A modified security mechanism for cloud computing environment based on private key mechanism is presented in this paper. Typically, users will know neither the exact location of their data nor the other sources of the data collectively stored with theirs. The data can find in a cloud ranges from public sources which have minimal security concerns to private data containing which has highly sensitive information (such as social security numbers, medical records, or shipping manifests for hazardous material). It provides trust-overlay network over multiple data centers to implement a reputation system for establishing trust between service providers and data owners. To overcome these problems, data coloring and watermarking techniques are used to protect shared data objects and massively distributed software modules. These techniques safeguard multi-way authentications, enable single sign-on in the cloud, and tighten access control for sensitive data in both public and private clouds.

References

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Index Terms

Computer Science

Security

Keywords

cloud computing watermarking Data coloring social security multi-way authentications