



MicroProfile

Update to JCP
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Agenda

- Background / Introduction
- Eclipse MicroProfile project
- Google Group discussions
- Code Repositories
- Sample Architecture
- Roadmap for 2017



Background / Introduction

- Goal: To optimize the Enterprise Java mission for microservice-based architectures and applications that are portable across multiple runtimes.
- Started as a discussion among community leaders at Devoxx UK in early 2016. Announced a significant milestone of MicroProfile 1.0 at JavaOne 2016, with several vendors ready with production-ready implementations.
- End game is to provide an "incubation" environment for innovative technologies in the area of microservices and Enterprise Java, and eventually submit these technologies to an appropriate standards body, such as the JCP.



Acknowledgements

- Vendors
 - IBM, Red Hat, Tomitribe, Payara, ...
- User Groups
 - LJC, SouJava, ...
- Individuals
 - John Ament (Hammock), Mark Struberg, Werner Keil, ...
- Many more starting to contribute and all are welcome...
 - ... including Oracle



Eclipse MicroProfile

- <https://projects.eclipse.org/projects/technology/microprofile>
 - Dec 2016 – Eclipse MicroProfile Project proposal accepted; project created
 - Initial contributions and contributors based on 2016 microprofile.io collaboration
 - Project leads – Kevin Sutter (IBM) and John Clingan (Red Hat)
- Why Eclipse?
 - Provides existing collaboration infrastructure and governance agreeable to microprofile.io members
 - Eclipse is a solid foundation with a proven track record, especially in the Java community.
 - Microservices is a new project idea for Eclipse, so we can grow together
- License
 - Apache License, v 2.0



Google Groups

- Until we get firmly established with the Eclipse foundation, we've been using Google Groups for our initial discussions and topics related to MicroProfile
 - <https://groups.google.com/forum/#!forum/microprofile>
- Some key discussions...
 - Process Evolution
 - Fault Tolerance and Circuit Breakers
 - Config API
 - Health Check
 - Messaging
 - Many others...



Code Repositories

- <https://github.com/microprofile>
- Several repositories corresponding to the Google Group activities
 - Prototyping, discussion, etc
- Will continue to use github with the Eclipse MicroProfile project



Sample Architecture

- Evolving Sample Application
 - Started at JavaOne, continues to evolve as features are further defined and refined
 - <https://github.com/microprofile/microprofile-conference>
- Conference application
 - Scheduling, Sessions, Speakers, Voting – all individual microservices
 - Wrapped by a simple web application
- Individual or Combined execution
 - Each microservice could run on a separate vendor app server instance
 - Or, they could all run together on a single vendor app server instance



Roadmap 2017

- MicroProfile 1.x
 - Small, iterative quarterly releases
 - Innovate, solidify, release, and repeat
 - Community defined
 - Getting established in Eclipse might limit us to two releases in 2017