

Introduction To Reliable And Secure Distributed Programming

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Developing Secure Distributed Systems with CORBA
Secure distributed computing
Building Efficient, Secure, and Reliable Distributed Systems
14th National Computer Security Conference
Reliable Distributed Systems
Types, Compilers, and Cryptography for Secure Distributed Programming
IEEE ... Symposium on Reliable Distributed Systems
Reliable Distributed Systems
Communication Complexity of Secure Distributed Computing
Guide to Reliable Distributed Systems
Dynamic Composition of Distributed Components
An Overview of Secure Distributed Computing
The Complexity of Reliable and Secure Distributed Transactions
Blockchain for Distributed Systems Security
CISSP Bundle, Fourth Edition
Secure Distributed Data Views. Vol. 2: the SeaView Formal Security Policy Model
Proceedings of the ... Annual ACM Symposium on Principles of Distributed Computing
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Proceedings of the National Conference
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in modern computing a program is usually distributed among several processes the fundamental challenge when developing reliable and secure distributed programs is to support the cooperation of processes required to execute a common task even when some of these processes fail failures may range from crashes to adversarial attacks by malicious processes cachin guerraoui and rodrigues present an introductory description of fundamental distributed programming abstractions together with algorithms to implement them in distributed systems where processes are subject to crashes and malicious attacks the authors follow an incremental approach by first introducing basic abstractions in simple distributed environments before moving to more sophisticated abstractions and more challenging environments each core chapter is devoted to one topic covering reliable broadcast shared memory consensus and extensions of consensus for every topic many exercises and their solutions enhance the understanding this book represents the second edition of introduction to reliable distributed programming its scope has been extended to include security against malicious actions by non cooperating processes this important domain has become widely known under the name byzantine fault tolerance

this book is a clearly written well structured hands on guide for the professional software developer and engineer who needs to build secure applications with corba it offers guidance securing corba applications integrating security infrastructure with corba applications evaluating the security effectiveness of distributed applications and micosec corba security implementation professionals get a comprehensive study of corba security architecture providing a better understanding of its goals and limitations it serves as a complete reference for understanding security in distributed systems the book generously illustrates the usage of the micosec corba security services implementation including important information on the installation and configuration of micosec usage of two different kinds of application facing interfaces and the configuration of corba security not containing any security related modifications

building a real world secure distributed system that can be used in practice is challenging it usually needs to progressively satisfy a number of core requirements functionality performance reliability security and privacy however security and privacy concerns are usually at odds with the rest of the requirements the thesis illustrates how to design and implement real world distributed systems that are efficient reliable secure and scalable by leveraging a wide range of techniques

from the field of applied cryptography security e g intrusion detection and reliable distributed system e g state machine replication they include a general byzantine fault tolerant bft state machine replicated system that is designed to be as efficient as conventional state machine replicated systems and be highly resilient to various attacks a novel distributed signature system enabling member anonymity and misbehavior detection and a fundamentally important provably secure system that enables security to be established from well studied standard computational diffie hellman cdh assumptions over finite fields and resolves long standing open problems in cryptography

explains fault tolerance in clear terms with concrete examples drawn from real world settings highly practical focus aimed at building mission critical networked applications that remain secure

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this book describes the key concepts principles and implementation options for creating high assurance cloud computing solutions the guide starts with a broad technical overview and basic introduction to cloud computing looking at the overall architecture of the cloud client systems the modern internet and cloud computing data centers it then delves into the core challenges of showing how reliability and fault tolerance can be abstracted how the resulting questions can be solved and how the solutions can be leveraged to create a wide range of practical cloud applications the author s style is practical and the guide should be readily understandable without any special background concrete examples are often drawn from real world settings to illustrate key insights appendices show how the most important reliability models can be formalized describe the api of the isis2 platform and offer more than 80 problems at varying levels of difficulty

abstract secure distributed computing protocols allow a group of players within some specific computational environment to evaluate jointly the output of a function while maintaining the secrecy of privately held inputs an oft cited example is secret ballot election in which a final tally must be computed without revealing anything else about the individual votes the secrecy constraints of more general protocol problems can be satisfied by incorporating secure distributed computing either cryptographic or unconditional as a basic building block this paper surveys the extensive progress that has been made in the area of secure distributed computation over the past few years

mot clés de l'auteur complexity failures distributed transactions non blocking atomic commit indulgent atomic commit causal consistency optimistic secure multiparty computation permutation sequence

an essential guide to using blockchain to provide flexibility cost savings and security to data management data analysis and information sharing blockchain for distributed systems security contains a description of the properties that underpin the formal foundations of blockchain technologies and explores the practical issues for deployment in cloud and internet of things iot platforms the authors noted experts in the field present security and privacy issues that must be addressed for blockchain technologies to be adopted for civilian and military domains the book covers a range of topics including data provenance in cloud storage secure iot models auditing architecture and empirical validation of permissioned blockchain platforms the book's security and privacy analysis helps with an understanding of the basics of blockchain and it explores the quantifying impact of the new attack surfaces introduced by blockchain technologies and platforms in addition the book contains relevant and current updates on the topic this important resource provides an overview of blockchain based secure data management and storage for cloud and iot covers cutting edge research findings on topics including invariant based supply chain protection information sharing framework and trust worthy information federation addresses security and privacy concerns in blockchain in key areas such as preventing digital currency miners from launching attacks against mining pools empirical analysis of the attack surface of blockchain and more written for researchers and experts in computer science and engineering blockchain for distributed systems security contains the most recent information and academic research to provide an understanding of the application of blockchain technology

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Introduction

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