Quality of Service evaluation for service composition in cloud environment

**ABSTRACT:**

Recent years have seen the massive migration of enterprise applications to the cloud. One of the challenges posed by cloud applications is Quality-of-Service (QoS) management, which is the problem of allocating resources to the application to guarantee a service level along dimensions such as performance, availability and reliability.

Even though the cloud has greatly simplified the capacity provisioning process, it poses several novel challenges in the area of Quality-of-Service (QoS) management. QoS denotes the levels of performance, reliability, and availability offered by an application and by the platform or infrastructure that hosts it.

According to the costumers' requests, various types of services which have the same functionality with different non-functionality features, are delivered in the cloud environment that often should be combined to satisfy the customer's complex requests.

Service composition deals with generating new value-added services by merging some single existing services to provide an optimal composite service which includes formerly existing single and simple services aims to improve Quality of service (QoS).

To find the Quality of service (QoS) formed from combining existing single services we use dimensionality reduction and natural language processing.

**Keywords:**

* Quality of Service
* Cloud Service
* Cloud Computing
* Cloud Service Evaluation
* Performance

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