APM Interoperability for Execution Traces: A Comparison of OpenTracing and OPEN.xtrace

Description

Recently, two efforts on interoperability for distributed execution traces in the APM (Application Performance Management) context have been initiated, namely OpenTracing [1] and OPEN.xtrace [2]. OpenTracing provides a vendor-neutral API for logging traces, including support for an increasing number of programming languages. OPEN.xtrace provides a common trace exchange format and corresponding import/export programs for selected API tools.

The goal of this seminar topic is to provide an overview and a comparison of the two approaches, including an outlook how they can benefit from each other. As a mandatory part, this topic includes a practical part in which a concept should be developed how OpenTracing can be used inside the open-source APM tool Kieker [3]. The provided references are to be considered a starting point and it is expected to extend the literature search and present a coherent view on the current state of the art in this area.

References


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