Cryptography Decrypted

In today's extensively wired world, cryptology is vital for guarding communication channels, databases, and software from intruders. Increased processing and communications speed, rapidly broadening access and multiplying storage capacity tend to make systems less secure over time, and security becomes a race against the relentless creativity of the unscrupulous. The revised and extended third edition of this classic reference work on cryptology offers a wealth of new technical and biographical details. The book presupposes only elementary mathematical knowledge. Spiced with exciting, amusing, and sometimes personal accounts from the history of cryptology, it will interest general a broad readership.

The industry favorite Linux guide, updated for Red Hat Enterprise Linux 7 and the cloud Linux Bible, 9th Edition is the ultimate hands-on Linux user guide, whether you're a true beginner or a more advanced user navigating recent changes. This updated ninth edition covers the latest versions of Red Hat Enterprise Linux 7 (RHEL 7), Fedora 21, and Ubuntu 14.04 LTS, and includes new information on cloud computing and development with guidance on Openstack and Cloudforms. With a focus on RHEL 7, this practical guide gets you up to speed quickly on the new enhancements for enterprise-quality file systems, the new boot process and services management, firewalld, and the GNOME 3 desktop. Written by a Red Hat expert, this book provides the clear explanations and step-by-step instructions that demystify Linux and bring the new features seamlessly into your workflow. This useful guide assumes a base of little or no Linux knowledge, and takes you step by step through what you need to know to get the job done. Get Linux up and running quickly Master basic operations and tackle more advanced tasks Get up to date on the recent changes to Linux server system management Bring Linux to the cloud using Openstack and Cloudforms Linux Bible, 9th Edition is the one resource you need, and provides the hands-on training that gets you on track in a flash.

This book constitutes the thoroughly refereed proceedings of the 8th Theory of Cryptography Conference, TCC 2011, held in Providence, Rhode Island, USA, in March 2011. The 35 revised full papers are presented together with 2 invited talks and were carefully reviewed and selected from 108 submissions. The papers are organized in topical sections on hardness amplification, leakage resilience, tamper resilience, encryption, composable security, secure computation, privacy, coin tossing and pseudorandomness, black-box constructions and separations, and black box separations.

Access Control, Authentication, and Public Key Infrastructure provides a unique, in-depth look at how access controls protect resouces against unauthorized viewing, tampering, or destruction and serves as a primary means of ensuring privacy, confidentiality, and prevention of unauthorized disclosure. Written by industry experts, this book defines the components of access control, provides a business framework for implementation, and discusses legal requirements that impact access control programs, before looking at the risks, threats, and vulerabilities prevalent in information systems and IT infrastructures and ways of handling them. Using examples and exercises, this book incorporates hands-on activities to prepare readers to successfully put access control systems to work as well as test and manage them. The Jones & Bartlett Learning: Information Systems Security & Assurance Series delivers fundamental IT Security principles packed with real-world applications and examples for IT Security, Cybersecurity, Information Assurance, and Information Systems Security programs, Authored by Certified Information Systems Security Professionals (CISSPs), and reviewed by leading technical experts in the field, these books are current, forward-thinking resources that enable readers to solve the cybersecurity challenges of today and tomorrow.

Cryptography and Network Security

Decrypted: A financial trader's take on cryptocurrency

Linux Bible

Theory of Cryptography

Introduction to the New Mainframe: Security

Access Control, Authentication, and Public Key Infrastructure

In 2009, an anonymous programmer releases a new method of paying and being paid to the world. No one runs it; no one controls it; no authority verifies it. In this, its creator promises, is a way around banks and governments, around laws and regulations, and around failure itself. Less than a decade on, the technology known as Bitcoin is soaring in demand, and a single unit is valued in the thousands. It has spawned hundreds of clones, and its underlying blockchain technology has created a revolution in computing. It has legally made millionaires of thousands of ordinary people. Decrypted shows you, in plain, no-nonsense terms, exactly how that happened. Cryptocurrency and startup pioneer Leng Hoe Lon walks you through how cryptos like Bitcoin work and get their value, their strengths and weaknesses, their implications for the world... and how they fit in your investment plans. Will you join the cryptocurrency revolution, or ignore it as a passing fad? It's up to you to check out the facts, and decide for yourself. This book will show you what you need to know.

