A Novel Approach for an Enhanced Oruta with Data Freshness

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Abstract

Cloud computing has become an emerging service because of the ease of its use. Its vast usage has raised some serious issues. When cloud has become a large storage for the data, the security and integrity have become most serious issues. Users must be concerning with the data stored remotely. Many auditing schemes have been introduced for public auditing which audits data without downloading the whole data. Among them, Oruta is privacy preserving public auditing scheme which uses ring signature that audits data with identity privacy. But Oruta lacks with data freshness, batch auditing and traceability. We have introduced an enhanced scheme which enables data freshness within Oruta. Data freshness is to update data with the latest one.

References


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Index Terms

Computer Science Databases
Keywords

Cloud computing, Shared Data, public auditing, identity, privacy, Data Freshness