Distributed Programming in the Serverless Realm

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Abstract

Function as a Service (FaaS) is a category of cloud computing services that provides to deploy and scale a single subprogram (function) as a cloud endpoint. Serverless computing means that an application is operated by functionwise deployment. This solution provides sophisticated scalability and distributed programming.

In this paper, we analyze what is the relation between the distributed computing in the usual and the new way. How can one use the existing knowledge in the serverless realm? How the classical algorithms and data structures can be transformed for the serverless realm? How can one take advantage of FaaS systems?

Keywords: distributed programming, serverless programming, cloud

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