

Crypto-Book: An Architecture for Privacy Preserving Online Identities

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ABSTRACT

Through cross-site authentication schemes such as OAuth and OpenID, users increasingly rely on popular social networking sites for their digital identities—but use of these identities brings privacy and tracking risks. We propose Crypto-Book, an extension to existing digital identity infrastructures that offers privacy-preserving, digital identities through the use of public key cryptography and ring signatures. Crypto-Book builds a privacy-preserving cryptographic layer atop existing social network identities, via third-party *key servers* that convert social network identities into public/private key-pairs on demand. Using linkable ring signatures, these key-pairs along with the public keys of other identities create unique pseudonyms untraceable back to the owner yet can resist anonymous abuse.

Our proof-of-concept implementation of Crypto-Book creates public/private key pairs for Facebook users, and includes a private key pickup protocol based on E-mail. We present Black Box, a case study application that uses Crypto-Book for accountable anonymous whistle-blowing. Black Box allows users to sign files deniably using ring signatures, using a list of arbitrary Facebook users – who need not consent or even be aware of this use – as an explicit anonymity set.

Categories and Subject Descriptors

C.2.0 [Computer-Communication Networks]: General — Security and protection; H.3.5 [Information Storage and Retrieval]: Online Information Services — Web-based services

General Terms

Design, Security

Keywords

Anonymity, anonymous communications, authentication, online social networks

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1. INTRODUCTION

Social networks have gained widespread popularity among users as a means to managing their online identity; however, growing concern exists regarding online privacy. The extensive deployment of cross site authentication protocols such as OAuth [12] and OpenID [24] have simplified the processing of managing online identity across multiple sites. The unfortunate side effect, enables a user's online activity to be tracked more easily presenting a greater risk to online privacy.

We propose to leverage popular existing social network identities such as Facebook, but augment them with an additional cryptographic layer that enables more privacy-preserving uses of these existing identities. We distribute this privacy-preserving layer through one or more *key servers*, which could in principle be run either by the social networking sites themselves or by independent third-party organizations. These key servers convert social network identities into public/private key-pairs. Users can then employ these keypairs in privacy-preserving, anonymous cryptographic protocols, through the use of ring signatures [26, 18] for example. We demonstrate these capabilities via Black Box, a case study for a deniable whistleblowing application.

We use an *antrust* [33] (see Section 3.1) cloud of key servers that collaboratively assign key pairs to each social network identity. Users need only assume that at least one of these key servers is trustworthy, but need not know or care which one. All the other servers may be compromised without breaking the user's privacy protection. Users obtain their private key by authenticating with each of the key servers via OAuth. Each key server generates only one part of the user's private key; the user's client machine then combines these parts to obtain his full private key.

Any user can on demand request not only his own but any set of other users' public keys from these key servers. The public keys can then be used in arbitrary privacy-preserving cryptographic protocols that rely on public/private keypairs. In Crypto-Book, for example, a user can request several others' public keys from the key servers, then use these public keys together with his

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Cryptocurrencies and Blockchain Technology Applications Gulshan Shrivastava, Dac-Nhuong Le, Kavita Sharma, 2020-05-26 As we enter the Industrial Revolution 4.0 demands for an increasing degree of trust and privacy protection continue to be voiced. The development of blockchain technology is very important because it can help frictionless and transparent financial transactions and improve the business experience which in turn has far-reaching effects for economic, psychological, educational, and organizational improvements in the way we work, teach, learn, and care for ourselves and each other. Blockchain is an eccentric technology but at the same time the least understood and most disruptive technology of the day. This book covers the latest technologies of cryptocurrencies and blockchain technology and their applications. This book discusses the blockchain and cryptocurrencies-related issues and also explains how to provide the security differently through an algorithm framework, approaches, techniques, and mechanisms. A comprehensive understanding of what blockchain is and how it works, as well as insights into how it will affect the future of your organization and industry as a whole and how to integrate blockchain technology into your business strategy. In addition, the book explores the blockchain and its relationship with other technologies like Internet of Things, big data, and artificial intelligence, etc. **Trust,**

