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Al-Hamami, Alaa Hussein

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CompTIA Network+ N10-005 Cert Guide Kevin Wallace,2011-11-17 Learn, prepare, and practice for CompTIA Network+ N10-005 exam success with this CompTIA Authorized Cert Guide from Pearson IT Certification, a leader in IT Certification learning and a CompTIA Authorized Platinum Partner. This is the eBook version of the print title. Note that the eBook does not provide access to the practice test software that accompanies the print book. Access to the personal video mentoring is available through product registration at Pearson IT Certification; or see instructions in back pages of your eBook. Master Network+ exam topics Assess your knowledge with chapter-ending quizzes Review key concepts with exam preparation tasks Limited Time Offer: Buy CompTIA Network+ N10-005 Authorized Cert Guide and receive a 10% off discount code for the CompTIA Network+ N10-005 exam. To receive your 10% off discount code: 1. Register your product at pearsonITcertification.com/register 2. When prompted, enter ISBN number 9780789748218 3. Go to your Account page and click on “Access Bonus Content” CompTIA Network+ N10-005 Authorized Cert Guide is a best-of-breed exam study guide. Best-selling author and expert instructor Kevin Wallace shares preparation hints and test-taking tips, helping you identify areas of weakness and improve both your conceptual knowledge and hands-on skills. Material is presented in a concise manner, focusing on increasing your understanding and retention of exam topics. The book presents you with an organized test preparation routine through the use of proven series elements and techniques. Exam topic lists make referencing easy. Chapter-ending Exam Preparation Tasks help you drill on key concepts you must know thoroughly. Review questions help you assess your knowledge, and a final preparation chapter guides you through tools and resources to help you craft your final study plan. The book also contains more than three hours of personal video mentoring from the author. Well-regarded for its level of detail, assessment features, and challenging review questions and exercises, this authorized study guide helps you master the concepts and techniques that will enable you to succeed on the exam the first time. The authorized study guide helps you master all the topics on the Network+ exam, including: Computer networks and the OSI model Network components Ethernet IP addressing Routing traffic Wide Area Networks (WANs) Wireless LANs Network performance Command-line utilities Network management Network security Troubleshooting Kevin Wallace, CCIE No. 7945, is one of the most prolific and best-selling authors in the networking industry. He is a certified Cisco instructor, and he holds multiple certifications including CCNP, CCNP Voice, CCNP Security, and CCDP, in addition to multiple security and voice specializations. With networking experience dating back to 1989 (and computer experience dating back to 1982), Kevin is a Senior Technical Instructor for SkillSoft. Kevin has been a network design specialist for the Walt Disney World Resort and a network manager for Eastern Kentucky University.

Trust, Privacy and Security in Digital Business Steven Furnell,Haralambos Mouratidis,Günther Pernul,2018-08-20 This book constitutes the refereed proceedings of the 15th International Conference on Trust, Privacy and Security in Digital Business, TrustBus 2018, held in Regensburg, Germany, in September 2018 in conjunction with DEXA 2018. The 15 revised full papers presented were carefully reviewed and selected from 29 submissions. The papers are organized in the following topical sections: Permission models and cloud, privacy, proactive security measures, and cyber physical systems.

Information Security Xuejia Lai,Jianying Zhou,Hui Li,2011-10-13 This book constitutes the refereed proceedings of the 14th International Conference on Information Security, ISC 2011, held in Xi'an, China, in October 2011. The 25 revised full papers were carefully reviewed and selected from 95 submissions. The papers are organized in topical sections on attacks; protocols; public-key cryptosystems; network security; software security; system security; database security; privacy; digital signatures.

