

A Benchmark Suite for Serverless Computing

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Currently there is a big trend towards cloud computing. Among all the services the cloud offers, serverless computing is very popular and every large cloud service provider offers a serverless platform. However, there has not been much effort to test, benchmark or compare these services. This thesis tries to take an approach on benchmarking serverless computing with building a suite that everyone can use.

This suite provides five different tests to benchmark on four different clouds, highly automated deployment and cleanup of these tests, a testing utility for comparing cloud providers, a heavy benchmark to load test the serverless platforms and a pricing calculator to estimate hypothetical and actual costs. Everything is packaged with Docker and is easy to use.

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