

PERFORMANCE ENHANCEMENT OF THE SYSTEM THROUGH CLOUD COMPUTING

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ABSTRACT

The cloud is designated as a three-tier structure, specifically Infrastructure as a Service (IaaS), Platform as a Service (PaaS) and Software as a Service (SaaS) from low-layer to high-layer. In recent times PaaS is evolving quickly as a software development/ deployment environment for enterprise systems. An enterprise system commonly contains numerous subsystems to model a complex real business. The subsystems are frequently offered by service on the internet, or PaaS, and the developer of the enterprise system needs to select suitable PaaS providers to develop an effectual system. As the number of PaaS provider will rise, a challenging issue is how to select an appropriate combination of services, or PaaS, to construct a complex enterprise system. Furthermore, the enterprise system has firm requirements for the quality of service (QoS) as well as a budget restraint. Unfortunately no practical workaround to this complex problem is realized so far in the cloud computing environment.

In this paper we aim to propose a combinatorial auction-based marketplace mechanism for cloud computing services, which permits users to reserve capricious combination of services at wished timeslots, prices and quality of service. Our proposed mechanism supports enterprise users build workflow applications in a cloud computing environment, especially on the platform-as-a-service, where the users need to compose multiple types of services at diverse timeslots.

KEYWORDS: Infrastructure as a Service (IaaS), Software as a Service (SaaS), Platform as a Service (PaaS)