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Software Testing in Cloud Storage

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Abstract: *Cloud storage has become a crucial component of modern data management, but its reliability and efficiency are crucial concerns. This paper proposes a comprehensive framework for testing cloud storage services, focusing on performance, security, and scalability. Our approach leverages a combination of functional, performance, and security testing techniques to ensure data integrity, availability, and confidentiality. We also introduce a novel testing methodology that simulates real-world workloads and stress scenarios to evaluate cloud storage resilience. Experimental results show that our framework can effectively identify performance bottlenecks, security vulnerabilities, and scalability limitations in cloud storage services. Our work provides a valuable contribution to the development of reliable and efficient cloud storage solutions, enabling organizations to make informed decisions when selecting cloud storage providers.*

Keywords: Cloud Storage, Testing Framework, Performance, Security, Scalability, Reliability, Efficiency

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