

# A Privacy-Friendly Architecture for the Data Track Utilizing Cloud Storage

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**Abstract.** The Data Track is a user-side transparency-enhancing tool that provides users with a history function documenting what personal data the user has revealed to whom under which conditions. Also, the Data Track provides functions that allow users to access their personal data at the remote services side online. Our current research focuses on designing and implementing a secure privacy-friendly architecture for the Data Track which allow the Data Track to utilize cloud storage. As part of this research we have evaluated several commercial and academic cloud storage services to determine how suitable they are for our needs. Our results have uncovered shortcomings in current cloud storage services that have negative consequences on the privacy of the users of these services. In our presentation, we will present several privacy threats for users of cloud storage services, and provide an overview of the architecture and some initial design decisions made for our privacy-friendly architecture for the Data Track.

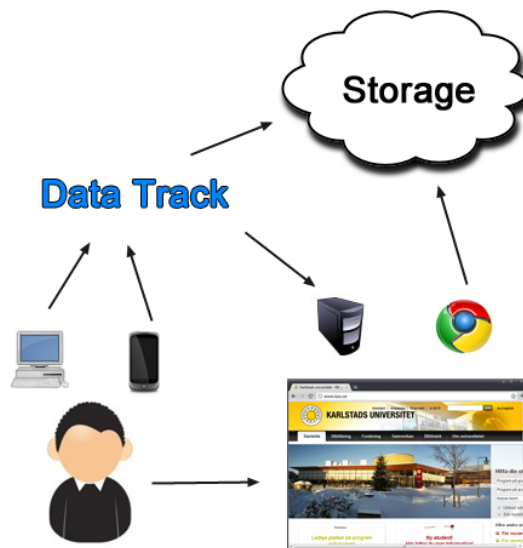


Fig. 1: The setting for the Data Track utilizing cloud storage.