Presenting cutting-edge insights from industry practitioners, .NET 4 for Enterprise Architects and Developers supplies in-depth coverage of the various server-side features of Microsoft .NET Framework 4 that can be leveraged in Enterprise Application development. It provides a fundamental understanding of the technical aspects of implementation and details a step-by-step approach for real-life implementation using specific .NET 4 features. The book is useful to architects, developers, students, and technology enthusiasts who wish to learn more about .NET 4. It illustrates key scenarios and specific features with code snippets to help you understand the technical aspects of implementation. Praise for the book: ... presents broad and deep coverage of key technologies released as part of .NET Framework 4. —Kris Gopalakrishnan, Executive Co-Chairman, Chairperson, Executive Council of Infosys Ltd. ... the authors introduce us to new features of .NET, provide deep insights into it, and explain how it can be applied in enterprise application development scenarios. ... highly recommended ... . —Naveen Kumar, Principal Architect, Microsoft Technology Center, Infosys Ltd. ... excellent in-depth coverage of .NET Framework 4 ... . —Subu Goparaju, Senior Vice President, Head of Infosys Labs, Infosys Ltd.

Locally computable (NC0) functions are "simple" functions for which every bit of the output can be computed by reading a small number of bits of their input. The study of locally computable cryptography attempts to construct cryptographic functions that achieve this strong notion of simplicity and simultaneously provide a high level of security. Such constructions are highly parallelizable and they can be realized by Boolean circuits of constant depth. This book establishes, for the first time, the possibility of local implementations for many basic cryptographic primitives such as one-way functions, pseudorandom generators, encryption schemes and digital signatures. It also extends these results to other stronger notions of locality, and addresses a wide variety of fundamental questions about local cryptography. The author's related thesis was honorably mentioned (runner-up) for the ACM Dissertation Award in 2007, and this book includes some expanded sections and proofs, and notes on recent developments. The book assumes only a minimal background in computational complexity and cryptography and is therefore suitable for graduate students or researchers in related areas who are interested in parallel cryptography. It also introduces general techniques and tools which are likely to interest experts in the area.

Advances in Computer and Information Sciences and Engineering includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Computer Science, Software Engineering, Computer Engineering, and Systems Engineering and Sciences. Advances in Computer and Information Sciences and Engineering includes selected papers from the conference proceedings of the International Conference on Systems, Computing Sciences and Software Engineering (SCSS 2007) which was part of the International Joint Conferences on Computer, Information and Systems Sciences and Engineering (CISSE 2007).

Decrypted Secrets

Black Hat Go

Everyday Cryptography

GM/T 0059-2018: Translated English of Chinese Standard (GMT 0059-2018, GM/T0059-2018, GMT0059-2018)

