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Operating System Security

Trent Jaeger

SYNTHESIS LECTURE ON
INFORMATION SECURITY, *Privacy*, and *Trust*

David Dornier, Series Editor

Operating System Security Trent Jaeger

Patrick Vollmar



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 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 *Proceedings of ... ACM Symposium on Access Control Models and Technologies ,2007* **The Sixth Workshop on Hot Topics in Operating Systems** ,1997 Annotation What are the hot topics in operating systems The contributors adequately answer this begged question in 23 papers from the May 1997 workshop presenting in part experiences with the development of a mircokernal based multi server operating system practical tools for OS implementors

a review of reusable components for OS implementation an argument against extensible kernels which the authors suggest is leading OS research astray security the use of internet as a big distributed system run time code generation as a central system service and the performance dynamics of self monitoring and memory hierarchy management Lacks an index Annotation copyrighted by Book News Inc Portland OR *A Classification Scheme for Sandboxes* Arun Prabakaran,2005 Proceedings of the 2nd ACM Conference on Computer and Communications Security ,1994 **Securing Untrustworthy Software Using Information Flow Control** Nickolai Zeldovich,2007 **Proceedings of the 9th ACM Conference on Computer and Communications Security** Vijay Atluri,2002 *Proceedings of the Seventh Workshop on Hot Topics in Operating Systems* ,1999 **ACM Conference on Computer and Communications Security** ,2004 **Proceedings of the ... USENIX Security Symposium** ,2006 **Detecting and Stopping Privacy Violations by Software** Hao Wang,2007 *Proceedings of the 7th ACM Conference on Computer and Communications Security* Sushil Jajodia,Pierangela Samarati,2000 Virtual Machine Based Mechanisms and Tools for Cyber Attack Prevention, Analysis, and Recovery Daniela Alvim Seabra de Oliveira,2010 **Login:.** ,2004 Proceedings ,2000 **IBM Systems Journal** International Business Machines Corporation,1998

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