



RESEARCH ARTICLE

POLICY BASED FILE ASSURED DELETION WITH SECURE OVERLAY CLOUD STORAGE

M. Geetha¹, V. Ravi kumar²

PG Scholar, Department of Software Engineering, TKR College of Engineering and Technology,
Hyderabad, A.P-500 097, India

Email: geethareddy.it@gmail.com

Associate Professor, Department of Software Engineering, TKR College of Engineering and
Technology, Hyderabad, A.P-500 097, India

Abstract: *The outsource data backup to third-party cloud storage services so as to reduce data management costs, security concerns arise in terms of ensuring the privacy and integrity of out-sourced data. Design Policy Base a practical, implementable, and readily deployable cloud storage system that focuses on protecting deleted data with Policy Based file secured deletion. Policy Base is built upon standard cryptographic techniques, such that it encrypts outsourced data files to guarantee their privacy and integrity, and most importantly, securely deletes files to make them unrecoverable to anyone upon revocations of file access policies. In particular, the design of Policy Base is geared toward the objective that it acts as an overlay system that works seamlessly atop today's cloud storage services. To demonstrate this objective, we implement a working prototype of Policy Base atop Amazon S3, one of today's cloud storage services, and empirically show that Policy Base provides Policy Based file secured deletion with a minimal trade-off of performance overhead. It provides insights of how to incorporate value-added security features into current data outsourcing applications.*

Key words: *Policy Based file secured deletion, cloud storage, prototype, implementation*

Full Text: <http://www.ijcsmc.com/docs/papers/November2013/V2I11201369.pdf>