Emerging Security Algorithms and Techniques Khaleel Ahmad,M. N. Doja,Nur Izura Udzir,Manu Pratap Singh,2019-05-20 Cyber security is the protection of information systems, hardware, software, and information as well from theft, damages, interruption or misdirection to any of these resources. In other words, cyber security focuses on protecting computers, networks, programs and data (in use, in rest, in motion) from unauthorized or unintended access, change or destruction. Therefore, strengthening the security and resilience of cyberspace has become a vital homeland security mission. Cyber security attacks are growing exponentially. Security specialists must occupy in the lab, concocting new schemes to preserve the resources and to control any new attacks. Therefore, there are various emerging algorithms and techniques viz. DES, AES, IDEA, WAKE, CAST5, Serpent Algorithm, Chaos-Based Cryptography McEliece, Niederreiter, NTRU, Goldreich-Goldwasser-Halevi, Identity Based Encryption, and Attribute Based Encryption. There are numerous applications of security algorithms like cyber security, web security, e-commerce, database security, smart card technology, mobile security, cloud security, digital signature, etc. The book offers comprehensive coverage of the most essential topics, including: Modular Arithmetic, Finite Fields Prime Number, DLP, Integer Factorization Problem Symmetric Cryptography Asymmetric Cryptography Post-Quantum Cryptography Identity Based Encryption Attribute Based Encryption Key Management Entity Authentication, Message Authentication Digital Signatures Hands-On SageMath This book serves as a textbook/reference book for UG, PG, PhD students, Teachers, Researchers and Engineers in the disciplines of Information Technology, Computer Science and Engineering, and Electronics and Communication Engineering.

Handbook of Research on Threat Detection and Countermeasures in Network Security Al-Hamami, Alaa Hussein,2014-10-31 Cyber attacks are rapidly becoming one of the most prevalent issues in the world. As cyber crime continues to escalate, it is imperative to explore new approaches and technologies that help ensure the security of the online community. The Handbook of Research on Threat Detection and Countermeasures in Network Security presents the latest methodologies and trends in detecting and preventing network threats. Investigating the potential of current and emerging security technologies, this publication is an all-inclusive reference source for academicians, researchers, students, professionals, practitioners, network analysts, and technology specialists interested in the simulation and application of computer network protection.

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 all software assets are protected and safe. Architecting Secure Software Systems defines how security should be incorporated into basic software engineering at the requirement analysis phase, continuing this sharp focus into security design, secured programming, security testing, and secured deployment. Outlines Protection Protocols for Numerous Applications Through the use of examples, this volume defines a myriad of security vulnerabilities and their resultant threats. It details how to do a security requirement analysis and outlines the security development lifecycle. The authors examine security architectures and threat countermeasures for UNIX, .NET, Java, mobile, and Web environments. Finally, they explore the security of telecommunications and other distributed services through Service Oriented Architecture (SOA). The book employs a versatile multi-platform approach that allows users to seamlessly integrate the material into their own programming paradigm regardless of their individual programming backgrounds. The text also provides real-world code snippets for experimentation. Define a Security Methodology from the Initial Phase of Development Almost all assets in our lives have a virtual presence and the convergence of computer information and telecommunications makes these assets accessible to everyone in the world. This volume enables developers, engineers, and architects to approach security in a holistic fashion at the beginning of the software development lifecycle. By securing these systems from the project's inception, the monetary and personal privacy catastrophes caused by weak systems can potentially be avoided.

Implementing Cisco Unified Communications Manager, Part 2 (CIPT2) (Authorized Self-Study Guide) Chris Olsen,2008-10-09 Authorized Self-Study Guide Implementing Cisco Unified Communications Manager Part 2 (CIPT2) Foundation learning for CIPT2 exam 642-456 Chris Olsen Implementing Cisco Unified Communications Manager, Part 2 (CIPT2), is a Cisco®-authorized, self-paced learning tool for CCVP® foundation learning. This book provides you with the knowledge needed to install and configure a Cisco Unified Communications Manager solution in a multisite environment. By reading this book, you will gain a thorough understanding of how to apply a dial plan for a multisite environment, configure survivability for remote sites during WAN failure, implement solutions to reduce bandwidth requirements in the IP WAN, enable Call

