



IBM & Consol present: The day after tomorrow Remote Development of **Quarkus** **Applications**

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$> whoami
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Dr. Marco Bungart

- 2008 – 2013: Studied Bioinformatics/Computer Science in Jena
- 2013 – 2018: Ph.D. student in Kassel
- Since 2018: Software Engineer at ConSol
- Twitter, github, bitbucket, stackoverflow, ... : turing85
- Interests: Keycloak, GraalVM, Quarkus





Quarkus!

What is Quarkus?

- “A Kubernetes Native Java stack tailored for OpenJDK HotSpot and GraalVM, crafted from the best of breed Java libraries and standards.” - quarkus.io
- Lightweight in execution (small memory footprint)
- Compilation to native binary possible through GraalVM
 - Even lower memory footprint
 - Single instance may have worse performance, but more deployments possible due to lower resource consumption
→ net gain
- Up & running within minutes



Source:

<https://1000logos.net/sonic-logo/>

Why Quarkus?

- Developer-joy front & center
 - Developed by developers, for developers
 - Excellent Maven- and gradle-integration
 - Powerful dev-mode, tight feedback loop
- Curated list of dependencies, “best of the breed”
 - Red Hat- and Community-developed
- Apps (re)start within milliseconds



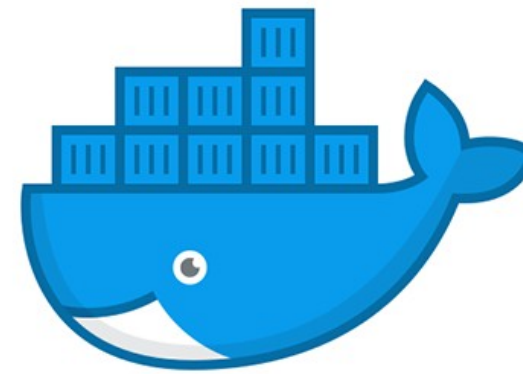
Cloud-native

Developing **cycle**



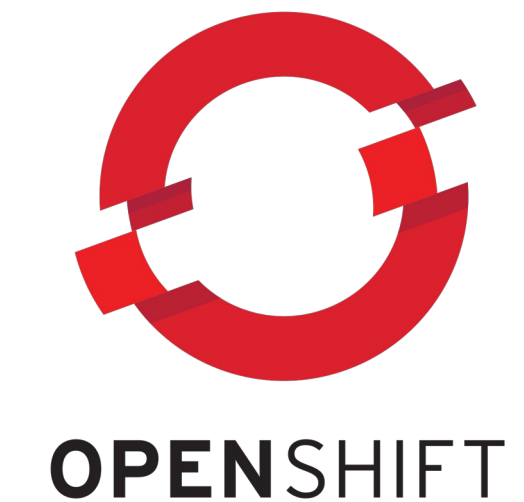
Early Stages:

- Bootstrapping Project
- Dependencies in Flux
- Setting up configuration



Main development:

- Dependencies (mostly) stable
- Development of core business logic



Feature development:

- Core business logic done
- Debugging/
Troubleshooting



Agenda

What will we talk about today?

- Use a simple project
 - Code is boring, we want to see devmode in action!
- Start by developing locally
- Move to developing in docker-compose environment
- Finish by developing in an openshift, running in the cloud
 - We use the IBM cloud, feel free to try it yourself!
<https://ibm.biz/BdfGeM>

Code Examples

- Can be found at <https://github.com/ConSol/quarkus-devmode>
- Slides are included
- Commits + messages are meant as a step-by-step guide for what we are going to do

Live Demo



Source: <https://makeameme.org/meme/lets-pray-to-9000c9f697>



Questions?



Thank you!



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