Preparing for the Day When Quantum Computing Breaks Today's Crypto

Cryptography Decrypted

This document is designed to be a resource for those Linux users wishing to seek clarification on Linux/UNIX/POSIX related terms and jargon. At approximately 24000 definitions and two thousand pages it is one of the largest Linux related dictionaries currently available. Due to the rapid rate at which new terms are being created it has been decided that this will be an active project. We welcome input into the content of this document. At this moment in time half yearly updates are being envisaged. Please note that if you wish to find a 'Computer Dictionary' then see the 'Computer Dictionary Project' at http://computerdictionary.tsf.org.za/ Searchable databases exist at locations such as: http://www.swpearl.com/eng/scripts/dictionary/ (SWP) Sun Wah-PearL Linux Training and Development Centre is a centre of the Hong Kong Polytechnic University, established in 2000. Presently SWP is delivering professional grade Linux and related Open Source Software (OSS) technology training and consultant service in Hong Kong. SWP has an ambitious aim to promote the use of Linux and related Open Source Software (OSS) and Standards. The vendor independent positioning of SWP has been very well perceived by the market. Throughout the last couple of years, SWP becomes the Top Leading OSS training and service provider in Hong Kong. http://www.geona.com/dictionary?b= Geona, operated by Gold Vision Communications, is a new powerful search engine and internet directory, delivering quick and relevant results on almost any topic or subject you can imagine. The term "Geona" is an Italian and Hebrew name, meaning wisdom, exaltation, pride or majesty. We use our own database of spidered web sites and the Open Directory database, the same database which powers the core directory services for the Web's largest and most popular search engines and portals. Geona is spidering all domains listed in the non-adult part of the Open Directory and millions of additional sites of general interest to maintain a fulltext index of highly relevant web sites. http://www.linuxdig.com/documents/dictionary.php LINUXDIG.COM, "Yours News and Resource Site", LinuxDig.com was started in May 2001 as a hobby site with the original intention of getting the RFC's online and becoming an Open Source software link/download site. But since that time the site has evolved to become a RFC distribution site, linux news site and a locally written technology news site (with bad grammer :)) with focus on Linux while also containing articles about anything and everything we find interesting in the computer world. LinuxDig.Com contains about 20,000 documents and this number is growing everyday! http://linux.about.com/library/glossary/blglossary.htm Each month more than 20 million people visit About.com. Whether it be home repair and decorating ideas, recipes, movie trailers, or car buying tips, our Guides offer practical advice and solutions for every day life. Wherever you land on the new About.com, you'll find other content that is relevant to your interests. If you're looking for "How To" advice on planning to re-finish your deck, we'll also show you the tools you need to get the job done. If you've been to About before, we'll show you the latest updates, so you don't see the same thing twice. No matter where you are on About.com, or how you got here, you'll always find content that is relevant to your needs. Should you wish to possess your own localised searcheable version please make use of the available "dict", http://www.dict.org/ version at the Linux Documentation Project home page, http://www.tldp.org/ The author has decided to leave it up to readers to determine how to install and run it on their specific systems. An alternative form of the dictionary is available at: http://ellibrary.fultus.com/covers/technical/linux/guides/Linux-Dictionary/cover.html Fultus Corporation helps writers and companies to publish, promote, market, and sell books and eBooks. Fultus combines traditional self-publishing practices with modern technology to produce paperback and hardcover print-on-demand (POD) books and electronic books (eBooks). Fultus publishes works (fiction, non-fiction, science fiction, mystery, ...) by both published and unpublished authors. We enable you to self-publish easily and cost-effectively, creating your book as a print-ready paperback or hardcover POD book or as an electronic book (eBook) in multiple eBook's formats. You retain all rights to your work. We provide distribution to bookstores worldwide. And all at a fraction of the cost of traditional publishing. We also offer corporate publishing solutions that enable businesses to produce and deliver manuals and documentation more efficiently and economically. Our use of electronic delivery and print-on-demand technologies reduces printed inventory and saves time. Please inform the author as to whether you would like to create a database or an alternative form of the dictionary so that he can include you in this list. Also note that the author considers breaches of copyright to be extremely serious. He will pursue all claims to the fullest extent of the law.

In an age of explosive worldwide growth of electronic data storage and communications, effective protection of information has become a critical requirement. When used in coordination with other tools for ensuring information security, cryptography in all of its applications, including data confidentiality, data integrity, and user authentication, is a most powerful tool for protecting information. This book presents a collection of research work in the field of cryptography. It discusses some of the critical challenges that are being faced by the current computing world and also describes some mechanisms to defend against these challenges. It is a valuable source of knowledge for researchers, engineers, graduate and doctoral students working in the field of cryptography. It will also be useful for faculty members of graduate schools and universities.

When Practical Unix Security was first published more than a decade ago, it became an instant classic. Crammed with information about host security, it saved many a Unix system administrator from disaster. The second edition added much-needed Internet security coverage and doubled the size of the original volume. The third edition is a comprehensive update of this very popular book - a companion for the Unix/Linux system administrator who needs to secure his or her organization's system, networks, and web presence in an increasingly hostile world.Focusing on the four most popular Unix variants today--Solaris, Mac OS X, Linux, and FreeBSD--this book contains new information on PAM (Pluggable Authentication Modules), LDAP, SMB/Samba, anti-theft technologies, embedded systems, wireless and laptop issues, forensics, intrusion detection, chroot jails, telephone scanners and firewalls, virtual and cryptographic filesystems, WebNFS, kernel security levels, outsourcing, legal issues, new Internet protocols and cryptographic algorithms, and much more.Practical Unix & Internet Security consists of six parts: Computer security basics: introduction to security problems and solutions, Unix history and lineage, and the importance of security policies as a basic element of system security. Security building blocks: fundamentals of Unix passwords, users, groups, the Unix filesystem, cryptography, physical security, and personnel security. Network security: a detailed look at modem and dialup security, TCP/IP, securing individual network services, Sun's RPC, various host and network authentication systems (e.g., NIS, NIS+, and Kerberos), NFS and other filesystems, and the importance of secure programming. Secure operations: keeping up to date in today's changing security world, backups, defending against attacks, performing integrity management, and auditing. Handling security incidents: discovering a break-in, dealing with programmed threats and denial of service attacks, and legal aspects of computer security. Appendixes: a comprehensive security checklist and a detailed bibliography of paper and electronic references for further reading and research. Packed with 1000 pages of helpful text, scripts, checklists, tips, and warnings, this third edition remains the definitive reference for Unix administrators and anyone who cares about protecting their systems and data from today's threats.

