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Operating System Security

Trent Jaeger

*SYNTHESIS LECTURES ON
INFORMATION SECURITY, PRIVACY, AND TRUST*

Ravi Sandhu, *Series Editor*

Operating System Security Trent Jaeger

Jiliang Tang, Huan Liu



Operating System Security Trent Jaeger:

Operating System Security Trent Jaeger, 2022-05-31 Operating systems provide the fundamental mechanisms for securing computer processing. Since the 1960s, operating systems designers have explored how to build secure operating systems whose mechanisms protect the system against a motivated adversary. Recently, the importance of ensuring such security has become a mainstream issue for all operating systems. In this book, we examine past research that outlines the requirements for a secure operating system and research that implements example systems that aim for such requirements. For system designs that aimed to satisfy these requirements, we see that the complexity of software systems often results in implementation challenges that we are still exploring to this day. However, if a system design does not aim for achieving the secure operating system requirements, then its security features fail to protect the system in a myriad of ways. We also study systems that have been retrofitted with secure operating system features after an initial deployment. In all cases, the conflict between function on one hand and security on the other leads to difficult choices and the potential for unwise compromises. From this book, we hope that systems designers and implementors will learn the requirements for operating systems that effectively enforce security and will better understand how to manage the balance between function and security. Table of Contents: Introduction, Access Control, Fundamentals, Multics, Security in Ordinary Operating Systems, Verifiable Security, Goals, Security Kernels, Securing Commercial Operating Systems, Case Study: Solaris Trusted Extensions, Case Study: Building a Secure Operating System for Linux, Secure Capability Systems, Secure Virtual Machine Systems, System Assurance. [Analysis Techniques for Information Security](#) Anupam Datta, Somesh Jha, Ninghui Li, David

Melski, Thomas Reps, 2022-05-31 Increasingly, our critical infrastructures are reliant on computers. We see examples of such infrastructures in several domains, including medical, power, telecommunications, and finance. Although automation has advantages, increased reliance on computers exposes our critical infrastructures to a wider variety and higher likelihood of accidental failures and malicious attacks. Disruption of services caused by such undesired events can have catastrophic effects, such as disruption of essential services and huge financial losses. The increased reliance of critical services on our cyberinfrastructure and the dire consequences of security breaches have highlighted the importance of information security. Authorization, security protocols, and software security are three central areas in security in which there have been significant advances in developing systematic foundations and analysis methods that work for practical systems. This book provides an introduction to this work, covering representative approaches illustrated by examples and providing pointers to additional work in the area. Table of Contents: Introduction, Foundations, Detecting Buffer Overruns Using Static Analysis, Analyzing Security Policies, Analyzing Security Protocols. [Enhancing Information Security and Privacy by Combining Biometrics with Cryptography](#) Sanjay Kanade, Dijana Petrovska-Delacretaz, Bernadette Dorizzi, 2022-05-31 This book deals with crypto biometrics, a relatively new and multi-disciplinary area of research started in 1998. Combining biometrics and cryptography

provides multiple advantages such as revocability template diversity better verification accuracy and generation of cryptographically usable keys that are strongly linked to the user identity In this text a thorough review of the subject is provided and then some of the main categories are illustrated with recently proposed systems by the authors Beginning with the basics this text deals with various aspects of crypto biometrics including review cancelable biometrics cryptographic key generation from biometrics and crypto biometric key sharing protocols Because of the thorough treatment of the topic this text will be highly beneficial to researchers and industry professionals in information security and privacy Table of Contents Introduction Cancelable Biometric System Cryptographic Key Regeneration Using Biometrics Biometrics Based Secure Authentication Protocols Concluding Remarks Private Information Retrieval Xun Yi,Russell Paulet,Elisa Bertino,2022-05-31 This book deals with Private Information Retrieval PIR a technique allowing a user to retrieve an element from a server in possession of a database without revealing to the server which element is retrieved PIR has been widely applied to protect the privacy of the user in querying a service provider on the Internet For example by PIR one can query a location based service provider about the nearest car park without revealing his location to the server The first PIR approach was introduced by Chor Goldreich Kushilevitz and Sudan in 1995 in a multi server setting where the user retrieves information from multiple database servers each of which has a copy of the same database To ensure user privacy in the multi server setting the servers must be trusted not to collude In 1997 Kushilevitz and Ostrovsky constructed the first single database PIR Since then many efficient PIR solutions have been discovered Beginning with a thorough survey of single database PIR techniques this text focuses on the latest technologies and applications in the field of PIR The main categories are illustrated with recently proposed PIR based solutions by the authors Because of the latest treatment of the topic this text will be highly beneficial to researchers and industry professionals in information security and privacy **Hardware** **Malware** Edgar Weippl,Christian Krieg,Adrian Dabrowski,Katharina Krombholz,Heidelinde Hobel,2022-05-31 In our digital world integrated circuits are present in nearly every moment of our daily life Even when using the coffee machine in the morning or driving our car to work we interact with integrated circuits The increasing spread of information technology in virtually all areas of life in the industrialized world offers a broad range of attack vectors So far mainly software based attacks have been considered and investigated while hardware based attacks have attracted comparatively little interest The design and production process of integrated circuits is mostly decentralized due to financial and logistical reasons Therefore a high level of trust has to be established between the parties involved in the hardware development lifecycle During the complex production chain malicious attackers can insert non specified functionality by exploiting untrusted processes and backdoors This work deals with the ways in which such hidden non specified functionality can be introduced into hardware systems After briefly outlining the development and production process of hardware systems we systematically describe a new type of threat the hardware Trojan We provide a historical overview of the development of research activities in this

