



Cloud Native development with Eclipse MicroProfile on Kubernetes

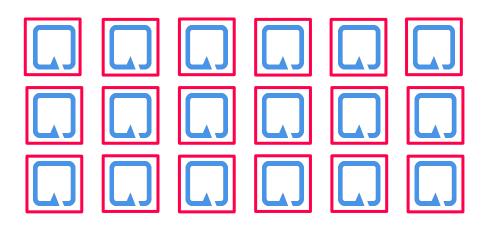
Michał Szynkiewicz, Red Hat Martin Kouba, Red Hat

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Microservices







Microservices: the good

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

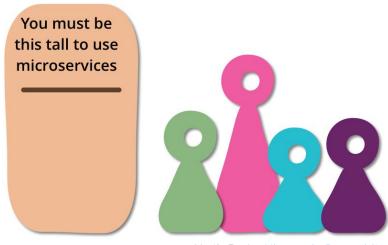
Fast development





Microservices: the bad

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







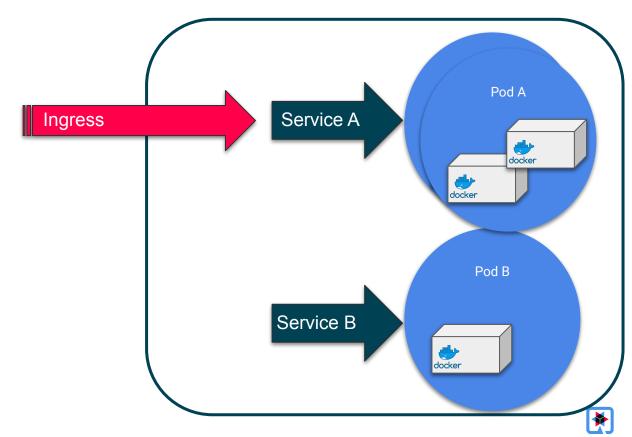
Cloud native





Kubernetes







QUARKUS

Kubernetes

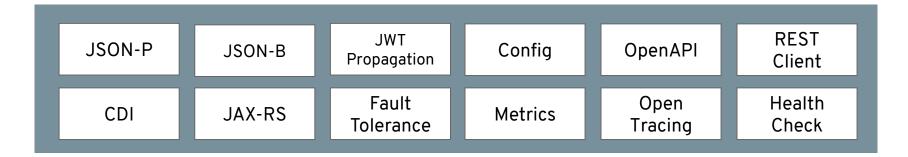








Eclipse MicroProfile









Quarkus



"Full stack framework"

- a bit like Thorntail
- uniform configuration
- packaging





Features

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





What makes it stand out?

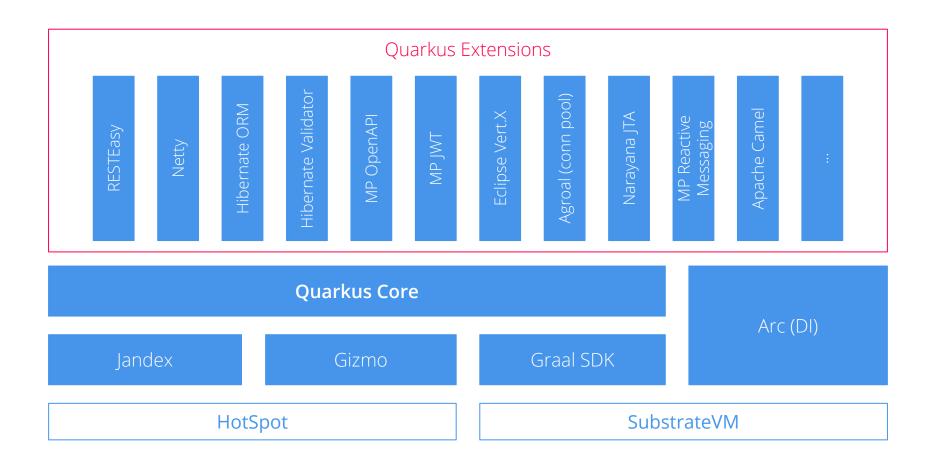
- Low memory usage
- Low start-up time
- Compilable to native



What makes it great to work with?

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





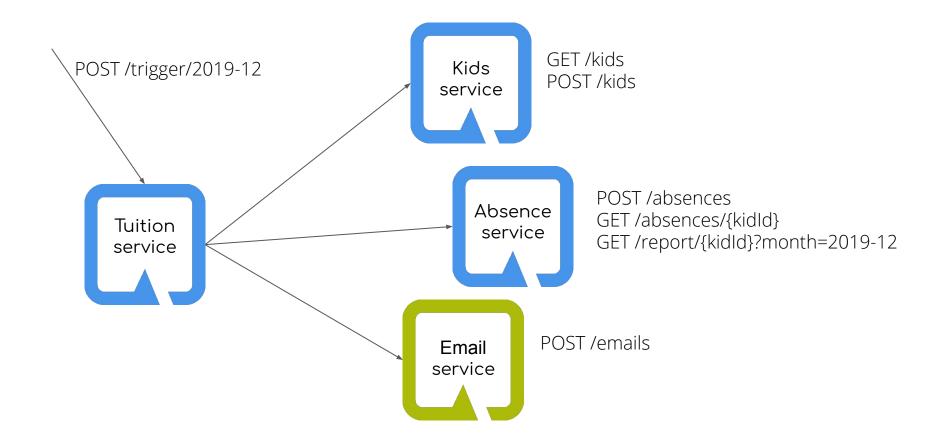




Workshop & Demo









Materials

- This presentation: (bitly link, easy to rewrite)
- 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!