Privacy, and Security in Digital Business Steven Furnell, Costas Lambrinouidakis, Javier López, 2013-08-23 This book constitutes the refereed proceedings of the 10th International Conference on Trust and Privacy in Digital Business (TrustBus 2013) held in Prague, Czech Republic, in August 2013, in conjunction with DEXA 2013. The 16 revised full papers presented were carefully reviewed and selected from numerous submissions. The papers are organized in the following topical sections: access control and authentication; identity and trust management; privacy and confidentiality management; information systems security; security policies; legal issues; and trust and privacy in mobile and pervasive environments. *Assessing and addressing health inequities and disparities: The role of health informatics* Gulzar H. Shah, Anjum Khurshid, 2023-04-14

Machine Learning Techniques for Online Social Networks Tansel Özyer, Reda Alhajj, 2018-05-30 The book covers tools in the study of online social networks such as machine learning techniques, clustering, and deep learning. A variety of theoretical aspects, application domains, and case studies for analyzing social network data are covered. The aim is to provide new perspectives on utilizing machine learning and related scientific methods and techniques for social network analysis. Machine Learning Techniques for Online Social Networks will appeal to researchers and students in these fields. **Artificial Intelligence Using Federated Learning** Ahmed A. Elngar, Diego Oliva, Valentina E. Balas, 2024-12-30 Federated machine learning is a novel approach to combining distributed machine learning, cryptography, security, and incentive mechanism design. It allows organizations to keep sensitive and private data on users or customers decentralized and secure, helping them comply with stringent data protection regulations like GDPR and CCPA. **Artificial Intelligence Using Federated Learning: Fundamentals, Challenges, and Applications** enables training AI models on a large number of decentralized devices or servers.

making it a scalable and efficient solution It also allows organizations to create more versatile AI models by training them on data from diverse sources or domains This approach can unlock innovative use cases in fields like healthcare finance and IoT where data privacy is paramount The book is designed for researchers working in Intelligent Federated Learning and its related applications as well as technology development and is also of interest to academicians data scientists industrial professionals researchers and students

Security and Privacy in Social Networks Yaniv Altshuler, Yuval Elovici, Armin B. Cremers, Nadav Aharony, Alex Pentland, 2012-08-14 Security and Privacy in Social Networks brings to the forefront innovative approaches for analyzing and enhancing the security and privacy dimensions in online social networks and is the first comprehensive attempt dedicated entirely to this field In order to facilitate the transition of such methods from theory to mechanisms designed and deployed in existing online social networking services the book aspires to create a common language between the researchers and practitioners of this new area spanning from the theory of computational social sciences to conventional security and network engineering

Integrating Cloud, Fog, and Edge Computing in Healthcare: Federated Learning and Blockchain Approaches Naweena Kumar, Shailendra Pratap Singh, Balamurugan Balusamy, Prithi Samuel, Chander Prabha, 2026-01-01 This book discusses how Cloud Fog and Edge computing alongside federated learning and blockchain are revolutionizing healthcare systems by addressing the challenges of data management privacy and efficiency Targeted at healthcare technology researchers professionals and advanced students it explores how these technologies enhance patient care data security and organizational effectiveness The book provides a detailed overview of how Cloud Fog and Edge computing work in healthcare focusing on real time data processing and secure data sharing It covers integrating federated learning for privacy preserving AI models blockchain for ensuring data integrity and the technical and regulatory challenges of implementing these systems in healthcare settings Real world case studies illustrate successful applications while practical advice helps navigate common obstacles A must read for anyone involved in healthcare delivery research or policy this book offers invaluable insights into the future of healthcare technology It equips healthcare professionals and technologists with the knowledge to leverage these emerging tools to improve patient outcomes safeguard electronic health records and streamline healthcare delivery systems

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Applications of Blockchain and Big IoT Systems Arun Solanki, Vishal Jain, Loveleen Gaur, 2022-08-29 This new volume explores a plethora of blockchain based solutions for big data and IoT applications looking at advances in real world applications in several sectors including higher education cybersecurity agriculture business and management healthcare and biomedical science construction and project management smart city development and others Chapters explore emerging technology to combat the ever increasing threat of security to computer systems and offer new architectural solutions for problems encountered in data management and security The chapters help to provide a high level of understanding of

various blockchain algorithms along with the necessary tools and techniques The novel architectural solutions in the deployment of blockchain presented here are the core of the book

