Abstract

Cloud computing acts as a computing paradigm that aims to provide huge amount of computing in a fully virtualized manner by aggregating resources and thus offering a single system view. Cloud Computing is also delivered as utility assuring customized and quality of service guaranteed computation environments for cloud users. While an enterprise organization is composed of different departments like finance, admin etc these departments are segregated as sub network zone which are thus interconnected via network. Securities are essential for authorization of storage and computing. In this paper we have proposed a privacy cheating discouragement and computation auditing approach that bridging secure storage and computation auditing in cloud. Privacy cheating discouragement is designated by verifier signature, batch verification and probabilistic sampling techniques.

References

1. Y. Bartal, A. Mayer, K. Nissim, and A. Wool, Firmato: a novel firewall management
2. E. S. Al-Shaer and H. H. Hammed, "Discovery of policy anomalies in distributed
4. E. S. Al-shaer and H. H. Hamed, "Firewall policy advisor for anomaly discovery and rule
editing," in Proc. IFIP/IEEE 8th International Symp. Integrated Netw. Management, pp. 17-30,
firewall modeling and analysis," in 27th IEEE Symp. Security Privacy, Oakland, CA, USA, May
2006.
6. A. X. Liu and M. G. Gouda, "Complete redundancy detection in firewalls," in Proc. 19th
2009.
high-level conflict-free firewall policy language for multi-domain networks," in Proc. 12th ACM
2007.
security analysis," in Proc. 15th IEEE International Conf. Workshop ECBS, Belfast, Ireland,
2008.
algorithm further improved," in Proc. 19th Annual
18. O. Dubois, P. Andre, Y. Boufkhad, and J. Carlier, SAT Versus UNSAT, Second DIMACS
19. L. Zhang and S. Malik, "Towards symmetric treatment of conflicts and satisfaction in
quantified Boolean satisfiability," in Proc. 8th International Conf. Principles Practice Constraint
20. S. Matsumoto and A. Bouhoula, "Automatic verification of firewall configuration with
respect to security policy requirements," in Proc. International Workshop Computational


Index Terms

Computer Science          Security

Keywords

Secure computation auditing; Secure storage; Privacy-cheating discouragement; Designated verifier signature; Batch verification; Cloud computing.