عنوان مقاله:

HITCloud: Novel Hierarchical Model for Trust Management in Cloud Computing

محل انتشار:

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خلاصه مقاله:

Nowadays, due to growth and diversity of possessions(e.g. computers, mobile phones, smart cars, etc.), cloudcomputing has become popular among people. Users accesscloud for different reasons such as searching for information,downloading specific files, and executing remote applications.This designated technology takes advantage of a clusteredenvironment and multi-pathway of communication. This novelfield of computation requires a wise decision-maker on itspathway in which trust and reputation are two major issues onit. Moving data computing into Cloud presents severalsecurity issues for main structure, but it will be also much moreconvenient for users and customers in the way of theirutilizations. Therefore, it would be required to turn cloudsystem into precision mode, more than ever. The action ofdispatching jobs on nodes increase the vulnerability to attackthrough the non-estimated trustworthiness among nodes.In this paper we propose a novel effective model for cloud jobdistribution to have better decisions in its job switching andrescaling a hierarchical construction for security managementand dynamic control in the area where nodes are categorizedwithin. Our proposed system is based on job replica output forconsistency and higher monitoring on dispatcher; thus, withgrouping new sections, including trust on node, trust on region,and hierarchical trust on dispatcher. Dispatcher would be ableevaluate the current trust through several factors, such assatisfaction, reputation, and history of success. And finallychoosing the conducive service provider and switch the .jobalong

کلمات کلیدی:

cloud computing; integrity; reputation; trustmanagement; dispatcher; security; authorize