

CLLOUD COMPUTING USABILITY IN MOBILE COMMUNICATION NETWORK

MRIDUL S. KUMAR, THOMAS KURUTHUKULANGARA & FOUSIYA K. K

Assistant Professor, Department of Computer Science and Engineering, Jyothi Engineering College,
Cheruthuruthy, Thrissur, Kerala, India

ABSTRACT

Cloud computing is a modern technology that makes computing power universally available and provides cloud utilities in resources acquisition. The integration of cloud computing into the mobile computing environment overcomes obstacles related to the performance, like storage and bandwidth to the communication network resources. We are witnessing a rapid adoption of smarter devices all around us, which brings with it orders of magnitude in heterogeneity. Here comes the challenge to optimize performance for devices that are so diverse in terms of energy consumption, processing power and communication capabilities.

We can extend the capabilities of mobile devices through cloud offloading. In this paper we briefly explain two applications that make use of cloud offloading to improve its performance as well as to save mobile battery lifetime. The first application is based on CBIR, Content Based Image Retrieval and the second one is a Cloud-based Mobile Social TV. In both the applications storage and other computations are offloaded into the cloud.

KEYWORDS: Mobile Cloud Computing, CBIR, IaaS, PaaS



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