

Getting to terms with the Brave new world of Data

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Orchestrating a brighter world

NEC brings together and integrates technology and expertise to create the ICT-enabled society of tomorrow.

We collaborate closely with partners and customers around the world, orchestrating each project to ensure all its parts are fine-tuned to local needs.

Every day, our innovative solutions for society contribute to greater safety, security, efficiency and equality, and enable people to live brighter lives.

Getting to terms with data

- Securing PII
- Securing data → company assets
- The new world of AI

Securing PII

- GDPR: This is an awareness problem that needs to be tackled at CEO level
- GDPR is an **opportunity for Europe** to provide “Europe-grade” services world-wide as a differentiating factor
- **Technologies are already available** based on EU funded research! We don't need to wait!
- TDL is starting “sprints” to **make such EU-based results available** (e.g. ABC4Trust - federation and interchangeability of trustworthy yet privacy-preserving Attribute-based Credentials)
→ focus of the sprints is to make the results easy to use, such as via dockerization

Securing Assets: the Cloud still a Risk



The Cloud Security Alliance (CSA) is a not-for-profit organization with a mission to promote the use of best practices for providing security assurance within Cloud Computing, and to provide education on the uses of Cloud Computing to help secure all other forms of computing. The Cloud Security Alliance is led by a broad coalition of industry practitioners, corporations, associations and other key stakeholders.



Cloud Computing Threats

1. Data Breaches
2. Data Loss

The US government is fighting with / access to data



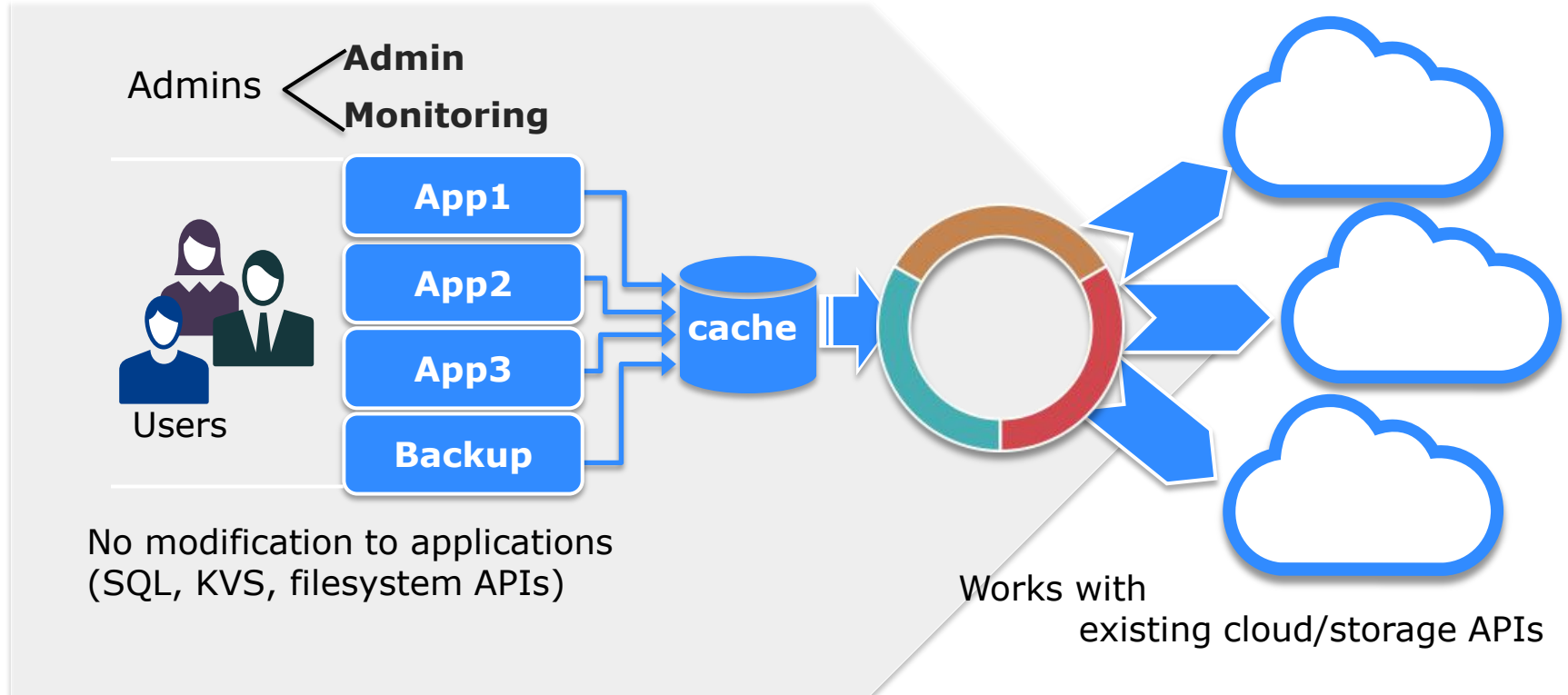
Tim Cook, Apple CEO, at a Senate hearing in 2013.



"Google loses data as lightning strikes", BBC.com, 19.08.2015

Securing Assets: Dealing with Cloud Risks

NEC approach that fits easily into existing systems



Protect against loss of key and a subset of clouds being completely compromised (inside attach)

Proof that data is still there and automatic correction against failure of some clouds or data corruption in clouds

The new world of AI

- Not just a data protection risk: AI will be using input data and features prepared by humans
- We may end up with a pseudo-rationality of machines that has incorporated human prejudices without seeming to be so → This is a regulation issue that requires a political solution
- Data Protection: AI will Re-identify individuals and thus break existing privacy solutions → New research field that should be high on the agenda

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