A Survey on Function Level Scheduler to Minimize the Cloud Provider Resource Cost in Serverless Cloud Computing

Marapaka Rama Raju[1], Ramarao Gose[2], S Vijaya Laxmi[3]

Assistant Professor Department of Computer Science and Engineering[1,2,3]

Christu Jyothi Institute of Technology and Science, Jangaon, India

Abstract: *Industry started providing the services in the form of function executions and charge the clients based on the execution time and not on the machine idle time. This change the paradigm change the way in which people started looking at cloud computing. In this paper we survey on many things which are not known to the user when they are using the platforms like AWS lambda, IBM Open Whisk and Microsoft Azure Funtions, Google cloud functions as the payment model. How the runtime is brought and saved back upon the policy of the service provider in Serverless cloud computing function as a service platforms.*

Keywords: Function as a Service, Serverless Computing, Service Platforms.

REFERENCES

[1]. Emerging Trends, Techniques and Open Issues of Containerization: A Review

[2]. Junzo WATADA1, IEEE Senior Member; Arunava ROY2; Ruturaj KADIKAR3; Hoang PHAM4, IEEE Fellow; and Bing XU

[3]. Key Characteristics of a Container Orchestration Platform to Enable a Modern Application Asif Khan, Amazon Web ServicesIEEE CLOUD COMPUTING PUBLISHED BY THE IEEE COMPUTER SOCIET Y

[4]. 2325-6095/17/$33.00 © 2017IEEE

[5]. Serverless Computing: An Investigation of Factors Influencing Microservice Performance. Wes Lloyd, Shruti Ramesh, Swetha Chinthalapati, Lan Ly, Shrideep Pallickara

[6]. FunctionBench : A Suite of Workloads for Serverless Cloud Function Service Jeongchul Kim College of Computer Science Kookmin University, South Korea kjc5443@kookmin.ac.kr Kyungyong Lee College of Computer Science Kookmin University, South Korea leeky@kookmin.ac.kr

[7]. Estimating Cloud Application Performance Based on Micro-Benchmark Profiling Joel Scheuner Software Engineering Division Chalmers | University of Gothenburg Gothenburg, Sweden scheuner@chalmers.se Philipp Leitner Software Engineering Division Chalmers | University of Gothenburg Gothenburg, Sweden philipp.leitner@chalmers.se

[8]. Serverless Computing: An Investigation of Factors Influencing Microservice Performance Wes Lloyd, Shruti Ramesh, Swetha Chinthalapati, Lan Ly, Shrideep Pallickara

[9]. Cold Start Influencing Factors in Function as a Service Johannes Manner, Martin Endreß, Tobias Heckel and Guido Wirtz Distributed Systems Group University of Bamberg Bamberg, Germany

[10]. A Preliminary Review of Enterprise Serverless Cloud Computing (Function-as-a-Service) PlatformsTheo Lynn, Pierangelo Rosati, Arnaud Lejeune