

ARCHITECTING SECURE SOFTWARE SYSTEMS



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Architecting Secure Software Systems

JS Bruner



Architecting Secure Software Systems:

Architecting Secure Software Systems Asoke K. Talukder, Manish Chaitanya, 2008-12-17 Traditionally software engineers have defined security as a non functional requirement As such all too often it is only considered as an afterthought making software applications and services vulnerable to attacks With the phenomenal growth in cybercrime it has become imperative that security be an integral part of software engineering so tha Secure Software Systems Erik Fretheim, Marie Deschene, 2023-03-08 Secure Software Systems presents an approach to secure software systems design and development that tightly integrates security and systems design and development or software engineering together It addresses the software development process from the perspective of a security practitioner The text focuses on the processes concepts and concerns of ensuring that secure practices are followed throughout the secure software systems development life cycle including the practice of following the life cycle rather than just doing ad hoc development *Secure Software Systems* Erik Fretheim, Marie Deschene, 2023-03-08 Secure Software Systems Development addresses the software development process from the perspective of a security practitioner **Engineering Safe and Secure Software Systems** C. Warren Axelrod, 2013 This first of its kind resource offers a broad and detailed understanding of software systems engineering from both security and safety perspectives Addressing the overarching issues related to safeguarding public data and intellectual property the book defines such terms as systems engineering software engineering security and safety as precisely as possible making clear the many distinctions commonalities and interdependencies among various disciplines You explore the various approaches to risk and the generation and analysis of appropriate metrics This unique book explains how processes relevant to the creation and operation of software systems should be determined and improved how projects should be managed and how products can be assured You learn the importance of integrating safety and security into the development life cycle Additionally this practical volume helps identify what motivators and deterrents can be put in place in order to implement the methods that have been recommended *Designing Usable and Secure Software with IRIS and CAIRIS* Shamal Faily, 2018-04-28 Everyone expects the products and services they use to be secure but building security in at the earliest stages of a system s design also means designing for use as well Software that is unusable to end users and unwieldy to developers and administrators may be insecure as errors and violations may expose exploitable vulnerabilities This book shows how practitioners and researchers can build both security and usability into the design of systems It introduces the IRIS framework and the open source CAIRIS platform that can guide the specification of secure and usable software It also illustrates how IRIS and CAIRIS can complement techniques from User Experience Security Engineering and Innovation Entrepreneurship in ways that allow security to be addressed at different stages of the software lifecycle without disruption Real world examples are provided of the techniques and processes illustrated in this book making this text a resource for practitioners researchers educators and students **Software Architecture** Tomas Bures, Laurence Duchien, Paola

Inverardi,2019-09-02 This book constitutes the refereed proceedings of the 13th European Conference on Software Architecture ECSA 2019 held in Paris France in September 2019 In the Research Track 11 full papers presented together with 4 short papers were carefully reviewed and selected from 63 submissions They are organized in topical sections as follows Services and Micro services Software Architecture in Development Process Adaptation and Design Space Exploration and Quality Attributes In the Industrial Track 6 submissions were received and 3 were accepted to form part of these proceedings

Designing Secure Software Loren Kohnfelder,2021-12-21 What every software professional should know about security Designing Secure Software consolidates Loren Kohnfelder s more than twenty years of experience into a concise elegant guide to improving the security of technology products Written for a wide range of software professionals it emphasizes building security into software design early and involving the entire team in the process The book begins with a discussion of core concepts like trust threats mitigation secure design patterns and cryptography The second part perhaps this book s most unique and important contribution to the field covers the process of designing and reviewing a software design with security considerations in mind The final section details the most common coding flaws that create vulnerabilities making copious use of code snippets written in C and Python to illustrate implementation vulnerabilities You ll learn how to Identify important assets the attack surface and the trust boundaries in a system Evaluate the effectiveness of various threat mitigation candidates Work with well known secure coding patterns and libraries Understand and prevent vulnerabilities like XSS and CSRF memory flaws and more Use security testing to proactively identify vulnerabilities introduced into code Review a software design for security flaws effectively and without judgment Kohnfelder s career spanning decades at Microsoft and Google introduced numerous software security initiatives including the co creation of the STRIDE threat modeling framework used widely today This book is a modern pragmatic consolidation of his best practices insights and ideas about the future of software

Secure software engineering and cyber defence mechanisms Mohan Kumar Gajula, Secure Software Engineering and Cyber Defence Mechanisms offers a comprehensive guide to building resilient software systems and safeguarding digital infrastructure against evolving cyber threats This book delves into secure software development lifecycle SSDLC threat modeling vulnerability assessment and best practices in coding security It also explores advanced cyber defense strategies including intrusion detection incident response encryption and risk management With practical examples case studies and current industry standards it equips professionals researchers and students with essential tools and methodologies to proactively defend systems and ensure software integrity A vital resource for mastering the intersection of cybersecurity and software engineering

Engineering Secure Software and Systems Úlfar Erlingsson,Roel Wieringa,Nicola Zannone,2011-01-31 This book constitutes the refereed proceedings of the Third International Symposium on Engineering Secure Software and Systems ESSoS 2011 held in Madrid Italy in February 2011 The 18 revised full papers presented together with 3 idea papers were carefully reviewed and selected from 63 submissions

