Abstract

In this paper, the new algorithm named Key Factor Authentication and Access Control (KFAAC) is used to ensure the security and access control of cloud services from the clients. Cloud and Web services becoming more popular in recent days. Instead of using offline applications peoples intended to use online applications and services with updated features with recent crisis. Providing best services to the client is becoming a major role for cloud service providers. In the same time better access restriction and authentication policy should be preserved. This proposed system Key Factor Authentication and Access Control provide better access security for the cloud clients. It uses Key Encryption Scheme to validate client to ensure their uniqueness. KFA is implemented and tested under cloud environment and it shows better access control and security.

References

1. Chunsheng Zhu, Student Member, IEEE, Hasen Nicanfar, Student Member, IEEE, Victor


4. Yinan Jing, Member, IEEE, Ling Hu, Wei-Shinn Ku, Senior Member, IEEE, and Cyrus Shahabi, “Authentication of k Nearest Neighbor Query on Road Networks”, Yinan Jing, Member, IEEE, Ling Hu, Wei-Shinn Ku, Senior Member, IEEE, and Cyrus Shahabi.


9. Qian Wang, Student Member, IEEE, Cong Wang, Student Member, IEEE, Kui Ren, Member, IEEE, Wenjing Lou, Senior Member, IEEE, and Jin Li, “Enabling Public Auditability and Data Dynamics for Storage Security in Cloud Computing”, IEEE TRANSACTIONS ON PARALLEL AND DISTRIBUTED SYSTEMS, VOL. 22, NO. 5, MAY 2011.

10. Smitha Sundareswaran, Anna C. Squicciarini, Member, IEEE, and Dan Lin, “Ensuring Distributed Accountability for Data Sharing in the Cloud”, IEEE TRANSACTIONS ON DEPENDABLE AND SECURE COMPUTING, VOL. 9, NO. 4, JULY/AUGUST 2012.


2.0 and Beyond: Trends and Technologies”, 2011.


24. Hong Liu, Student Member, IEEE, Huansheng Ning, Senior Member, IEEE, Qingxu Xiong, Member, IEEE, and Laurence T. Yang, Member, IEEE, “Shared Authority Based Privacy-preserving Authentication Protocol in Cloud Computing”, IEEE Transactions on Parallel and Distributed Systems, 2013.


27. Ling Hu, Student Member, IEEE, Wei-Shinn Ku, Senior Member, IEEE, Spiridon Bakiras, and Cyrus Shahabi, Senior Member, IEEE, “Spatial Query Integrity with Voronoi Neighbors”, IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, VOL. 25, NO. 4, APRIL 2013.


Index Terms

Computer Science Distributed Systems
Keywords

Access Control, Web services, Cloud Security, DES encryption, privacy preserving authentication, Cloud Service security.