Abstract

Clouds are becoming an interesting alternative to dedicated IT infrastructure. The advantages of cloud computing are appealing, but it also carries certain degree of risk for its customers as well as the cloud service providers. There is a lack of trust in cloud by potential customers which acts as a barrier in widespread adoption of cloud computing technology. In order to increase trust in cloud, we need to make clouds transparent and accountable. However, current systems do not provide full transparency and accountability. They are unable to track user activities and data transfers effectively within cloud environment. In this paper we propose a framework which achieves accountability by generating logs for every user activity, further we provide a secure logging mechanism for safeguarding of logs, thus protecting confidentiality of users and integrity of logs from dishonest cloud providers.

References

Achieving Accountability and Secure Logging to Increase Trust in Cloud Environment


Index Terms

Computer Science
Security
Keywords
Cloud computing logging accountability trusted cloud detective mechanism files centric logging

cloud forensics