A cloud platform adoption advisory tool for cloud computing adopters [1]

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Abstract:
The increasing maturity of cloud technologies produce increasing number of cloud computing resource vendors and services. More choices for cloud adopters also bring more complexities and challenges in selecting cloud products. Different application types (e.g.,
concurrent/communication/computing/data intensive
)may have distinct requirements, cost constraints and applicationspecified features
(e.g., data volume size/data
transfer velocity, communication/access frequency, computing intension).
Meanwhile, different cloud platforms have their unique strengths
and weaknesses in computational capacities, technologies, and pricing rules and strategies
(e.g., on demand/reserved/biding mode). The match between the diverse cloud capacities provisions
and application requirements require systematic and complex
knowledge for selecting cloud platform. It is not an easy task to make
a wise decision for the novices and even for experienced cloud users.
This research discusses the general measurement criteria, cost
evaluation models and platform/configuration selecting methods for
cloud computing. We also demonstrate a cloud platform adoptio
advisory tool as part of the ESIP Testbed projects. The web based
advisory tool can: 1) generate feasible cloud configuration solution
according to user inputs; 2) calculate and visually compare the cost
and capacities of the solutions; 3) make recommendation basedembedded evaluation mechanism.

Collaboration Area: Cloud Computing [3]

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