An Improved Trust Model to Detect Malicious Nodes in Cloud Environment

M Thenmozhi, Lakshmipriyaa Ponnusamy

Pondicherry Engineering College, Puducherry, India

A B S T R A C T

Cloud computing provides users with various computational resources which can be accessed from remote location. But there are several concerns related to the reliability of the cloud resources offered by the service providers. In this scenario trust helps the consumers for choosing the best and reliable service providers. At present situation trust evaluation has become one of the challenging issues for the enterprises. There may be collusive attackers that is, malicious users who could form groups in order to provide false trust values to one or more service providers to either increase or decrease the trust values of the service providers. To overcome such type of attack in a trust model this paper proposes an approach which identifies unusual changes in the trust values and use pair wise similarity measure to detect the targeted service providers based on which the collusive attackers can be identified by applying pattern mining technique.