field to show the growing interest of international research in this topic Current work is considered in more detail We discuss the components that make up a hardware Trojan as well as the parameters that are relevant for an attack Furthermore we describe current approaches for detecting localizing and avoiding hardware Trojans to combat them effectively Moreover this work develops a comprehensive taxonomy of countermeasures and explains in detail how specific problems are solved In a final step we provide an overview of related work and offer an outlook on further research in this field

Privacy for Location-based Services Gabriel Ghinita,2022-05-31 Sharing of location data enables numerous exciting applications such as location based queries location based social recommendations monitoring of traffic and air pollution levels etc Disclosing exact user locations raises serious privacy concerns as locations may give away sensitive information about individuals health status alternative lifestyles political and religious affiliations etc Preserving location privacy is an essential requirement towards the successful deployment of location based applications These lecture notes provide an overview of the state of the art in location privacy protection A diverse body of solutions is reviewed including methods that use location generalization cryptographic techniques or differential privacy The most prominent results are discussed and promising directions for future work are identified

Usable Security Simson Garfinkel,Heather Richter Lipford,2022-06-01 There has been roughly 15 years of research into approaches for aligning research in Human Computer Interaction with computer Security more colloquially known as usable security Although usability and security were once thought to be inherently antagonistic today there is wide consensus that systems that are not usable will inevitably suffer security failures when they are deployed into the real world Only by simultaneously addressing both usability and security concerns will we be able to build systems that are truly secure This book presents the historical context of the work to date on usable security and privacy creates a taxonomy for organizing that work outlines current research objectives presents lessons learned and makes suggestions for future research

Mobile Platform Security N. Asokan,Lucas Davi,Alexandra Dmitrienko,Stephan Heuser,Kari Kostiaainen,Elena Reshetova,Ahmad-Reza Sadeghi,2022-05-31 Recently mobile security has garnered considerable interest in both the research community and industry due to the popularity of smartphones The current smartphone platforms are open systems that allow application development also for malicious parties To protect the mobile device its user and other mobile ecosystem stakeholders such as network operators application execution is controlled by a platform security architecture This book explores how such mobile platform security architectures work We present a generic model for mobile platform security architectures the model illustrates commonly used security mechanisms and techniques in mobile devices and allows a systematic comparison of different platforms We analyze several mobile platforms using the model In addition this book explains hardware security mechanisms typically present in a mobile device We also discuss enterprise security extensions for mobile platforms and survey recent research in the area of mobile platform security The objective of this book is to provide a comprehensive overview of the current status of mobile platform security for students researchers and