Admission Control (CAC) and automated alternate routing (AAR), and implement device mobility, extension mobility, Cisco Unified Mobility, and voice security. This book focuses on Cisco Unified CallManager Release 6.0, the call routing and signaling component for the Cisco Unified Communications solution. It also includes H.323 and Media Gateway Control Protocol (MGCP) gateway implementation, the use of a Cisco Unified Border Element, and configuration of Survivable Remote Site Telephony (SRST), different mobility features, and voice security. Whether you are preparing for CCVP certification or simply want to gain a better understanding of deploying Cisco Unified Communications Manager in a multisite environment, you will benefit from the foundation information presented in this book. Implementing Cisco Unified Communications Manager, Part 2 (CIPT2), is part of a recommended learning path from Cisco that includes simulation and hands-on training from authorized Cisco Learning Partners and self-study products from Cisco Press. To find out more about instructor-led training, e-learning, and hands-on instruction offered by authorized Cisco Learning Partners worldwide, please visit www.cisco.com/go/authorizedtraining. Chris Olsen is the president and founder of System Architects, Inc., a training and consulting firm specializing in Cisco, Microsoft, and Novell networking; IP telephony; and information technologies. Chris has been teaching and consulting in the networking arena for more than 15 years. He currently holds his CCNA®, CCDA®, CCNP®, and CCVP certifications, as well as various Microsoft certifications. Identify multisite issues and deployment solutions Implement multisite connections Apply dial plans for multisite deployments Examine remote site redundancy options Deploy Cisco Unified Communications Manager Express in SRST mode Implement bandwidth management, call admission control (CAC), and call applications on Cisco IOS® gateways Configure device, extension mobility, and Cisco unified mobility Understand cryptographic fundamentals and PKI Implement security in Cisco Unified Communications Manager This volume is in the Certification Self-Study Series offered by Cisco Press®. Books in this series provide officially developed self-study solutions to help networking professionals understand technology implementations and prepare for the Cisco Career Certifications examinations. Category: Cisco Unified Communications Manager 6.0 Covers: CIPT2 Exam 642-456

Computing Concepts for Information Technology Bob Brown, 2023-08-03 Computing Concepts for Information Technology explains how computers really work, including how images, sounds, and video are represented by numbers and how chips with millions of transistors process those numbers. Computing Concepts for Information Technology is suitable for people with no prior study of computer systems, although it may be helpful to have experience with a high-level programming language such as Java or Python. Computing Concepts for Information Technology tells a story that begins in the 19th century and shows that the Internet, phones, tablets, and laptops that are so much a part of our lives did not spring fully formed from a Silicon Valley campus. On the inside, computers are all about numbers, and the story continues with numbers and number systems. It reveals the mysteries of binary numbers and explains why computers use a number system different from the one we use every day. One of the reviewers of the book remarked that students of computing should know enough about the digital logic that makes computers work to believe that what's inside is not little green Martians with calculators, and the book provides a thorough explanation. Input and output, data communications, computer software, and information security are covered at a fundamental level and provide the necessary background for further study. The beginning of the 21st century is an exciting time for those who make, use, and study computers and computer systems, and this book provides the basis for keeping up with the changes that are taking place right now.

Proceedings of First Asian Symposium on Cellular Automata Technology Sukanta Das, Genaro J. Martinez, 2022-04-27 This book gathers selected research papers presented at the First Asian Symposium on Cellular Automata Technology (ASCAT 2022), organized online by academicians from Kolkata, India, during March 3–5, 2022. The book presents one of the most emergent areas in natural computing, cellular automaton (CA). CA is a paradigm of uniform fine-grained parallel computation which has been explored to understand complex systems by developing its model at the microscopic level. The book discusses many real-life problems in the domain of very large-scale integration (VLSI) design and test, pattern recognition and classification, cryptography, pseudo-random pattern generation, image processing, sensor networks, material science, etc., by using CA.

