

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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November 21–22, 2013, College Park, MD, USA.
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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 *anytrust* [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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**Sushil Jajodia, Association for
Computing Machinery (États-Unis).**

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Blockchain: Empowering Secure Data Sharing Meng Shen, Liehuang Zhu, Ke Xu, 2020-07-15 With the development of big data data sharing has become increasingly popular and important in optimizing resource allocation and improving information utilization However the expansion of data sharing means there is an urgent need to address the issue of the privacy protection an area where the emerging blockchain technology offers considerable advantages Although there are a large number of research papers on data sharing modeling and analysis of network security there are few books dedicated to blockchain based secure data sharing Filling this gap in the literature the book proposes a new data sharing model based on the blockchain system which is being increasingly used in medical and credit reporting contexts It describes in detail various aspects of the model including its role transaction structure design secure multi party computing and homomorphic encryption services and incentive mechanisms and presents corresponding case studies The book explains the security architecture model and the practice of building data sharing from the blockchain infrastructure allowing readers to understand the importance of data sharing security based on the blockchain framework as well as the threats to security and privacy Further by presenting specific data sharing case studies it offers insights into solving data security sharing problems in more practical fields The book is intended for readers with a basic understanding of the blockchain infrastructure consensus mechanisms smart contracts secure multiparty computing homomorphic encryption and image retrieval technologies

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 with other technologies like Internet of Things big data and artificial intelligence etc

Trust, Privacy, and Security in Digital Business Steven Furnell, Costas Lambrinoudakis, 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

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

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

Proceedings of the 2003 ACM Workshop on Privacy in the Electronic Society Sushil Jajodia,Association for Computing Machinery (États-Unis).,2003 *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 *WiSec'08*, 2008 *StorageSS '05* Bill Yurcik, Larry Brumbaugh, Yuanyuan Zhou, 2005 *Proceedings of the ... ACM Workshop on Wireless Security*, 2005 *Proceedings*, 2004 **Documentation Abstracts**, 1984 *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 *Dissertation Abstracts International*, 2005 **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.

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.

Data Privacy Management, Cryptocurrencies and Blockchain Technology Joaquin Garcia-Alfaro, Jordi Herrera-Joancomartí, Giovanni Livraga, Ruben Rios, 2018-09-06. This book constitutes the refereed conference proceedings of the 2nd International Workshop on Cryptocurrencies and Blockchain Technology CBT 2018 and the 13th International Workshop on Data Privacy Management DPM 2018 on conjunction with the 23rd European Symposium on Research in Computer Security ESORICS 2018 held in Barcelona, Spain in September 2018. From the CBT Workshop 7 full and 8 short papers out of 39 submissions are included. The selected papers cover aspects of identity management, smart contracts, soft and hard forks, proof of works and proof of stake as well as on network layer aspects and the application of blockchain technology for secure event ticketing. The DPM Workshop received 36 submissions from which 11 full and 5 short papers were selected for presentation. The papers focus on challenging problems such as translation of high level business goals into system level privacy policies, administration of sensitive identifiers, data integration and privacy engineering.

Privacy-Preserving in Edge Computing Longxiang Gao, Tom H. Luan, Bruce Gu, Youyang Qu, Yong Xiang, 2021-06-01. With the rapid development of big data it is necessary to transfer the massive data generated by end devices to the cloud under the traditional cloud computing

model However the delays caused by massive data transmission no longer meet the requirements of various real time mobile services Therefore the emergence of edge computing has been recently developed as a new computing paradigm that can collect and process data at the edge of the network which brings significant convenience to solving problems such as delay bandwidth and off loading in the traditional cloud computing paradigm By extending the functions of the cloud to the edge of the network edge computing provides effective data access control computation processing and storage for end devices Furthermore edge computing optimizes the seamless connection from the cloud to devices which is considered the foundation for realizing the interconnection of everything However due to the open features of edge computing such as content awareness real time computing and parallel processing the existing problems of privacy in the edge computing environment have become more prominent The access to multiple categories and large numbers of devices in edge computing also creates new privacy issues In this book we discuss on the research background and current research process of privacy protection in edge computing In the first chapter the state of the art research of edge computing are reviewed The second chapter discusses the data privacy issue and attack models in edge computing Three categories of privacy preserving schemes will be further introduced in the following chapters Chapter three introduces the context aware privacy preserving scheme Chapter four further introduces a location aware differential privacy preserving scheme Chapter five presents a new blockchain based decentralized privacy preserving in edge computing Chapter six summarize this monograph and propose future research directions In summary this book introduces the following techniques in edge computing 1 describe an MDP based privacy preserving model to solve context aware data privacy in the hierarchical edge computing paradigm 2 describe a SDN based clustering methods to solve the location aware privacy problems in edge computing 3 describe a novel blockchain based decentralized privacy preserving scheme in edge computing These techniques enable the rapid development of privacy preserving in edge computing

Crypto An Architecture For Privacy Preserving Online: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the engaging narratives that have enthralled audiences this year. Crypto An Architecture For Privacy Preserving Online : Colleen Hoovers "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens weaves a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a brilliant and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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