Will your organization be protected the day a quantum computer breaks encryption on the internet? Computer encryption is vital for protecting users, data, and infrastructure in the digital age. Using traditional computing, even common desktop encryption could take decades for specialized 'crackers' to break and government and infrastructure-grade encryption would take billions of times longer. In light of these facts, it may seem that today's computer cryptography is a rock-solid way to safeguard everything from online passwords to the backbone of the entire internet. Unfortunately, many current cryptographic methods will soon be obsolete. In 2016, the National Institute of Standards and Technology (NIST) predicted that quantum computers will soon be able to break the most popular forms of public key cryptography. The encryption technologies we rely on every day—HTTPS, TLS, WiFi protection, VPNs, cryptocurrencies, PKI, digital certificates, smartcards, and most two-factor authentication—will be virtually useless. . . unless you prepare. Cryptography Apocalypse is a crucial resource for every IT and InfoSec professional for preparing for the coming quantum-computing revolution. Post-quantum crypto algorithms are already a reality, but implementation will take significant time and computing power. This practical guide helps IT leaders and implementers make the appropriate decisions today to meet the challenges of tomorrow. This important book: Gives a simple quantum mechanics primer Explains how quantum computing will break current cryptography Offers practical advice for preparing for a post-quantum world Presents the latest information on new cryptographic methods Describes the appropriate steps leaders must take to implement existing solutions to guard against quantum-computer security threats Cryptography Apocalypse: Preparing for the Day When Quantum Computing Breaks Today's Crypto is a must-have guide for anyone in the InfoSec world who needs to know if their security is ready for the day crypto break and how to fix it.

CCSP CSVPN Exam Cram 2 (Exam Cram 642-511)

Cryptography Apocalypse

Electronic Signatures in International Contracts

PCI Compliance

Practical UNIX and Internet Security

This book constitutes the thoroughly refereed post-conference proceedings of the 12th International Conference on Financial Cryptography and Data Security, FC 2008, held in Cozumel, Mexico, in January 2008. The 16 revised full papers and 9 revised short papers presented together with 5 poster papers, 2 panel reports, and 1 invited lecture were carefully reviewed and selected from 86 submissions. The papers are organized in topical sections on attacks and counter measures, protocols, theory, hardware, chips and tags, signatures and encryption, as well as anonymity and e-cash.

Although organizations that store, process, or transmit cardholder information are required to comply with payment card industry standards, most find it extremely challenging to comply with and meet the requirements of these technically rigorous standards. PCI Compliance: The Definitive Guide explains the ins and outs of the payment card industry (PCI) security standards in a manner that is easy to understand. This step-by-step guidebook delves into PCI standards from an implementation standpoint. It begins with a basic introduction to PCI compliance, including its history and evolution. It then thoroughly and methodically examines the specific requirements of PCI compliance. PCI requirements are presented along with notes and assessment techniques for auditors and assessors. The text outlines application development and implementation strategies for Payment Application Data Security Standard (PA-DSS) implementation and validation. Explaining the PCI standards from an implementation standpoint, it clarifies the intent of the standards on key issues and challenges that entities must overcome in their quest to meet compliance requirements. The book goes beyond detailing the requirements of the PCI standards to delve into the multiple implementation strategies available for achieving PCI compliance. The book includes a special appendix on the recently released PCI-DSS v 3.0. It also contains case studies from a variety of industries undergoing compliance, including banking, retail, outsourcing, software development, and processors. Outlining solutions extracted from successful real-world PCI implementations, the book ends with a discussion of PA-DSS standards and validation requirements.

Originally presented as the author's thesis (doctoral)--Freiburg (Breisgau), Universiteat, 2008.

As industries are rapidly being digitalized and information is being more heavily stored and transmitted online, the security of information has become a top priority in securing the use of online networks as a safe and effective platform. With the vast and diverse potential of artificial intelligence (AI) applications, it has become easier than ever to identify cyber vulnerabilities, potential threats, and the identification of solutions to these unique problems. The latest tools and technologies for AI applications have untapped potential that conventional systems and human security systems cannot meet, leading AI to be a frontrunner in the fight against malware, cyber-attacks, and various security issues. However, even with the tremendous progress AI has made within the sphere of security, it's important to understand the impacts, implications, and critical issues and challenges of AI applications along with the many benefits and emerging trends in this essential field of security-based research. Research Anthology on Artificial Intelligence Applications in Security seeks to address the fundamental advancements and technologies being used in AI applications for the security of digital data and information. The included chapters cover a wide range of topics related to AI in security stemming from the development and design of these applications, the latest tools and technologies, as well as the utilization of AI and what challenges and impacts have been discovered along the way. This resource work is a critical exploration of the latest research on security and an overview of how AI has impacted the field and will continue to advance as an essential tool for security, safety, and privacy online. This book is ideally intended for cyber security analysts, computer engineers, IT specialists, practitioners, stakeholders, researchers, academicians, and students interested in AI applications in the realm of security research.

