Abstract

Grid computing is an interconnected computer system, where machines share resources that are highly heterogeneous. Reliability is the probability that a process will successfully perform
its prescribed task without any failure at a given point of time. Hence, ensuring reliable transactions plays a vital role in grid computing. The main objective of the paper is to develop a reliable and robust two way trust model for the Grid system. Thus the goals of this proposed trust model are as follows. The Model should eliminate the incompatible and biased feedbacks of the recommenders. It should provide a two way trust mechanism so that the view points of both consumers and providers are taken care of. It should also tune the direct trust calculation to finer granularity by considering parameters such as context, job size and job complexity. Finally, it should provide a ranked list of providers, so that the initiator can choose the most trusted provider based on the availability. This proposed Model encompasses all the above said features and it provides the most trusted reliable provider.

Reference

A Model for Providing List of Reliable Providers for Grid Computing

Index Terms
Computer Science
Distributed Computing

Key words
Trust
Reputation
reliability