CompTIA Network+ N10-008 Cert Guide Anthony J. Sequeira, 2021-10-12 CompTIA Network+ N10-008 Cert Guide, Premium Edition eBook and Practice Test The exciting new CompTIA Network+ N10-008 Cert Guide, Premium Edition eBook and Practice Test is a digital-only certification preparation product combining an eBook with enhanced Pearson Test Prep practice test software. The Premium Edition eBook and Practice Test contains the following items: The CompTIA Network+ N10-008 Premium Edition Practice Test, including four full practice exams and enhanced practice test features PDF, EPUB, and Mobi/Kindle formats of CompTIA Network+ N10-008 Cert Guide, which are accessible via your PC, tablet, and Smartphone About the Premium Edition Practice Test This Premium Edition contains an enhanced version of the Pearson Test Prep practice test software with four full practice exams. In addition, it contains all the chapter-opening assessment questions from the book. This integrated learning package: Allows you to focus on individual topic areas or take complete, timed exams Includes direct links from each question to detailed tutorials to help you understand the concepts behind the questions Provides unique sets of exam-realistic practice questions Tracks your performance and provides feedback on a module-by-module basis, laying out a complete assessment of your knowledge to help you focus your study where it is needed most Pearson Test Prep online system requirements: Browsers: latest versions of Chrome, Safari, and Edge; Devices: Desktop and laptop computers, tablets running on Android and iOS, smartphones with a minimum screen size of 4.7. Internet access required. 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Well regarded for its level of detail, study plans, assessment features, challenging review questions and exercises, video instruction, and hands-on labs, this approved study guide helps you master the concepts and techniques that ensure your exam success. Master the topics on the CompTIA Network+ N10-008 exam, including: Network topologies and media types IP addressing Network services Data center architectures and cloud concepts Routing, Ethernet switching, and wireless networking Network availability and disaster recovery Network security Remote access Network troubleshooting In addition to the wealth of content and exam preparation exercises, this edition includes a series of free hands-on exercises to help you master several real-world configuration and troubleshooting activities. These exercises can be performed on the CompTIA Network+ N10-008 Hands-on Lab Simulator Lite software, included free on the companion website that accompanies this book. This software, which simulates the experience of configuring real operating systems and network devices, contains the following 14 free lab exercises: 1. Network Topologies 2. Matching Well-Known Port Numbers 3. TCP/IP Protocols and Their Functions 4. Network Application Protocols 5. OSI Model Layer Functions 6. Contrast Virtualization Technologies and Services 7. Using ARP to Discover a MAC Address 8. IPv4 Address Types and Classes 9. Configuring a Client Network Adapter with an IPv4 Address 10. Configuring a Small Office/Residential Router—Network User Security Settings 11. Matching Wireless Standards and Terminology 12. Using ipconfig, ping, arp, tracert Together to Troubleshoot Connectivity 13. Security Appliance Terminology and Methods 14. Troubleshooting Practice

CompTIA Network+ N10-008 Hands-on Lab Simulator Minimum System Requirements: Windows: Microsoft Windows 10, Windows 8.1; Intel Pentium III or faster; 512 MB RAM (1GB recommended); 1.5 GB hard disk space; 32-bit color depth at 1024x768 resolution Mac: Apple macOS 12, 11, and 10.15; Intel Core Duo 1.83 Ghz or faster; 512 MB RAM (1 GB recommended); 1.5 GB hard disk space; 32-bit color depth at 1024x768 resolution Other applications installed during installation: Adobe AIR 3.8; Captive JRE 6

The Hacker's Handbook Susan Young,Dave Aitel,2003-11-24 This handbook reveals those aspects of hacking least understood by network administrators. It analyzes subjects through a hacking/security dichotomy that details hacking maneuvers and defenses in the same context. Chapters are organized around specific components and tasks, providing theoretical background that prepares network defenders for the always-changing tools and techniques of intruders. Part I introduces programming, protocol, and attack concepts. Part II addresses subject areas (protocols, services, technologies, etc.) that may be vulnerable. Part III details consolidation activities that hackers may use following penetration.

New Technologies, Development and Application II Isak Karabegović,2019-04-23 This book features papers focusing on the implementation of new and future technologies, which were presented at the International Conference on New Technologies, Development and Application, held at the Academy of Science and Arts of Bosnia and Herzegovina in Sarajevo on 27th-29th June 2019. It covers a wide range of future technologies and technical disciplines, including complex systems such as Industry 4.0; robotics; mechatronics systems; automation; manufacturing; cyber-physical and autonomous systems; sensors; networks; control, energy, automotive and biological systems; vehicular networking and connected vehicles; effectiveness and logistics systems, smart grids, as well as nonlinear, power, social and economic systems. We are currently experiencing the Fourth Industrial Revolution "Industry 4.0", and its implementation will improve many aspects of human life in all segments, and lead to changes in business paradigms and production models. Further, new business methods are emerging, transforming production systems, transport, delivery, and consumption, which need to be monitored and implemented by every company involved in the global market.