Cryptography and Public Key Infrastructure on the Internet

15th International Conference, HCI International 2013, Las Vegas, NV, USA, July 21-26, 2013, Proceedings, Part III

Go Programming For Hackers and Pentesters

Research Anthology on Artificial Intelligence Applications in Security

Codes, Ciphers, and Their Algorithms

Fundamental Principles and Applications

Cryptography is a vital technology that underpins the security of information in computer networks. This book presents a comprehensive introduction to the role that cryptography plays in providing information security for technologies such as the Internet, mobile phones, payment cards, and wireless local area networks. Focusing on the fundamental principles that ground modern cryptography as they arise in modern applications, it avoids both an over-reliance on transient current technologies and over-whelming theoretical research. Everyday Cryptography is a self-contained and widely accessible introductory text. Almost no prior knowledge of mathematics is required since the book deliberately avoids the details of the mathematical techniques underpinning cryptographic mechanisms, though a short appendix is included for those looking for a deeper appreciation of some of the concepts involved. By the end of this book, the reader will not only be able to understand the practical issues concerned with the deployment of cryptographic mechanisms, including the management of cryptographic keys, but will also be able to interpret future developments in this fascinating and increasingly important area of technology.

Learn to evaluate and compare data encryption methods and attack cryptographic systems Key Features Explore popular and important cryptographic methods Compare cryptographic modes and understand their limitations Learn to perform attacks on cryptographic systems Book Description Cryptography is essential for protecting sensitive information, but it is often performed inadequately or incorrectly. Hands-On Cryptography with Python starts by showing you how to encrypt and evaluate your data. The book will then walk you through various data encryption methods,such as obfuscation, hashing, and strong encryption, and will show how you can attack cryptographic systems. You will learn how to create hashes, crack them, and will understand why they are so different from each other. In the concluding chapters, you will use three NIST-recommended systems: the Advanced Encryption Standard (AES), the Secure Hash Algorithm (SHA), and the Rivest-Shamir-Adleman (RSA). By the end of this book, you will be able to deal with common errors in encryption. What you will learn Protect data with encryption and hashing Explore and compare various encryption methods Encrypt data using the Caesar Cipher technique Make hashes and crack them Learn how to use three NIST-recommended systems: AES, SHA, and RSA Understand common errors in encryption and exploit them Who this book is for Hands-On Cryptography with Python is for security professionals who want to learn to encrypt and evaluate data, and compare different encryption methods.

Cryptology, for millennia a "secret science", is rapidly gaining in practical importance for the protection of communication channels, databases, and software. Beside its role in computerized information systems, cryptology is finding more and more applications inside computer systems and networks, extending to access rights and source file protection. The first part of this book treats secret codes and their uses - cryptography - before moving on to the process of covertly decrypting a secret code - cryptanalysis. Spiced with a wealth of exciting, amusing, and occasionally personal stories from the history of cryptology, and presupposing only elementary mathematical knowledge, this book will also stimulate general readers.

Be a Hacker with Ethics

Cryptography's Role in Securing the Information Society

Techniques and Applications

10th International Conference, FC 2006 Anguilla, British West Indies, February 27 - March 2, 2006, Revised Selected Papers

Advances in Computer and Information Sciences and Engineering

History of Cryptography and Cryptanalysis

Human-Computer Interaction: Users and Contexts of Use

This best-selling guide provides a complete, practical, and thoroughly up-to-date introduction to network and computer security. COMPTIA SECURITY+ GUIDE TO NETWORK SECURITY FUNDAMENTALS, Seventh Edition, maps to the new CompTIA Security+ SY0-601 Certification Exam, providing comprehensive coverage of all domain objectives to help readers prepare for professional certification and career success. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

[After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net] This standard specifies the test requirements and test methods for cryptographic server devices. This standard applies to the testing of cryptographic server devices, as well as the research & development of such cryptographic devices. It may also be used to guide application development based on such cryptographic devices.

This book constitutes the thoroughly refereed post-proceedings of the 10th International Conference on Financial Cryptography and Data Security, FC 2006, held in Anguilla, British West Indies in February/March 2006. The 19 revised full papers and six revised short papers presented were carefully reviewed and selected from 64 submissions. The papers are organized in topical sections.