practitioners **RFID Security and Privacy** Yingjiu Li, Robert Deng, Elisa Bertino, 2022-06-01 As a fast evolving new area RFID security and privacy has quickly grown from a hungry infant to an energetic teenager during recent years Much of the exciting development in this area is summarized in this book with rigorous analyses and insightful comments In particular a systematic overview on RFID security and privacy is provided at both the physical and network level At the physical level RFID security means that RFID devices should be identified with assurance in the presence of attacks while RFID privacy requires that RFID devices should be identified without disclosure of any valuable information about the devices At the network level RFID security means that RFID information should be shared with authorized parties only while RFID privacy further requires that RFID information should be shared without disclosure of valuable RFID information to any honest but curious server which coordinates information sharing Not only does this book summarize the past but it also provides new research results especially at the network level Several future directions are envisioned to be promising for advancing the research in this area Security and Trust in Online Social Networks Barbara Carminati, Elena Ferrari, Marco Viviani, 2022-05-31 The enormous success and diffusion that online social networks OSNs are encountering nowadays is vastly apparent Users social interactions now occur using online social media as communication channels personal information and activities are easily exchanged both for recreational and business purposes in order to obtain social or economic advantages In this scenario OSNs are considered critical applications with respect to the security of users and their resources for their characteristics alone the large amount of personal information they manage big economic upturn connected to their commercial use strict interconnection among users and resources characterizing them as well as user attitude to easily share private data and activities with strangers In this book we discuss three main research topics connected to security in online social networks i trust management because trust can be intended as a measure of the perception of security in terms of risks benefits that users in an OSN have with respect to other unknown little known parties ii controlled information sharing because in OSNs where personal information is not only connected to user profiles but spans across users social activities and interactions users must be provided with the possibility to directly control information flows and iii identity management because OSNs are subjected more and more to malicious attacks that with respect to traditional ones have the advantage of being more effective by leveraging the social network as a new medium for reaching victims For each of these research topics in this book we provide both theoretical concepts as well as an overview of the main solutions that commercial non commercial actors have proposed over the years We also discuss some of the most promising research directions in these fields Cyber-Physical Security and Privacy in the Electric Smart Grid Bruce McMillin, Thomas Roth, 2022-06-01 This book focuses on the combined cyber and physical security issues in advanced electric smart grids Existing standards are compared with classical results and the security and privacy principles of current practice are illustrated The book paints a way for future development of advanced smart grids that operated in a peer to peer fashion thus

requiring a different security model Future defenses are proposed that include information flow analysis and attestation systems that rely on fundamental physical properties of the smart grid system

Privacy Risk Analysis Sourya Joyee De,Daniel Le Métayer,2022-05-31 Privacy Risk Analysis fills a gap in the existing literature by providing an introduction to the basic notions requirements and main steps of conducting a privacy risk analysis The deployment of new information technologies can lead to significant privacy risks and a privacy impact assessment should be conducted before designing a product or system that processes personal data However if existing privacy impact assessment frameworks and guidelines provide a good deal of details on organizational aspects including budget allocation resource allocation stakeholder consultation etc they are much vaguer on the technical part in particular on the actual risk assessment task For privacy impact assessments to keep up their promises and really play a decisive role in enhancing privacy protection they should be more precise with regard to these technical aspects This book is an excellent resource for anyone developing and or currently running a risk analysis as it defines the notions of personal data stakeholders risk sources feared events and privacy harms all while showing how these notions are used in the risk analysis process It includes a running smart grids example to illustrate all the notions discussed in the book

Introduction to Secure Outsourcing Computation Xiaofeng Chen,2022-05-31 With the rapid development of cloud computing the enterprises and individuals can outsource their sensitive data into the cloud server where they can enjoy high quality data storage and computing services in a ubiquitous manner This is known as the outsourcing computation paradigm Recently the problem for securely outsourcing various expensive computations or storage has attracted considerable attention in the academic community In this book we focus on the latest technologies and applications of secure outsourcing computations Specially we introduce the state of the art research for secure outsourcing some specific functions such as scientific computations cryptographic basic operations and verifiable large database with update The constructions for specific functions use various design tricks and thus result in very efficient protocols for real world applications The topic of outsourcing computation is a hot research issue nowadays Thus this book will be beneficial to academic researchers in the field of cloud computing and big data security

Database Anonymization Josep Domingo-Ferrer,David Sánchez,Jordi Soria-Comas,2022-05-31 The current social and economic context increasingly demands open data to improve scientific research and decision making However when published data refer to individual respondents disclosure risk limitation techniques must be implemented to anonymize the data and guarantee by design the fundamental right to privacy of the subjects the data refer to Disclosure risk limitation has a long record in the statistical and computer science research communities who have developed a variety of privacy preserving solutions for data releases This Synthesis Lecture provides a comprehensive overview of the fundamentals of privacy in data releases focusing on the computer science perspective Specifically we detail the privacy models anonymization methods and utility and risk metrics that have been proposed so far in the literature Besides as a more advanced topic we identify and

discuss in detail connections between several privacy models i.e. how to accumulate the privacy guarantees they offer to achieve more robust protection and when such guarantees are equivalent or complementary we also explore the links between anonymization methods and privacy models how anonymization methods can be used to enforce privacy models and thereby offer ex ante privacy guarantees These latter topics are relevant to researchers and advanced practitioners who will gain a deeper understanding on the available data anonymization solutions and the privacy guarantees they can offer