Implementing Cryptography Using Python Shannon Bray,2020-07-15 Learn to deploy proven cryptographic tools in your applications and services Cryptography is, quite simply, what makes security and privacy in the digital world possible. Tech professionals, including programmers, IT admins, and security analysts, need to understand how cryptography works to protect users, data, and assets. Implementing Cryptography Using Python will teach you the essentials, so you can apply proven cryptographic tools to secure your applications and systems. Because this book uses Python, an easily accessible language that has become one of the standards for cryptography implementation, you'll be able to quickly learn how to secure applications and data of all kinds. In this easy-to-read guide, well-known cybersecurity expert Shannon Bray walks you through creating secure communications in public channels using public-key cryptography. You'll also explore methods of authenticating messages to ensure that they haven't been tampered with in transit. Finally, you'll learn how to use digital signatures to let others verify the messages sent through your services. Learn how to implement proven cryptographic tools, using easy-to-understand examples written in Python Discover the history of cryptography and understand its critical importance in today's digital communication systems Work through real-world examples to understand the pros and cons of various authentication methods Protect your end-users and ensure that your applications and systems are using up-to-date cryptography

Real-World Cryptography David Wong,2021-10-19 A staggeringly comprehensive review of the state of modern cryptography. Essential for anyone getting up to speed in information security. - Thomas Doylend, Green Rocket Security An all-practical guide to the cryptography behind common tools and protocols that will help you make excellent security choices for your systems and applications. In Real-World Cryptography, you will find: Best practices for using cryptography Diagrams and explanations of cryptographic algorithms Implementing digital signatures and zero-knowledge proofs Specialized hardware for attacks and highly adversarial environments Identifying and fixing bad practices Choosing the right cryptographic tool for any problem Real-World Cryptography reveals the cryptographic techniques that drive the security of web APIs, registering and logging in users, and even the blockchain. You'll learn how these techniques power modern security, and how to apply them to your own projects. Alongside modern methods, the book also anticipates the future of cryptography, diving into emerging and cutting-edge advances such as cryptocurrencies, and post-quantum cryptography. All techniques are fully illustrated with diagrams and examples so you can easily see how to put them into practice. Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the technology Cryptography is the essential foundation of IT security. To stay ahead of the bad actors attacking your systems, you need to understand the tools, frameworks, and protocols that protect your networks and applications. This book introduces authentication, encryption, signatures, secret-keeping, and other cryptography concepts in plain language and beautiful illustrations. About the book Real-World Cryptography teaches practical techniques for day-to-day work as a developer, sysadmin, or security practitioner. There's no complex math or jargon: Modern cryptography methods are explored through clever graphics and real-world use cases. You'll learn building blocks like hash functions and signatures; cryptographic protocols like HTTPS and secure messaging; and cutting-edge advances like post-quantum cryptography and cryptocurrencies. This book is a joy to read—and it might just save your bacon the next time you're targeted by an adversary after your data. What's inside Implementing digital signatures and zero-knowledge proofs Specialized hardware for attacks and highly adversarial environments Identifying and fixing bad practices Choosing the right cryptographic tool for any problem About the reader For cryptography beginners with no previous experience in the field. About the author David Wong is a cryptography engineer. He is an active contributor to internet standards including Transport Layer Security. Table of Contents PART 1 PRIMITIVES: THE INGREDIENTS OF CRYPTOGRAPHY 1 Introduction 2 Hash functions 3 Message authentication codes 4 Authenticated encryption 5 Key exchanges 6 Asymmetric encryption and hybrid encryption 7 Signatures and zero-knowledge proofs 8 Randomness and secrets PART 2 PROTOCOLS: THE RECIPES OF CRYPTOGRAPHY 9 Secure transport 10 End-to-end encryption 11 User authentication 12 Crypto as in cryptocurrency? 13 Hardware cryptography 14 Post-quantum cryptography 15 Is this it? Next-generation cryptography 16 When and where cryptography fails

Computer Networks and Intelligent Computing K. R. Venugopal,L. M. Patnaik,2011-07-20 This book constitutes the refereed proceedings of the 5th International Conference on Information Processing, ICIP 2011, held in Bangalore, India, in August 2011. The 86 revised full papers presented were carefully reviewed and selected from 514 submissions. The papers are organized in topical sections on data mining; Web mining; artificial intelligence; soft computing; software engineering; computer communication networks; wireless networks; distributed systems and storage networks; signal processing; image processing and pattern recognition.

