

Secure and Safe Programming for the Cloud

Ronan-Alexandre Cherrueau

May 25, 2013



- Part of Cloud Accountability Project (A4Cloud)
- European project
- Lead by HP



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- What is Accountability in Cloud infrastructure?
- How to track Accountability in Cloud infrastructure?

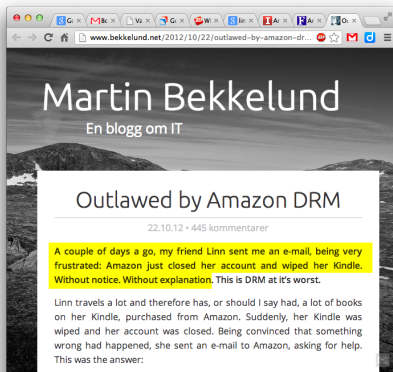


Figure : Deletion of Amazon Account

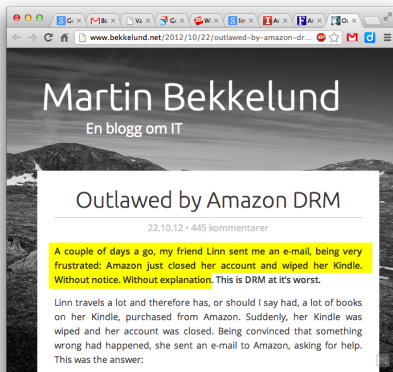


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Service Providers control your data access

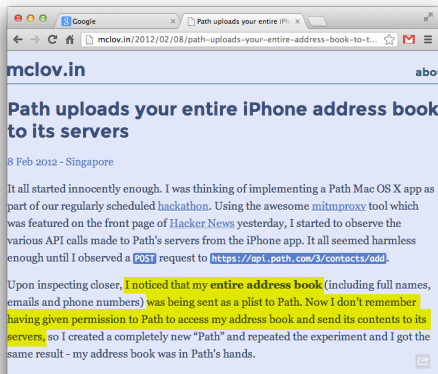


Figure : Thief of Address Book

Examples of Misuse



Figure : Thief of Address Book

Service Providers control your data usage

Accountability is a requirement

Service providers have to account:

- Access and Usage Control
- Data location
- Data retention period
- Data privacy preference
- Client Anonymity/Pseudonymity
- ...

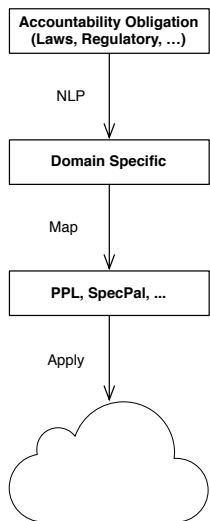
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Accountability is ability to account data usage and protection in cloud infrastructure

How to do Accountability



- 1 Define AO Requirements
- 2 Transform AO into Domain Specific
- 3 Map Domain Specific to existing and new Protocols
- 4 Apply Protocols on Cloud Applications to track Accountability