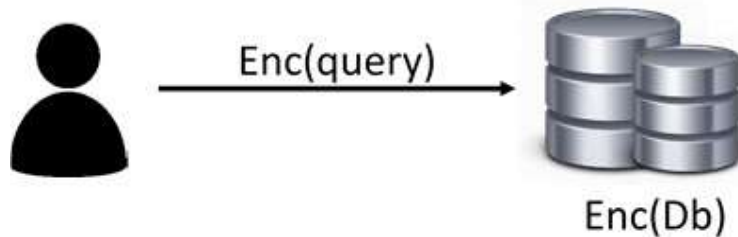


Secure Search on Encrypted Data

There has been a significant growth in the interest to outsource data as well as operational services to clouds. Data outsourcing deprives the data owners of direct control over their data and this introduces new privacy risks. Data encryption has been introduced to address the data confidentiality issue. However, the management of encrypted data poses several challenges, the most important one is data usability in which the data owner should have the ability to query to obtain the useful data when needed.

In this project, we study an important class of data operation on encrypted data: secure search query. Our research supports different searching queries including general boolean keyword query, multidimensional query, the anonymous credential for public key search. Our solutions aim to provide rigorous privacy guarantee on the encrypted data operations such as query privacy, access pattern, etc



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