

ARCHITECTING SECURE SOFTWARE SYSTEMS



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Architecting Secure Software Systems

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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 that 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 **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 **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

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

Ultimate Rust for Systems Programming: Master Core Programming for Architecting Secure and Reliable Software Systems with Rust and WebAssembly Mahmoud Harmouch, 2024-03-20 Building Tomorrow's Systems Today the Rust Way Key Features Learn how to use Rust libraries effectively for various applications and projects Go from basics to advanced system building skills for stronger and more reliable outcomes Secure your Rust applications confidently with expert tips for enhanced protection Book Description This book is your guide to mastering Rust programming equipping you with essential skills and insights for efficient system programming It starts by introducing Rust's significance in the system programming domain and highlighting its advantages over traditional languages like C/C++ You'll then embark on a practical journey setting up Rust on various platforms and configuring the development environment From writing your first Hello World program to harness the power of Rust's package manager Cargo the book ensures a smooth initiation into the language Delving deeper the book covers foundational concepts including variables data types control flow functions closures and crucial memory management aspects like ownership borrowing and

lifetimes Special attention is given to Rust's strict memory safety guarantees guiding you in writing secure code with the assistance of the borrow checker The book extends its reach to Rust collections error handling techniques and the complexities of concurrency management From threads and synchronization primitives like Mutex and RwLock to asynchronous programming with async await and the Tokio library you'll gain a comprehensive understanding of Rust's capabilities This book covers it all What you will learn Learn how to set up the Rust environment effortlessly ensuring a streamlined development process Explore advanced concepts in Rust including traits generics and various collection types expanding your programming expertise Master effective error handling techniques empowering you to create custom error types for enhanced code robustness Tackle the complexities of memory management smart pointers and delve into the complexities of concurrency in Rust Gain hands-on experience by building command line utilities sharpening your practical skills in real world scenarios Master the use of iterators and closures ensuring code reliability through comprehensive unit testing practices

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