Trust in Social Media Jiliang Tang,Huan Liu,2022-06-01 Social media greatly enables people to participate in online activities and shatters the barrier for online users to create and share information at any place at any time However the explosion of user generated content poses novel challenges for online users to find relevant information or in other words exacerbates the information overload problem On the other hand the quality of user generated content can vary dramatically from excellence to abuse or spam resulting in a problem of information credibility The study and understanding of trust can lead to an effective approach to addressing both information overload and credibility problems Trust refers to a relationship between a trustor the subject that trusts a target entity and a trustee the entity that is trusted In the context of social media trust provides evidence about with whom we can trust to share information and from whom we can accept information without additional verification With trust we make the mental shortcut by directly seeking information from trustees or trusted entities which serves a two fold purpose without being overwhelmed by excessive information i.e. mitigated information overload and with credible information due to the trust placed on the information provider i.e. increased information credibility Therefore trust is crucial in helping social media users collect relevant and reliable information and trust in social media is a research topic of increasing importance and of practical significance This book takes a computational perspective to offer an overview of characteristics and elements of trust and illuminate a wide range of computational tasks of trust It introduces basic concepts deliberates challenges and opportunities reviews state of the art algorithms and elaborates effective evaluation methods in the trust study In particular we illustrate properties and representation models of trust elucidate trust prediction with representative algorithms and demonstrate real world applications where trust is explicitly used As a new dimension of the trust study we discuss the concept of distrust and its roles in trust computing

Automated Software Diversity Per Larsen,Stefan Brunthaler,Lucas Davi,Ahmad-Reza Sadeghi,Michael Franz,2022-05-31 Whereas user facing applications are often written in modern languages the firmware operating system support libraries and virtual machines that underpin just about any modern computer system are still written in low level languages that value flexibility and performance over convenience and safety Programming errors in low level code are often exploitable and can in the worst case give adversaries unfettered access to the compromised host system This book provides an introduction to and overview of automatic software diversity techniques that in one way or another use randomization to greatly increase the difficulty of exploiting the vast amounts of low level code in existence Diversity based

defenses are motivated by the observation that a single attack will fail against multiple targets with unique attack surfaces We introduce the many often complementary ways that one can diversify attack surfaces and provide an accessible guide to more than two decades worth of research on the topic We also discuss techniques used in conjunction with diversity to prevent accidental disclosure of randomized program aspects and present an in depth case study of one of our own diversification solutions

Physically Unclonable Functions (PUFs) Christian Wachsmann,Ahmad-Reza Sadeghi,2022-05-31 Today embedded systems are used in many security critical applications from access control electronic tickets sensors and smart devices e g wearables to automotive applications and critical infrastructures These systems are increasingly used to produce and process both security critical and privacy sensitive data which bear many security and privacy risks Establishing trust in the underlying devices and making them resistant to software and hardware attacks is a fundamental requirement in many applications and a challenging yet unsolved task Solutions solely based on software can never ensure their own integrity and trustworthiness while resource constraints and economic factors often prevent the integration of sophisticated security hardware and cryptographic co processors In this context Physically Unclonable Functions PUFs are an emerging and promising technology to establish trust in embedded systems with minimal hardware requirements This book explores the design of trusted embedded systems based on PUFs Specifically it focuses on the integration of PUFs into secure and efficient cryptographic protocols that are suitable for a variety of embedded systems It exemplarily discusses how PUFs can be integrated into lightweight device authentication and attestation schemes which are popular and highly relevant applications of PUFs in practice For the integration of PUFs into secure cryptographic systems it is essential to have a clear view of their properties This book gives an overview of different approaches to evaluate the properties of PUF implementations and presents the results of a large scale security analysis of different PUF types implemented in application specific integrated circuits ASICs To analyze the security of PUF based schemes as is common in modern cryptography it is necessary to have a security framework for PUFs and PUF based systems In this book we give a flavor of the formal modeling of PUFs that is in its beginning and that is still undergoing further refinement in current research The objective of this book is to provide a comprehensive overview of the current state of secure PUF based cryptographic system design and the related challenges and limitations

Table of Contents Preface Introduction Basics of Physically Unclonable Functions Attacks on PUFs and PUF based Systems Advanced PUF Concepts PUF Implementations and Evaluation PUF based Cryptographic Protocols Security Model for PUF based Systems Conclusion Terms and Abbreviations Bibliography Authors Biographies

