Interaction Modelling using Trust and Recommendation in Cloud Computing Environment

Abstract

To ensure a secure computing in a cloud environment, recommendation and trust-based access control model is proposed. The proposed model allows calculation of direct trust and indirect trust based on recommendations. It handles cases where the requesting entity may have a past interaction experience or fresh entity without any past experience with the service. It includes the capability to cause human reasoning performance and can change by behavioral pattern modifications. Positive and negative threshold limits are used to handle malicious recommendation. The results of security mechanism so integrated with the proposed model against attacks such as bad mouthing attack, Sybil attack, and on-off behavior attack are verified.

References


Index Terms

Computer Science

Security
Keywords