Abstract

In today’s cloud environment, multiple service providers are available; among these most favorable service should be allocated to consumers as per their requirement. By introducing software agents, consumer and the provider are negotiating with each other to meet the requirement. The exactly favorable market discovered using cloud ontology, which gives the similarities between consumer services and provider services. Based on similarity reasoning, compatibility reasoning and numerical reasoning multiple cloud services are extracted by agents. Agents can negotiate with providers by focused selection of contract based on service capability tables (SCT) of consumer, provider and broker agents. Agents can also supports parallel negotiation between consumer-broker and multiple broker-producers. Concurrent negotiation helps to understand the bargaining position of consumer and regression based coordination will be done at broker side by considering minimum amount of penalty. The result shows that RBC at broker side gives higher performance in terms of utility and approves proposal with minimum penalty fee. It gives best results as compare to traditional utility oriented coordination.
References


Index Terms

Computer Science
Information Sciences

Keywords

Cloud computing, Software agents, Concurrent negotiation Regression coordination.