Digital Forensic Science Vassil Roussev,2022-05-31 Digital forensic science or digital forensics is the application of scientific tools and methods to identify collect and analyze digital data artifacts in support of legal proceedings From a more technical perspective it is the process of reconstructing the relevant sequence of events that have led to the currently observable state of a target IT system or digital artifacts Over the last three decades the importance of digital evidence has grown in lockstep

with the fast societal adoption of information technology which has resulted in the continuous accumulation of data at an exponential rate Simultaneously there has been a rapid growth in network connectivity and the complexity of IT systems leading to more complex behavior that needs to be investigated The goal of this book is to provide a systematic technical overview of digital forensic techniques primarily from the point of view of computer science This allows us to put the field in the broader perspective of a host of related areas and gain better insight into the computational challenges facing forensics as well as draw inspiration for addressing them This is needed as some of the challenges faced by digital forensics such as cloud computing require qualitatively different approaches the sheer volume of data to be examined also requires new means of processing it **Anomaly Detection as a Service** Danfeng (Daphne) Yao,Xiaokui Shu,Long Cheng,Salvatore J.

Stolfo,2022-06-01 Anomaly detection has been a long standing security approach with versatile applications ranging from securing server programs in critical environments to detecting insider threats in enterprises to anti abuse detection for online social networks Despite the seemingly diverse application domains anomaly detection solutions share similar technical challenges such as how to accurately recognize various normal patterns how to reduce false alarms how to adapt to concept drifts and how to minimize performance impact They also share similar detection approaches and evaluation methods such as feature extraction dimension reduction and experimental evaluation The main purpose of this book is to help advance the real world adoption and deployment anomaly detection technologies by systematizing the body of existing knowledge on anomaly detection This book is focused on data driven anomaly detection for software systems and networks against advanced exploits and attacks but also touches on a number of applications including fraud detection and insider threats We explain the key technical components in anomaly detection workflows give in depth description of the state of the art data driven anomaly based security solutions and more importantly point out promising new research directions This book emphasizes on the need and challenges for deploying service oriented anomaly detection in practice where clients can outsource the detection to dedicated security providers and enjoy the protection without tending to the intricate details

Privacy Risk Analysis of Online Social Networks Sourya Joyee De,Abdessamad Imine,2022-06-01 The social benefit derived from Online Social Networks OSNs can lure users to reveal unprecedented volumes of personal data to an online audience that is much less trustworthy than their offline social circle Even if a user hides his personal data from some users and shares with others privacy settings of OSNs may be bypassed thus leading to various privacy harms such as identity theft stalking or discrimination Therefore users need to be assisted in understanding the privacy risks of their OSN profiles as well as managing their privacy settings so as to keep such risks in check while still deriving the benefits of social network participation This book presents to its readers how privacy risk analysis concepts such as privacy harms and risk sources can be used to develop mechanisms for privacy scoring of user profiles and for supporting users in privacy settings management in the context of OSNs Privacy scoring helps detect and minimize the risks due to the dissemination and use of personal data

The book also discusses many open problems in this area to encourage further research

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Table of Contents Operating System Security Trent Jaeger

1. Understanding the eBook Operating System Security Trent Jaeger
 - The Rise of Digital Reading Operating System Security Trent Jaeger
 - Advantages of eBooks Over Traditional Books
2. Identifying Operating System Security Trent Jaeger
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Operating System Security Trent Jaeger
 - User-Friendly Interface
4. Exploring eBook Recommendations from Operating System Security Trent Jaeger
 - Personalized Recommendations
 - Operating System Security Trent Jaeger User Reviews and Ratings
 - Operating System Security Trent Jaeger and Bestseller Lists
5. Accessing Operating System Security Trent Jaeger Free and Paid eBooks
 - Operating System Security Trent Jaeger Public Domain eBooks
 - Operating System Security Trent Jaeger eBook Subscription Services
 - Operating System Security Trent Jaeger Budget-Friendly Options
6. Navigating Operating System Security Trent Jaeger eBook Formats

- ePub, PDF, MOBI, and More
- Operating System Security Trent Jaeger Compatibility with Devices
- Operating System Security Trent Jaeger Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Operating System Security Trent Jaeger
 - Highlighting and Note-Taking Operating System Security Trent Jaeger
 - Interactive Elements Operating System Security Trent Jaeger
- 8. Staying Engaged with Operating System Security Trent Jaeger
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Operating System Security Trent Jaeger
- 9. Balancing eBooks and Physical Books Operating System Security Trent Jaeger
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Operating System Security Trent Jaeger
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Operating System Security Trent Jaeger
 - Setting Reading Goals Operating System Security Trent Jaeger
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Operating System Security Trent Jaeger
 - Fact-Checking eBook Content of Operating System Security Trent Jaeger
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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