## Distributed, Concurrent, and Independent Access to Encrypted Cloud Databases

Luca Ferretti, Michele Colalanni, and Mirco Marchetti

Abelrack - Planting critical lists of the hands of a clinical provider whould come with the guarantee of security and evaluability for data of regit, in tradition, and in uses. Several alternatives exist for introde services, while state confidentially solutions for the distatuses as a service bandigm are still immplure. We propose a movel profrienture that integrates ploud database services with data confidentiality and the possibility of executing concurrent operations on encrypted data. This is the first adultion supporting peopraphically distributed plants to connect directly to an encrypted cloud detabase, and to execute concurrent and independent operations including those modifying the detained attactive. The propriet architecture has the further advertige of alconoming intermediate provide that the attentivity, availability, and acabatility properties that are intrinsic in cloud based antidoxe. The efficiety of the proposed antidoxes is evaluated Prough Expostrual analyses and extensive experimental results based on a prototype implementation subject to the TPC C. plandard benchmark for different numbers of clients and network latenties.

broken Favore - Church instructio confidentiality, SecureOthanti, statebases

#### **BYTHODUCTION**

is a chood construct, where critical information is placed in Indepetructures of untrasted third parties, ensuring data considerationity is of quaturement importance III, IZI, This responsement imposes clear data management efficiency original plain data must be accessible only by trusted. parties that do not include clinal providers, interpodiaries. and betreet, in my untrusted control, data must be encrypted. Setisfying these goals has different levels of complexity depending on the type of cloud service. There are serveral reductions enseating consideratiality for the storage as a service paradigms in a., 174, 143, 1745, whole guaranteeting condidentiality in the detabase as a service (DBAAN) paradigm. [64] in still are appear remembers areas. In this constent, we propose SecureOfficeS as the first solution that allower cloud terrants to take full advantage of DBac5 qualities, such as availability, reliability, and elastic scalability, without expensing towers repried data in the should provider.

The declnitecture design was multivated by a threefold goalt to allow imultiple, independent, and geographically distributed clients to execute concurrent operations on encrypted data, including SQE statements that modify the database structure; to preserve data confidentiality and consistency at the client and cloud levels to eliminate any intermediate server between the cloud client and the cloud provides. The possibility of combining availability, classicity, and acalebility of a typical cloud Diluid with data confidentiality is clemenstrated through a printetype of SequerERBach that supports the execution of concurrent and independent operations to the remote encrypted statabase from many goographically distributed clients as in any unerscripted Dilacti setup. To achieve these goals. Secure-180-us5 integrates existing cryptographic schemes. incitations impolarization, and remed strategies for imanagement of encrypted metadata on the untracted cloud database. This paper contains a theoretical discussion about solutions for data consistency issues due to concurrent and independent ellient accesses to encrypted data. In this context, we cannot appily fully homomorphic encryption schemes [7] because of their excessive computational complexity.

The Section-Disary architecture in tailound in cloud pilatinems and does not introduce any intermediary prosyor broker servey between the client and the cloud provider. Eliminating any trusted intermediate server allows SecondBlack to achieve the same availability, reliability, and elasticity levels of a cloud Dilact. Other proposals in g. Dt. Dt. 1101, 1110 based on interemulator perverta) were considered impracticable for a cloud-based solution because any proxy represents a single point of failure and a system bestfarreck that limits the main beweetite (e.g., scalability, availability, and elasticity) of a statabase service deplexed on a cloud pitations. Unlike Section-DBaats, architectures polyting on a treated intermediate pressy allo not support the quant typical cloud semantowhere propraghically dispersed clients can concurrently ineast tread/write operations and data structure modificatitionic too a clicked chatabases.

As harner next set exprecionacests, basses from result objects reliently come. demonstrate that SecureDBlack is immediately applicable to any DBMS because it requires no modification to the sloud database services. Other studies where the proposed architecture is subject to the TPC-C standard benchmark for different numbers of clients and network latericies above that the performance of concurrent read and write operations not mudifying the SecureOfficall database

<sup>·</sup> The positions are point the Abstraction of Abstinus and Bogges Continues Figurator 1950, Madrae 41121, Italy, Frank Sheafmann, and all collegations), make in attach the MCDD and regions A.

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