The papers are organized in topical sections on model based security tools and mechanisms Web security security requirements engineering and authorization **Product-Focused Software Process Improvement** Xavier Franch,Tomi Männistö,Silverio Martínez-Fernández,2019-11-18 This book constitutes the refereed proceedings of the 20th International Conference on Product Focused Software Process Improvement PROFES 2019 held in Barcelona Spain in November 2019 The 24 revised full papers 4 industry papers and 11 short papers presented were carefully reviewed and selected from 104 submissions The papers cover a broad range of topics related to professional software development and process improvement driven by product and service quality needs They are organized in topical sections on testing software development technical debt estimations continuous delivery agile project management microservices and continuous experimentation This book also includes papers from the co located events 10 project papers 8 workshop papers and 4 tutorial summaries **Exploring Security in Software Architecture and Design** Felderer, Michael,Scandariato, Riccardo,2019-01-25 Cyber attacks continue to rise as more individuals rely on storing personal information on networks Even though these networks are continuously checked and secured cybercriminals find new strategies to break through these protections Thus advanced security systems rather than simple security patches need to be designed and developed Exploring Security in Software Architecture and Design is an essential reference source that discusses the development of security aware software systems that are built into every phase of the software architecture Featuring research on topics such as migration techniques service based software and building security this book is ideally designed for computer and software engineers ICT specialists researchers academicians and field experts **Proceedings** ,2005 *The CSSLP Prep Guide* Ronald L. Krutz,Alexander J. Fry,2009-08-24 The first test prep guide for the new ISC2 Certified Secure Software Lifecycle Professional exam The CSSLP Certified Secure Software Lifecycle Professional is a new certification that incorporates government standards and best practices for secure software development It emphasizes the application of secure software methodologies during the software development cycle If you re an IT professional security professional software developer project manager software assurance tester executive manager or employee of a government agency in a related field your career may benefit from this certification Written by experts in computer systems and security The CSSLP Prep Guide thoroughly covers all aspects of the CSSLP certification exam with hundreds of sample test questions and answers available on the accompanying CD The Certified Secure Software Lifecycle Professional CSSLP is an international certification incorporating new government commercial and university derived secure software development methods it is a natural complement to the CISSP credential The study guide covers the seven domains of the CSSLP Common Body of Knowledge CBK namely Secure Software Concepts Secure Software Requirements Secure Software Design and Secure Software Implementation Coding and Testing Secure Software Testing Software Acceptance and Software Deployment Operations Maintenance and Disposal Provides in depth exploration and explanation of the seven CSSLP domains Includes a

CD with hundreds of practice exam questions and answers The CSSLP Prep Guide prepares you for the certification exam and career advancement COTS-based Software Systems ,2003 **Computer Architecture and Security** Shuangbao Paul Wang,Robert S. Ledley,2012-10-25 The first book to introduce computer architecture for security and provide the tools to implement secure computer systems This book provides the fundamentals of computer architecture for security It covers a wide range of computer hardware system software and data concepts from a security perspective It is essential for computer science and security professionals to understand both hardware and software security solutions to survive in the workplace Examination of memory CPU architecture and system implementation Discussion of computer buses and a dual port bus interface Examples cover a board spectrum of hardware and software systems Design and implementation of a patent pending secure computer system Includes the latest patent pending technologies in architecture security Placement of computers in a security fulfilled network environment Co authored by the inventor of the modern Computed Tomography CT scanner Provides website for lecture notes security tools and latest updates *Data Security and Performance Overhead in a Distributed Architecture System* John M. Cary,1981 CSSLP Certified Secure Software Lifecycle Professional All-in-One Exam Guide, Third Edition Wm. Arthur Conklin,Daniel Paul Shoemaker,2022-02-04 Providing 100% coverage of the latest CSSLP exam this self study guide offers everything you need to ace the exam CSSLP Certified Secure Software Lifecycle Professional All in One Exam Guide Third Edition covers all eight exam domains of the challenging CSSLP exam developed by the International Information Systems Security Certification Consortium ISC 2 Thoroughly revised and updated for the latest exam release this guide includes real world examples and comprehensive coverage on all aspects of application security within the entire software development lifecycle It also includes hands on exercises chapter review summaries and notes tips and cautions that provide real world insight and call out potentially harmful situations With access to 350 exam questions online you can practice either with full length timed mock exams or by creating your own custom quizzes by chapter or exam objective CSSLP Certification All in One Exam Guide Third Edition provides thorough coverage of all eight exam domains Secure Software Concepts Secure Software Requirements Secure Software Design Secure Software Implementation Programming Secure Software Testing Secure Lifecycle Management Software Deployment Operations and Maintenance Supply Chain and Software Acquisition *Software Engineering for Secure Systems: Industrial and Research Perspectives* Mouratidis, H.,2010-10-31 This book provides coverage of recent advances in the area of secure software engineering that address the various stages of the development process from requirements to design to testing to implementation Provided by publisher **Advances in Computer Systems Architecture** ,2005 *A Scalable Architecture for Public Key Distribution Acting in Concert with Secure DNS* Daniel Francis Berger,2004

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