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Blockchain for Information Security and Privacy Udai Pratap Rao,Piyush Kumar Shukla,Chandan Trivedi,Sweta Gupta,Zelalem Sintayehu Shibeshi,2021-11-30 Distributed and peer to peer P2P applications are increasing daily and cyberattacks are constantly adopting new mechanisms to threaten the security and privacy of users in these Internet of Things IoT environments Blockchain a decentralized cryptographic based technology is a promising element for IoT security in manufacturing finance healthcare supply chain identity management e governance defence education banking and trading Blockchain has the potential to secure IoT through repetition changeless capacity and encryption Blockchain for Information Security and Privacy provides essential knowledge of blockchain usage in the mainstream areas of security trust and privacy in decentralized domains This book is a source of technical information regarding blockchain oriented software and applications It provides tools to researchers and developers in both computing and software engineering to develop solutions and automated systems that can promote security trust and privacy in cyberspace

FEATURES Applying blockchain based secured data management in confidential cyberdefense applications Securing online voting systems using blockchain Safeguarding electronic healthcare record EHR management using blockchain Impacting security and privacy in digital identity management Using blockchain based security and privacy for smart contracts By providing an overview of blockchain technology application domains in IoT e g vehicle web power web cloud internet and edge computing this book features side by side comparisons of modern methods toward secure and privacy preserving blockchain technology It also examines safety objectives efficiency limitations computational complexity and communication overhead of various applications using blockchain This book also addresses the combination of blockchain and industrial IoT It explores novel various levels of information sharing systems

Security and Privacy in Web 3.0 Meng Shen,Xiangyun Tang,Wei Wang,Liehuang Zhu,2024-09-01 Web 3 0 is the next generation of the Internet built on decentralized technologies such as blockchain and cryptography It is designed to address issues encountered in the previous generation of the Internet such as imbalanced distribution of interests monopoly of platform resources and leakage of personal privacy This book explores the challenges and solutions related to ensuring security and privacy in the context of the evolving Web 3 0 architecture Web 3 0 represents the next generation of the web characterized by decentralized networks blockchain technology and enhanced user control over data As Web 3 0 evolves the focus on addressing security and privacy concerns becomes increasingly crucial This book provides a comprehensive understanding of the security and privacy issues specific to Web 3 0 and offers practical defense frameworks and methods to mitigate these challenges This book is dedicated to the specific aspects of security and privacy in Web 3 0 from introducing the architecture and addressing the inherent issues to presenting innovative methods for privacy

preserving computing user behavior identification and abnormal transaction detection It is of particular interest to researchers in the field of Web 3.0 blockchain and network security as it summarizes the security and privacy concerns in Web 3.0 and brings a number of innovative technologies and practical solutions to protect sensitive data and maintain user privacy in Web 3.0 environments equipping researchers with the knowledge necessary to design secure and privacy aware applications and systems in Web 3.0

High Performance Privacy Preserving AI Jayavanth Shenoy,Patrick Grinaway,Shriphani Palakodety,2024-04-09 The ebook edition of this title is Open Access and freely available to read online Intended for researchers in academia and R D engineers in industry explains how advances in three areas AI privacy preserving techniques acceleration allows us to achieve the dream of high performance privacy preserving AI

Proceedings ,2004 **Documentation Abstracts** ,1984 Dissertation Abstracts International ,2005 **Data Privacy Management, Cryptocurrencies and Blockchain Technology** Cristina Pérez-Solà,Guillermo Navarro-Arribas,Alex Biryukov,Joaquin Garcia-Alfaro,2019-09-20 This book constitutes the refereed conference proceedings of the 14th International Workshop on Data Privacy Management DPM 2019 and the Third International Workshop on Cryptocurrencies and Blockchain Technology CBT 2019 held in conjunction with the 24th European Symposium on Research in Computer Security ESORICS 2019 held in Luxembourg in September 2019 For the CBT Workshop 10 full and 8 short papers were accepted out of 39 submissions The selected papers are organized in the following topical headings lightning networks and level 2 smart contracts and applications and payment systems privacy and mining The DPM Workshop received 26 submissions from which 8 full and 2 short papers were selected for presentation The papers focus on privacy preserving data analysis field lab studies and privacy by design and data anonymization Chapter 2 Integral Privacy Compliant Statistics Computation and Chapter 8 Graph Perturbation as Noise Graph Addition a New Perspective for Graph Anonymization of this book are available open access under a CC BY 4.0 license at link springer.com **Building Privacy-preserving Cryptographic Credentials from Federated Online Identities** John Maheswaran,2015

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