Cryptography is the science of information security, and in its computer-oriented form it concerns itself with ways to hide information in storage and transit, mostly by scrambling plain text into cipher text (encryption) and back again (decryption).

Hands-On Cryptography with Python

Encyclopedia of Cryptography and Security

Financial Cryptography and Data Security

Leverage the power of Python to encrypt and decrypt data

Cryptography in Constant Parallel Time

Be a Hacker with Ethics

The five-volume set LNCS 8004–8008 constitutes the refereed proceedings of the 15th International Conference on Human-Computer Interaction, HCII 2013, held in Las Vegas, NV, USA in July 2013. The total of 1666 papers and 303 posters presented at the HCII 2013 conferences was carefully reviewed and selected from 5210 submissions. These papers address the latest research and development efforts and highlight the human aspects of design and use of computing systems. The papers accepted for presentation thoroughly cover the entire field of human-computer interaction, addressing major advances in knowledge and effective use of computers in a variety of application areas. This volume contains papers in the thematic area of human-computer interaction, addressing the following major topics: identity, privacy and trust; user studies; interaction for society and community; HCI for business and innovation.

Cryptography DecryptedAddison-Wesley Professional

In today's unsafe and increasingly wired world cryptology plays a vital role in protecting communication channels, databases, and software from unwanted intruders. This revised and extended third edition of the classic reference work on cryptology now contains many new technical and biographical details. The first part treats secret codes and their uses - cryptography. The second part deals with the process of covertly decrypting a secret code - cryptanalysis, where particular advice on assessing methods is given. The book presupposes only elementary mathematical knowledge. Spiced with a wealth of exciting, amusing, and sometimes personal stories from the history of cryptology, it will also interest general readers.

This book provides students of information systems with the background knowledge and skills necessary to begin using the basic security facilities of IBM System z. It enables a broad understanding of both the security principles and the hardware and software components needed to insure that the mainframe resources and environment are secure. It also explains how System z components interface with some non-System z components. A multi-user, multi-application, multi-task environment such as System z requires a different level of security than that typically encountered on a single-user platform. In addition, when a mainframe is connected in a network to other processors, a multi-layered approach to security is recommended. Students are assumed to have successfully completed introductory courses in computer system concepts. Although this course looks into all the operating systems on System z, the main focus is on IBM z/OS. Thus, it is strongly recommended that students have also completed an introductory course on z/OS. Others who will benefit from this course include experienced data processing professionals who have worked with non-mainframe-based platforms, as well as those who are familiar with some aspects of the mainframe environment or applications but want to learn more about the security and integrity facilities and advantages offered by the mainframe environment.

Linux Dictionary

Securing Solaris, Mac OS X, Linux & Free BSD

Hacking

The Definitive Guide

Grid Computing

CompTIA Security + Guide to Network Security Fundamentals

With the rise of mobile and wireless technologies, more sustainable networks are necessary to support communication. These next-generation networks can now be utilized to extend the growing era of the Internet of Things. Enabling Technologies and Architectures for Next-Generation Networking Capabilities is an essential reference source that explores the latest research and trends in large-scale 5G technologies deployment, software-defined networking, and other emerging network technologies. Featuring research on topics such as data management, heterogeneous networks, and spectrum sensing, this book is ideally designed for computer engineers, technology developers, network administrators and researchers, professionals, and graduate-level students seeking coverage on current and future network technologies.

Your resource to passing the Cisco CCSP CSVPN Exam! Join the ranks of readers who have trusted Exam Cram 2 to their certification preparation needs! TheCCSP CSVPN Exam Cram 2 (Exam 642-511)is focused on what you need to know to pass the CCSP CSI exam. The Exam Cram 2 Method of Study provides you with a concise method to learn the exam topics. The book includes tips, exam notes, acronyms and memory joggers in order to help you pass the exam. Included in the CCSP CSVPN Exam Cram 2: A tear-out "Cram Sheet" for last minute test preparation. Covers the current exam objectives for the 642-511. The PrepLogic Practice Tests, test engine to simulate the testing environment and test your knowledge. Trust in the series that has helped many others achieve certification success -Exam Cram 2.

