memory usage
- Low start-up time
- Compilable to native

What makes it great to work with?

- Development mode with Maven or Gradle plugin
 - Instant code reload
 - Applying config changes, such as db changes

Quarkus Extensions

RESTEasy

Netty

Hibernate ORM

Hibernate Validator

MP OpenAPI

MP JWT

Eclipse Vert.X

Agroal (conn pool)

Narayana JTA

MP Reactive
Messaging

Apache Camel

...

Quarkus Core

Jandex

Gizmo

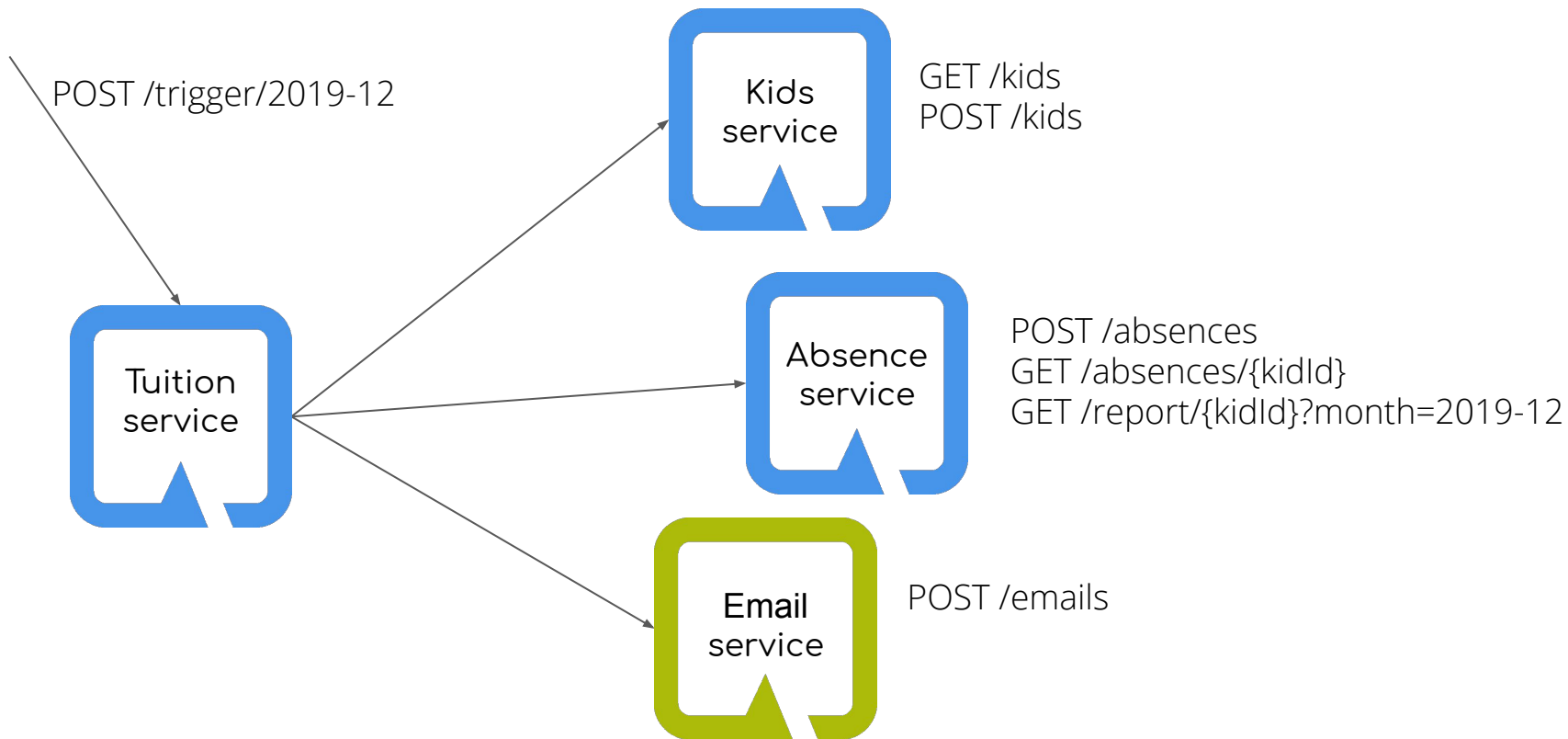
Graal SDK

Arc (DI)

HotSpot

SubstrateVM

Workshop & Demo



Materials

- This presentation: <http://bit.ly/devoxx-quarkus-lab>
- Workshop scenario: <https://github.com/michalszynkiewicz/workshop-scenario/>
- Quarkus cheat sheet: <https://lordofthejars.github.io/quarkus-cheat-sheet/>
- Kubernetes cheat sheet: <https://github.com/michalszynkiewicz/simple-kubernetes-cheat-sheet>
- Quarkus guides: <https://quarkus.io/guides/>



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Thank you!



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