Abstract

In recent years, cloud computing has been applied increasingly and most of the companies, have considered some kinds of cloud strategies to use in their organizations. Growing request for services causes overload on a single cloud. Cloud federation is an ideal solution to overcome continuous increasing requests by users. Identity management and access control are from challenging subjects of cloud federation which for has been offered approaches like identity federation, although it is not an optimum approach. There is needed a more effective, accurate and safe approach. This paper offered an approach to access control based on risk and trust parameters, depending on learning automata in cloud federation. Results of simulation shows that proposed approach prevents access of unauthorized user to the resources of federation by decreasing primary trust for novice user also by increasing risk for high sensitive resources.
ACCFLA: Access Control in Cloud Federation using Learning Automata

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Index Terms

Computer Science
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Cloud Computation  Access Control  Cloud Federation  Learning Automata.