This accessible textbook presents a fascinating review of cryptography and cryptanalysis across history. The text relates the earliest use of the monoalphabetic cipher in the ancient world, the development of the "unbreakable" Vigenère cipher, and an account of how cryptology entered the arsenal of military intelligence during the American Revolutionary War. Moving on to the American Civil War, the book explains how the Union solved the Vigenère ciphers used by the Confederates, before investigating the development of cipher machines throughout World War I and II. This is then followed by an exploration of cryptology in the computer age, from public-key cryptography and web security, to criminal cyber-attacks and cyber-warfare. Looking to the future, the role of cryptography in the Internet of Things is also discussed, along with the potential impact of quantum computing. Topics and features: presents a history of cryptology from ancient Rome to the present day, with a focus on cryptology in the 20th and 21st centuries; reviews the different types of cryptographic algorithms used to create secret messages, and the various methods for breaking such secret messages; provides engaging examples throughout the book illustrating the use of cryptographic algorithms in different historical periods; describes the notable contributions to cryptology of Herbert Yardley, William and Elizebeth Smith Friedman, Lester Hill, Agnes Meyer Driscoll, and Claude Shannon; concludes with a review of tantalizing unsolved mysteries in cryptology, such as the Voynich Manuscript, the Beale Ciphers, and the Kryptos sculpture. This engaging work is ideal as both a primary text for courses on the history of cryptology, and as a supplementary text for advanced undergraduate courses on computer security. No prior background in mathematics is assumed, beyond what would be encountered in an introductory course on discrete mathematics.

A clear, comprehensible, and practical guide to the essentials of computer cryptography, from Caesar's Cipher through modern-day public key. Cryptographic capabilities like detecting imposters and stopping eavesdropping are thoroughly illustrated with easy-to-understand analogies, visuals, and historical sidebars. The student needs little or no background in cryptography to read Cryptography Decrypted. Nor does it require technical or mathematical expertise. But for those with some understanding of the subject, this book is comprehensive enough to solidify knowledge of computer cryptography and challenge those who wish to explore the high-level math appendix.

8th Theory of Cryptography Conference, TCC 2011, Providence, RI, USA, March 28-30, 2011, Proceedings

Theory and Practice of Cryptography and Network Security Protocols and Technologies

Methods and Maxims of Cryptology

The .NET and COM Interoperability Handbook

Contemporary Cryptography, Second Edition

12th International Conference, FC 2008, Cozumel, Mexico, January 28-31, 2008. Revised Selected Papers

Like the best-selling Black Hat Python, Black Hat Go explores the darker side of the popular Go programming language. This collection of short scripts will help you test your systems, build and automate tools to fit your needs, and improve your offensive security skillset. Black Hat Go explores the darker side of Go, the popular programming language revered by hackers for its simplicity, efficiency, and reliability. It provides an arsenal of practical tactics from the perspective of security practitioners and hackers to help you test your systems, build and automate tools to fit your needs, and improve your offensive security skillset, all using the power of Go. You'll begin your journey with a basic overview of Go's syntax and philosophy and then start to explore examples that you can leverage for tool development, including common network protocols like HTTP, DNS, and SMB. You'll then dig into various tactics and problems that penetration testers encounter, addressing things like data pilfering, packet sniffing, and exploit development. You'll create dynamic, pluggable tools before diving into cryptography, attacking Microsoft Windows, and implementing steganography. You'll learn how to: • Make performant tools that can be used for your own security projects • Create usable tools that interact with remote APIs • Scrape arbitrary HTML data • Use Go's standard package, net/http, for building HTTP servers • Write your own DNS server and proxy • Use DNS tunneling to establish a C2 channel out of a restrictive network • Create a vulnerability fuzzer to discover an application's security weaknesses • Use plug-ins and extensions to future-proof productsBuild an RC2 symmetric-key brute-forcer • Implant data within a Portable Network Graphics (PNG) image. Are you ready to add to your arsenal of security tools? Then let's Go!

This comprehensive encyclopedia provides easy access to information on all aspects of cryptography and security. The work is intended for students, researchers and practitioners who need a quick and authoritative reference to areas like data protection, network security, operating systems security, and more.

Whether you're new to the field or looking to broaden your knowledge of contemporary cryptography, this newly revised edition of an Artech House classic puts all aspects of this important topic into perspective. Delivering an accurate introduction to the current state-of-the-art in modern cryptography, the book offers you an in-depth understanding of essential tools and applications to help you with your daily work. The second edition has been reorganized and expanded, providing mathematical fundamentals and important cryptography principles in the appropriate appendixes, rather than summarized at the beginning of the book. Now you find all the details you need to fully master the material in the relevant sections. This allows you to quickly delve into the practical information you need for your projects. Covering unkeyed, secret key, and public key cryptosystems, this authoritative reference gives you solid working knowledge of the latest and most

critical concepts, techniques, and systems in contemporary cryptography. Additionally, the book is supported with over 720 equations, more than 60 illustrations, and numerous time-saving URLs that connect you to websites with related information.

