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CS-Colloquium

Building Applications for the Cloud: The Wrong, the Right, the Solid Way

Prof. Dr. Frank Leymann

IAAS, Deutschland

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IAAS, Deutschland

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Wo? Hörsaal 3
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Abstract

Since the advent of Cloud Computing Technology the question of how to use the cloud for moving existing applications to the cloud or how to build new applications for the cloud gets more and more pressing. In our talk we describe the major pitfall to avoid, namely simply bursting virtual images of stacks of applications to the cloud. Next, we describe the TOSCA standard that is targeted towards applications that are portable across multiple cloud environments, and that fosters application structures that make use of cloud benefits. Finally, we sketch best practices of how to architect applications that fit best into a cloud environment.

Bio

Frank Leymann is a full professor of computer science and director of the Institute of Architecture of Application Systems (IAAS) at the University of Stuttgart, Germany. His research interests include service-oriented architectures and associated middleware, workflow- and business process management, cloud computing and associated systems management aspects, and patterns. The projects he is working on are funded by the European Union, the German Government, or directly by industry partners. Frank is co-author of about 300 peer-reviewed papers, more than 40 patents, and several industry standards (e.g. BPEL, BPMN, TOSCA). He is invited expert to consult the European Commission in the area of Cloud Computing. Before accepting the professor position at University of Stuttgart he worked for two decades as an IBM Distinguished Engineer having been a member of a small team that was in charge of the architecture of IBM's complete middleware stack.



Christoph Fehling is a research associated at the Institute of Architecture of Application Systems at the University of Stuttgart since 2009. His main research interest are IT architecture patterns especially focusing on the area of cloud computing. In this scope, he cooperates directly with multiple industry partners which are cloud providers and cloud customers alike. He also is a member of the Hillside Group, a pattern research organization.

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