Privacy-Friendly Cloud Storage for the Data Track
An educational transparency tool

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Abstract. The Data Track is a transparency-enhancing tool that aims to educate users by providing them with an overview of all their data disclosures. In this paper we describe a scheme for storing all data disclosures tracked by the Data Track in the cloud in a privacy-friendly way. Our scheme allow users to store their data anonymously, while keeping the cloud provider accountable with regard to the integrity of the data. Furthermore, we introduce a separation of concerns for the different components of the Data Track, well suited for tracking data disclosures from semi-trusted devices that may become compromised.

Keywords: privacy by design, anonymity, cloud storage, transparency, accountability.
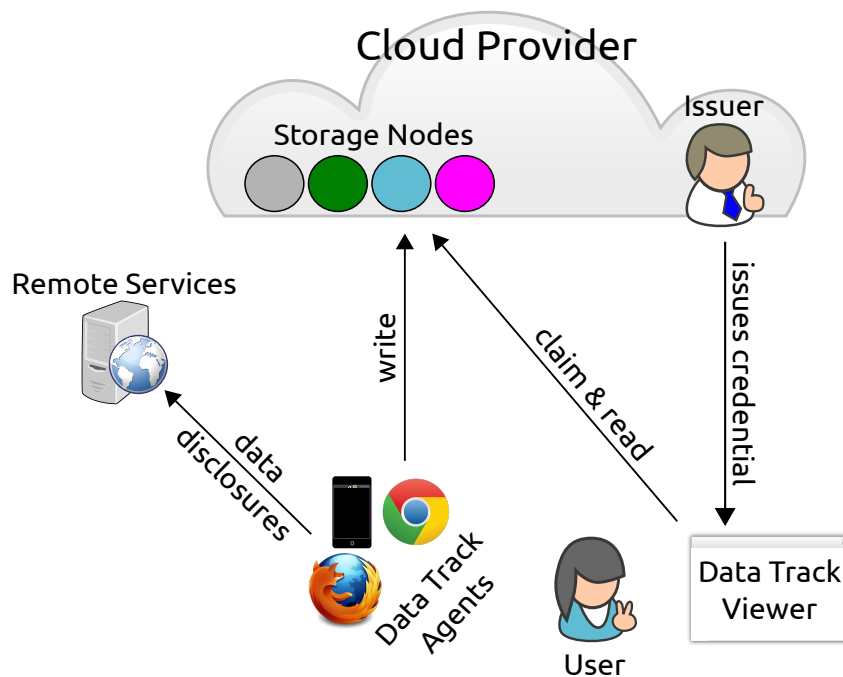
Fig. 1: Overview of the setting for the Data Track using cloud storage