

Genomes in the cloud: Dependable please, but affordable!

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Problem

How to properly store large sets of human genomes at an affordable cost?

Private infrastructures:

- Limited scalability
- High maintenance costs

Public cloud:

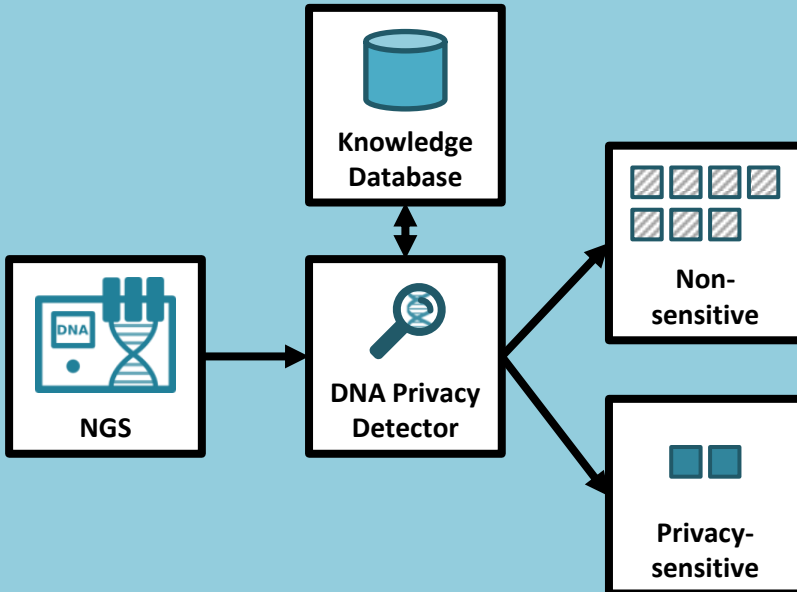
- Infinite scalability
- Pay-as-you-go
- Security, privacy, and availability incidents

Objective

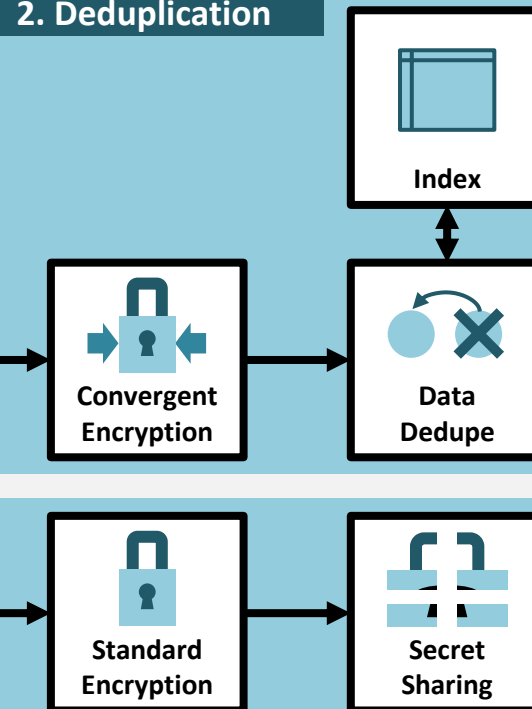
Enhance the **cloud-based storage ecosystem** with **privacy-awareness** and **cost-effective** mechanisms to **make dependability affordable** and **increase the trust in cloud-based** solutions.

Methodology

1. Detection



2. Deduplication



3. Cloud Storage