Payment Technologies for E-Commerce Weidong Kou,2013-03-14 Electronic payment is the economic backbone of all e-commerce transactions. This book covers the major subjects related to e-payment such as, for example, public key infrastructure, smart cards, payment agents, digital cash, SET protocols, and micro-payment. Its first part covers the infrastructure for secure e-payment over the Internet, whereas in the second part a variety of e-payment methods and systems are described. This edited volume offers a well-written and sound technical overview of the state of the art in e-payment for e-business developers, graduate students, and consultants. It is also ideally suited for classes and training courses in e-commerce or e-payment.

Implementing SSL / TLS Using Cryptography and PKI Joshua Davies,2011-01-07 Hands-on, practical guide to implementing SSL and TLS protocols for Internet security If you are a network professional who knows C programming, this practical book is for you. Focused on how to implement Secure Socket Layer (SSL) and Transport Layer Security (TLS), this book guides you through all necessary steps, whether or not you have a working knowledge of cryptography. The book covers SSLv2, TLS 1.0, and TLS 1.2, including implementations of the relevant cryptographic protocols, secure hashing, certificate parsing, certificate generation, and more. Coverage includes: Understanding Internet Security Protecting against Eavesdroppers with Symmetric Cryptography Secure Key Exchange over an Insecure Medium with Public Key Cryptography Authenticating Communications Using Digital Signatures Creating a Network of Trust Using X.509 Certificates A Usable, Secure Communications Protocol: Client-Side TLS Adding Server-Side TLS 1.0 Support Advanced SSL Topics Adding TLS 1.2 Support to Your TLS Library Other Applications of SSL A Binary Representation of Integers: A Primer Installing TCPDump and OpenSSL Understanding the Pitfalls of SSLv2 Set up and launch a working implementation of SSL with this practical guide.

Building Enterprise JavaScript Applications Daniel Li,2018-09-29 Strengthen your applications by adopting Test-Driven Development (TDD), the OpenAPI Specification, Continuous Integration (CI), and container orchestration. Key FeaturesCreate production-grade JavaScript applications from scratchBuild microservices and deploy them to a Docker container for scaling applicationsTest and deploy your code with confidence using Travis CIBook Description With the over-abundance of tools in the JavaScript ecosystem, it's easy to feel lost. Build tools, package managers, loaders, bundlers, linters, compilers, transpilers, typecheckers - how do you make sense of it all? In this book, we will build a simple API and React application from scratch. We begin by setting up our development environment using Git, yarn, Babel, and ESLint. Then, we will use Express, Elasticsearch and JSON Web Tokens (JWTs) to build a stateless API service. For the front-end, we will use React, Redux, and Webpack. A central theme in the book is maintaining code quality. As such, we will enforce a Test-Driven Development (TDD) process using Selenium, Cucumber, Mocha, Sinon, and Istanbul. As we progress through the book, the focus will shift towards automation and infrastructure. You will learn to work with Continuous Integration (CI) servers like Jenkins, deploying services inside Docker containers, and run them on Kubernetes. By following this book, you would gain the skills needed to build robust, production-ready applications. What you will learnPractice Test-Driven Development (TDD) throughout the entire bookUse Cucumber, Mocha and Selenium to write E2E, integration, unit and UI testsBuild stateless APIs using Express and ElasticsearchDocument your API using OpenAPI and SwaggerBuild and bundle front-end applications using React, Redux and WebpackContainerize services using DockerDeploying scalable microservices using KubernetesWho this book is for If you're a JavaScript developer looking to expand your skillset and become a senior JavaScript developer by building production-ready web applications, then this book is for you.

IPSec Naganand Doraswamy,Dan Harkins,2003 IPSec, Second Edition is the most authoritative, comprehensive, accessible, and up-to-date guide to IPSec technology. Two leading authorities cover all facets of IPSec architecture, implementation, and deployment; review important technical advances since IPSec was first standardized; and present new case studies demonstrating end-to-end IPSec security. New coverage also includes in-depth guidance on policies, updates on IPSec enhancements for large-scale enterprise environments, and much more.

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