

CAREER: Secure and Privacy-assured Data Service Outsourcing in Cloud Computing



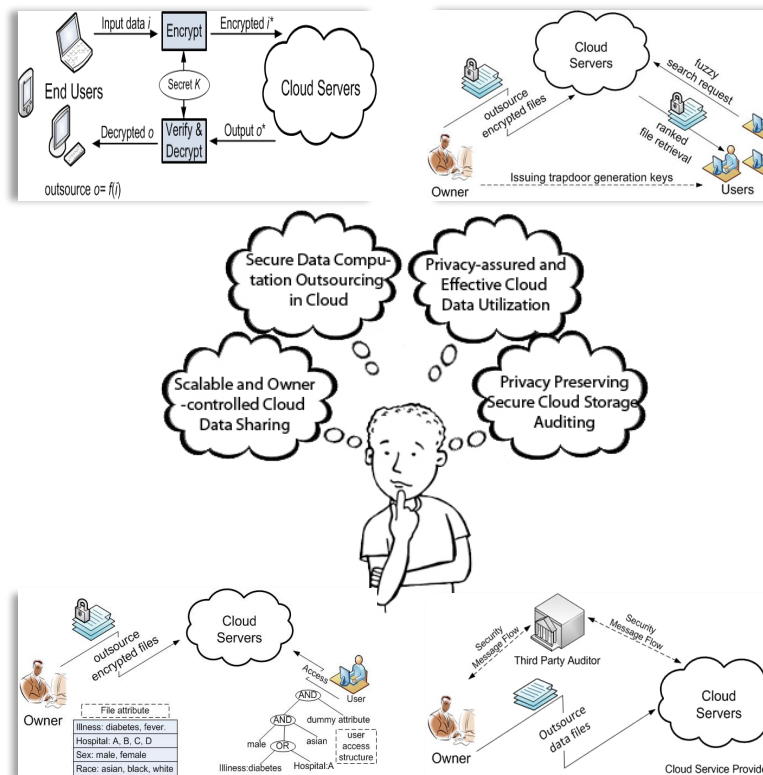
University at Buffalo
The State University of New York

Challenge:

- Outsourcing data services deprives customers' direct control over the data.
- Security and privacy risks are the primary obstacles to the wide adoption of the cloud.

Solution:

- Deploying fundamental data services, including computing, sharing, storage, and utilization.
- Achieving balanced security, usability, and scalability.



Scientific Impact:

- Exploring and developing privacy-assured cloud data utilization and computing, scalable and owner-controlled cloud data sharing, and secure cloud storage mechanisms.

Broader Impact:

- Enabling cloud service providers to deliver value from the cloud infrastructure to both enterprise and individual customers securely and effectively.
- Developing diversified curriculum and research experiences for student from K-12 to the graduate level.

Award Number: CNS-1262277

Principle Investigator: Kui Ren

Contacts: kui ren@buffalo.edu