For every opportunity presented by the information age, there is an opening to invade the privacy and threaten the security of the nation, U.S. businesses, and citizens in their private lives. The more information that is transmitted in computer-readable form, the more vulnerable we become to automated spying. It's been estimated that some 10 billion words of computer-readable data can be searched for as little as $1. Rival companies can glean proprietary secrets . . . anti-U.S. terrorists can research targets . . . network hackers can do anything from charging purchases on someone else's credit card to accessing military installations. With patience and persistence, numerous pieces of data can be assembled into a revealing mosaic. Cryptography's Role in Securing the Information Society addresses the urgent need for a strong national policy on cryptography that promotes and encourages the widespread use of this powerful tool for protecting of the information interests of individuals, businesses, and the nation as a whole, while respecting legitimate national needs of law enforcement and intelligence for national security and foreign policy purposes. This book presents a comprehensive examination of cryptography--the representation of messages in code--and its transformation from a national security tool to a key component of the global information superhighway. The committee enlarges the scope of policy options and offers specific conclusions and recommendations for decision makers. Cryptography's Role in Securing the Information Society explores how all of us are affected by information security issues: private companies and businesses; law enforcement and other agencies; people in their private lives. This volume takes a realistic look at what cryptography can and cannot do and how its development has been shaped by the forces of supply and demand. How can a business ensure that employees use encryption to protect proprietary data but not to conceal illegal actions? Is encryption of voice traffic a serious threat to legitimate law enforcement wiretaps? What is the systemic threat to the nation's information infrastructure? These and other thought-provoking questions are explored. Cryptography's Role in Securing the Information Society provides a detailed review of the Escrowed Encryption Standard (known informally as the Clipper chip proposal), a federal cryptography standard for telephony promulgated in 1994 that raised nationwide controversy over its "Big Brother" implications. The committee examines the strategy of export control over cryptography: although this tool has been used for years in support of national security, it is increasingly criticized by the vendors who are subject to federal export regulation. The book also examines other less well known but nevertheless critical issues in national cryptography policy such as digital telephony and the interplay between international and national issues. The themes of Cryptography's Role in Securing the Information Society are illustrated throughout with many examples -- some alarming and all instructive -- from the worlds of government and business as well as the international network of hackers. This book will be of critical importance to everyone concerned about electronic security: policymakers, regulators, attorneys, security officials, law enforcement agents, business leaders, information managers, program developers, privacy advocates, and Internet users.

Enabling Technologies and Architectures for Next-Generation Networking Capabilities

Cryptography

.NET 4 for Enterprise Architects and Developers

Cryptographic server test specifications [After payment, write to & get a FREE-of-charge, unprotected true-PDF from: Sales@ChineseStandard.net]

COM/COM+. and .NET will need to interoperate for a long time to come as companies undergo the migration to .NET. Gordon's book is a natural fit for anyone with COM applications that need to work with .NET, as it provides practical migration advice for developers moving their applications from COM/COM+ to .NET.

Designed for senior undergraduate and first-year graduate students, Grid Computing: Techniques and Applications shows professors how to teach this subject in a practical way. Extensively classroom-tested, it covers job submission and scheduling, Grid security, Grid computing services and software tools, graphical user interfaces, workflow editors, and Grid-enabling applications. The book begins with an introduction that discusses the use of a Grid computing Web-based portal. It then examines the underlying action of job submission using a command-line interface and the use of a job scheduler. After describing both general Internet security techniques and specific security mechanisms developed for Grid computing, the author focuses on Web services technologies and how they are adopted for Grid computing. He also discusses the advantages of using a graphical user interface over a command-line interface and presents a graphical workflow editor that enables users to compose sequences of computational tasks visually using a simple drag-and-drop interface. The final chapter explains how to deploy applications on a Grid. The Grid computing platform offers much more than simply running an application at a remote site. It also enables multiple, geographically distributed computers to collectively obtain increased speed and fault tolerance. Illustrating this kind of resource discovery, this practical text encompasses the varied and interconnected aspects of Grid computing, including how to design a system infrastructure and Grid portal. Supplemental Web Resources The author's Web site offers various instructional resources, including slides and links to software for programming assignments. Many of these assignments do not require access to a Grid platform. Instead, the author provides step-by-step instructions for installing open-source software to deploy and test Web and Grid services, a Grid computing workflow editor to design and test workflows, and a Grid computing portal to deploy portlets.