Apache Kafka

for Java Developers

Organisation and Workshop Agenda

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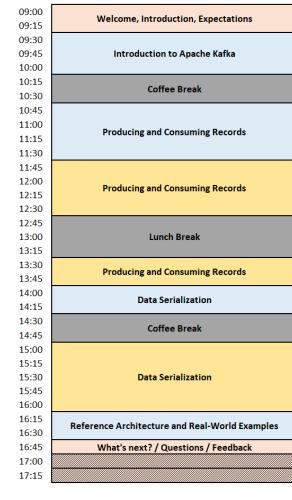JavaLand 2024, Nürburgring

Who are we?

Boris Fresow is a freelance IT consultant and trainer. He mainly deals with distributed systems, messaging solutions, and training on these topics.

Markus Günther is a freelance software developer, architect, and trainer. He supports his clients in implementing robust, scalable systems and also offers seminars & workshops on messaging solutions and modern software methodology.

Apache Kafka for Java Developers

Time	Session
09:00 – 09:15	Welcome, Introduction, Expectations
09:30 – 10:00	Introduction to Apache Kafka
10:15 – 10:30	Coffee Break
10:45 – 11:30	Producing and Consuming Records
11:45 – 12:30	Producing and Consuming Records
12:45 – 13:15	Lunch Break
13:30 – 13:45	Producing and Consuming Records
14:00 – 14:15	Data Serialization
14:30 – 14:45	Coffee Break
15:00 – 16:00	Data Serialization
16:15 – 16:30	Reference Architecture and Real-World Examples
16:45	What's next? / Questions / Feedback

Legend

- Talk
- Lab
- Organizational
- Break

What we'll provide

- Material in terms of slides and accompanying notes

- Assignments for certain topics

  - Isolated GitHub repositories

  - `README.md`: General information

  - `ASSIGNMENT.md`: Tasks

  - `HINTS.md`: In case you're stuck

- Project files and / or Docker-based local environment

- Working installation of

    - JDK 11 (at least)

    - Docker and Docker Compose

- Preferably IntelliJ IDEA

    - doesn't matter if Community or Ultimate Edition

Goals

- Understand core concepts of Apache Kafka

- Learn …

    - … how to integrate Kafka into Java applications

    - … to use the Kafka Client library for Java

    - … about serialization strategies and their differences

    - … to reason about event-based architectures

What are your expectations?

Questions?